Klein Creek Watershed Study and Flood Control Plan

ADDENDUM NO. 2

Prepared for Project Inclusion in the West Branch DuPage River Watershed Plan

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DRAFT

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Contents

Abbreviations and Acronyms ..... **iv**

Executive Summary ES-1
Introduction **1-1**
1.1 Background 1-1
1.2 Purpose and Objectives 1-1
1.3 Relationship to Watershed Plan 1-2
Watershed Characteristics **2-1**
2.1 Watershed Description 2-1
2.2 Historical Flooding Problems 2-2
Hydrologic and Hydraulic Analysis **3-1**
3.1 Previous Studies 3-1
3.2 Hydrologic and Hydraulic Analysis of the Watershed 3-1
3.2.1 Hydrologic Analysis 3-1
3.2.2 Hydraulic Analysis 3-1
3.2.3 September 2008 Model Calibration 3-2
Economic Analysis **4-1**
4.1 DEC-2 Economic Model 4-1
4.2 Economic Model Results 4-1
Identification of Significant Watershed Problems **5-1**
Alternatives Development and Evaluation **6-1**
6.1 Previous Studies 6-1
6.2 Gary-Kehoe Reservoir and Intersection Modifications 6-1
6.2.1 Reservoir Inlet Spillway Control Structure Modifications 6-1
6.2.2 Gary Avenue and Kehoe Boulevard Intersection Drainage Improvements 6-1
6.3 Additional Upstream Storage 6-2
6.3.1 Upstream Location 1 6-2
6.3.2 Upstream Location 2 6-2
6.4 Elk Trail 6-3
6.5 Armstrong Park 6-4
6.5.1 Gravity Storage Reservoir 6-4
6.5.2 Pump Storage Reservoir 6-4
6.5.3 Siphon Relief Sewer 6-5
6.6 Un-Quantified Damages 6-6
6.7 Permitting 6-7
6.8 Summary 6-8
Recommended Watershed Improvement Plan **7-1**
Funding Sources **8-1**
References **9-1**
Exhibits **10-1**
Appendices **11-1**

Tables

Table 1: Flood Damage Summary 4-1
Table 2: Un-Quantified Damage Assessment 6-7

Exhibits

Exhibit 1: Klein Creek Watershed 10-1
Exhibit 2: Floodplain Limits for Klein Creek Watershed 10-1
Exhibit 3: Klein Creek Schematic – Existing North Portion 10-1
Exhibit 4: Klein Creek Schematic – Existing South Portion 10-1
Exhibit 5: Klein Creek Schematic – Alternative 6C 10-1
Exhibit 6: Watershed Subbasin Map 10-1
Exhibit 7: Plan View of Alternatives 1 and 2 10-1
Exhibit 8: Plan View of Alternatives 3, 4A and 4C 10-1
Exhibit 9: Plan View of Alternative 5 10-1
Exhibit 10: Plan View of Alternative 6A 10-1
Exhibit 11: Plan View of Alternative 6B 10-1
Exhibit 12: Plan View of Alternative 6C 10-1
Exhibit 13: Cross Section for Alternative 6 10-1

Appendices

Appendix 1: Baseline FEQ files 11-1
Appendix 2: Alternative C FEQ files 11-1
Appendix 3: September 2008 FEQ files 11-1
Appendix 4: Summary Table of Baseline vs. Alternative model results 11-1
Appendix 5: Village of Carol Stream Observed HWL from September 2008 11-1
Appendix 6: Village of Carol Stream Street Closures from September 2008 11-1
Appendix 7: Engineer Estimate of Probable Cost 11-1
Appendix 8: September 7, 2010 Presentation to Stormwater Committee 11-1
Appendix 9: CD with FEQ files 11-1

AF	Acre-Feet
BFE	Base Flood Elevation
Committee	Stormwater Management Planning Committee
FEMA	Federal Emergency Management Agency
HWL	High Water Level
NRCS	Natural Resources Conservation Service
NWL	Normal Water Level
TSF	Time Series File
Village	Village of Carol Stream
USACOE	U.S. Army Corps of Engineers
USGS	United States Geological Survey
1994 Plan	Klein Creek Watershed Study and Flood Control Plan

Executive Summary

Executive Summary

The Klein Creek Watershed Plan - Addendum No. 2 updates the stormwater and floodplain management framework for the conditions that are present within the Klein Creek watershed. The watershed planning information presented in this document includes watershed characteristics (hydrology and hydraulics), existing flooding and drainage patterns and proposed improvements.

The Klein Creek watershed is approximately 12.6 square miles in size and encompasses parts of the Village of Carol Stream, Village of Bloomingdale, Village of Glendale Heights, Village of Winfield and portions of unincorporated DuPage County. The mainstem of Klein Creek begins east of Schmale Road in the Village of Glendale Heights. It then flows westward, where Tributary No. 3 joins the mainstem at Gary Avenue just south of the railroad. The creek then flows south, crossing under Gary Avenue upstream of Lies Road, through Mitchell Lakes and Armstrong Park. It continues to flow south, to where Tributary No. 2 (Thunderbird Creek) enters the creek from the east immediately upstream of Thunderbird Trail. The creek then begins to flow in a westerly direction to Kuhn Road. From there, the creek flows in the southwest direction to its confluence with the West Branch DuPage River. The last tributary to enter the creek is Tributary No. 1 which enters the creek 0.25 miles north of Geneva Road, near the confluence of the West Branch DuPage River. The Klein Creek watershed is shown on Exhibit 1.

Historic flooding and drainage problems in the study area have been previously documented as part of the Klein Creek Watershed Study and Flood Control Plan, adopted in 1994. The 1994 Plan identified a recommended alternative (Alternative No. 3) that would provide 99% total flood damage reduction through the implementation of several projects; to date, two of the three projects have been designed and constructed. More recently, following the September 2008 storm event, the Village of Carol Stream has requested that DuPage County investigate other flood control alternatives. Hence, this report is provided as Addendum No. 2 to the Klein Creek Watershed Plan.

Updating the Watershed Plan required updating the full equations (FEQ) model based on changes that have occurred in the watershed conditions since the 1994 Plan was adopted. These changes include adding in the commercial development in Tributary No. 3 near the Stratford Square mall, adding in several commercial developments along the creek's mainstem and also incorporating Tributary No. 1 into the overall watershed model. The updated model was run with the County's new time series file (TSF), which contains storm events from 1949 through 2008. In addition to updating the land use through the addition of upstream developments, the model was also calibrated based on high water marks taken from the September 2008 storm event.

The majority of the damages that occur in Carol Stream are bounded by Armstrong Park to the north, Thunderbird Trail to the south, Silverleaf Boulevard to the west and

Blackhawk Drive to the east. This area, which is referred to in this report as the "damage center," is a dense residential community and a portion of it lies within the floodplain of Klein Creek. In addition to residential damages, street flooding and closures occur, as well as sanitary sewer back-ups. The principal cause of this flooding is the inadequate capacity of the natural channel to convey runoff. In effort to alleviate flooding issues in the Village, nine alternatives are presented in this report.

The alternatives are:

- Modify the Gary-Kehoe reservoir outlet control structure
- Improve roadway drainage at the intersection of Gary Avenue and Kehoe Boulevard
- Create additional storage at Upstream Location 1
- Construct a gravity reservoir at Upstream Location 2
- Construct a pump evacuated reservoir at Upstream Location 2
- Modify the control structure at Elk Trail
- Construct a gravity reservoir at Armstrong Park
- Construct a pump evacuated reservoir at Armstrong Park
- Construct a siphon with the pump evacuated reservoir at Armstrong Park

The Gary-Kehoe inlet control structure includes a notched spillway that is presently filled with wooden stop logs as called for in the original design. At the time in which the reservoir was constructed, the stop logs were included to provide the ability to manually adjust the spillway capacity over time as necessary in the operation of the storage site. Following the 2008 flood event, the Village of Carol Stream has asked that the removal of the stoplogs be evaluated. Based on some initial positive results of this analysis, this alternative was included as a baseline condition when evaluating the remainder of the alternatives.

The intersection of Gary Avenue and Kehoe Boulevard experiences frequent overtopping from stormwater runoff. The flooding of this intersection is a repeated traffic disruption to the Village of Carol Stream. Therefore, an overflow pipe was considered for conveying water from the intersection and discharging it directly into the Gary-Kehoe reservoir. This alterative was also included as a baseline condition in the current study when evaluating the remainder of the alternatives.

In an effort to abate the peak flow in the channel upstream of the damage center, two sites and three different alternatives were evaluated as potential floodwater storage facilities. The upstream storage locations were analyzed individually as well as in combination with the Armstrong Park alternatives. Both locations require land acquisitions, which significantly increases the cost of the alternatives. For this reason, these alternatives or any combination with them becomes cost prohibitive.

Elk Trail is a roadway located in Mitchell Lakes, upstream of Armstrong Park. Its outlet control structure consists of a large concrete box that has an overflow grate at the top of the structure and an opening at the bottom that is capable of passing low flows downstream without utilizing available upstream storage. To optimize the storage in Mitchell Lakes, modification of the Elk Trail outlet control structure was analyzed. The

goal of this modification was that more storage would be accessed during the frequent storm events, yet during the larger, less frequent storm events, the water would be capable of passing through the control structure without overtopping the road. When comparing this alternative with that of the baseline there are actually slight increases in water surface elevations upstream of the structure for the larger more extreme events, i.e. storm events in years 1954 and 1987. Due to the impacts to be expected from these simulated water surface elevation increases, this alternative was dismissed.

Water enters the damage center from multiple locations via overland flow routes, from the mainstem of Klein Creek, and from Tributary No. 2.; however, the stormwater only has one way to exit the damage center, which is through the mainstem of the creek downstream of Thunderbird Trail. Therefore, to reduce flood damages to the maximum extent possible, additional flood storage in combination with a secondary discharge out of the area should be identified.

A floodwater storage opportunity and additional outlet from the damage center have been identified at Armstrong Park, and three of the nine alternatives evaluated involve a facility at this location. All three create a way for stormwater to be stored, but the third Armstrong Park alternative also creates an additional outlet. When trying to locate this additional outlet, the topography presents an obstacle. The obvious location to outlet the proposed Armstrong Park facility is in proximity to the wastewater treatment plant downstream of the damage center. All potential routes to this outlet location are hindered by the existence of a hill, approximately where the middle school sits. The construction of a gravity-draining sewer through this hill would require a great deal of excavation. A more logical and cost effective solution given the location of the hill in the middle of the proposed system is the creation of a siphon relief sewer. The siphon would begin at the southwest corner of the pump storage reservoir, travel down a neighborhood road following the profile of the road before discharging back into Klein Creek. For modeling purposes it estimated that a 60-inch diameter pipe would be used. Exhibit 13 provides a cross section view through the proposed basins.

All nine of the alternatives were evaluated not only on residual damage reduction, but also on construction costs and un-quantified damages such as traffic disruption and sewer back-ups. A more detailed description of the alternatives is provided in Section 6 of this Addendum. Funding sources and cost-sharing opportunities for the alternatives are presented in Section 7.

When looking at the total project cost divided by the percent damage reduction for each alternative, the alternative involving only buyouts was the most cost effective. However, when reviewing the un-quantified damages (i.e. storm sewer back-ups, traffic disruption, etc.), Alternative 6C has a good level of benefit while the buyouts-only option has a poor level of benefit. Alternative 6C is the construction of a siphon with the pump-evacuated reservoir at Armstrong Park, in addition to the removal of the stoplogs from the Gary-Kehoe reservoir and improvements at the intersection of Gary Avenue and Kehoe Boulevard. A presentation on the alternatives analysis was made to the Stormwater Management Planning Committee on September 7, 2010. At that meeting, it was voted on to move forward on Alternative 6C as the preferred alternative. A copy of

this presentation was posted on the county's website and is provided in the Appendix 8. In addition, the Addendum No. 2 will also be available on the County website for review during the public comment period.

Extensive field observations made after the flood in July 2010 indicate that the inadequate channel capacity in the damage center is also a function of lack of channel maintenance and encroachment from residential fencing and landscaping. Unmaintained growth of woody vegetation has significantly reduced channel conveyance. Solid board and chain link fencing perpendicular to the direction of flow limits overbank conveyance that natural stream systems use to carry flood flows. In addition to the recommended alternative, there is a need for a routine channel maintenance program that includes removal of deadfall woody vegetation and thinning understory to reduce flooding conditions and improve the ecological "health" of the stream.

SECTION 1

Introduction

Section 1

Introduction

1.1 Background

The Klein Creek watershed is approximately 12.6 square miles in size and the Village of Carol Stream comprises the majority of the watershed. Klein Creek flows through the center of the Village of Carol Stream generally in a southwestern direction to its confluence with the West Branch DuPage River. The watershed is comprised of suburban residential communities intermixed with industrial and commercial development. There are three significant tributaries which include: Tributary No. 1, which enters Klein Creek from the east, just north of Geneva Road; Tributary No. 2, which enters Klein Creek from the east, upstream of Thunderbird Trail; and Tributary No. 3, which enters Klein Creek near the intersection of Gary Avenue and Army Trail Road. The Villages of Bloomingdale, Glendale Heights and Winfield and portions of unincorporated DuPage County are also within the watershed. The Klein Creek watershed is shown on Exhibit 1.

1.2 Purpose and Objectives

In 1994, the DuPage County Board adopted the Klein Creek Watershed Study and Flood Control Plan. The Plan identified a recommended alternative (Alternative No. 3) that would provide 99% total flood damage reduction through the implementation of several projects; to date, two of the three projects have been designed and constructed.

Due to recent flood events, namely the September 2008 storm, the Village of Carol Stream requested that DuPage County investigate other flood control alternatives and implement the buyout and flood proofing programs that were recommended in the 1994 Klein Creek Watershed Study and Flood Control Plan. The purpose of this addendum to the watershed study is to evaluate existing flooding problems along Klein Creek and to develop additional flood control measures to alleviate these problems.

The addendum is presented in eight sections:

- Section 1, Introduction: Provides overview of addendum format
- Section 2, Watershed Characteristics: Describes the basic character of the Klein Creek watershed, including hydrology and hydraulics.
- Section 3, Hydrologic and Hydraulic Analysis: Describes the changes to the previous hydrologic and hydraulic modeling that were assembled to represent the Klein Creek watershed.
- Section 4, Economic Analysis: Peak water surface elevations from the hydrologic model were used in an economic model to determine the number of structures (homes and businesses) inundated in the simulated historical flood events.

- Section 5, Identification of Significant Watershed Problems: The flooding concerns and drainage needs within the watershed are documented in this section.
- Section 6, Alternatives Development and Evaluation: The areas within the watershed that were identified as problem areas were evaluated to determine how to effectively minimize the flood damages that occur. Included in this section are nine alternatives that were analyzed.
- Section 7, Recommended Watershed Plan: Summarizes the recommended alternatives to be constructed to alleviate flood damages within the Klein Creek watershed. The recommended alternative for watershed improvements is "Armstrong Park, Alternative C".
- Section 8, Funding Sources: Based upon the recommended alternative, funding sources or opportunities for cost-sharing are identified.

1.3 Relationship to Watershed Plan

This report serves as Addendum No. 2 to the Klein Creek Watershed Study and Flood Control Plan which was adopted by the DuPage County Board in 1994. It is consistent with the goals of the standards and criteria established by the Committee in the DuPage County Stormwater Management Plan that was adopted in September 1989 and the DuPage County Countywide Stormwater and Flood Plain Ordinance (DPCSFPO), which was adopted in October 1991 (last revised March 2008).

SECTION 2

Watershed Characteristics

Section 2

Watershed Characteristics

2.1 Watershed Description

The Klein Creek watershed, as depicted in Exhibit 1, is comprised of suburban residential communities intermixed with industrial and commercial developments. The Klein Creek watershed encompasses parts of the Village of Carol Stream, Village of Bloomingdale, Village of Glendale Heights, Village of Winfield and portions of unincorporated DuPage County. Klein Creek has a total watershed area of approximately 12.6 square miles.

The headwaters of Klein Creek begin east of Schmale Road in the Village of Glendale Heights in an area with residential land uses. From Glendale Heights, the creek flows in a westerly direction and crosses into the Village of Carol Stream approximately 0.5 miles west of Schmale Road. Between Schmale Road and Gary Avenue, the creek consists of open channel wetlands and on-line detention ponds, which receive stormwater from numerous commercial developments located in Bloomingdale and Carol Stream.

Klein Creek continues to flow westward, where Tributary No. 3 joins in at Gary Avenue just south of the railroad. Tributary No. 3 has a total watershed area of approximately 1.1 square miles and consists of residential development around Mallard Lake and some commercial and light industrial developments.

From Gary Avenue, the creek continues south under Lies Road where it enters into Mitchell Lakes and eventually Armstrong Park. Mitchell Lakes consists of five individual lakes connected in series. Watershed areas tributary to Mitchell Lakes consist of residential developments with single and multi-family structures. The runoff from these areas is carried via storm sewer to Mitchell Lakes. Immediately downstream of Mitchell Lakes is Armstrong Park, which is a recreational facility approximately 70 acres in size that is owned and operated by the Carol Stream Park District. The facility includes a stormwater retention/recreational lake, referred to as Lake George, a dry bottom detention basin and numerous athletic fields and tennis courts. Lake George and the dry bottom detention basin serve as stormwater management facilities for the area and are hydraulically connected to Klein Creek, which serves as the eastern boundary of the park. Dense residential developments border the park to the north, west and south sides. Illini Drive runs parallel to the southern park boundary.

From Armstrong Park, Klein Creek passes under Illini Drive where it continues flowing south, to where Tributary No. 2 (Thunderbird Creek) enters the creek from the east immediately upstream of Thunderbird Trail. Between Illini Drive and Thunderbird Trail, Klein Creek is bordered by residential properties up to the creek banks. The channel section through this area is undersized and the vegetation is severely

overgrown. Tributary No. 2 has a watershed area of approximately 1.4 square miles at the confluence of Klein Creek. The watershed area for Tributary No. 2 east of Gary Avenue is comprised of industrial developments and contains numerous stormwater facilities within these industrial developments. The watershed area for Tributary No. 2 west of Gary Avenue is comprised of single family residences.

From Thunderbird Trail, the creek then begins to flow in a westerly direction to Kuhn Road. Land use along this reach consists of municipal facilities and green space south of the creek with residential and vacant/wooded land north of the creek.

Once the creek passes under Kuhn Road, it flows in a southwest direction to its confluence with the West Branch DuPage River near Geneva Road. In general, areas adjacent to the creek in this reach consist of green space and Forest Preserve District of DuPage County property, with residential developments set back from the creek. The most downstream tributary is Tributary No. 1, which enters the creek 0.25 miles north of Geneva Road, and has a watershed area of approximately 1.2 square miles. The watershed area is comprised of mixed land uses including single family residences and the Klein Creek Golf Club facility.

2.2 Historical Flooding Problems

Flooding along Klein Creek has historically occurred in the older sections of the Village of Carol Stream, primarily between Illini Drive and Kuhn Road along the mainstem, and between Gary Avenue and the confluence with the mainstem along Tributary No. 2. The primary cause of flooding in these areas is the inadequate capacity of the natural channel to convey runoff due to floodplain development and stream channelization. Much of the floodplain area in the older section of the village includes residential developments with homes, garages, fences, and other construction near or on the banks of the creek. In most cases, these structures create significant restrictions in the passage of floodwaters. Refer to Exhibit 2 for the floodplain limits within the Klein Creek watershed.

During the September 2008 flood event, it was reported by the Village of Carol Stream that approximately 267 residences were affected by flood damages due to overbank stream flooding, sanitary sewer back-ups, and/or sump-pump failures. This addendum contains a September 2008 calibrated full equations (FEQ) model, and further discussion and observations from this model are provided in Section 3. This addendum, like the 1994 Plan, does not attempt to quantify or evaluate sanitary sewer backups, which are often a result of excessive infiltration and inflow into the sanitary sewer system.

A severe flood event also occurred in July 2010, which caused extensive damages. Field observations were made of the flooding and testimony from the affected residents was taken. A TSF of this event has not yet been completed as of the date of this addendum; therefore, quantitative modeling could not be performed. However, the July 2010 event is adequately bracketed for alternative analysis by other severe historic events that were modeled.

SECTION 3

Hydrologic and Hydraulic Analysis

Section 3

Hydrologic and Hydraulic Analysis

3.1 Previous Studies

An FEQ unsteady state flood routing computer model was previously completed for the 1994 Plan. That model was completed in an older version of FEQ, version 7.24. In addition, it was analyzed using the TSF from 1949-1988 and calibrated to the 1987 event.

3.2 Hydrologic and Hydraulic Analysis of the Watershed

3.2.1 Hydrologic Analysis

DuPage County has completed the hydrologic portion of the modeling efforts using the HSPF program supported by the USGS. The HSPF computer program produces a continuous TSF of simulated runoff for each land cover type. Rainfall records utilized to develop the TSF were for the period between the years 1949 to 2008.

The TSF that was used in the updated baseline condition model was based on the DuPage County Theissen gage network for O'Hare airport. For the September 2008 calibration model, the TSF that was used was based on a local gage network within DuPage County.

3.2.2 Hydraulic Analysis

The FEQ model was utilized for the Klein Creek watershed analysis. The FEQ program uses rainfall-runoff from the TSF file to estimate flood elevations produced by storm events.

It was determined at the start of the current study that the previously developed FEQ model for Klein Creek would be updated to the most current version of FEQ and revised based on recent development.

The FEQ modeling was upgraded from version 7.24 to 10.73 for this study Since the 1994 Plan and associated FEQ model were developed, there have been several changes to the watershed as a result of new or re-development projects. The following changes were added to and/or updated in the baseline model:

- Detention basins that were previously identified as future detention along Tributary No. 3 in the 1994 Plan were surveyed and added to the baseline model for this Addendum. This includes, but is not limited to the following developments: Costco, Lowe's, Lifetime Fitness, and detention basins downstream of Mallard Lake.
- Cross sections were surveyed and updated in the model for the area along the Aldi site at the corner of Army Trail Road and Gary Avenue.

- The Pepper City access road in Tributary No. 3 was added to the model.
- The Fountains at Town Center development at the northwest corner of Gary Avenue and Lies Road was added, including the Fountain View Road culvert.
- The culvert located at 250 Kehoe Boulevard was added to the model.
- The Lenz Park updates, which include the construction of two bridges, were added.
- Tributary No. 1 was previously a standalone model in which the point time series file (PTSF) was added to the watershed model in the appropriate locations. For this addendum, Tributary No. 1 was included in the overall Klein Creek watershed model.
- Numerous existing detention basins were previously modeled using a 1-D relationship. These were updated and modeled using a 2-D relationship that is the current standard for the County.
- The FEQ model schematic was updated based on the above changes; refer to Exhibits 3 and 4. The proposed alternative schematic is provided on Exhibit 5.
- The watershed subbasin map was modified based on the above changes and the land cover summaries for each subarea were updated. Refer to Exhibit 6.

Appendices 1 through 3 contain the FEQ files for the baseline, Armstrong Park - Alternative C, and September 2008 event, respectively. A summary table is provided in Appendix 4 that compares the results of the baseline conditions model versus the recommended alternative model.

3.2.3 September 2008 Model Calibration

To establish the Klein Creek FEQ model's accuracy and validity, the model was calibrated to the match high water marks collected during the September 2008 flood event. High water marks for this event were collected throughout the primary flood damage area in Carol Stream and were provided by the Village of Carol Stream. Refer to Appendix 5 for this information.

SECTION 4

Economic Analysis

Section 4

Economic Analysis

4.1 DEC-2 Economic Model

Field surveys of homes located within or near the Klein Creek floodplain were previously performed for the 1994 Watershed Plan to determine critical home elevations at which flood water could enter and cause damage to a structure and/or its contents. Approximately 600 homes were surveyed.

The relationship between flood depth and percent damage for building structures was developed by the DuPage County Stormwater Management Division from the information compiled by FEMA, NRCS, and USACOE. The Department of Environmental Concerns (DEC-2) model utilizes this relationship curve to estimate damages to each structure and its contents depending upon the water surface elevations from the FEQ analysis.

Residential structures are considered eligible for buyout if they are flooded by one foot or more in any storm in the historical series, or if they are flooded by a half foot or more in two or more flood events in the historical series. Structures not removed from flooding through improvements or buyouts are recommended to be flood proofed.

4.2 Economic Model Results

The baseline condition DEC-2 model was utilized to evaluate flood damages for the 1949 to 2008 historical storm series. The 1987 event, 1957 event, followed by the 2008 event are the most damage producing storms in the series, respectively. These events acount for 27%, 21%, 10% of the total series damages. Table 1 summarizes the flood damages for the baseline condition and Armstrong Park – Alternative C. The alternatives are discussed in more detail in Section 6.

Table 1: Flood Damage Summary

Alternative	TOTAL NO. OF STRUCTURES DAMAGED	NO. OF STRUCTURES ELIGIBLE FOR BUYOUT	NO. OF STRUCTURES RECOMMEND FOR FLOOD PROOFING
Baseline	49	18	31
Armstrong Park, Alt. C	32	12	20

SECTION 5

Identification of Significant Watershed Problems

Section 5

Identification of Significant Watershed Problems

Flooding and drainage problems throughout Carol Stream were identified by the Village and summarized in an interdepartmental memorandum following the September 2008 flood event. In addition, the Village compiled observed high water marks and street closures, provided in Appendices 5 and 6. This information was used for calibration of the updated baseline FEQ model.

The majority of the residential damages that occur in Carol Stream are bound by Armstrong Park to the north, Thunderbird Trail to the south, Silverleaf Boulevard to the west, and Blackhawk Drive to the east. Damages also occur between and between Gary Avenue and the confluence with the mainstem along Tributary No. 2. These areas are a dense residential community, with a portion located within the floodplain of Klein Creek. The principal cause of this flooding is the inadequate capacity of the natural channel to convey runoff. The channel capacity at Illini Drive before the road overtops is approximately 150 cfs. In the historical storm series, approximately 33% of the storm events exceed 150 cfs. At Thunderbird Trail the culvert capacity is approximately 450 cfs; however, damages begin to occur at a much lower flow rate.

Extensive field observations made after the flood in July 2010 indicate that the inadequate channel capacity in the damage center is also a function of lack of channel maintenance and extensive residential fencing/landscaping. Unmaintained growth of woody vegetation has significantly reduced channel conveyance. Solid board and chain link fencing perpendicular to the direction of flow limits overbank conveyance that natural stream systems use to carry flood flows.

Armstrong Park, located immediately upstream of Illini Drive, also experiences extreme overbank flooding. The overbank flooding is compounded by Lake George overtopping. The park's recreational facilities become flooded and are unplayable. In the dense residential area that experiences frequent flooding, Armstrong Park is the only open space available for potential flood storage. Currently, the Carol Stream Park District is in the process of evaluation future park modification, which allows space to become available for flood storage. This opportunity is further discussed in Section 6 – Alternatives Development and Evaluation.

In addition to overbank and street flooding, damages also occur due to sanitary sewer back-ups and/or sump-pump failures. This report does not attempt to quantify or evaluate sanitary sewer backups which are often a result of excessive infiltration and inflow to the sanitary sewer systems.

SECTION 6

Alternatives Development and Evaluation

Section 6

Alternatives Development and Evaluation

6.1 Previous Studies

As a result of the 1994 Watershed Study and Flood Control Plan, two of the three recommended structural projects were designed and constructed. The first project was the Interim Flood Control Project (Phase 1), which included replacement of a restrictive access road bridge serving the Village of Carol Stream wastewater treatment plant. As part of that project, a 13 acre-foot compensatory storage reservoir was constructed. The second project was a 150 acre-foot reservoir at the southeast corner of Gary Avenue and Kehoe Boulevard, along Tributary No. 2. No voluntary buyouts or residential flood proofing projects were implemented.

6.2 Gary-Kehoe Reservoir and Intersection Modifications

6.2.1 Reservoir Inlet Spillway Control Structure Modifications

The proposed alternative included the evaluation of the inlet control structure located at the Gary-Kehoe Reservoir on Tributary No. 2. The control structure includes a notched spillway that is presently filled with wooden stop logs as called for in the original design. At the time the reservoir was constructed, the stop logs were included to provide the ability to manually adjust the spillway capacity over time as necessary in the operation of the storage site. Following the 2008 flood event, the Village of Carol Stream has asked that the removal of the stoplogs be evaluated. For this alternative, the function table utility (FEQUTL) files for the spillway were modified to depict the removal of the stoplogs. Based on some initial positive results of this analysis, this alternative was included as a baseline condition when evaluating the remainder of the alternatives.

6.2.2 Gary Avenue and Kehoe Boulevard Intersection Drainage Improvements

The intersection of Gary Avenue and Kehoe Boulevard experiences frequent flooding from stormwater runoff. The flooding of this intersection is a repeated traffic disruption to the Village of Carol Stream and results in floodwater overflowing in the damage center. Often times, residents and the Village have stated that the intersection is flooded and that there is capacity in the adjacent flood control reservoir. Therefore, an overflow pipe was considered for conveying water from the intersection and discharging it directly into the Gary-Kehoe Reservoir. It is assumed that there would be some sort of overflow grate behind the curb at the sag on Kehoe Boulevard to capture runoff during larger storms events. The water would drain into a 60-inch reinforced concrete pipe (RCP),or equivalent conveyance structure, before discharging into the reservoir. Similar to the Gary-Kehoe outlet control structure modifications, this intersection drainage

improvement was included as a baseline condition when evaluating the remainder of the alternatives in this study.

For the full storm series between 1949 and 2008, the analysis indicates that these two alternatives would result in a net reduction in flood damages. Exhibit 7 reflects the areas in which the above alternatives would occur. The total construction cost to implement the reservoir outlet control structure modifications and intersection drainage improvements is approximately $83,100. This cost does not account for contingencies, permitting, or engineering fees.

6.3 Additional Upstream Storage

As stated previously, the principle cause of flooding is the inadequate capacity of the natural channel to convey runoff. In an effort to reduce the peak flow in the mainstem upstream of the damage center, two sites and three different alternatives were evaluated as potential floodwater storage facilities. Both upstream floodwater storage locations were analyzed individually as well as in combination with the Armstrong Park alternatives. Both locations require land acquisition, which significantly increases the cost of the alternatives. For this reason, these alternatives or any combination with them becomes cost prohibitive. Exhibit 8 identifies the general location of the two upstream storage locations.

6.3.1 Upstream Location 1

The alternatives analysis for Upstream Location 1 consists of expanding an existing detention storage facility to a capacity of approximately 200 AF. At concept level, it would have a normal water level (NWL) of 758.0 and a high water level (HWL) of 767.5. The total construction cost to implement the above alternative is approximately $7,000,000. These costs do not account for contingencies, permitting, or engineering fees. There would also be a land acquisition aspect to this alternative, estimated to cost approximately $8,950,500, and would require coordination with the Village of Bloomingdale since this site lies within their village limits.

This alternative coupled with the two Gary-Kehoe modifications would require the flood proofing of 32 residences and the buyout of 9 residences to accommodate nearly 100% flood damage reduction on Klein Creek and Tributary No. 2.

6.3.2 Upstream Location 2

Two different flood control reservoirs were evaluated at the Upstream Location 2 site. The site consists of an abandoned commercial building, parking lot and vacant parcel. To optimize use of this site, two different flood control reservoirs, Alternative A and Alternative C, were evaluated.

Alternative A consists of creating a gravity drained flood storage facility on the east and west side of Gary Avenue with a NWL of 748.0 and a HWL of 758.0. This would require demolition of the existing building and parking lot. The two basins would be equalized

by a 72" RCP running underneath Gary Avenue and a 200 foot concrete overflow weir, which would be constructed on the new gravity basin so that Klein Creek could overtop into the basin during large storm events.

Alternative C is similar in concept to Alternative A, but includes pump evacuated flood storage. The new reservoir constructed for Alternative C would have a capacity of 235 AF, with a NWL of 728 and a HWL of 758. The two basins would still be connected by a 72" RCP under Gary Avenue and a 200 foot concrete overflow weir that would be constructed on the new reservoir.

The total construction cost to implement Alternative A is approximately $3,900,000. The total construction cost to implement Alternative C is approximately $7,600,000. These costs do not account for contingencies, permitting, or engineering fees. As with the Upstream Location 1 alternative, there would be a land acquisition aspect to this alternative, estimated to cost approximately $9,300,000 for either option A or C.

Upstream Location 2 - Alternative A coupled with the two Gary-Kehoe modifications would require the flood proofing of 31 residences and the buyout of 9 residences to accommodate nearly 100% flood damage reduction on Klein Creek and Tributary No. 2. Upstream Location 2 - Alternative C coupled with the two Gary-Kehoe modifications would require the flood proofing of 26 residences and the buyout of 5 residences to accommodate nearly 100% flood damage reduction on Klein Creek and Tributary No. 2.

6.4 Elk Trail

Elk Trail is a roadway located in Mitchell Lakes upstream of Armstrong Park, as shown in Exhibit 9. Its outlet control structure consists of a large concrete box that has an overflow grate at the top of the structure and an opening at the bottom that passes low flows downstream without utilizing available storage upstream. There have been several comments made by residents that during certain storm events when downstream areas are experiencing flooding, there is capacity in the basins upstream of the Elk Trail structure.

To optimize the storage in Mitchell Lakes, modification of the Elk Trail outlet control structure was analyzed. In FEQUTL, the bottom opening was reduced in height from 2.5 feet to 1 foot. An additional opening 1.5 feet by 12 feet was simulated approximately 4.5 feet above the original opening and the overflow grate was not touched. The goal of this modification was that more storage would be available during the frequent storm events, while the larger, less frequent storm events, would pass through the overflow structure without overtopping the road.

When comparing this alternative with that of the baseline there are actually slight increases in water surface elevations upstream of the structure for the larger more extreme events, i.e. storm events in years 1954 and 1987. Due to the impacts expected from these simulated water surface elevation increases, this alternative was dismissed.

The total construction cost to implement the Elk Trail alternative is approximately $66,000. This cost does not account for contingencies, permitting, or engineering fees.

Elk Trail modifications coupled with the two Gary-Kehoe modifications would require the flood proofing of 34 residences and the buyout of 14 residences to accommodate nearly 100% flood damage reduction on Klein Creek and Tributary No. 2.

6.5 Armstrong Park

The Carol Stream Park District owns and operates Armstrong Park and is in the process of planning improvements to the park. This provided an opportunity to re-evaluate the flood storage options within the park. As evident from Exhibit 6, Armstrong Park is the only open space in a highly dense residential neighborhood. It is also located immediately upstream of where damages begin to occur. Three alternatives were evaluated at Armstrong Park. All of the Alternatives used the Park District's Concept C as a base plan, which allows the southern portion of the park to be utilized for flood storage.

6.5.1 Gravity Storage Reservoir

The first alternative (Alternative A) for Armstrong Park is creating a gravity reservoir similar to what was constructed at Gary-Kehoe. The proposed reservoir would have a capacity of 100 AF with a NWL of 742 and a HWL of 750. Based on observations made in the field and by water levels in Lake George, it was assumed that any proposed reservoir could not go much deeper than 742 without significant costs associated with poor soils and groundwater interference. During storm events, water would be taken from the Mitchell Lakes outlet control structure through a 4′ by 8′ reinforced concrete box culvert (or equivalent) and discharged into the proposed reservoir. Once the reservoir was filled it would begin to discharge back into Klein Creek. Refer to Exhibit 10 for this proposed layout.

The total construction cost to implement the Armstrong Park – Alternative A is approximately $5,500,000. This cost does not account for contingencies, permitting, or engineering fees.

This alternative coupled with the two Gary-Kehoe modifications would require the flood proofing of 31 residences and the buyout of 8 residences to accommodate nearly 100% flood damage reduction on Klein Creek and Tributary No. 2. This alternative coupled with the two Gary-Kehoe modifications <u>and</u> Upstream Location 2 – Alternative C would require the flood proofing of 23 residences and the buyout of 4 residences to accommodate nearly 100% flood damage reduction on Klein Creek and Tributary No. 2.

6.5.2 Pump Storage Reservoir

As stated above, groundwater and soils could become an issue if a proposed reservoir is excavated below elevation 742. Armstrong Park - Alternative B investigates storing the water up higher in a pump storage reservoir coupled with a small gravity reservoir. The proposed pump storage reservoir would have a capacity of 100 AF with a NWL of 742

and a HWL of 757. The gravity reservoir, which would act as a wet well for the pump-storage reservoir, would have a NWL of 744, a HWL of 748, and a capacity of approximately 15 AF. This alternative is more flexible than Alternative A in that there is more control as to when the storage is accessed during the storm event. Refer to Exhibit 11 for this proposed layout.

The total construction cost to implement the Armstrong Park – Alternative B is approximately $6,500,000. This cost does not account for contingencies, permitting, or engineering fees.

This alternative, coupled with the two Gary-Kehoe modifications, would require the flood proofing of 33 residences and the buyout of 8 residences to accommodate nearly 100% flood damage reduction on Klein Creek and Tributary No. 2. This alternative coupled with the two Gary-Kehoe modifications and Upstream Location 2 – Alternative C would require the flood proofing of 20 residences and the buyout of 3 residences to accommodate nearly 100% flood damage reduction on Klein Creek and Tributary No. 2.

6.5.3 Siphon Relief Sewer

The reservoir in Alternative B, above, is the basis for Armstrong Park - Alternative C. The reservoir configuration for Alternative C is exactly the same as in Alternative B; the only difference is the construction of a siphon relief sewer. Refer to Exhibit 12 for this proposed layout.

Water enters the damage center from multiple locations via overland flow routes, from the mainstem of Klein Creek, and from Tributary No. 2.; however, the stormwater only has one way to exit the damage center, which is through the mainstem of the creek downstream of Thunderbird Trail. Therefore, to reduce flood damages, to the maximum extent possible, additional flood storage in combination with a secondary discharge out of the area should be identified.

A floodwater storage opportunity and additional outlet from the damage center have been identified at Armstrong Park, and three of the nine alternatives evaluated involve a facility at this location. All three create a way for stormwater to be stored, but the third Armstrong Park alternative also creates an additional outlet. When trying to locate this additional outlet, the topography presents an obstacle. The obvious location to outlet the proposed Armstrong Park facility is in proximity to the wastewater treatment plant downstream of the damage center. All potential routes to this outlet location are hindered by the existence of a hill, approximately where the middle school sits. The construction of a gravity-draining sewer through this hill would require a great deal of excavation. A more logical and cost effective solution given the location of the hill in the middle of the proposed system is the creation of a siphon relief sewer. The siphon would begin at the southwest corner of the pump storage reservoir, travel down a neighborhood road following the profile of the road before discharging back into Klein Creek. It is anticipated that there will be utility conflicts when constructing the siphon relief sewer; however, these conflicts would exist anywhere a secondary discharge would be located. For modeling purposes it estimated that a 60-inch diameter pipe would be used. Exhibit 13 provides a cross section view through the proposed basins.

The total construction cost to implement the Armstrong Park – Alternative C is approximately $7,700,000. This cost does not account for contingencies, permitting, or engineering fees.

This alternative, coupled with the two Gary-Kehoe modifications, would require the flood proofing of 27 residences and the buyout of 7 residences to accommodate nearly 100% flood damage reduction on Klein Creek and Tributary No. 2. This alternative coupled with the two Gary-Kehoe modifications and Upstream Location 2 – Alternative C would require the flood proofing of 17 residences and the buyout of 2 residences to accommodate nearly 100% flood damage reduction on Klein Creek and Tributary No. 2.

6.6 Un-Quantified Damages

All of the described alternatives above address quantifiable damages. What is not addressed in the extensive modeling are those damages that cannot be quantified. These damages include but are not limited to: sanitary sewer back-ups, water borne diseases and pollution, traffic disruption, property access denied, business/employee time lost, emergency services disruption, and probable utility outages.

Looking at the flow rates in 50 cfs increments at Illini Drive and Thunderbird Trail, the alternatives were ranked with respect to these un-quantified damages.

- Sanitary Back-up: Ranking was based on which alternative reduced the total number of damaging events.
- Water Borne Disease and Pollution: Ranking was based on which alternative reduced the total number of damaging events.
- Traffic Disruption: Ranking was based on which alternative reduced the total number of extreme events.
- Property Access Denied: Ranking was based on which alternative reduced the total number of extreme events.
- Business/Employee Time Lost: Ranking was based on which alternative reduced the total number of damaging events.
- Emergency Service Disruption: Ranking was based on which alternative reduced the total number of frequent events.
- Probable Utility Outage: Ranking was based on which alternative reduced both the total number of events and the number of extreme events.

For each un-quantified damage, the top three alternatives were given a “G”, good level of benefit, the next was given as “S”, some benefit, the next was given a “M”, minimal benefit, and the remainder were given a “P”, poor level of benefit. Table 2 summarizes these results.

Table 2: Un-Quantified Damage Assessment

DAMAGES	Buyout Only	Armstrong Park, Alt. A	Armstrong Park, Alt. B	Armstrong Park, Alt. C	Upstream Location 2, Alt. C	Armstrong Park, Alt. A & Upstream Location 2, Alt. C	Armstrong Park, Alt. B & Upstream Location 2, Alt. C	Armstrong Park, Alt. C & Upstream Location 2, Alt. C
Sanitary Back-up	P	P	S	G	P	M	G	G
Water Borne Disease and Pollution	P	P	S	G	P	M	G	G
Traffic Disruption	P	P	S	G	P	M	G	G
Property Access Denied	P	M	S	G	M	G	G	G
Business/Employee Time Lost	P	M	S	G	M	S	G	G
Emergency Services Disruption	P	M	S	G	M	S	G	G
Probable Utility Outage	P	M	S	G	M	S	G	G

G – Good Level of Benefit; S – Some Benefit; M – Minimal Benefit; P – Poor Level of Benefit

6.7 Permitting

The following conditions, as they relate to permitting within the DuPage County Countywide Stormwater and Flood Plain Ordinance, are satisfied within this addendum.

- The more extensive analysis by FEQ supersedes the simplistic accounting of detention and compensatory storage.
- The alternative analysis demonstrated in this section will satisfy any alternative analysis required during the permitting process.
- A Conditional Letter of Map Revision (CLOMR) will not be required for projects within this addendum.
- The public meetings and comment period for this addendum will satisfy any public comment requirements during the permitting process.

6.8 Summary

Based on the alternatives analysis and the un-quantified damage assessment, the Committee recommended Armstrong Park-Alternative C as the preferred alternative at the September 2010 Committee meeting. An engineer's estimate of probable cost is provided in Appendix 7.

SECTION 7

Recommended Watershed Improvement Plan

Section 7

Recommended Watershed Improvement Plan

As stated in the previous section, Armstrong Park – Alternative C is the preferred alternative. A copy of the presentation made to the Committee was posted on the county's website and is provided in the Appendix 8. In addition, Addendum No. 2 will also be available on the County website for review during the public comment period.

Evaluating the total project cost divided by the percent damage reduction for each alternative, the alternative involving only buyouts was the most cost effective. However, when reviewing the un-quantified damages (i.e. storm sewer back-ups, traffic disruption, etc.), Armstrong Park – Alternative C has a good level of benefit while the buyouts-only option has a poor level of benefit. While Armstrong Park – Alternative C may not remove all residual damages, it does significantly reduce the repetitiveness of those damages. Armstrong Park – Alternative C is the construction of a siphon with the pump-evacuated reservoir at Armstrong Park, in addition to the removal of the stoplogs from the Gary-Kehoe reservoir and improvements at the intersection of Gary Avenue and Kehoe Boulevard. This alternative not only addresses the lack of flood storage available for the area, but also addresses the conveyance issues in the system.

The Armstrong Park construction that would occur from the recommended alternative could be completed in three phases. The first phase of construction would be a mass earthwork contract that includes construction of the gravity and pumped storage reservoir. The second phase would be the construction of the pump station and stub for the siphon pipe from the pump station to the edge of the park boundary. The last phase would be the construction of the siphon pipe.

Extensive field observations made after the flood in July 2010 indicate that the inadequate channel capacity in the damage center is also a function of lack of channel maintenance and extensive residential fencing/landscaping. Unmaintained growth of woody vegetation has significantly reduced channel conveyance. Solid board and chain link fencing perpendicular to the direction of flow limits overbank conveyance that natural stream systems use to carry flood flows. In addition to the recommended alternative, there is a need for a routine channel maintenance program of removing deadfall woody vegetation and thinning understory to reduce flooding conditions and improve the ecological "health" of the stream. It is recommended that streambank stabilization and riparian restoration projects be explored within the watershed to reduce sediment pollutant loads and restore highly eroded, steep-banked channels so that they can better support aquatic life and native vegetation.

SECTION 8

Funding Sources

Section 8

Funding Sources

Evaluating the total project cost divided by the percent damage reduction for each alternative, the alternative involving only buyouts was the most cost effective. However, when reviewing the un-quantified damages (i.e. storm sewer back-ups, traffic disruption, etc.), Armstrong Park – Alternative C has a good level of benefit while the buyouts-only option has a poor level of benefit. In addition, the alternatives at Armstrong Park provided the greatest opportunity for cost sharing amongst government entities.

First, the Carol Stream Park District and the Village of Carol Stream have reached agreement on the use of the park district land for flood control. By constructing a flood control reservoir at Armstrong Park, money does not have to be spent on land acquisition. When looking at the land acquisition costs in the other alternatives, this is a potential cost savings of anywhere between $8 million to $9 million. Often, land acquisition costs can make a project impractical to construct.

Secondly, the Gary Avenue and Kehoe Boulevard intersection is scheduled for improvements. The intersection improvements discussed in the alternatives analysis will be coordinated with the DuPage County Division of Transportation. This coordination will save on engineering, permitting, and construction costs.

SECTION 9

References

Section 9

References

1. FEQ Base Model (Version 10.73) and supporting documentation for Klein Creek. Wheaton, IL.: DuPage County

2. Knudsen, James T. Memo to Joseph Breinig, Village of Carol Stream. 24 October 2008.

3. Linsley, Kraeger Associates, Ltd., Unsteady Flow Solutions: FEQ and FEQUTL Manual, 2005.

4. STS Consultants, Klein Creek Watershed Plan and Flood Control Project, 1993-2003.

5. STS Consultants, Klein Creek Watershed Plan, Phase III Flood Control Project Evaluation, 2003.

SECTION 10

Exhibits

Section 10

Exhibits

Exhibit 1: Klein Creek Watershed

Exhibit 2: Floodplain Limits for Klein Creek Watershed

Exhibit 3: Klein Creek Schematic – Existing North Portion

Exhibit 4: Klein Creek Schematic – Existing South Portion

Exhibit 5: Klein Creek Schematic – Alternative 6C

Exhibit 6: Watershed Subbasin Map

Exhibit 7: Plan View of Alternatives 1 and 2

Exhibit 8: Plan View of Alternatives 3, 4A and 4C

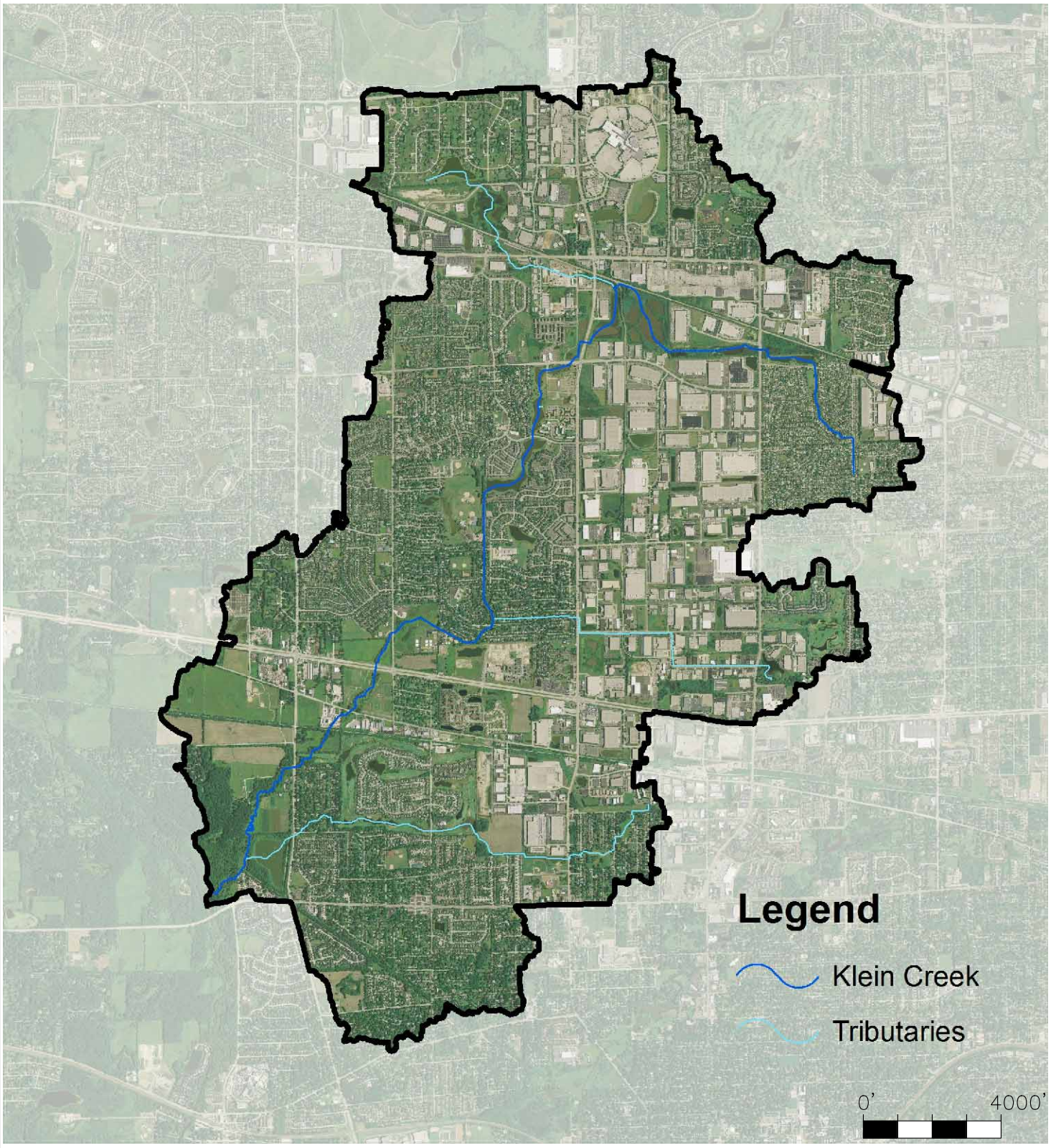
Exhibit 9: Plan View of Alternative 5

Exhibit 10: Plan View of Alternative 6A

Exhibit 11: Plan View of Alternative 6B

Exhibit 12: Plan View of Alternative 6C

Exhibit 13: Cross Section for Alternative 6



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		JOB# 09-0047			N
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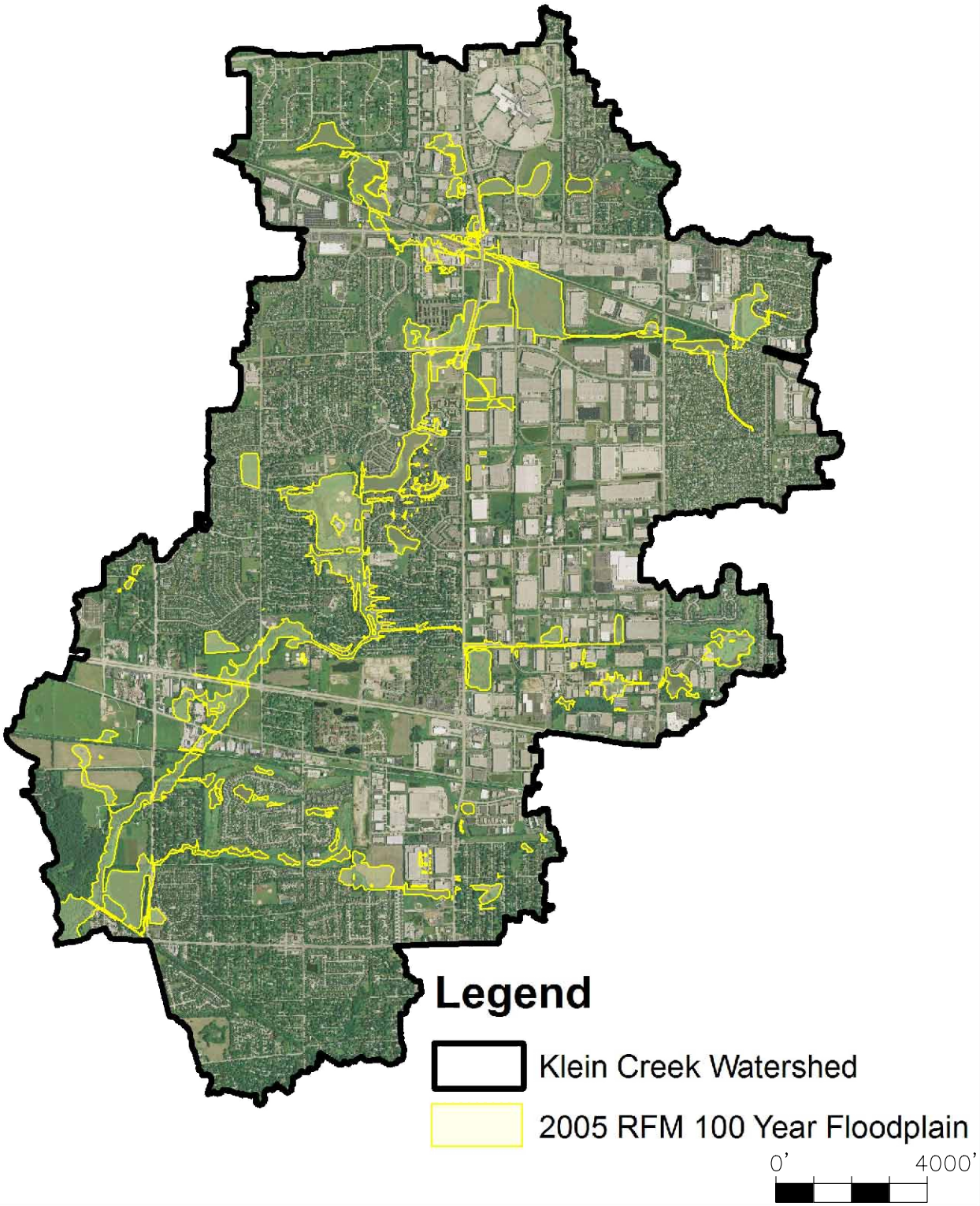

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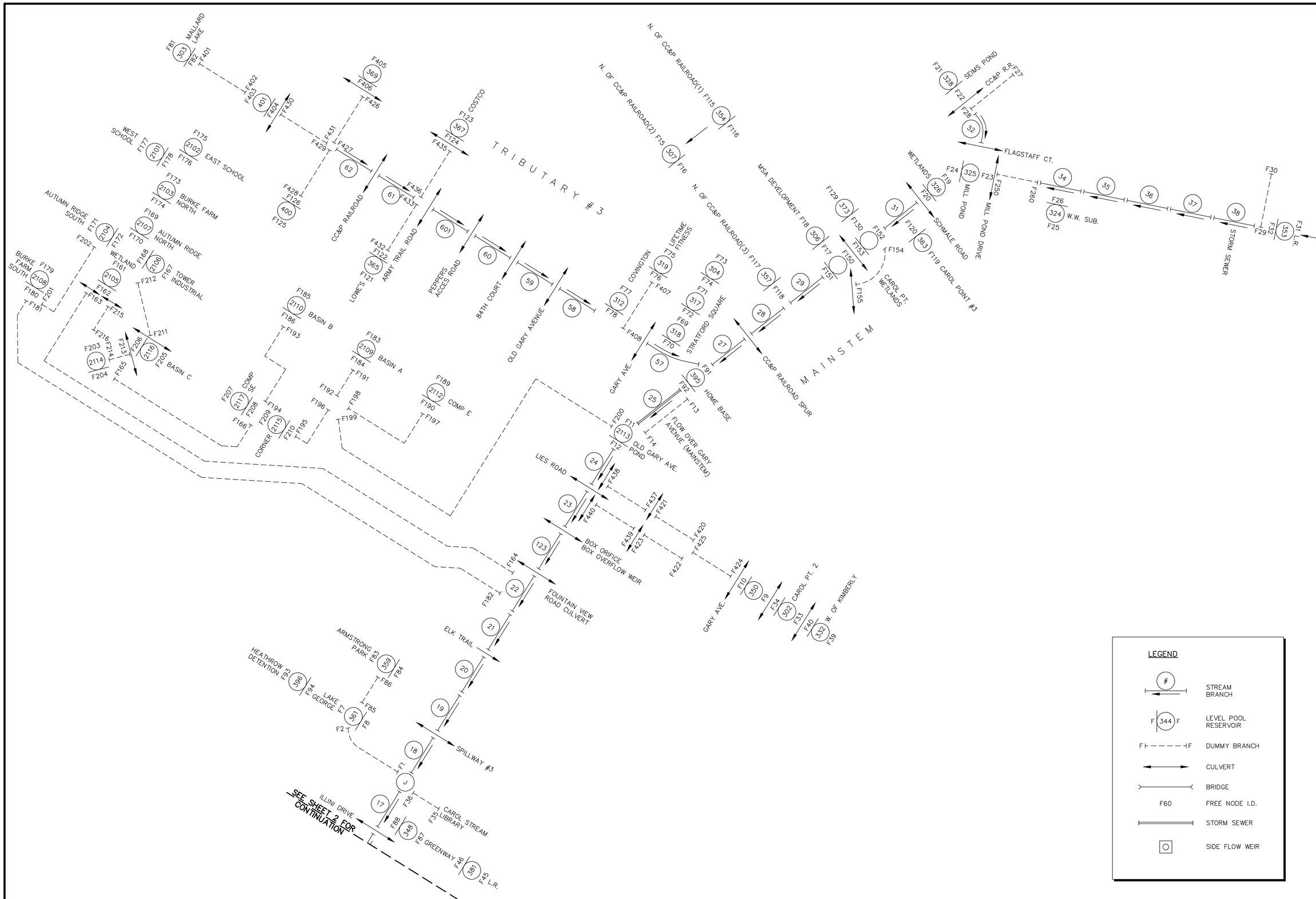

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(430) 407-6700

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DATE : 05/18/2010

SHEET 1 OF 2

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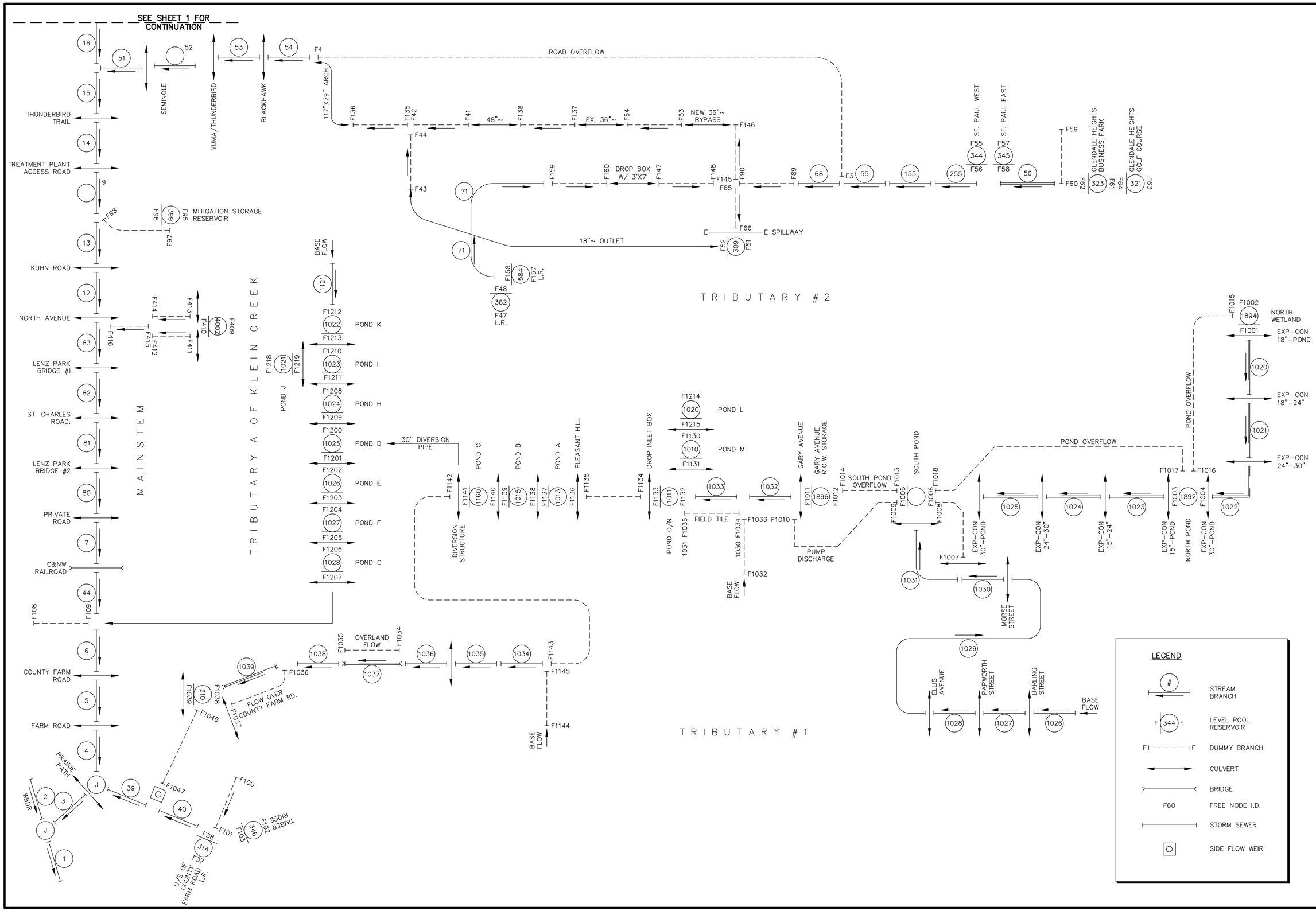

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SHEET 2 OF 2

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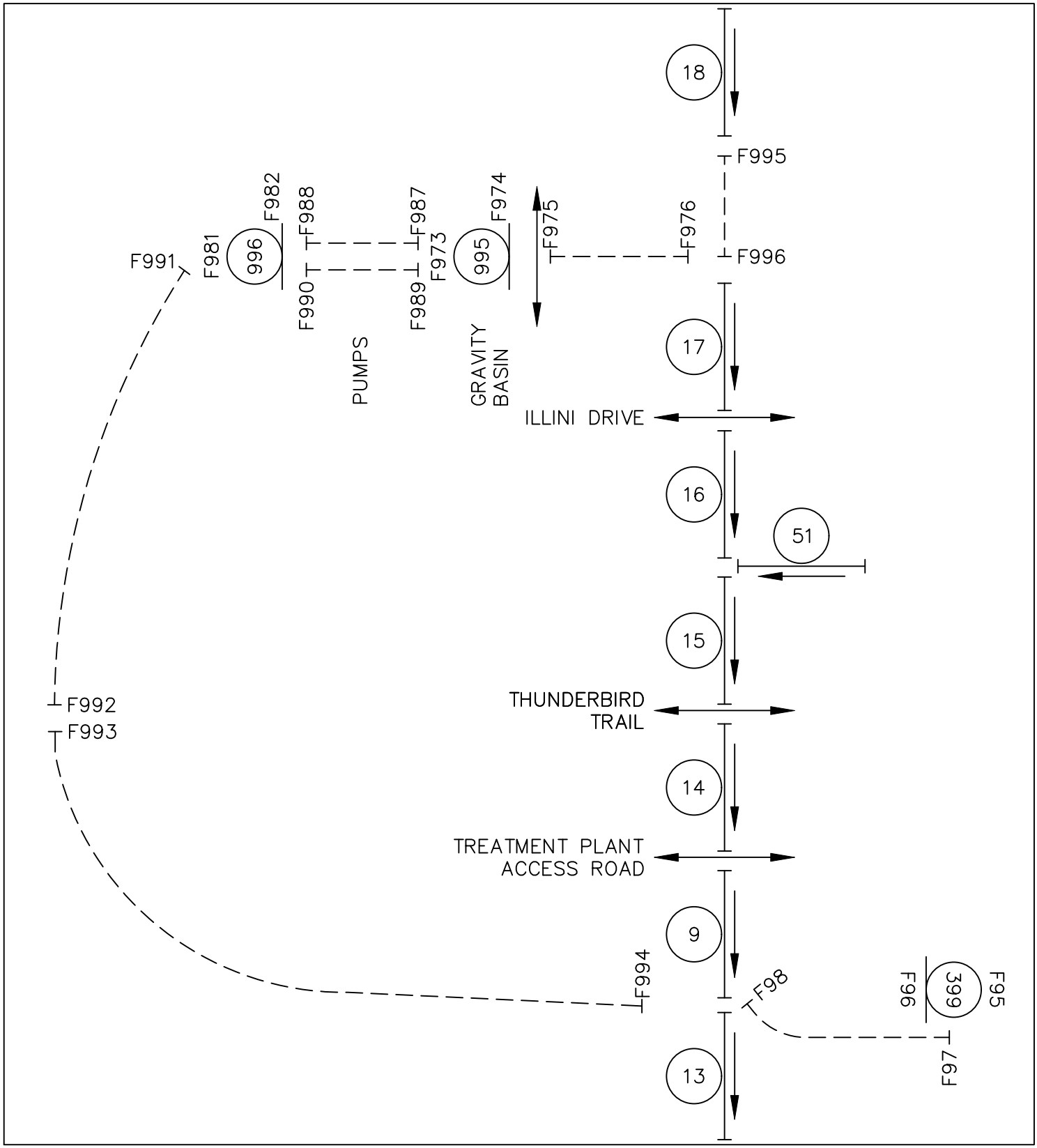

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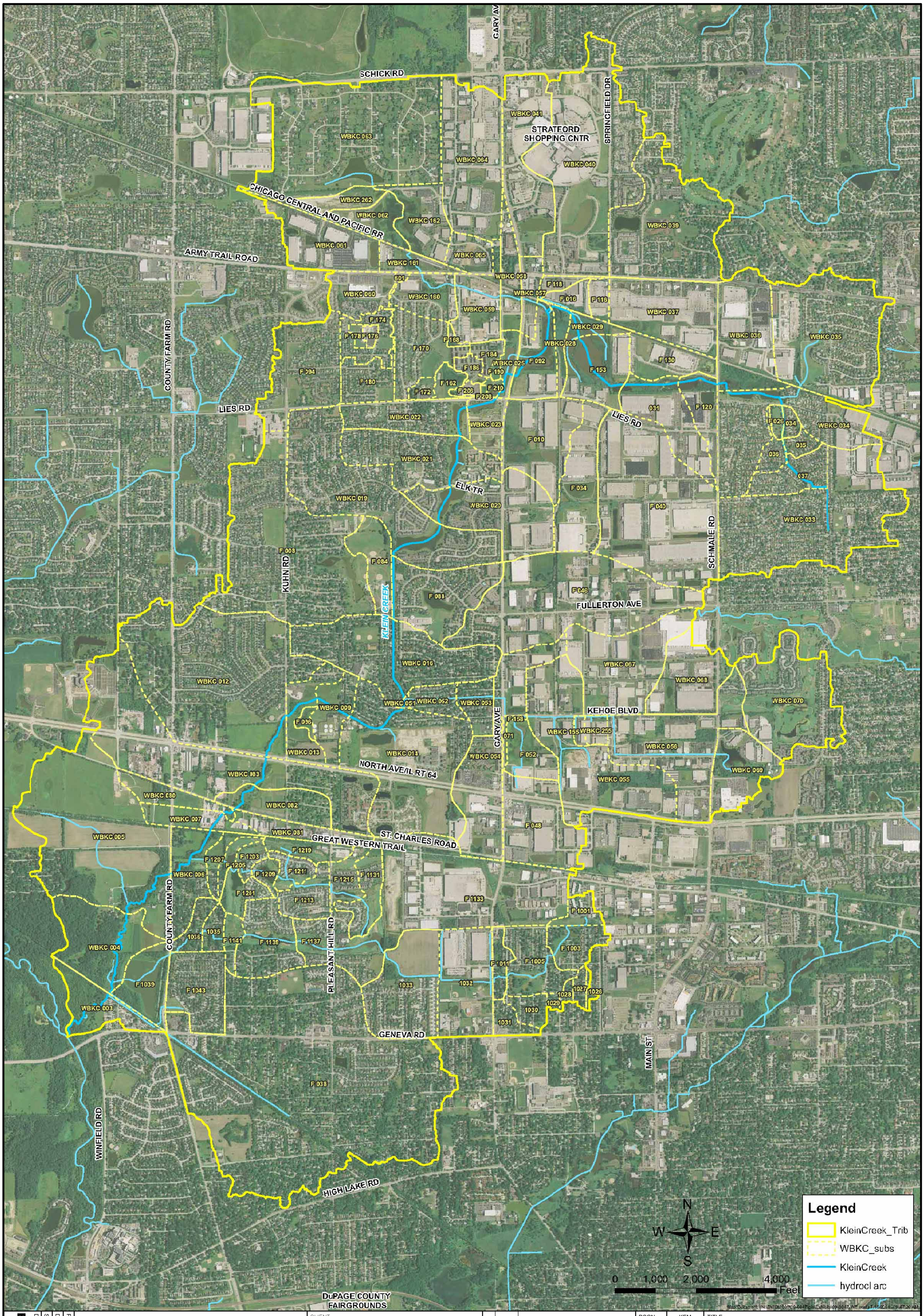

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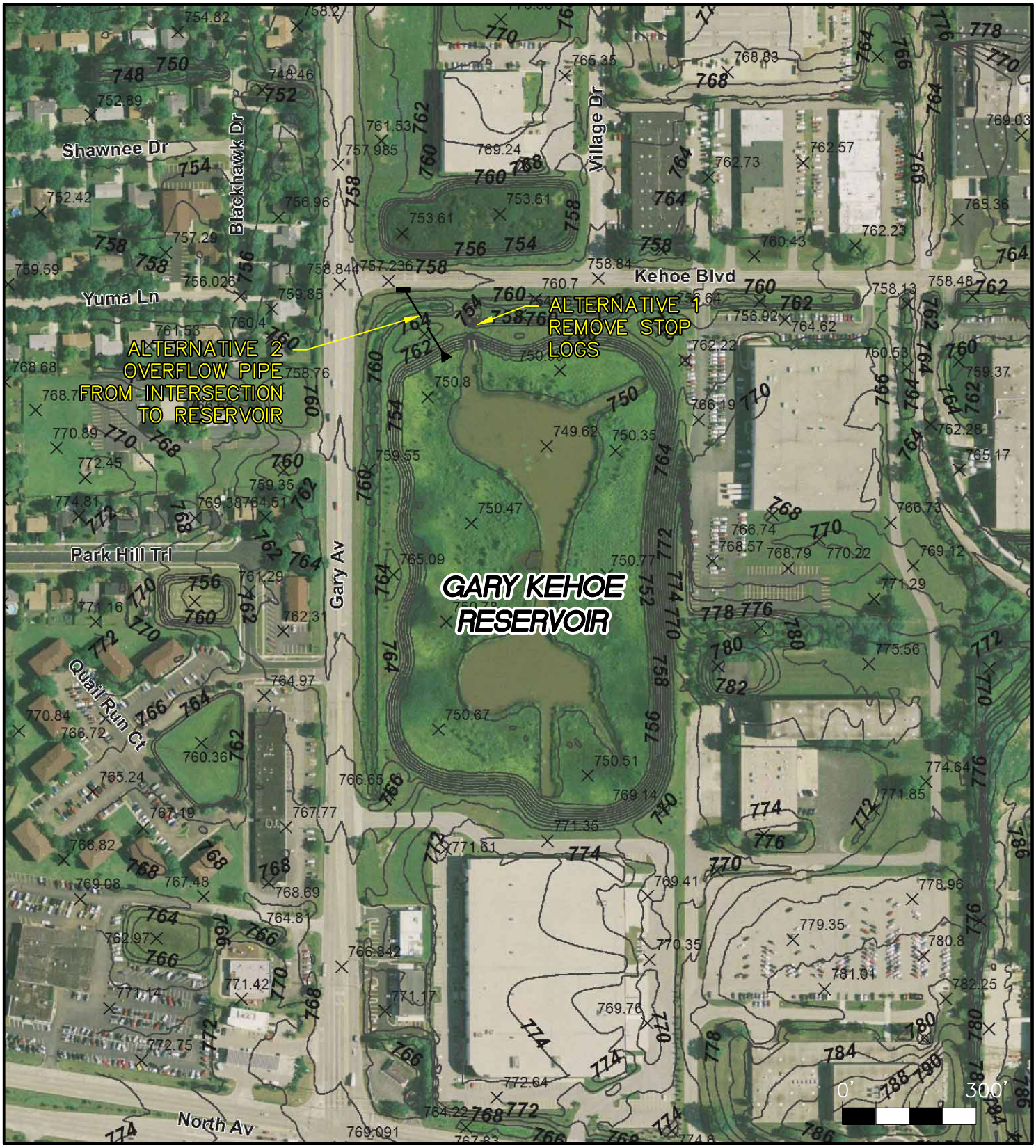

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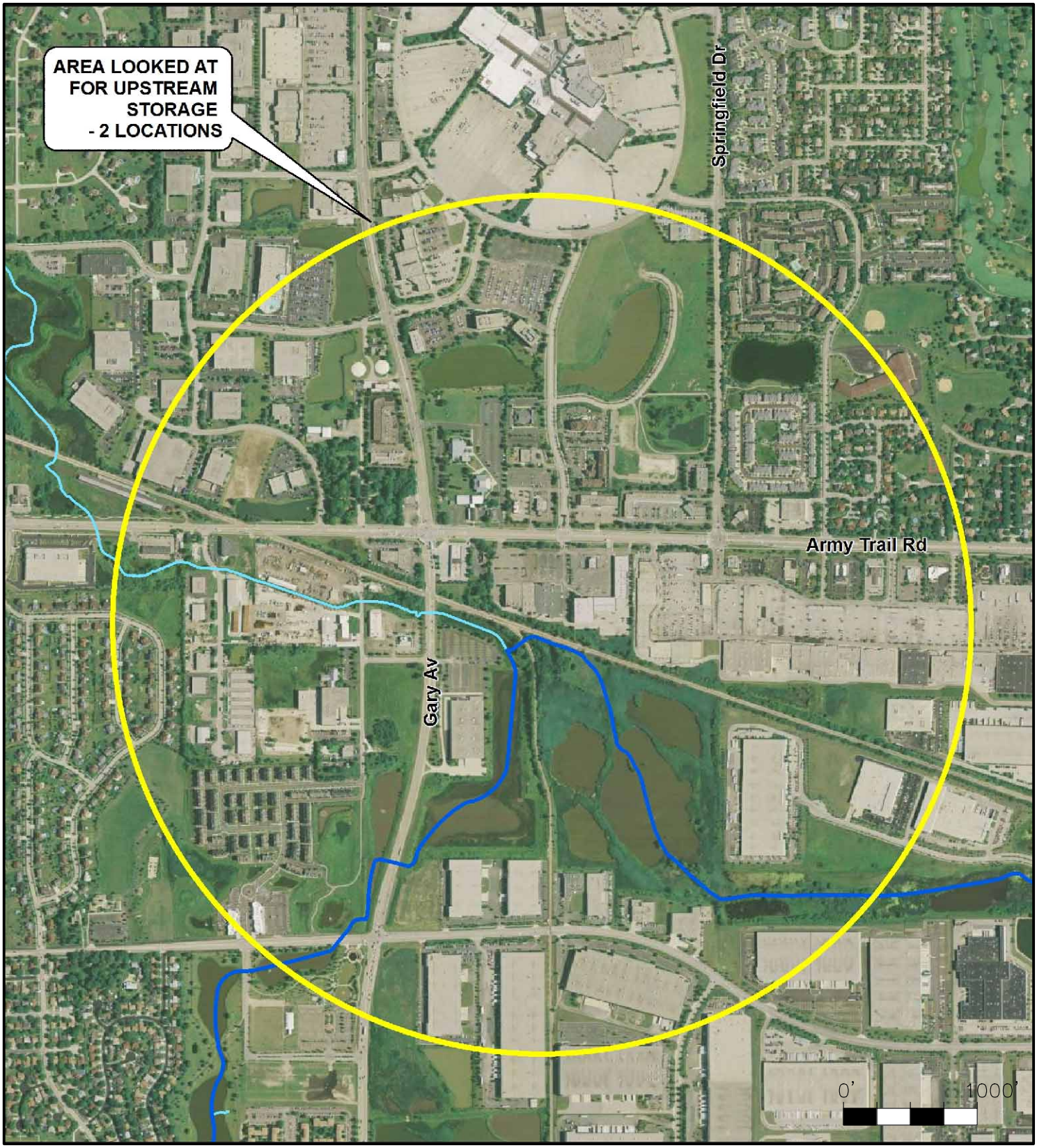

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		JOB# 09-0047		N
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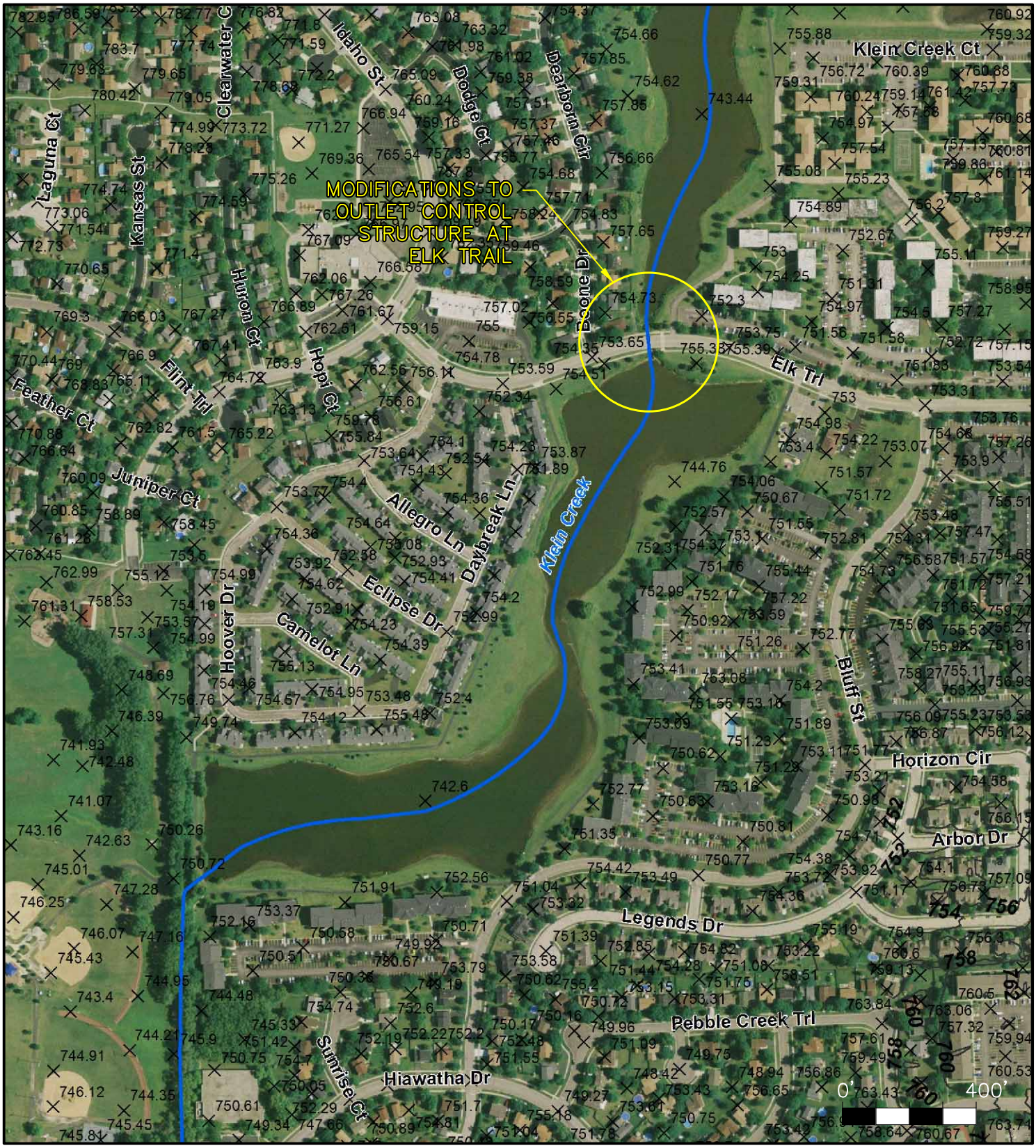

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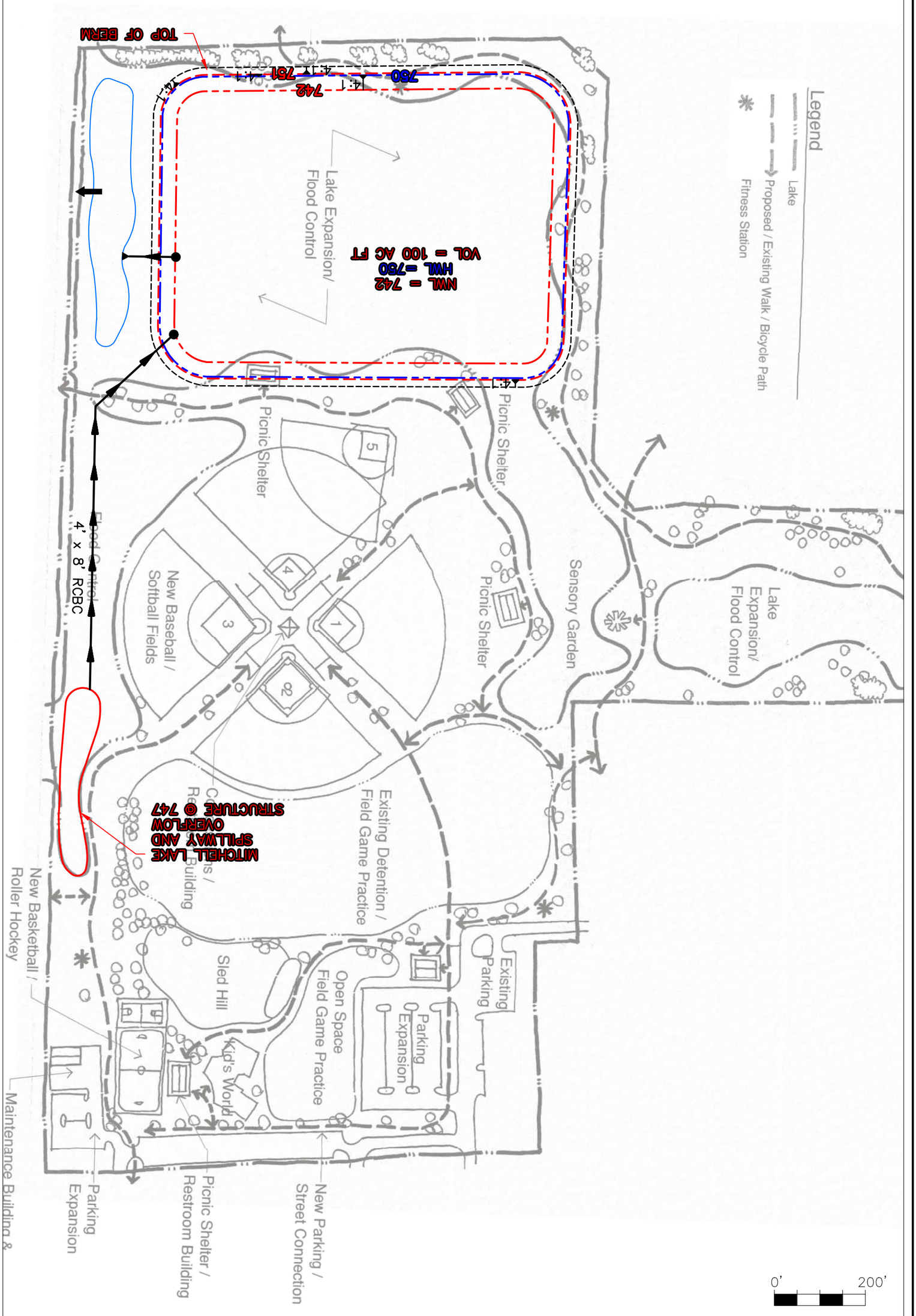

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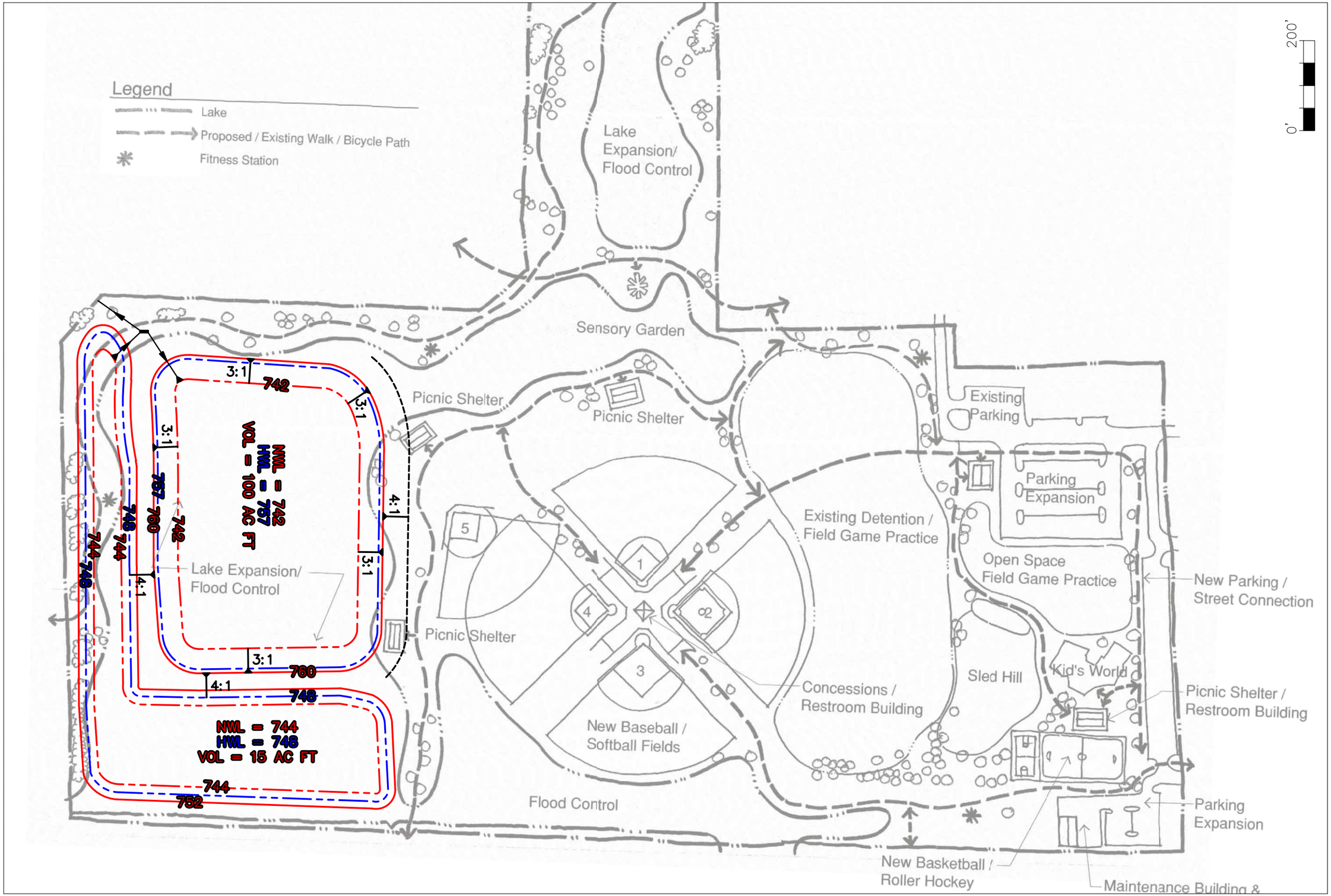

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EXHIBIT 11			

TITLE

KLEIN CREEK

ALTERNATIVE 6B

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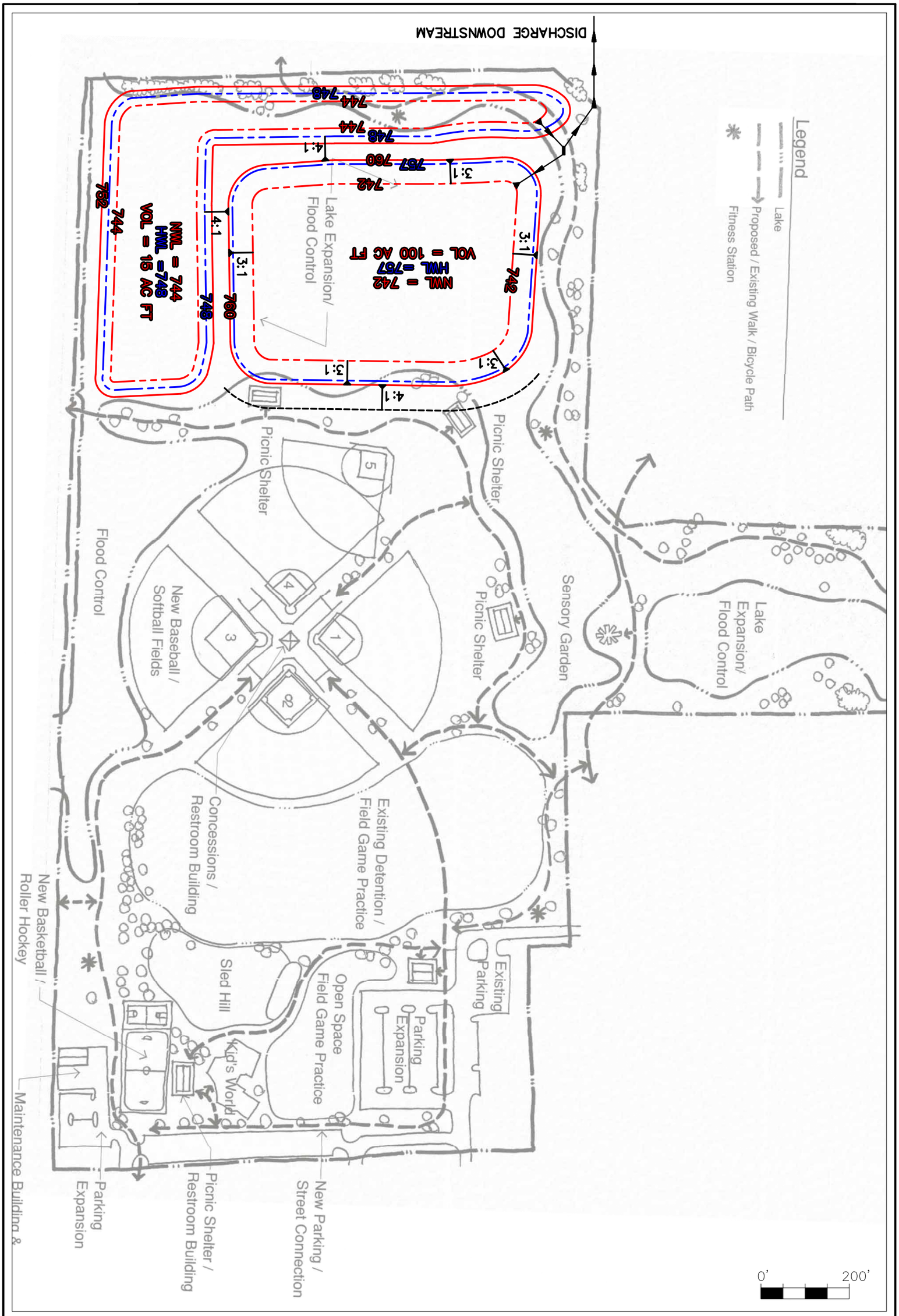

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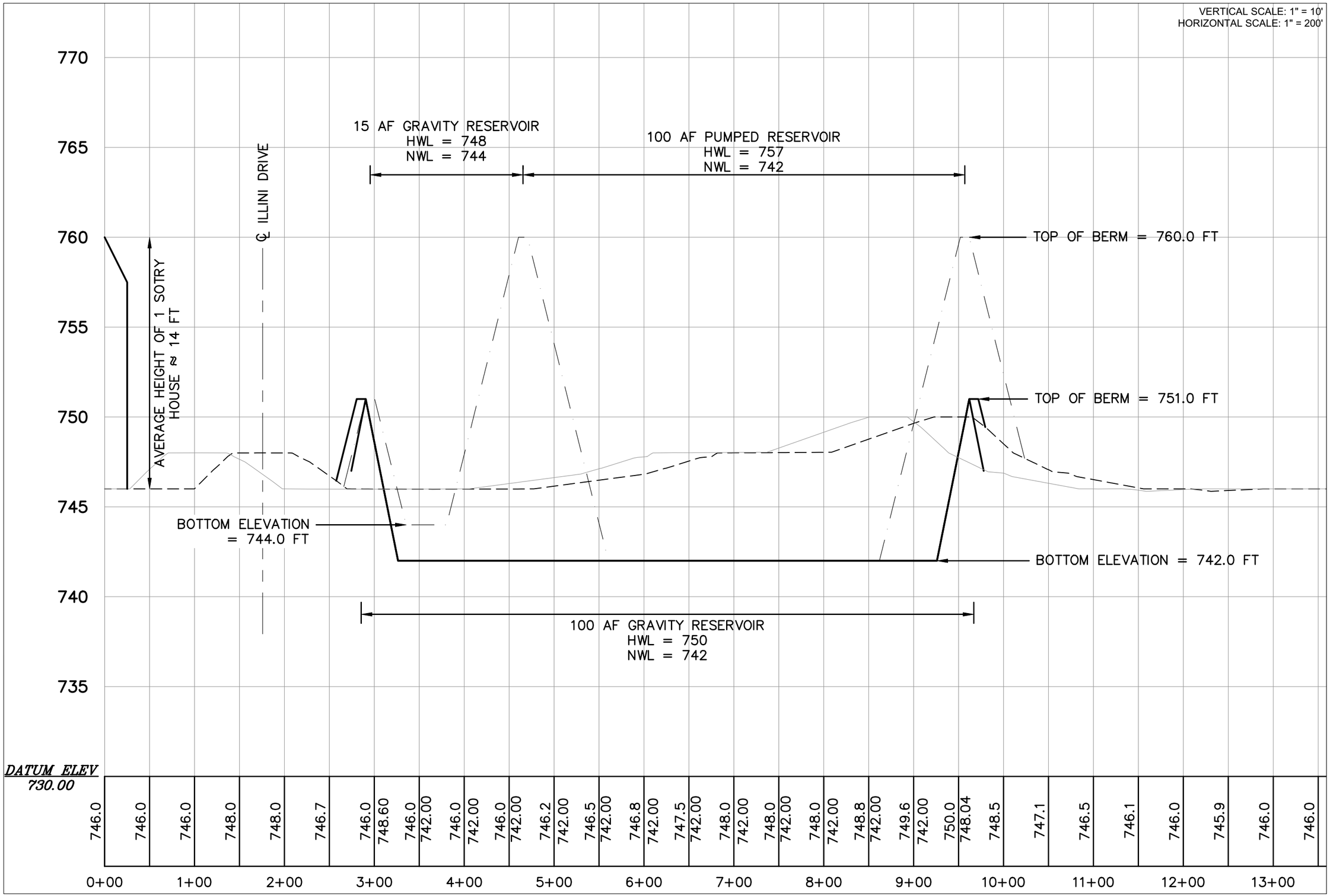

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TITLE

KLEIN CREEK

ALTERNATIVE 6 CROSS SECTION

CLIENT

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STORMWATER MANAGEMENT DIVISION
421 NORTH COUNTY FARM ROAD
WHEATON, ILLINOIS 60187

WBK

WILLS BURKE KELSEY ASSOCIATES LTD.
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SECTION 11

Appendices

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Appendices

Appendix 1: Baseline FEQ files

Appendix 2: Alternative C FEQ files

Appendix 3: September 2008 FEQ files

Appendix 4: Summary Table of Baseline vs. Alternative model results

Appendix 5: Village of Carol Stream Observed HWL from September 2008

Appendix 6: Village of Carol Stream Street Closures from September 2008

Appendix 7: Engineer Estimate of Probable Cost

Appendix 8: September 7, 2010 Presentation to Stormwater Committee

Appendix 9: CD with FEQ files

Appendix 1

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KLEIN CREEK,"PRO3CPW.DET"REFINE CAROL PT.WETLAND STORAGE MODEL(ADD BEAVER DAM)
PROPOSED CONDITION MODEL- P1 INC., GARY/KEHO RES. (PTSF'S OFF)
06/21/94(REV. 6/96 WJW,FUT DET IN 24,60,61,62,75&76).[SEE \TAB9\CPWETLND.TAB]
;Current Model = BCPALT1d.DET
;Revise pcpalt1d.det to take out project at Carol Point
;Existing landuse for 10.5 acres of S. Nardi Parcel
;4.0 acres of F52 goes to F48 w/ existing condition on S. Nardi Parcel
* RENAMED BCALT1D.DET TO [BLSTS.INP] FOR PROJECT ANALYSIS - CEMCON,LTD. 10/01
* STS FILE RUNNING UNDER FEQ V7.24
* MODIFIED BASELINE CONDITION [MODBL.INP] BY CEMCON,LTD. 10/15/01, REV. 3/02, 7/02
; CBBEL 8/1/2002 MY
;       Revised Spillway 1 culvert (Tab# 587)
;       Revised Overflow Tables 588 and 805 (Change to Tab# 1588)
;
;
; WBK/CBBEL Watershed Plan Update 2010
;
;       FOUNTAINS AT TOWN CENTER USED AS BASELINE FOR UPDATE
;       CGL 10/14/04 RSL
;       PROPOSED COND 1
;
;       FOUNTAIN ROAD AS-BUILT FROM 2009 INCORPORATED INTO MODEL
;
;       LENZ PARK FROM 2003 INCORPORATED INTO MODEL
;       BRANCHES 80-83 REPLACE 10 AND 8
;       PEDESTRIAN BRIDGES INCLUDED IN MODEL
;
;       FIRE STATION WORK FROM STS JULY 2002
;       NEW KUHN ROAD AND NORTH AVENUE CULVERTS
;
;       KEHOE ROAD CULVERTS ADDED TO MODEL
;
;       FUTURE DETENTION BASINS ON TRIB 3 ADDED IN PER AS-BUILT SURVEY 2010
;       SUBBASINS 60,61,62 SPLIT UP TO MODEL DETENTION BASINS EXPLICITLY
;       LOWES, COSTCO, ETC
;
;       MALLARD LAKE OUTLET RE-MODELED PER AS-BUILT SURVEY  2010
;
;       LIFETIME FITNESS PONDS MODELED EXPLICITLY PER AS-BUILT SURVEY 2010
;
;       STRATFORD SQUARE PONDS 1 AND 2 ADDED PER AS-BUILT PLANS
;
;       REMOVED BRANCH 25 GARY AVENUE CULVERTS AND REPLACED WITH 5-6 PER COUNTY PLANS
;
;       ADDED CAROL POINT #2 OUTLET AND FOUNTAINS STORM SEWER INFORMATION
;
;       TRIBUARY #1 ADDED TO THE MODEL FROM PREVIOUS STUDY
;
;       NEW RUN CONTROL BLOCK FOR VERSION 10.6 AND CURRENT COUNTY BLOCK
;
RUN CONTROL BLOCK
NBRA=00052
;NEX=00258
;NEX=00280
NEX=00292
SOPER=NO
POINT=NO
;DIFFUS=YES 1
DIFFUS=YES
WIND=NO
UNDERFLOW=NO
ZL=0.0
STIME=1925/01/01:0.0
;STIME=1954/ 9/10:0.0
;STIME=1954/ 2/25:0.0
;STIME=1967/ 3/ 1:0.0
;STIME=1969/ 8/11:0.0
```

```
;STIME=1982/ 7/ 7:0.0
;STIME=1982/12/ 2:0.0
;STIME=1993/ 1/31:0.0
;STIME=1998/ 7/ 5:0.0
;STIME=1999/ 4/28:0.0
;STIME=2001/ 7/24:0.0
;STIME=1987/01/01:0.0
;STIME=2008/ 8/13:0.0
;ETIME=1987/12/01:23.0
ETIME=2010/01/01:23.0
GRAV=32.2
NODEID=YES
SSEPS=0.25
PAGE=   20
EPSSYS=0.05
MKNT=   05
; ADDED NUMGT
NUMGT=    1
; OUTPUT=    0
PRTINT=99999
;DEBUGGIN OUTPUT ADDED
;DPTIME=2929 08 04  0.000
GEQOPT=STDX
EPSB=0.00005
; CHANGED MAX ITERATIONS TO 40 FROM 30
MAXIT=   40
SFAC=5280.0
;CHANGED QSMALL TO 10 FROM 20
QSMALL=    10.000
; QSMALL=  20.0
IFRZ=   10  1800.0  1350.0  1350.0   900.0   450.0   225.0   100.0    50.0    25.0    12.5
MAXDT=  3600.0  MINDT=     0.01  AUTO= 0.70  SITER=  2.5  HIGH= 3.20  LOW= 2.20  HFAC= 1.50  LFAC=
0.50
MRE=    0.10
FAC=    0.00
;IFRZ=00009
;   1350.   1200.   1000.    850.    700.    500.    350.    100.   900.
;1800.  0.1  0.7  5.5 6.85 4.15  2.5  0.5
;MRE=     0.750       0.0
DWT=0.1
BWT=0.67
;BWT=1.0
BWFDSN=   base2010.BWF
CHKGEO=NO
ISTYLE=NEW
EXTTOL= 1.0
SQREPS= 1.0E35
;EXTTOL= 0.0
;SQREPS= 1E30
;GETIC=
;PUTFC=
BRANCH DESCRIPTION TABLES
BNUM=    1
;B1 IS WEST BRANCH DUPAGE RIVER D/S OF CONFLUENCE
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 0101       U1   237     0.070    711.00    0    0    0    0
            D1   236     0.000    710.80    0    0    0    0
   -1
BNUM=    2
;B2 IS WEST BRANCH DUPAGE RIVER U/S OF CONFLUENCE
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 0201       U2   238     0.200    711.60    0    0    0    0
                  -
            D2   237     0.000    711.00    0    0    0    0
   -1
BNUM=    3
;B3 IS BETWEEN CONFLUENCE AND PRAIRIE PATH
```

```
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 0301       U3   103     0.383    715.08    0    0    0    0
                102     0.361    714.50    0    0    0    0
                  -
                105     0.242    713.32    0    0    0    0
                  -
                  -
                706     0.011    711.15    0    0    0    0
            D3  706     0.000    711.00    0    0    0    0
   -1
;****************************************************
;TRIBUTARY 1 BRANCHES FROM CBBEL MODEL DATED 6/19/91
;****************************************************
;BRANCHES COMMENTED OUT THAT CORRESPOND TO MAINSTEM BRANCHES
;BNUM=    1
;B1 BETWEEN BEAVER DAM & NORTH AVENUE
; NODE NAME      XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
; 0101 NORTH       75     2.083    735.51    0    0    0    0
;                   -
;                   -
;                   -
;                   -
;                   -
;                  78     2.070    734.05    0    0    0    0
;                   -
;                   -
;                   -
;                   -
;                   -
;                  79     2.004    734.10    0    0    0    0
;                   -
;                   -
;                   -
;                   -
;                   -
;      LINK        80     1.918    734.53    0    0    0    0
;   -1
;BNUM=    2
;B2 BETWEEN BEAVER DAM & ST CHARLES ROAD
; NODE NAME      XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
; 0201 LINK        80     1.918    734.53    0    0    0    0
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;      STCHAS      82     1.792    733.45    0    0    0    0
;   -1
;BNUM=    3
;B3 BETWEEN METAL WORKS RD & ST CHARLES ROAD
; NODE NAME      XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
;  301 STCHAS      81     1.772    733.15    0    0    0    0
;                   -
;                   -
;                   -
;                   -
;                   -
;      LINK        85     1.714    732.68    0    0    0    0
;   -1
;BNUM=    4
;B4 BETWEEN BEAVER DAM & METAL WORKS RD
; NODE NAME      XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
;  401 LINK        84     1.705    732.33    0    0    0    0
;                   -
;                   -
;                   -
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;                   -
;                   -
;      METRD       88     1.629    731.33
;   -1
;BNUM=    5 INERTIA= 0.0
;B5 BETWEEN C&NW RR & BEAVER DAM
; NODE NAME      XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
;  501 METRD       88     1.629    731.33
;                   -
;                   -
;                   -
;                   -
;                   -
;      CNWRR      687     1.615    730.60    0    0    0    0
;   -1
;BNUM=    6
;B6 BETWEEN KLEIN CREEK TRIBUTARY A AND C&NW RR
; NODE NAME      XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
; 0601 CNWRR      687     1.612    730.60    0    0    0    0
;                   -
;                   -
;                   -
;                   -
;                   -
;                 87     1.590    729.94    0    0    0    0
;                   -
;                  -
;                   -
;                   -
;                   -
;                   -
;      KLEIN-A    692     1.427    728.20    0    0    0    0
;   -1
;BNUM=    7
;B6 BETWEEN COUNTY FARM ROAD AND KLEIN CREEK TRIBUTARY A
; NODE NAME      XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
; 0701 KLEIN-A    692     1.427    728.20    0    0    0    0
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                 692     1.407    727.97    0    0    0    0
;                   -
;                   -
;                   -
;                   -
;                   -
;                  94     1.325    726.58    0    0    0    0
;                   -
;                   -
;                   -
;                   -
;                   -
;      CNTYFRM     94     1.313    725.57    0    0    0    0
;   -1
;BNUM=    8 INERTIA= 0.0
;B8 BETWEEN FARM ROAD AND COUNTY FARM ROAD
; NODE NAME      XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
; 0801 CNTYFRM     93     1.298    724.32    0    0    0    0
;                   -
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;                   -
;                   -
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;                    -
;                    -
;                    -
;                    -
;                   96     1.256    726.88    0    0    0    0
;                    -
;                    -
;                    -
;                    -
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;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                   97     1.000    722.74    0    0    0    0
;                    -
;                    -
;                    -
;                    -
;                    -
;                   99     0.956    722.54    0    0    0    0
;                    -
;                    -
;                    -
;                    -
;                    -
;      FRMRD        98     0.918    721.79    0    0    0    0
;   -1
;BNUM=    9
;B9 BETWEEN PRAIRIE PATH AND FARM ROAD
; NODE NAME      XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
; 0901 FRMRD       98     0.918    721.79    0    0    0    0
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                   101     0.620    717.81    0    0    0    0
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;      P-PATH     103     0.383    715.08    0    0    0    0
;   -1
;BNUM=   10 INERTIA=0.01                           ADDNOD=    0
;B10 IS BETWEEN CONFLUENCE AND PRAIRIE PATH
; NODE NAME      XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
; 1001 P-PATH     103     0.383    715.08    0    0    0    0
;                    -
;                    -
;                    -
;                    -
;                    -
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;                   -
;                 102     0.361    714.50    0    0    0    0
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                 105     0.242    713.32    0    0    0    0
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                 706     0.011    711.15    0    0    0    0
;
;
;
;
;
;
;
;
;
;      CONFL      706     0.000    711.00    0    0    0    0
;   -1
;BNUM=   11
;B11 & B12 ARE MAIN STEM WEST BRANCH OF THE DUPAGE RIVER
; NODE NAME      XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
; 1101 WBSTRT     238     0.200    711.60    0    0    0    0                          FEMA
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;      CONFL      237     0.000    711.00    0    0    0    0
;   -1
;BNUM=   12
; NODE NAME      XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
; 1201 CONFL      237     0.070    711.00    0    0    0    0                          FEMA
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
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;                   -
;                   -
;                   -
;                   -
;                   -
;      WBEND      236     0.000    710.80    0    0    0    0
;   -1
;BNUM=  120 INERTIA= 0.1
; NODE NAME      XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
; 1200 TA-PND_G  1301    0.001    678.20    0    0    0    0                          FEMA
;
;
;
;
;
;
;
;
;
;
;
;      TA-CONFL  1301     0.000    678.20    0    0    0    0
;   -1
BNUM=  1121
 NODE  NODEID_  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 1210 TA-DITCH  1301     0.114    715.00    0    0    0    0                          FEMA
```

```
      TA-PND_K  1301     0.000    706.00    0    0    0    0
   -1
BNUM=   1020 INERTIA= 0.01
 NODE  NODEID   XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC
 2001  18-PND   2018   0.09564    769.66    0    0    0    0
```

```
       18-24U   2018   0.09091    769.58    0    0    0    0
   -1
BNUM=   1021 INERTIA= 0.01
 NODE  NODEID   XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC
 2101  18-24D   2024   0.09091    769.58    0    0    0    0


       24-30U   2024   0.08428    769.51    0    0    0    0
   -1
BNUM=   1022 INERTIA= 0.01
 NODE  NODEID   XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC
 2201  24-30D   2030   0.08428    769.51    0    0    0    0


                2030   0.00568    769.01    0    0    0    0


       30-PND   2030   0.00000    768.98    0    0    0    0
   -1
BNUM=   1023 INERTIA= 0.01
 NODE  NODEID   XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC
 2301  PND-15   9015   0.29233    768.98    0    0    0    0


                9015   0.28381    768.93    0    0    0    0
```

```
                9015   0.25540    768.78    0    0    0    0
```

```
       15-24U   9015   0.20426    768.51    0    0    0    0
   -1
BNUM=   1024 INERTIA= 0.01
 NODE  NODEID   XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC
 2401  15-24D   2024   0.20426    768.51    0    0    0    0
```

```
       24-30U   2024   0.12528    768.14    0    0    0    0
   -1
BNUM=   1025 INERTIA= 0.01
 NODE  NODEID_  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC
 2501  24-30D   2030   0.12528    768.14    0    0    0    0
```

```
                2030   0.06420    767.73    0    0    0    0
```

```
                2030   0.05350    767.76    0    0    0    0
```

```
                2030   0.01468    767.21    0    0    0    0
```

```
       30-GAGP  2030   0.00000    765.68    0    0    0    0
   -1
BNUM=   1026
 NODE  NODEID_  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC
 2601  DARLUS   1800   0.54924    770.20    0    0    0    0
                   -
                   -
                   -
                   -
                   -
                   -
                1802   0.52424    770.10    0    0    0    0
                   -
                   -
                   -
                   -
                   -
       DARLAPP  1804   0.49394    770.16    0    0    0    0
   -1
BNUM=   1027
 NODE  NODEID_  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC
 2701  DARLDEP  1806   0.48504    770.00    0    0    0    0
                   -
                   -
                   -
                   -
                1808   0.47197    769.95
                   -
                   -
                   -
                   -
                   -
       PAPAPP   1810   0.43258    769.70    0    0    0    0
   -1
BNUM=   1028
 NODE  NODEID_  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC
 2801  PAPDEP   1812   0.42348    769.70    0    0    0    0
                   -
                   -
                   -
                   -
                   -
                1814   0.39186    769.34    0    0    0    0
                   -
                   -
                   -
                   -
       ELISAPP  1816   0.37102    769.14    0    0    0    0
   -1
BNUM=   1029
 NODE  NODEID_ XNUM_   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC
 2901  ELISDEP  1818   0.36193    769.10    0    0    0    0
                   -
                   -
                   -
                   -
                   -
       MORSAPP  1820   0.30909    769.10    0    0    0    0
   -1
```

```
BNUM=   1030
 NODE  NODEID_ XNUM_   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC
 3001  MORSDEP  1822   0.29924    769.00    0    0    0    0
                   -
                   -
                   -
                   -
                1824   0.28144    768.70    0    0    0    0
                   -
                   -
                   -
                   -
                   -
       FRW/OVF  1826   0.24810    767.95    0    0    0    0
   -1
BNUM=   1031 INERTIA=0.01                           ADDNOD=   -5
 NODE  NODEID_  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC
 3101  FRW/OVF  1826   0.24810    767.95    0    0    0    0
                   -
                   -
                   -
                   -
                1828   0.20833    767.40    0    0    0    0
                   -
                   -
                   -
                   -
                1830   0.18371    766.85    0    0    0    0




       30INAPP  1830   0.17045    766.40    0    0    0    0
   -1
BNUM=   1032 INERTIA=0.01                           ADDNOD=   -5
 NODE NAME__     XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 3201 T1-GAR     4117     0.554    762.75    0    0    0    0
                   -
                   -
                   -
                   -
                   -
                   -
                   -
                4116     0.535    762.75    0    0    0    0
                   -
                   -
                   -
                   -
                   -
                   -
                   -
                4115     0.495    762.75    0    0    0    0
                   -
                   -
                   -
                   -
                   -
                   -
                   -
                4114     0.465    762.75    0    0    0    0
                   -
                   -
                   -
                   -
                   -
```

```
                    -
                    -
                 4113     0.437    762.75    0    0    0    0
                    -
                    -
                    -
                    -
                    -
                    -
                    -
                 4112     0.414    762.75    0    0    0    0
                    -
                    -
                    -
                    -
                    -
                    -
                    -
                 4111     0.341    762.75    0    0    0    0
                    -
                    -
                    -
                    -
                    -
                    -
                    -
      T1-SEW     4110     0.323    762.75    0    0    0    0
   -1
BNUM=   1033 INERTIA= 0.30                          ADDNOD=   -5
 NODE NAME__     XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 3301 T1-LNK     4109     0.323    762.75    0    0    0    0
                    -
                    -
                    -
                    -
                    -
                    -
                    -
                 4108     0.322    762.70    0    0    0    0
                    -
                    -
                    -
                    -
                    -
                    -
                    -
                 4107     0.284    762.40    0    0    0    0
                    -
                    -
                    -
                    -
                    -
                    -
                    -
                 4106     0.246    761.93    0    0    0    0
                    -
                    -
                    -
                    -
                    -
                    -
                    -
                 4105     0.208    761.46    0    0    0    0
                    -
                    -
                    -
                    -
```

```
                  -
                  -
                  -
                4104     0.170    761.00    0    0    0    0
                  -
                  -
                  -
                  -
                  -
                  -
                  -
                4103     0.114    760.30    0    0    0    0
                  -
                  -
                  -
                  -
                  -
                  -
                  -
                4102     0.076    759.83    0    0    0    0
                  -
                  -
                  -
                  -
                  -
                  -
                  -
                4101     0.038    759.37    0    0    0    0
                  -
                  -
                  -
                  -
                  -
                  -
                  -
                  -
                  -
                  -
                  -
                  -
      T1-LNK    4100     0.000    758.00    0    0    0    0
   -1
BNUM=   1034 INERTIA= 1.0
 NODE NAME____  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 3401 T1-PND_C  1301     0.010    695.80    0    0    0    0



      T1-REJN   1301     0.000    695.80    0    0    0    0
   -1
;BNUM=   1035 INERTIA= 0.1
BNUM=   1035
```

```
 NODE NODEID__  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 3501 T1-REJN    117     0.650    745.80    0    0    0    0
                 117     0.585    742.12    0    0    0    0
                   -
                   -
                   -
                   -
                   -
                   -
      T1-CENT    119     0.557    740.90    0    0    0    0
   -1
BNUM=   1036 INERTIA= 0.1
 NODE NODEID__  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 3601 T1-CENT    118     0.544    738.62    0    0    0    0
                   -
                   -
                   -
                   -
                   -
                   -
                 121     0.492    739.20    0    0    0    0
                   -
                   -
                   -
                   -
                   -
                   -
                 122     0.458    738.18    0    0    0    0
                   -
                   -
                   -
                   -
                   -
                   -
                   -
      T1-USCV    123     0.395    735.87    0    0    0    0
   -1
BNUM=   1037 INERTIA= 0.1  CFRATE= 200.
 NODE NAME___   XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 3701 T1-USCV    293     0.395    735.87    0    0    0    0
                                                                  740.9
```

```
      T1-DSCV    293     0.370    734.20    0    0    0    0     739.2
   -1
BNUM=   1038
 NODE NAME___    XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 3801 T1-DSCV    125     0.377    731.81    0    0    0    0                     DUMMY STA
```

```
      T1-CYFM    125     0.367    731.81    0    0    0    0
   -1
BNUM=   1039 INERTIA= 0.1  CFRATE= 200.
 NODE NAME___    XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 3901 T1-CYFM    292     0.367    731.81    0    0    0    0
                                                                  742.1
```

T1-TIMB	292	0.301	721.20	0	0	0	0	731.5

```
   -1
;BNUM=   40
; NODE NAME      XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
; 4001 PP-USBD    782     0.286    720.92    0    0    0    0
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;      PP-TMDV    781     0.119    718.33    0    0    0    0
;   -1
;BNUM=   41
; NODE NAME      XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
; 4101 PP-CONF    781     0.119    718.33    0    0    0    0
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;      PP-TMDV    207     0.000    715.52    0    0    0    0
;****************************
;END OF TRIBUTARY 1 BRANCHES
;****************************
BNUM=    4
;B4 IS BETWEEN PRAIRIE PATH AND FARM ROAD
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 0401       U4    98     0.918    721.79    0    0    0    0
                   -
                   -
                  101     0.620    717.81    0    0    0    0
                   -
                   -
            D4   103     0.383    715.08    0    0    0    0
   -1
BNUM=    5 INERTIA=0.01                            ADDNOD=  -0
;BNUM=    5 INERTIA=0.01
;B5 IS BETWEEN FARM ROAD AND COUNTY FARM ROAD
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 0501       U5    93     1.298    725.92    0    0    0    0
                  96     1.256    725.71    0    0    0    0
                   -
                   -
                   -
                   -
                   -
                   -
                   -
                   -
```

```
                 97     1.000    722.74    0    0    0    0
                 99     0.956    722.54    0    0    0    0
           D5    98     0.918    721.79    0    0    0    0
   -1
BNUM=    6
;B6 IS BETWEEN COUNTY FARM ROAD & C&NW RR
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 0601       U6   692     1.427    728.20    0    0    0    0
                  -
                  -
                 692     1.407    727.97    0    0    0    0
                  -
                  94     1.325    726.58    0    0    0    0
           D6    94     1.313    726.30    0    0    0    0
   -1
BNUM=    7 INERTIA=0.01
;B7 IS BETWEEN C&NW RR & PRIVATE RD
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
  701       U7    84     1.705    732.33    0    0    0    0
                 88     1.629    731.33    0    0    0    0
           D7   687     1.615    730.60    0    0    0    0
   -1
;
;REMOVE BRANCH 8 FOR LENZ PARK MODELING
;
;BNUM=    8
;B8 IS BETWEEN PRIVATE RD AND ST.CHARLES RD
; NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
;  801       U8    81     1.772    733.15    0    0    0    0
;            D8    85     1.714    732.68    0    0    0    0
;   -1
BNUM=    9
;B9 IS BETWEEN U13 AND WWTP BRIDGE
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
  901       U9    65     2.651    738.30    0    0    0    0
                  -
                2071     2.611    738.24    0    0    0    0
                  -
                  -
                  71     2.554    738.15    0    0    0    0
                  -
           D9  5068     2.472    738.03    0    0    0    0
   -1
;
;REMOVE BRANCH 10 FOR LENZ PARK MODELING
;
;BNUM=   10
;B10 IS BETWEEN ST CHARLES RD & NORTH AVE
; NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
; 1001      U10    75     2.083    735.51    0    0    0    0
;                  78     2.070    734.05    0    0    0    0
;                  79     2.004    734.10    0    0    0    0
;                  80     1.918    734.53    0    0    0    0
;                   -
;           D10    82     1.792    733.45    0    0    0    0
;   -1
BNUM=   12 INERTIA=0.01
;B12 IS BETWEEN NORTH AVE AND KUHN RD
; REMOVED SEC 676 AND REVISED SEC 74 (5074) AND 69 (5069)  CEMCON 10/01
; REVISED ELEVATION AT U12 3/02
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 1201      U12  5169     2.310    737.00    0    0    0    0
                  -
                  72     2.280    736.39    0    0    0    0
                  73     2.212    736.58    0    0    0    0
                   -
                   -
```

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          D12  5074     2.119    735.20    0    0    0    0
   -1
BNUM=   13 INERTIA=0.01
;B13 IS BETWEEN KUHN RD & BRANCH 9
; REV. ALL SECTIONS ON BRANCH 13  CEMCON 10/01
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 1301      U13  5068     2.472    738.03    0    0    0    0
               5003     2.437    737.78    0    0    0    0
               5002     2.414    737.61    0    0    0    0
               5001     2.399    737.51    0    0    0    0
               5000     2.350    737.16    0    0    0    0
          D13  5070     2.328    737.00    0    0    0    0
   -1
BNUM=   14 INERTIA=0.01
;B14 IS BETWEEN WWTP ACCESS & THUNDERBIRD TRL
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 1401      U14  2060     2.959    739.00    0    0    0    0
                  -
               2063     2.855    738.86    0    0    0    0
                  -
               2064     2.755    738.73    0    0    0    0
                  -
          D14    66     2.660    738.40    0    0    0    0
   -1
BNUM=   15
;B15 IS BETWEEN T-BIRD TRL & CONFL W/ TRIB.2
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 1501      U15  2061     3.004    739.15    0    0    0    0
          D15  2061     2.978    739.09    0    0    0    0
   -1
BNUM=   16 INERTIA=0.01
;B16 IS BETWEEN TRIB.2 & ILLINI DR
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 1601      U16  2055     3.390    738.90    0    0    0    0
                  -
               2158     3.288    739.00    0    0    0    0
                  -
               2058     3.231    739.06    0    0    0    0
                  -
               2059     3.125    739.20    0    0    0    0
                  -
          D16  2061     3.004    739.15    0    0    0    0
   -1
BNUM=   17
;B17 IS BETWEEN ILLINI & INFLOW FROM LAKE GEORGE
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 1701      U17  2652     3.577    740.29    0    0    0    0
               2654     3.503    739.99    0    0    0    0
                  -
          D17  2656     3.407    739.00    0    0    0    0
   -1
BNUM=   18
;B18 IS BETWEEN LAKE GEORGE INFLOW & MITCHELL LAKE #1
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 1801      U18   645     3.718    741.90    0    0    0    0
                648     3.702    740.99    0    0    0    0
                649     3.682    740.96    0    0    0    0
                  -
                650     3.649    740.52    0    0    0    0
                  -
                  -
                  -
          D18  2652     3.577    740.29    0    0    0    0
   -1
BNUM=   19
;B19 IS MITCHELL LAKE #1
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
```

```
 1901      U19   468     4.013    738.94    0    0    0    0
                 469     3.849    728.14    0    0    0    0
                   -
                   -
                 470     3.785    726.54    0    0    0    0
                   -
           D19   471     3.731    729.94    0    0    0    0
   -1
BNUM=   20
;B20 IS MITCHELL LAKE #2
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 2001      U20   464     4.180    741.20    0    0    0    0
                   -
                 465     4.145    735.04    0    0    0    0
                   -
                 466     4.076    734.64    0    0    0    0
                   -
                1467     4.028    739.34    0    0    0    0
           D20   468     4.013    738.94    0    0    0    0
   -1
BNUM=   21
;B21 IS MITCHELL LAKE #3
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 2101      U21  1459     4.424    740.54    0    0    0    0
                 460     4.353    736.54    0    0    0    0
                 461     4.273    736.54    0    0    0    0
                 462     4.242    737.32    0    0    0    0
           D21  1463     4.219    739.72    0    0    0    0
   -1
BNUM=   22
;B22 IS MITCHELL LAKE #4
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 2201      U22   454     4.587    741.92    0    0    0    0
                 455     4.565    737.70    0    0    0    0
                 456     4.543    737.94    0    0    0    0
                 457     4.522    737.04    0    0    0    0
                1458     4.477    737.38    0    0    0    0
                   -
           D22  1459     4.424    740.54    0    0    0    0
   -1
BNUM=  123
;B123 ADDED BY (MY 11/7/2002) AND INCLUDES UPDATES FROM 2009 AS-BUILT
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 2301     U123  1453     4.605    745.34    0    0    0    0
                   -
                   -
                   -
                   -
                   -
                   -
          D123  1453     4.607    745.34    0    0    0    0
   -1
;  COMMENT OUT OLD BRANCH 123
;BNUM=  123
;;B123 ADDED BY (MY 11/7/2002)
; NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
; 2301     U123  1453     4.605    745.20    0    0    0    0
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;          D123  1453     4.607    745.20    0    0    0    0
;   -1
BNUM=   23 INERTIA=0.1
;B23 IS MITCHELL LAKE #5
```

```
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 2301      U23   451     4.735    744.72    0    0    0    0
                  -
                  -
                  -
                 452     4.696    739.53    0    0    0    0
                  -
                  -
                  -
                  -
                  -
                  -
           D23   453     4.605    744.76    0    0    0    0
   -1
BNUM=   24 INERTIA=1.00
;BNUM=   24 INERTIA=0.01
;B24 IS BETWEEN MITCHELL LAKE #5 & OLD GARY AVE POND
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 2401      U24    20     4.758    745.16    0    0    0    0
                  -
                  -
                  -
                  -
                  -
                  -
                  -
                  -
                  -
           D24    20     4.756    745.16    0    0    0    0
   -1
; REMOVE GARY AVENUE BOX CULVERT BRANCH, REPLACE WITH 5-6
;BNUM=   25               CFRATE= 200.
;B25 IS THE GARY AVENUE BOX CULVERTS
; NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
; 2501      U25   295     5.039    747.00    0    0    0    0
;           D25   296     5.004    746.89    0    0    0    0       9.9
;   -1
BNUM=   27 INERTIA=0.5
;B27 IS BETWEEN CONFLUENCE AND R.R.
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 2701      U27     8     5.358    752.89    0    0    0    0
                  -
           D27    11     5.339    752.87    0    0    0    0
   -1
BNUM=   28 INERTIA=0.01
;B28 IS BETWEEN R.R. AND DETENTION POND INFLOW
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 2801      U28  9008     5.444    755.56    0    0    0    0
                  -
           D28     9     5.372    753.36    0    0    0    0
   -1
BNUM=   29
;B29 FROM CC&P TRIB. BRIDGE AND 250' U/S - CONTROLS LOWER POND
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 2901      U29  9009     5.491    755.87    0    0    0    0
                  -
                  -
                  -
                  -
                  -
           D29  9008     5.444    755.56    0    0    0    0
   -1
BNUM=   31
;B31 IS BETWEEN THE WETLANDS AND SCHMALE RD
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 3101      U31   601     6.363    762.82    0    0    0    0
                  -
```

```
                  4     6.192    760.84    0    0    0    0
                  -
                  -
                  -
                  -
                  -
                  -
           D31   162     5.871    757.51    0    0    0    0
   -1
BNUM=   32
;B32 IS BETWEEN FLAGSTAFF CT AND SEIMS POND
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 3201      U32   171     0.058    771.90    0    0    0    0
                  -
           D32   170     0.001    771.84    0    0    0    0
   -1
BNUM=   34 INERTIA=0.10
;B34 IS U/S OF MILL POND DR
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 3401      U34   174     6.813    774.08    0    0    0    0
                  -
                  -
                  -
           D34   173     6.742    772.73    0    0    0    0
   -1
BNUM=   35 INERTIA=0.01
;B35 IS U/S OF MILL POND DR
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 3501      U35   775     6.871    775.43    0    0    0    0
                  -
                  -
           D35   174     6.813    774.08    0    0    0    0
   -1
BNUM=   36
;B36 IS U/S OF MILL POND DR
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 3601      U36  1777     6.956    776.38    0    0    0    0
           D36  1776     6.877    775.43    0    0    0    0
   -1
BNUM=   37
;B37 IS BRANCH D/S OF HESTERMAN DR
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 3701      U37   180     7.170    778.56    0    0    0    0
                  -
                 179     7.061    777.54    0    0    0    0
                  -
           D37   778     6.960    776.38    0    0    0    0
   -1
BNUM=   38 INERTIA=0.01  CFRATE= 200.
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 3801      U38   294     7.209    781.23    0    0    0    0
           D38   294     7.170    778.76    0    0    0    0      11.9
   -1
BNUM=   39
;B39 IS NEXT TO FOREST PRESERVE
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 3901      U39   781     0.119    718.33    0    0    0    0
                  -
                  -
                  -
                  -
                  -
           D39   207     0.000    715.52    0    0    0    0
   -1
BNUM=   40
;B40 IS NEXT TO FOREST PRESERVE
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
```

```
 4001      U40   782     0.286    720.92    0    0    0    0
                   -
                   -
                   -
                   -
                   -
           D40   781     0.119    718.33    0    0    0    0
   -1
BNUM=   44
;B44 IS BETWEEN B6 & C&NW RR
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 4401      U44   687     1.612    730.60    0    0    0    0
                   -
                   -
                  87     1.590    729.94    0    0    0    0
                   -
                   -
                   -
           D44   692     1.427    728.20    0    0    0    0
   -1
BNUM=   51
;B51 IS BETWEEN CONFLUENCE AND SEMINOLE
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 5101      U51  2136     0.022    739.63    0    0    0    0
                   -
           D51   139     0.000    739.20    0    0    0    0
   -1
BNUM=   52
;B52 IS BETWEEN SEMINOLE AND YUMA/THUNDERBIRD
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 5201      U52  2133     0.229    742.82    0    0    0    0
                   -
                   -
           D52  2137     0.035    739.90    0    0    0    0
   -1
BNUM=   53 INERTIA=0.01
;B53 IS BETWEEN YUMA/THUNDERBIRD AND BLACKHAWK
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 5301      U53  2130     0.411    746.13    0    0    0    0
                   -
                   -
                   -
                   -
                   -
           D53  2134     0.253    743.39    0    0    0    0
   -1
BNUM=   54
;B54 IS BETWEEN BLACKHAWK AND GARY AVE
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 5401      U54  2128     0.468    746.78    0    0    0    0
                2128     0.443    746.58    0    0    0    0
           D54  2131     0.425    746.48    0    0    0    0
   -1
;
;  THIS IS KEHOE BOULEVARD PROPOSED CONDITIONS BRANCHES
;
BNUM=  255 INERTIA=0.01
;B255 u/s of D54, 250 kehoe blvd d/s Culvert 1
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 2551     U255   198     1.051    760.50    0    0    0    0
                   -
                8101    0.9636    760.25    0    0    0    0
                   -
          CUL1  8101    0.9570    760.25    0    0    0    0
   -1
BNUM=  155 INERTIA=0.01
;B155 u/s 250 kehoe blvd Culvert 1 250 kehoe blvd d/s culvert 2
```

```
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 1551     CUL1  8102    0.9514    760.13    0    0    0    0
                  -
                  -
               8102    0.9438    760.13    0    0    0    0
                  -
                  -
                  -
               8103    0.9018    759.30    0    0    0    0
                  -
                  -
                  -
          CUL2  8103    0.8942    759.30    0    0    0    0
   -1
BNUM=   55 INERTIA=0.01
;B55 u/s 250 kehoe blvd Culvert 2, d/s gary avenue pond
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 5501     CUL2  8104    0.8872    759.00    0    0    0    0
                  -
                  -
                  -
               8104    0.8809    759.00    0    0    0    0
                  -
                  -
                  -
                  -
                196     0.879    757.79    0    0    0    0
                  -
               3011     0.772    755.76    0    0    0    0
                  -
           D55  3010     0.672    753.25    0    0    0    0
   -1
;BNUM=   55 INERTIA=0.01
;B55 Is u/s of Existing 36" RCP Bypass, UP TO BONNIE LN
; NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
; 5501      U55   198     1.051    760.50    0    0    0    0
;                  -
;                 197     0.954    760.56    0    0    0    0
;                 196     0.879    757.79    0    0    0    0
;                  -
;                3011     0.772    755.76    0    0    0    0
;                  -
;           D55  3010     0.672    753.25    0    0    0    0
;   -1
;
;  END PROPOSED CONDITIONS KEHOE BOULEVARD BRANCHES
;
BNUM=   56 INERTIA=0.01  CFRATE=20.
;B56 IS THE STORMSEWER BTW BONNIE LN AND SCHMALE RD
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 5601      U56   297     0.644    779.96    0    0    0    0
                                                                        5.7
```

```
          D56   297     0.000    760.50    0    0    0    0       5.7
   -1
BNUM=   57 INERTIA=1.0
;BNUM=   57
;B57 IS BETWEEN HOMEBASE SPILLWAY AND GARY AVE
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 5701      U57   156     0.199    752.21    0    0    0    0
                  -
                  -
          D57   159     0.068    750.80    0    0    0    0
   -1
BNUM=   58 INERTIA=1.00
;BNUM=   58
;B58 IS BETWEEN GARY AVE AND OLD GARY AVE
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 5801      U58   152     0.306    753.28    0    0    0    0
                  -
                  -
                224     0.272    752.94    0    0    0    0
                  -
                  -
          D58   157     0.218    752.29    0    0    0    0
   -1
BNUM=   59 INERTIA=0.10
;BNUM=   59 INERTIA=0.01
;B59 IS BETWEEN OLD GARY AVE AND 84TH CT
;UPDATED CROSS-SECTIONS PER 2010 SURVEY TO REFLECT ALDI LOMR
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 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 5901      U59   148     0.525    754.94    0    0    0    0
                148     0.472    753.92    0    0    0    0
                  -
                751     0.452    753.40    0    0    0    0
                751     0.409    752.86    0    0    0    0
                751     0.367    752.74    0    0    0    0
                  -
                153     0.347    752.95    0    0    0    0
           D59  153     0.322    753.92    0    0    0    0
   -1
BNUM=   601 INERTIA=0.00
;B601 IS BETWEEN PEPPERS ACCESS ROAD AND ARMY TRAIL ROAD
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 6011     U601  144     0.742    762.91    0    0    0    0
                  -
                  -
          D601  147     0.662    760.30    0    0    0    0
   -1
BNUM=   60 INERTIA=0.01
;B60 IS BETWEEN 84TH CT AND PEPPERS ACCESS ROAD
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 6001      U60  147     0.652    758.30    0    0    0    0
                  -
                  -
           D60  149     0.547    756.14    0    0    0    0
   -1
BNUM=   61 INERTIA=0.01
;B61 IS BETWEEN ARMY TRAIL RD AND CC&P R.R.
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 6101      U61  140     0.884    761.66    0    0    0    0
                  -
                  -
                  -
                  -
           D61  145     0.762    762.39    0    0    0    0
   -1
BNUM=   62 INERTIA=1.0
;B62 IS BETWEEN CC&P R.R. AND MALLARD LAKE
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 6201      U62  200     1.212    765.55    0    0    0    0
                  -
                  -
                  -
                  -
                  -
           D62  741     0.894    762.12    0    0    0    0
   -1
BNUM=   68
;B68 IS Between Existing and Proposed 36" Bypass Inlet
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 6801      U68 3010     0.672    753.25    0    0    0    0
                  -
                  -
                  -
                  -
                  -
               3035     0.663    753.07    0    0    0    0
                  -
                  -
                  -
                  -
                  -
                  -
                  -
                  -
                  -
```

```
                   -
                   -
                   -
           D68  3036     0.606    751.85    0    0    0    0
   -1
BNUM=   71 INERTIA=0.5
;B71 IS DITCH d/s OF 54" fr. NORTH AVE AND EATON TO KEHO BLVD
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 7101      U71  3034     0.842    759.31    0    0    0    0
                   -
                   -
                   -
                   -
                   -
                   -
                   -
                   -
                   -
                   -
                   -
                 3034     0.742    757.78    0    0    0    0
                   -
                   -
                   -
                   -
                   -
                   -
                   -
                   -
                   -
                   -
                   -
                   -
                   -
                   -
                   -
                 3034     0.734    757.66    0    0    0    0
                   -
                   -
                   -
                   -
                   -
                   -
                   -
                   -
                   -
;                3034     0.606    755.72    0    0    0    0
                   -
                   -
                   -
                   -
                   -
                   -
                   -
                   -
                   -
;                3034     0.602    755.66    0    0    0    0
                   -
                   -
                   -
                   -
                   -
                   -
                   -
                   -
                   -
```

```
                  -
           D71  3034     0.598    755.60    0    0    0    0
   -1
;
; ADD BRANCHES 80-83 FOR LENZ PARK UPDATES
;
BNUM=   80
;B80 IS BETWEEN PRIVATE RD AND NEW LENZ PK BRIDGE 2
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
  801      U80   840    1.7309    733.28    0    0    0    0
                  -
                 810     1.722    732.97    0    0    0    0
                  -
                  -
           D80    85     1.714    732.68    0    0    0    0
   -1
BNUM=   81
;B81 IS BETWEEN NEW LENZ PK BRIDGE 2 AND ST.CHARLES RD
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
  811      U81    81     1.772    733.58    0    0    0    0
                  -
                  -
           D81   811     1.733    733.28    0    0    0    0
   -1
BNUM=   82
;B82 IS BETWEEN ST CHARLES RD & NEW LENZ PK BRIDGE 1
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
  821      U82   830    1.9069    734.75    0    0    0    0
                  -
                  -
                 850     1.865    734.74    0    0    0    0
                  -
                 800     1.857    734.62    0    0    0    0
                  -
                  -
                 801     1.823    733.64    0    0    0    0
                  -
                  -
           D82    82     1.797    733.80    0    0    0    0
   -1
BNUM=   83
;B83 IS BETWEEN NEW LENZ PK BRIDGE 1 & NORTH AVE
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
  831      U83    75     2.083    735.51    0    0    0    0
                  -
                  78     2.070    735.32    0    0    0    0
                  -
                  -
                 780     2.032    735.11    0    0    0    0
                  -
                  -
                  79     2.004    735.05    0    0    0    0
                  -
                  -
                  80     1.918    734.78    0    0    0    0
                  -
           D83   820    1.9091    734.76    0    0    0    0
   -1
;
; END LENZ PARK UPDATES
;
TRIBUTARY AREA SPECIFICATION
; UPDATED TRIB AREA BLOCK BASED ON REVISED SUBBASION FOR 2010 UPDATE
;TSFDSN=   -9\KLEIN CREEK\tsf\TSFLONG.MP2
;FFFDSN=   02CGLPR2.pek
TSFNAM=  \KlnCrk10\tsf\tsflng08.mpn
FFFNAM=  base2010.pek
```

```
NLUSE=   36
NGAGE=    6
 GAGE  NLU
    1    6
    2    6
    3    6
    4    6
    5    6
    6    6
;
; Gage 1:  O'Hare
;
BRANCH=    0
 NODE_  GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    F8    1  .0783 .1829 .0934 .0111 .0401 .0000
   F10    1  .0902 .0176 .0075 .0027 .0075 .0000
   F12    1  .0029 .0099 .0001 .0050 .0025 .0000
   F16    1  .0180 .0018 .0013 .0010 .0000 .0000
   F26    1  .0005 .0065 .0009 .0000 .0009 .0000
   F32    1  .1105 .1185 .0440 .0176 .0338 .0000
   F34    1  .0900 .0130 .0037 .0027 .0035 .0000
   F38    1  .1393 .4008 .2804 .0503 .0999 .0000
   F40    1  .2719 .0377 .0276 .0055 .0168 .0000
   F46    1  .2166 .0484 .0356 .0171 .0174 .0000
   F48    1  .0886 .0279 .0035 .0031 .0082 .0000
   F52    1  .0359 .0080 .0011 .0037 .0007 .0000
   F56    1  .1033 .0285 .0195 .0115 .0074 .0000
   F58    1  .0508 .0226 .0149 .0088 .0053 .0000
   F62    1  .0660 .0137 .0017 .0015 .0048 .0016
   F64    1  .0484 .1023 .0204 .0038 .0157 .0000
   F70    1  .0954 .0321 .0148 .0095 .0062 .0000
   F72    1  .1943 .0729 .0689 .0180 .0240 .0000
   F74    1  .0563 .0960 .0390 .0361 .0254 .0000
   F76    1  .1532 .0187 .0118 .0042 .0093 .0000
   F78    1  .0250 .0062 .0007 .0003 .0029 .0000
   F82    1  .0417 .2314 .0606 .0560 .0379 .0000
   F84    1  .0008 .0509 .0002 .0038 .0019 .0000
   F88    1  .0310 .0641 .0226 .0002 .0120 .0000
   F92    1  .0479 .0114 .0027 .0035 .0044 .0000
   F94    1  .0340 .0361 .0475 .0069 .0166 .0050
   F96    1  .0025 .0037 .0000 .0012 .0003 .0000
  F103    1  .0185 .0308 .0259 .0082 .0097 .0000
  F116    1  .0148 .0010 .0019 .0001 .0001 .0000
  F118    1  .0101 .0013 .0010 .0004 .0006 .0000
  F120    1  .0295 .0062 .0073 .0022 .0025 .0000
  F122    1  .0346 .0135 .0010 .0041 .0042 .0000
  F124    1  .0649 .0092 .0210 .0061 .0055 .0000
  F126    1  .0256 .0154 .0018 .0017 .0035 .0000
  F130    1  .0475 .0067 .0027 .0026 .0013 .0000
  F151    1  .0036 .0149 .0000 .0018 .0011 .0000
  F153    1  .0330 .0443 .0036 .0052 .0041 .0000
  F158    1  .0036 .0012 .0002 .0002 .0007 .0000
  F162    1  .0011 .0105 .0049 .0007 .0011 .0000
  F168    1  .0033 .0003 .0000 .0006 .0000 .0000
  F170    1  .0135 .0285 .0232 .0130 .0084 .0000
  F172    1  .0010 .0027 .0051 .0011 .0006 .0000
  F174    1  .0117 .0186 .0032 .0030 .0051 .0000
  F176    1  .0019 .0032 .0008 .0000 .0004 .0000
  F178    1  .0018 .0040 .0000 .0000 .0003 .0000
  F180    1  .0104 .0233 .0049 .0052 .0052 .0000
  F184    1  .0057 .0050 .0008 .0029 .0020 .0000
  F186    1  .0044 .0030 .0014 .0028 .0018 .0000
  F190    1  .0001 .0027 .0000 .0010 .0002 .0000
  F206    1  .0022 .0015 .0020 .0007 .0008 .0000
  F208    1  .0000 .0012 .0000 .0004 .0001 .0000
  F210    1  .0005 .0043 .0000 .0007 .0005 .0000
  F404    1  .0472 .0207 .0015 .0017 .0049 .0000
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  F406    1  .0251 .0058 .0014 .0014 .0022 .0000
 F1001    1  .0086 .0103 .0022 .0005 .0015 .0000
 F1003    1  .0085 .0093 .0217 .0011 .0042 .0000
 F1005    1  .0131 .0288 .0190 .0067 .0078 .0000
 F1011    1  .0048 .0064 .0068 .0023 .0027 .0000
 F1039    1  .0034 .0405 .0068 .0114 .0052 .0000
 F1131    1  .0075 .0193 .0042 .0129 .0036 .0000
 F1133    1  .1614 .1015 .0309 .0209 .0247 .0374
 F1137    1  .0044 .0127 .0038 .0109 .0033 .0000
 F1139    1  .0100 .0527 .0040 .0135 .0081 .0000
 F1141    1  .0011 .0096 .0029 .0030 .0014 .0000
 F1201    1  .0028 .0127 .0063 .0066 .0023 .0000
 F1203    1  .0014 .0076 .0004 .0062 .0012 .0000
 F1205    1  .0007 .0049 .0051 .0032 .0009 .0000
 F1207    1  .0013 .0055 .0027 .0038 .0017 .0056
 F1209    1  .0010 .0110 .0007 .0008 .0008 .0000
 F1211    1  .0034 .0098 .0063 .0029 .0023 .0000
 F1213    1  .0095 .0145 .0150 .0013 .0040 .0000
 F1215    1  .0069 .0105 .0025 .0098 .0028 .0000
 F1219    1  .0015 .0161 .0052 .0063 .0030 .0006
-1
BRANCH=    1
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=    2
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=    3
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0097 .0197 .0113 .0024 .0265 .0000
BRANCH=    4
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0003 .0324 .0362 .0138 .0513 .0000
BRANCH=    5 FAC=1.0
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0124 .1436 .1831 .0303 .0446 .0000
DLAY K=44.0
BRANCH=    6
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0074 .0123 .0155 .0120 .0060 .0246
BRANCH=    7
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0100 .0142 .0095 .0031 .0057 .0000
;
;  REMOVE BRANCH 8 FOR LENZ PARK
;
;BRANCH=    8
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
;    0    1 .0412 .0113 .0283 .0026 .0043 .0000
BRANCH=    9
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0145 .0127 .0133 .0042 .0035 .0080
;
;  REMOVE BRANCH 10 FOR LENZ PARK
;
;BRANCH=   10
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
;    0    1 .1547 .0866 .1699 .0191 .0181 .0000
BRANCH=   12
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0917 .1542 .1295 .0311 .0476 .0000
BRANCH=   13
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0142 .0113 .0138 .0027 .0037 .0122
BRANCH=   14
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0593 .0735 .0272 .0109 .0226 .1071
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BRANCH=   15
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=   16
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0463 .1121 .0371 .0055 .0235 .0000
BRANCH=   17
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0000 .0000 .0000 .0000 .0000 .00000
BRANCH=   18
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=   19
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0791 .0959 .0767 .0097 .0316 .0000
BRANCH=   20
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0895 .0262 .0352 .0042 .0130 .0000
BRANCH=   21
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0416 .0359 .0548 .0038 .0139 .0000
;BRANCH=   22 FAC=1.0       KLR=25.0
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
;    0    1 .0136 .0142 .0398 .0041 .0047 .0000
BRANCH=   22 FAC=1.0
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0166 .0290 .0293 .0030 .0091 .0000
DLAY K=25.0
BRANCH=  123 FAC=1.0
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0000 .0000 .0000 .0000 .0000 .0000
DLAY K=25.0
BRANCH=   23
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0119 .0131 .0118 .0021 .0036 .0000
BRANCH=   24
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0000 .0000 .0000 .0000 .0000 .0000
;BRANCH=   25
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
;    0    1 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=   27
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=   28
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0043 .0145 .0007 .0002 .0018 .0000
BRANCH=   29
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=   31
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0768 .0084 .0059 .0014 .0038 .0000
BRANCH=   32
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=   34
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0614 .0504 .0399 .0193 .0199 .0000
BRANCH=   35
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .1019 .0738 .0691 .0071 .0287 .0000
BRANCH=   36
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0847 .0358 .0123 .0161 .0128 .0000
BRANCH=   37
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
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    0    1 .1302 .0265 .0210 .0122 .0090 .0000
BRANCH=   38
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=   39
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=   40
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=   44
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0009 .0000 .0275 .0000  .0015 .0000
BRANCH=   51
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0003 .0013 .0000 .0000 .0002 .0000
BRANCH=   52
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0062 .0179 .0033 .0002 .0035 .0000
BRANCH=   53
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0078 .0103 .0087 .0061 .0037 .0000
BRANCH=   54 FAC=1.0
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0991 .0359 .0177 .0079 .0128 .0039
DLAY K=39.0
;
;  TRIBUTARY AREA BLOCK FROM KEHOE PROJECT ADD BRANCHES 155 AND 255
;
;Make B55 landuse same as PRO3CPW4.DET
;BRANCH=   55 FAC=1.0        KLR=40.0
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
;    0    1 .1977 .0246 .0261 .0049 .0029 .0000
BRANCH=   55 FAC=1.0
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .1676 .0406 .0174 .0072 .0092 .0000
DLAY K=40.0
BRANCH=  155 FAC=1.0
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0059 .0002 .0006 .0004 .0002 .0000
DLAY K=40.0
BRANCH=  255 FAC=1.0
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0115 .0007 .0015 .0003 .0003 .0000
DLAY K=40.0
BRANCH=   56
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .1290 .0321 .0199 .0063 .0098 .0000
BRANCH=   57
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0184 .0051 .0051 .0001 .0022 .0000
BRANCH=   58
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0223 .0119 .0065 .0025 .0039 .0000
;
;   BRANCH TRIBUTARY AREA CHANGES TO EXPLICITLY DETENTION BASINS IN TRIB 3 HEADWATERS
;
BRANCH=   59
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0509 .0126 .0028 .0042 .0038 .0000
BRANCH=   60
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0187 .0114 .0134 .0077 .0048 .0000
BRANCH=   601
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0019 .0005 .0002 .0002 .0005 .0000
;REMAINING AREA IN SUBBASIN 61 (F124) NOW DRAINS DIRECTLY TO 61
```

```
;BRANCH=   61
;NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
;    0    1 .0    .0    .0    .0    .0    .0000
BRANCH=   61
NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
   0    1 .0232 .0060 .0008 .0003 .0016 .0000
;
;   END OF BRANCH TRIBUTARY AREA CHANGES
;
BRANCH=   62
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=   68
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=   71
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0005 .0005 .0001 .0000 .0003 .00001
;
;  ADD BRANCHES 80-83 FOR LENZ PARK
;
BRANCH=   80
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0057 .0177 .0145 .0006 .0034 .0000
BRANCH=   81
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0284 .0052 .0062 .0020 .0042 .0000
BRANCH=   82
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0069 .0193 .0170 .0035 .0053 .0166
BRANCH=   83
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .1203 .0878 .0585 .0467 .0287 .0077
;
; DONE WITH LENZ PARK MODIFICATIONS
;
;TRIBUTARY 1 ADDITIONS
;
;BRANCH=    1001
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
;    0    1 .0806 .0    .2255 .0    .0113 0.000
;BRANCH=    1002
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
;    0    1 .0296 .0    .0827 .0    .0041 0.000
;BRANCH=    1003
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
;    0    1 .0192 .0    .0331 .0    .0027 0.000
;BRANCH=    1004
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
;    0    1 .0291 .0    .0502 .0    .0041 0.000
;BRANCH=    1005
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
;    0    1 .0    .0    .0    .0    .0    0.000
;BRANCH=    1006
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
;    0    1 .0214 .0    .2713 .0    .0139 0.000
;BRANCH=    1006
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
;    0    1 .0024 .0    .0308 .0    .0016 0.000
;BRANCH=    1007
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
;    0    1 .0018 .0    .0234 .0    .0012 0.000
;BRANCH=    1008
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
;    0    1 .0098 .0    .3927 .0    .0282 0.000
;BRANCH=    1009
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
```

```
;    0    1 .0027 .0    .0546 .0    .0892 0.000
;BRANCH=   1010
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
;    0    1 .0097 .0    .0375 .0    .0243 0.000
;BRANCH=   1011
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
;    0    1 .0    .0    .0    .0    .0    0.000
;BRANCH=   1012
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
;    0    1 .0    .0    .0    .0    .0    0.000
;BRANCH=  1120
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
;    0    1 .0    .0    .0    .0    .0    0.000
BRANCH=  1121
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
    0    1 .0    .0    .0    .0    .0    0.000
;BRANCH=   1020
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
;    0    1 .0000 .0000 .0000 .0000 .0000 .0000
;BRANCH=   1021
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
;    0    1 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=   1022
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
    0    1 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=   1023
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
    0    1 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=   1024
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
    0    1 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=   1025
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
    0    1 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=   1026 FAC=1.0000
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0008 .0000 .0027 .0000 .0004 .0000
BRANCH=   1027 FAC=1.0000
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0018 .0007 .0068 .0000 .0011 .0000
BRANCH=   1028 FAC=1.0000
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0009 .0020 .0024 .0000 .0006 .0000
BRANCH=   1029 FAC=1.0000
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0009 .0021 .0007 .0003 .0004 .0000
BRANCH=   1030 FAC=1.0000
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0032 .0049 .0111 .0009 .0024 .0000
BRANCH=   1031 FAC=1.0000
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0047 .0033 .0111 .0000 .0028 .0000
BRANCH=   1032 FAC=1.0000
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0685 .0368 .0130 .0054 .0046 .0000
BRANCH=   1033
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
    0    1 .0190 .0344 .0237 .0082 .0106 .0499
BRANCH=   1034
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
    0    1 0.000 0.000 0.000 0.000 0.000 0.000
BRANCH=   1035
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
    0    1 .0028 .0073 .0050 .0020 .0018 .0000
BRANCH=   1036
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
    0    1 .0046 .0072 .0067 .0043 .0029 .0000
```

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BRANCH=   1037
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
    0    1 .0    .0    .0    .0    .0    0.000
BRANCH=   1038
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
    0    1 0.000 0.000 0.000 0.000 0.000 0.000
BRANCH=   1039
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
    0    1 0.000 0.000 0.000 0.000 0.000 0.000
;BRANCH=   1040
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
;    0    1 0.000 0.000 0.000 0.000 0.000 0.000
;BRANCH=   1041
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
;    0    1 0.000 0.000 0.000 0.000 0.000 0.000
;END OF TRIBUTARY 1
NEW NETWORK-MATRIX CONTROL INPUT
 CODE   N1   N2   N3   N4   N5   N6   N7   N8   N9  N10      F1     F2     F3     F4     F5
    4   3    D1   -1   D1   0
    1    1
    3   U1   D2
    2    3   U1   D2   D3
    3   D2   D3
    1    2
    1    3
    6    1   U2   1    0                                    37.00
    3   U3   D4
    2    4   U3   D4   D39  F1039
    1   39
    3   D4   D39
;    3   D4   F107
;    6    1   F106 1    0                                     1.00
;   15 F106   F107
    1   40
    3  U39   D40
;    3  U39   F105
;    6    1   F104   1  0                                     1.00
;   15 F104   F105
    3  U40   F101
    6    1   F100   1   0                                    4.00
   15 F100   F101
    2    4   U40  F101 F38  F103
    7 F103   346  1    F102
    6    1   F102 1    0                                    1.00
    4    2   F103 -1   F103 360                             725.49
    7  F38   314  1    F37
    6    1   F37  1    0                                    0.00
    4    2   F38  -1   F38  349                             1000.00
;****************************
;TRIBUTARY 1 CODE REVISIONS
;****************************
;CODE COMMENTED OUT THAT IS DUPLICATED IN MAINSTEM
;    4   3    D12   -1    D12   0
;    3 U12    D10
;    3 U12    D11
;    2   3    D10   D11   U12
;    1  12
;    1  11
;UPSTREAM BOUNDARY FOR THE WEST BRANCH SEGMENT - BASEFLOW ADDITION
;    6   1    U11   1     0                                     37.0
;    1  10
;    3 U10    D9
;CONFLUENCE OF PRAIRIE PATH TRIB AND MAINSTEM
;    3  D9    D41
;TRIB #1 - TIMBER RIDGE FPD POND OUTLET
;    5   6    F39   D9    F39   534   534                      716.21
     5    6   F1039 D4 F1039 1534   1534                    716.21
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;    2   4    U10   D9    D41   F39
;    2    2    D4   F1039
;    1   9
;    1  41
    3 F1038  F1046
;TRIB #1 - EXPANSION FROM COUNTY FARM ROAD CULVERT INTO TIMBER RIDGE FPD POND
    5   1    D1039 F1038 D1039 1     292                     1.0    0.5    721.20
    2   4    F1046 F1037 D1039 F1038
;TRIB #1 - TIMBER RIDGE FPD POND
    7 F1039  1310   1     F1038
;TRIB #1 - ADDITIONAL FLOW OVER COUNTY FARM ROAD INTO TIMBER RIDGE FPD POND
    5   6    F1037 F1038 F1037  825   825                     736.78
;FARM ROAD
;    3  U9    D8
;    2   2    U9    D8
;   11 D40    U41
;PRAIRIE PATH TRIB - SIDE-FLOW WEIR INTO TIMBER RIDGE FPD POND
   14 D40    U39   F1047 1559   1559                           0.5    722.75
    2   3    U39   F1047 D40
   15 F1047  F1046
    1 1039
;    1   8
    3 F1036  D1038
   15 F1036  F1037
    2   3    F1036 U1039 D1038
;    1  40
;TRIB #1 - CONTRACTION INTO COUNTY FARM ROAD CULVERT
    5   1    D1038 U1039 U1039 -1    292                     0.3    0.3    731.81
;COUNTY FARM ROAD
;    5   6    D7 U8 D7    501   501                           1      725.60
;                         502   502                           734.15
;    2   2    U8    D7
;    3 U40    F45
;   15 F44    F45
;PRAIRIE PATH TRIB - BASEFLOW
;    6   1    F44  1      0                                   4.00
;    2   4    U40  F43    F41  F45
    1 1038
;PRAIRIE PATH TRIB - TIMBER RIDGE DETENTION OUTFLOW
;    4   2    F43  -1     F43  332                            725.49
;    1   7
;   2   4    U7    D6    D120  F1207
;    2   3    U7    D6    D120
;    3  U07   D120
;    3  U7    D6
;    1  120
;    1   6
;PRAIRIE PATH TRIB - TIMBER RIDGE DETENTION POND
;    7  F43   316   1     F42
;    6   1    F42   1     0                                    0.00
;PRAIRIE PATH TRIB - LINEAR RESERVOIR
;    4   2    F41   -1    F41   349                           1000.00
;    7  F41   352   1     F40
;    6   1    F40   1     0                                    0.00
;TRIB #1 - EXPANSION INTO NATURAL CHANNEL (U/S COUNTY FARM ROAD)
    5   1    D1037 U1038 D1037 1     293                     0.8    0.5    734.20
;TRIB #1 - ADDITIONAL OVERLAND DITCH FLOW (U/S COUNTY FARM ROAD)
    5   6    F1035 U1038 F1035 1584   1584                    738.00
    2   3    U1038 D1037 F1035
;CHICAGO AND NORTHWESTERN RAILROAD
;    5   4    D5 U6 D5    1009  1009  1003  818  818 500      855.31 749.70 0.62   750.48
;    2   2    U6 D5
    1  1037
    3 F1034  D1036
   15 F1034  F1035
;    1   5
    2   3    F1034 U1037 D1036
```

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;TRIB #1 - CONTRACTION FROM NATURAL CHANNEL (U/S COUNTY FARM ROAD)
    5   1    D1036 U1037 U1037 -1    293                     0.3    0.3    735.87
;BEAVER DAM - REMOVED
;    3  U5    D4
;    2   2    U5    D4
    1  1036
;    1   4
;TRIB #1 - CENTER AVENUE
    5   6    D1035 U1036 D1035  1507  1507                           741.65
    2   2    U1036 D1035
;METAL WORKS ROAD (PRIVATE)
;    5   6    D3    U4    D3    539   539                     1      732.68
;                               589   589                     2      738.05
;                               590   590                            739.52
;    2   2    U4    D3
    1  1035
    3 D1034  U1035
    2    2   U1035 D1034
    1  1034
;    1    3
;ST. CHARLES ROAD
;    5    6   D2 U3 D1002 538   538                           1      734.04
;                               582   582                     2      744.01
;                               583   583                            742.86
;    2    2   U3 D2
;    1    2
;BEAVER DAM - REMOVED
;    3   U2   D1
;    2    2   U2 D1
;    1    1
;UPSTREAM MODEL BOUNDARY (NORTH AVENUE)
;    6    1   U1 1     -17                                          29.0
    1  1033
    2     4  F1032 D1032 F1031 U1033
    1  1032
;TRIB #1 - FISHER AND CLOW PROPERTY TILE LINE
    5    6   D1032 F1031 F1031 3050  3050                    765.50
   15 F1033  F1032
   15 F1031  F1030
;TRIB #1 - BASEFLOW
    6    1   F1033 1     0                                   4.00
;TRIB #1 - CLOW PROPERTY OUTLET
    5    6   D1032 U1033 U1033 4120  4120                    763.00  /
                               4121  4121                    768.70
;    3 D1032  U1033
    3 D1032  F1032
* NEW CODES START HERE
;TRIB #1 - POND O TO POND A
    5    6   F1133 F1134 F1133 3092 3092                     758.00  /
                               3082 3082                     763.50
    2    2   F1133 F1134
   15 F1134  F1135                                           0.0070 8000.
;TRIB #1 - POND O TO POND A
    5    6   F1135 F1136 F1135 3070 3070                     758.00  /
                               3076 3076                     766.00
    2    2   F1136 F1135
    2    4   D1033 F1132 F1131 F1030
    3 F1132  F1030
;TRIB #1 - DIVERSION INTO POND N/O
    5    6   D1033 F1132 D1033 1218 1218                     758.00  /
                               3072 3072                     765.10
;TRIB #1 - POND N/O
    7 F1133  1011  1     F1132                               0.0060
;TRIB #1 - POND M INFLOW INTO POND N/O
    5    2   F1131 F1132 F1131 1246 50     1246 50           764.00
;TRIB #1 - POND M
    7 F1131  1010  1     F1130
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;TRIB #1 - POND L INFLOW INTO POND M
    5    2   F1215 F1130 F1215 1245 50     1245 50           767.00
    2    2   F1215 F1130
;TRIB #1 - POND A
    7 F1137  1013  1     F1136                                0.0080
;TRIB #1 - POND A INFLOW INTO POND B
    5    6   F1137 F1138 F1138 3213 3213                      757.00  /
                             3074 3074                      759.00
    2    2   F1137 F1138
;TRIB #1 - POND B
    7 F1139  1015  1     F1138                                0.0050
;TRIB #1 - POND B INFLOW INTO POND C (MOD WEIR)
    5    6   F1139 F1140 F1140 3094 3094                      752.50  /
                             3084 3084                      759.20
    2    2   F1139 F1140
;TRIB #1 - POND C
    7 F1141  1016  1     F1140                                0.0050
;TRIB #1 - POND C INFLOW INTO POND D (DIVERSION)
    5    6   F1141 F1200 F1200 1215 1215                      749.0
;TRIB #1 - POND C INFLOW INTO ORIGINAL CHANNEL (WEIR)
    5    2   F1141 F1142 F1142 1243 50     1243 50           750.00
    2    3   F1141 F1142 F1200
   15 F1142  F1143
    3 U1034  F1143
    3 U1034  F1145
    2    3   F1143 F1145 U1034
   15 F1144  F1145
    6    1   F1144 1     0                                    3.0
;TRIB A - POND D
    7 F1201  1025  1     F1200
    2    3   F1201 F1202 F1209
;TRIB A - POND D INFLOW INTO POND E
    5    6   F1201 F1202 F1201 1225 1225                     745.00   /
                             3068 3068                      750.70
;TRIB A - POND H INFLOW INTO POND E
    5    6   F1209 F1202 F1209 1224   1224                   752.00   /
                             3067   3067                    757.00
;TRIB A - POND H
    7 F1209  1024  1     F1208                                0.0010
    2    2   F1208 F1211
;TRIB A - POND I INFLOW INTO POND H
    5    6   F1211 F1208 F1208 1223 1223                     752.00   /
                             3066 3066                      756.50
;TRIB A - POND J
    7 F1219  1021  1     F1218
;TRIB A - POND J INFLOW INTO POND I
    5    6   F1219 F1210 F1219 1221 1221                     755.00   /
                             3065 3065                      759.70
    6    1   F1218 1     0                                    0.0
;TRIB A - POND I
    7 F1211  1023  1     F1210                                0.001
    2    3   F1210 F1213 F1219
;TRIB A - POND K INFLOW INTO POND I
    5    6   F1213 F1210 F1213 1222 1222                      754.50  /
                             3064 3064                      760.50
;TRIB A - POND K
    7 F1213  1022  1     F1212
    2    2   F1212 D1121
    3 D1121  F1212
    1  1121
    6    1   U1121 1     0                                    2.0
;TRIB A - POND L
    7 F1215  1020  1     F1214
    6   1    F1214 1     0                                    0.0
;TRIB A - POND E
    7 F1203  1026  1     F1202
    2    2   F1203 F1204
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;TRIB A - POND E INFLOW INTO POND F
    5   6    F1203 F1204 F1203 1226 1226                    745.00  /
                               3063 3063                    750.00
;TRIB A - POND F
    7 F1205  1027  1     F1204
    2    2   F1205 F1206
;TRIB A - POND F INFLOW INTO POND G
    5    6   F1205 F1206 F1205 1227 1227                    741.50  /
                               3062 3062                    744.50
;TRIB A - POND G
    7 F1207  1028  1     F1206
;   6    1   U1120 1     0                                   0.0
;TRIB A - POND G INFLOW INTO TRIB A (PIPE)
    5    6   F1207 U6    F1207 1228 1228                    734.50  /
                               3061 3061                    736.50
    6    1   U1026 1     0                                   2.00
    1  1026
    2    2   D1026 U1027
    5    6   D1026 U1027 D1026 4211 4211                    770.35
    1  1027
    2    2   D1027 U1028
    5    6   D1027 U1028 D1027 4212 4212                    769.38  /
                               1750 1750                    773.80  /
                               1752 1752                    773.40
    1  1028
    2    2   D1028 U1029
    5    6   D1028 U1029 D1028 4213 4213                    768.67  /
                               1754 1754                    774.00  /
                               1756 1756                    774.39
    1  1029
    2    2   D1029 U1030
    5    6   D1029 U1030 D1029 4214 4214                    768.26  /
                               1758 1758                    774.90  /
                               1760 1760                    775.15
    1  1030
   15 F1007  F1008
    2    3   D1030 U1031 F1007
   14 D1030  U1031 F1007 216   216                           0.5    771.30
    5    6   D1030 U1031 U1031 4216  4216                    767.94
    1  1031
    2    6   D1031 F1008 D1025 F1006 F1013 F1018
    5    6   D1031 F1006 D1031 4215  4215                    766.40  /
                               1762  1762                   770.00  /
                               1764  1764                   770.00
    3  F1008 F1006
    6    1   F1002 1     0                                   1.00
    2    3   F1001 U1020 F1015
    5    6   F1001 U1020 U1020 1700  1701                    769.66
    5    6   F1001 F1015 F1015 3080  3080                    772.00
   15 F1015  F1016
    1  1020
;    5    6   D1020 U1021 D1020 1702  1703                    769.58
    5    6   D1020 U1021 D1020 1702  1702                    769.58
    2    2   D1020 U1021
    1  1021
    5    6   D1021 U1022 D1021 1704  1705                    769.51
    2    2   D1021 U1022
    1  1022
    5    6   D1022 F1004 D1022 1706  1707                    768.98
    2    3   D1022 F1004 F1016
    3  F1004 F1016
    7  F1003 1892  1     F1004
    2    3   F1003 U1023 F1017
    5    6   F1003 U1023 U1023 1708  1709                    768.98
    5    6   F1003 F1017 F1017 3078  3078                    774.00
   15 F1017  F1018
    1  1023
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    5    6   D1023 U1024 D1023 1710  1711                    768.51
    2    2   D1023 U1024
    1  1024
    5    6   D1024 U1025 D1024 1712  1713                    768.14
    2    2   D1024 U1025
    1  1025
    3  F1006 F1018
    5    6   D1025 F1006 D1025 1714  1715                    765.68
    7  F1005 1890  1     F1006                               0.003
    5    6   F1006 F1013 F1013 215   215                     999.00
   15 F1013  F1014
   15 F1009  F1010
    2    2   F1005 F1009
    2    3   F1010 U1032 F1011
    3 F1010  U1032
    2    2   F1014 F1012
    3 F1014  F1012
    7 F1011  1896  1     F1012
    5    6   F1011 U1032 F1011 9030  9030                    765.50  /
                               9040  9040                    772.40
    7  F1001 1894  1     F1002
    4    2   F1005 -1    F1005 1891                          0.00
;******************************
;END OF TRIBUTARY 1 REVISIONS
;******************************
    1   4
    3  U4    D5
    2   2    U4   D5
    1   5
    5   6    D6   U5   D6   501  501                       726.30   /
                              502  502                       735.00
    2   2    U5   D6
    1   6
    1  44
    2   4    U6   D44  F109 F1207
    3  U6    D44
    3  U6    F109
    6   1    F108      1    0                                1.00
   15 F108   F109
    5   4  D7 U44 U44 1009 1009 1003 818 818 500 855.31 749.70   0.62 750.48
    2   2    U44  D7
    1   7
;
; *****THIS IS THE LENZ PARK BRIDGE ADDITIONS (W/ BRIDGES)****
;      CODE REVISIONS ALSO INCLUDE CEMCON BRIDGE MODIFICATIONS AT NORTH AND KUHN
;
    1   80
    5    6   D80  U7   D80  539  539                         732.68  /
                      589  589                               738.05  /
                      590  590                               739.52
    2    2   U7   D80
    1   81
    5    6   D81  U80  D81  595  595                         733.28  /
                      507  508                               737.80
    2    2   U80  D81
    1   82
    5    6   D82  U81  D82  538  538                         734.04  /
                      582  582                               744.01  /
                      583  583                               742.86
    2    2   U81  D82
    1   83
    5    6   D83  U82  D83  596  596                         734.76  /
                     4000  4001                              741.00
    2    2   U82  D83
; *****THIS IS THE PROPOSED LENZ PARK SW POND (NW PARCEL)*****
    7 F410   4002 1    F409
    6    1   F409 1    0                                    10.00
```

```
   15 F411   F412
   15 F413   F414
   15 F415   F416
    2    3   F410 F411 F413
    5    6   F410 F411 F411 4004 4004                        742.60
    5    6   F410 F413 F413 4003 537                         737.55
    2    3   F412 F414 F415
    3 F415   F412
    3 F415   F414
    2    3   U83  D12 F416
    3  U83   F416
; ************************************************
;    5   6 D12 U83 D12 540 540               1 735.80
;                      541 541                 746.07
; ************************************************
;    1   8
;    5   6  D8  U7  D8 539 539               1 732.68
;                      589 589               2 738.05
;                      590 590                 739.52
;    2   2  U7  D8
;    5   6 D10  U8 D10 538 538               1 734.04
;                      582 582               2 744.01
;                      583 583                 742.86
;    2   2  U8 D10
;    1  10
;    2   2 U10 D12
;   BEGIN CEMCON,LTD CODE REVISION (10/01)
;   REVISION FOR RT.64 AND KUHN RD CULVERTS(BOTH RECONSTRUCTED)
;    5   6 D12 U10 D12 540 540               1 735.80
;                      541 541                 746.07
;   TABLE 5540 IS NEW RT.64 (NORTH AVE) CULVERT X-ING
    5   6 D12 U83 D12 5540 5540                             735.20
    1  12
;    5   6 D13 U12 D13 554 554               1 737.80
;                      555 555               2 745.49
;                      556 556                 745.63
;   TABLES 5554 AND 5556 ARE NEW KUHN RD. CULVERT X-ING
;   TABLE 5554 IS CULVERT AND 5556 IS ROB CHANRAT(N. OF HEADWALL)
    5   6    D13 U12  D13   5554 5554                 737.00 /
                            5556 5556                 744.80
;
;   END CODE REVISIONS FOR LENZ PARK AND NORTH AVENUE/KUHN ROAD
;
    2    2   U12 D13
    1   13
    1    9
    7  F96   399   1  F95
    2    2   F95 F98
       3  F95   F98
   15  F97   F98
    5    6   F96 U13  F96   790  537                         739.00
   14  D9    U13  F97 799 799                               1.0    743.00
    3  U13   D9
       2    4   U13  D9  F96 F97
    5    6   D14  U9   D14  812  812                        738.40
    2    2   U9   D14
    1   14
    5    6   D15  U14  D15  545  545                        739.09
    2    2   U14  D15
    1   15
    3  U15   D16
    3  D16   D51
    2    3   U15  D16  D51
    1   16
;************************
;BEGINNING OF TRIBUTARY 2
;************************
```

```
    1   51
    5    6   D52  U51  D52  503  503                          740.64
    2    2   U51  D52
    1   52
    5    6   D53  U52  D53  515  515                          743.39
    2    2   U52  D53
    1   53
    5    6   D54  U53  D54  511  511                          746.75
    2    2   U53  D54
    1   54
; ****************************************************
; Beginning of New Network Matrix Control - GARY KEHOE RESERVOIR
; Elevations for Gary-Kehoe updated per 2010 survey completed by Thomson
   15   F3    F4
   15 F135  F136
    2    3   U54  F4   F136
;    2    2   U54  F136
    5    6  F136  U54  F136 573  573                          749.06
    5    6    F4  U54   F4  5981 5981                         759.20
;    4    2   F4   -1   F4   597                              759.20
   15  F41   F42
   15  F43   F44
    2    3   F135 F42  F44
    3  F135  F42
    3  F135  F44
   15  F137  F138
    2    2   F138 F41
    5    6   F138 F41  F138 574  574                          751.37
   15  F53   F54
    2    2   F137 F54
    5    6   F54  F137 F54  578  578                          751.50
   15 F145   F146
    2    2   F53  F146
    5    6   F146 F53  F146 586  586                          751.65
   15  F89   F90
   15  F65   F66
   15 F147   F148
    2   4    F145 F90  F65  F148
    3 F145   F90
    3 F145   F65
    3 F145   F148
    1   68
    2    2   F89  D68
    3  F89   D68
    1   55
    2    3   U68  D55  F3
;    2    2   U68  D55
    3  D55   U68
    3  D55   F3
   15 F159   F160
    2    2   F147 F160
    5    6   F160 F147 F160 577  577                          755.60
    1   71
    2    2   F159 D71
    3  D71   F159
    7 F158   584  1    F157
    2    3   U71  F48  F158
    4    2   F158 -1   F158 585                              1000.00
    6    1   F157 1    0                                     0.5
    7  F48   382  1    F47
    4    2   F48  -1   F48  383                              1000.00
    6    1   F47  1    0                                     0.5
    2    2   F66  F51
    5    6   F66  F51  F66  598  598                          754.89
    7  F52   309  1    F51
    2    2   F52  F43
    5    6   F52  F43  F52  576  537                          749.70
```

```
; End of New Network Matrix Control - GARY KEHOE RESERVOIR
; ********************************************************
    6    1   F55  1    0                                      0.0
    6    1   F57  1    0                                      0.0
; 1-D table updated to 2-D table, per 2010 survey
;    4    2   F56  -1   F56  340                               761.60
       5    6   F56  U255 F56  4021 4021                        760.84  /
                           4022 4022                          762.98
    7  F56   344  1   F55
;
; 250 Kehoe Boulevard Project
;
    5    1   D56  U255 D56  1    297                           1.0    0.5 760.50
    2    4   U255 F56  F58  D56
;    5   1   D56  U55  D56  1    297                           1.0    0.5 760.50
;    2   4   U55  F56  F58  D56
    2    2   D255 U155
;   3  D255  U155
    5    6   D255 U155 D255 7101 7101                          760.25  /
                           7102 7102                          765.35  /
                           7103 7103                          765.35  /
                           7104 7104                          765.00
    1  255
    2    2   D155 U55
;   3  D155  U55
    5    6   D155 U55  D155 7201 7201                          759.30  /
                           7202 7202                          764.29  /
                           7203 7203                          764.00  /
                           7204 7204                          764.00
    1  155
;
; End of 250 Kehoe Boulevard Project
;
    4    2   F58  -1   F58  341                               778.00
    7  F58   345  1    F57
    1   56
    3  U56   F60
    6    1   F59  1    0                                      8.00
   15  F59   F60
    2    3   U56  F60  F62
; 1-D table updated to 2-D table, per 2010 survey
;    4    2   F62  -1   F62  322                               785.00
       5    6   F62  F60 F62   4019 4019                        780.28  /
                           4020 4020                          783.89
    7  F62   323   1   F61
    4    2   F64  -1   F64  320                               790.50
    2    2   F61  F64
    7  F64   321  1    F63
    6    1   F63  1    0                                      1.0
;**********************
;END OF TRIBUTARY 2
;**********************
    5    6   D17  U16  D17  547  547                           738.93
    2    2   U16  D17
    1   17
   11  D18   U17
    2    5   U17  F1   D18  F88  F36
    7  F88   348  1    F87
    5    6   F88  U17  F88  534  534                           742.70
   15  F35   F36
    5    6   F36  U17  F36  559  559                           750.56
    3  F35   F87
    2    3   F87  F35  F46
    7  F46   381  1    F45
    4    2   F46  -1   F46  380                               1000.00
    6    1   F45  1    0                                      0.0
    5    6   D18  F1   F1   998  999                           745.00
```

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   15   F1   F2
    7   F8   361  1    F7
    3   F2   F7
    1   18
    5    6   F8   U18  F8   579  537                        742.00
    7  F84   359  1    F83
    5    6   F86  F83  F86  834  834                        744.50
   15  F85   F86
    3  F85   F7
    5    6   F84  U18  F84  580  537                        741.00
    2    4   D19  U18  F84  F8
    2    4   F7   F2   F85  F94
    2    2   F83  F86
    7  F94   396  1    F93
    4    2   F94  -1   F94  397                            745.00
    6    1   F93  1    0                                    0.0
    5    6   D19  U18  D19  551  552                        741.90  /
                      553  553                              750.00  /
                      563  563                              749.00
    1   19
    3  U19   D20
    2    2   U19  D20
    1   20
    2    2   U20  D21
    5    6   D21  U20  D21  591  591                        743.81  /
                      592  592                              750.71  /
                      807  807                              752.85  /
                      593  593                              752.74  /
                      594  594                              752.80
    1   21
    3  U21   D22
    2    2   U21  D22
    1   22
;   ELEVATIONS UPDATED TO REFLECT FOUNTAIN VIEW ROAD AS-BUILTS
    5    6   D123 U22  D123 587  587                        745.34  /
                           1588 1588                       754.21
    3  U22   F182
    1  123
    5    6   D23  U123 D23  1587 1587                       744.90 /
                           588  588                        752.87
    2    2   U123 D23
; 12" DRAINTILE CONNECTION
    3  U22   F164
    2    4   U22  D123 F182 F164
; Fountains at Town Center
;
    6    1   F177  1    0                                  0.0
    7 F178   2101  1    F177
    6    1   F175  1    0                                  0.0
    7 F176   2102  1    F175
    2    3   F178  F176 F173
    5   6    F178  F173 F178 1901 1901                      783.27  /
                            2001 2001                      999.99
    5   6    F176  F173 F176 1902 1902                      780.95  /
                            2002 2002                      999.99
    7 F174   2103  1    F173
    6    1   F167  1    0                                  0.0
    7 F168   2106  1    F167
    2    3   F174  F169 F168
    5    6   F174  F169 F174 1903 1903                      776.26  /
                            2003 2003                      784.51
    5    6   F168  F169 F168 1906 1906                      761.00  /
                            2006 2006                      766.00
    7 F172   2104  1    F171
    7 F170   2107  1    F169
    2    4   F172  F170 F161 F212
    5    6   F172  F161 F172 1904 1904                      755.88  /
```

```
                              2004 2004                        764.00
    5    6   F170  F161 F170 1907 1907                        755.50  /
                              2007 2007                        764.10  /
                              2207 2207                        755.68
    7 F162   2105  1    F161
    7 F204   2114  1    F203
    2    3   F162  F215 F163
    5    6   F162  F215 F215 1905 1905                        999.99  /
                              2005 2005                        753.50
    5    6   F162  F163 F163 1905 1905                        750.41
   15 F163   F164
   15 F215   F216
    2    3   F216  F203 F214
    3 F216   F203
    3 F214   F203
    2    2   F204  F165
    5    6   F204  F165 F204 1914 1914                        749.20
   15 F165   F166
;
    6    1   F205  1   0                           0.0
    7 F206   2116  1   F205
    2    3   F206  F211 F213
    5    6   F206  F213 F213 1916 1916                 751.00
    5    6   F206  F211 F211 2016 2016                 757.00
   15 F211   F212
   15 F213   F214
    3 F161   F212
;
    6    1   F207  1    0                                    0.0
    7 F208   2117  1    F207
    2    4   F208  F166 F209 F194
    5    6   F208  F209 F208 1917 2317                        748.80  /
                              2017 2017                        753.50  /
                              2217 2217                        754.50
    3 F209   F166
;
    7 F210   2115  1    F209
    2    2   F210  F195
    5    6   F210  F195 F210 2315 2315                        999.99  /
                              2015 2015                        748.00  /
                              2215 2215                        750.50
;
    6    1   F183    1  0                                    0.0
    7 F184   2109    1  F183
    2    2   F184  F191
    5    6   F184  F191 F184 1909 1909                        751.40  /
                              2009 2009                        760.00
    6    1   F185  1    0                                    0.0
    7 F186   2110    1  F185
    2    2   F186  F193
    5    6   F186  F193 F186 1910 1910                        754.00  /
                         2010 2010                             760.00
;    6    1  F187  1    0                                    0.0
;    7 F188  2111  1    F187
;    2    2  F188  F195
;    5    6  F188  F195 F188 1911 1911                        750.00  /
;                             2011 2011                        757.00
    6    1   F189  1    0                                    0.0
    7 F190   2112  1    F189
    2    2   F190  F197
    5    6   F190  F197 F190 1912 2312                        747.50  /
                         2012 2012                             753.50  /
                         2212 2212                             754.00
;
   15 F191   F192
   15 F193   F194
   15 F195   F196
```

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   15 F197   F198
   15 F199   F200
    2    4   F192  F196 F198 F199
    3 F199   F192
;    3F199   F194
    3 F209   F194
    3 F199   F196
    3 F199   F198
;
   15 F181   F182
    6    1   F179  1    0                                   0.0
    7 F180   2108  1    F179
    2    3   F180  F181 F201
    5    6   F180  F181 F181 1908 1908                      767.33
    5    6   F180  F201 F201 2008 2008                      777.60
   15 F201   F202
;
    2    2   F202 F171
    3 F202   F171
;
; END OF FOUNTAINS AT TOWN CENTER UPDATE
    1   23
    5    6   D24  U23  D24  549  549                        745.53  /
                           550  550                        755.22
;  FOUNTAIN VIEW ADDITIONS PER CBBEL PLANS
    7  F10   350  1    F9
   15 F420   F421
   15 F422   F423
   15 F424   F425                  1.0E-8   500.0
    2    3   F420 F422 F425
    3 F420   F425
    3 F422   F425
    2    2   F10  F424
   15 F437   F438
   15 F439   F440
       5    6   F10  F424 F10  3224 3224                      750.35
    5    6   F421 F437 F421  3226 3226                      748.18  /
                             3225 3225                      746.2
    5    6   F423 F439 F423  3225 3225                      946.2
       2    2   F437 F421
       2    2   F439 F423
;       3 F438   F12
       3 F440   U23
;    4    2   F10  -1   F10  352                             752.00
    2    3   U23 F440  D24
;   END FOUNTAIN VIEW ADDITIONS PER CBBEL PLANS
    7  F34   302  1    F33
; Updated 1-d table based on as-built information from the County
;    4    2   F34  -1   F34  301                            760.00
    5    6   F34  F9   F34  4023 4023                       759.90  /
                           4024 4024                       768.50
    7  F40   332  1    F39
    4    2   F40  -1   F40  316                            770.50
    2    2   F40  F33
    2    2   F9   F34
    6    1   F39  1    0                                   0.0
    1   24
    3  U24   F12
    2    2   U24  F12
    7  F12   2113  1    F11
;  REVISE GARY AVENUE CULVERT CROSSING
;    1   25
;   15  F13   F14
;    5    1   D25  F11  D25  1    296                        1.0    0.5    746.89
;    5    1   F92  U25  U25  -1   295                        0.2    0.2    747.00
    5    6   F92  F11  F92  3222 3222                       746.94  /
                           803  803                        758.00
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;    3  F13   F92
;    2    3   F92  U25  F13
    2    4   F11  F92  F200 F438
;    3 F11   F166
    3  F11   F200
    3  F11   F438
    7  F92   395  1    F91
    2    3   F91  D57  D27
    5    6   D27  F91  D27  911  912                        752.87
    1   27
;*************************
;BEGINNING OF TRIBUTARY 3
;*************************
    5    6   D57  F91  D57  913  914                        750.80
    5    6   D58  U57  U57  527  527                        752.79
;  STRATFORD SQUARE MALL POND 1 - DOWNSTREAM MOST POND
;    4    2   F70  -1   F70  336                             757.27
    5    6   F70  D58 F70   4033 4033                       758.04  /
                            4032 4032                       763.34
    7  F70   318  1    F69
    2    2   F69  F72
;  STRATFORD SQUARE MALL POND 2 - UPSTREAM POND
;    4    2   F72  -1   F72  335                             760.16
    5    6   F72  F69 F72   4031 4031                       761.02  /
                            4030 4030                       767.32
    7  F72   317  1    F71
    2    2   F71  F74
    4    2   F74  -1   F74  337                             768.52
    7  F74   304  1    F73
    6    1   F73  1    0                                    1.0
;     4    2   F78  -1   F78  311                             763.00
;    2   5   F78  D58  F76  U57  F70
    2    5   F78  D58  F408 U57  F70
; LIFETIME FITNESS UPDATE WBK CBBEL APRIL 2010 - CHANGE CODE 4 TO CODE 5
;    4   2   F76  -1   F76  313                             761.00
; LIFETIME FITNESS DETENTION BASIN OUTLET CONTROL STRUCTURE 15-INCH OUTLET PIPE AND WEIR BOX
    5    6   F76  F407 F76  3001 3001                       760.15  /
                            3002 3002                       765.28
;2ND CONTROL STRUCTURE IS 36-INCH OUTLET PIPE AND OVERFLOW DUMMY BRANCH
    5    6   F408 D58  F408 9000 9000                       759.94  /
                            3003 3003                       765.22
    2    2   F76  F407
   15 F407   F408                  1.0E-8   500.0
    7  F76   319  1 F75
    6    1   F75  1   0                                     0.0
;END OF LIFETIME FITNESS MODIFICATIONS
;  COVINGTON POND 6 - CHANGE CODE 4 TO CODE 5 ORIFICE AND WEIR PER PLANS
    5    6   F78  D58 F78   3041 3041                       762.95  /
                            3040 3040                       766.00
    6    1   F77  1    0                                    1.0
    7  F78   312  1    F77
    1   57
    1   58
    5    6   D59  U58  D59  525  525                        753.92
    2    2   U58  D59
    1   59
    1   60
;TRIBUTARY 3 HEADWATERS UPDATES BASED ON 2010 SURVEY
    5    6   D60  U59  D60  523 523                        756.53  /
                            524 524                        760.97
    2    2   U59  D60
;PEPPER CITY CULVERT EXTENSION - JUNE 2001
    1  601
    5    6   U60  D601 U60  3218  3218                      762.80
    2    2   U60  D601
; END OF PEPPER CITY UPDATES
    5    6   U601 D61  U601 521   521                       762.85
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;   4    2   F124 -1   F124 366                              800.00
; COSTCO DETENTION BASIN OUTLET CONTROL STRUCTURE
;    5    6   F124 D61  F124 4007 4007                        769.95  /
    5    6   F124 F435 F124 4007 4007                        769.95  /
                            4006 4006                        777.00
    7 F124   367  1    F123
    6    1   F123 1    0                                     0.00
; LOWES DETENTION BASIN OUTLET CONTROL STRUCTURE
;    5    6   F122 D61  F122 4005 4005                        768.85  /
    5    6   F122 F432 F122 4005 4005                        768.85  /
                            3042 3042                        778.00
    3  D61    F433
    3  D61   F436
    2    2    F124 F435
    2    2   F122 F432
    2    4   F433 F436 D61 U601
   15 F432   F433
   15 F435   F436
;  Moved Lowes detention pond because it drains north of Army trail Road
    7 F122   365  1    F121
    6    1   F121 1    0                                     0.00
    1   61
    5    6   D62  U61  D62  519  519                         762.27
    2    2   U61  D62
;    2   2   U62  F84
    1   62
;DETENTION BASIN DOWNSTREAM OF MALLARD ON WEST SIDE
    7 F126   400  1    F125
    6    1   F125 1    0                                     00.0
;DETENTION BASIN OUTLET CONTROL STRUCTURE
;    5    6   F126 U62  F126 4014 4014                        766.22  /
    5    6   F126 F428 F126 4014 4014                        766.22  /
                            4015 4015                        774.00
;    3 U62   F80
;    6   1   F79  1    0                                     10.00
;DETENTION BASIN DOWNSTREAM OF MALLARD ON EAST SIDE
    7 F406   369  1    F405
    6    1   F405 1    0                                      1.00
;DETENTION BASIN OUTLET CONTROL STRUCTURE
;    5    6   F406 U62  F406 4016 4016                        764.66  /
    5    6   F406 F426 F406 4016 4016                        764.66  /
                            4017 4017                        768.00
;     2   4   U62  F126 F406 F404
;    4   2   F126 -1   F126 368                              800.00
;    2   4   U62  F80  F82  F126
;   15 F79   F80
;STORAGE DOWNSTREAM OF MALLARD LAKE
    7 F404   401  1    F403
;    5    6   F404 U62  F404 3212 3212                        768.74  /
    5    6   F404 F430 F404 3212 3212                        768.74  /
                            4013 4013                        776.00
    3  U62   F431
       3  U62   F427
    3  U62    F429
    2    2   F126 F428
    2    2   F406 F426
       2    2   F404 F430
       2    4   U62  F429 F427 F431
   15 F428   F429
   15 F426   F427
   15 F430   F431
;MALLARD POND UPDATES APRIL 2010
;MALLARD POND ORIFICE AND MANHOLE OVERFLOW
;    4   2   F82  -1   F82  333                              774.27
    7  F82   303  1    F81
    6    1   F81  1    0                                     10.00
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    5    6   F82  F401 F82  4008 4008                        773.74  /
                           4009 4009                        777.78
    2    2   F82  F401
;2ND CONTROL STRUCTURE IS 42-INCH PIPE AND BERM OVERFLOW
   15 F401   F402
    5    6   F402 F403 F402 3210 3210                        768.29  /
                           4011 4011                        779.19
    2    2   F402 F403
;END TRIBUTARY 3 HEADWATER UPDATES
;**********************************
;END OF TRIBUTARY 3
;**********************************
    7 F116   354  1    F115
    6    1   F115 1    0                                    0.00
    4    2   F116 -1   F116 355                             765.00
    2    2   F116 F15
    7  F16   307  1    F15
    4    2   F16  -1   F16  356                             757.90
    2    2   F16  F117
    1   29
    4    2   F18  -1   F18  305                             771.00
    7  F18   306  1    F17
    6    1   F17  1    0                                    0.00
    2    2   U29  F151
    2    4   F150 F18  F153 F155
    5    6   F153 F150 F153 9007 9007                        757.5
    5    6   F155 F150 F155 9003 9003                        758.0
    7 F151   9001 1    F150
   15 F154   F155
    3 F154   F152
    7 F153   9002 1    F152
;THIS IS THE RR SPUR CULVERT
    5    6   D28  U27  D28  529  529                        753.40
    2    2   D28  U27
    2    3   U28  D29  F118
    3  U29   F151
;    5    6   D60  U59  D60  523  523                         756.53  /
;                         524  524                           760.97
;    2    2   U59  D60
    1   28
    7 F118   357  1    F117
    3  U28   F118
    3 F118   D29
    7 F120   363  1    F119
    6    1   F119 1    0                                    0.00
    4    2   F120 -1   F120 362                             766.75
    5    6   D31  F152 D31  930  931                        757.41
    7 F130   373  1    F129
    6    1   F129 1    0                                    0.00
    4    2   F130 -1   F130 372                             800.00
    2    4   F152 D31  F130 F154
    1   31
    7  F20   326  1    F19
    5    6   F20  U31  F20  531  531                        764.00  /
                       532  532                             772.50
    2    3   F20  U31  F120
    7  F24   325  1    F23
    5    6   F24  F19  F24  572  572                        771.26
    2    2   F19  F24
    1   32
    5    6   D32  F23  D32  599  599                        771.84
    7  F22   328  1    F21
    6    1   F21  1    0                                    0.00
    4    2   F22  -1   F22  327                             773.00
    2    3   F22  U32  F28
    3  F28   U32
    6    1   F27  1    0                                    2.0
```

```
   15 F27 F28
    1  34
    5   6 D34 F23 D34 571 571                                772.73
    7 F26 324   1 F25
    5   6 F26 U34 F26 569 569                                774.15 /
                      570 570                                775.30 /
                      561 561                                776.70
    6   1 F25   1   0                                        0.00
    2   3 F23 D34 D32
    3 U34 D35
    2   3 U34 D35 F26
    1  35
    3 U35 D36
    2    2   U35  D36
    1   36
    3  U36   D37
    2    2   U36  D37
    1   37
    5    1   D38  U37  D38  1    294                          1.0    0.3 778.76
    2    2   U37  D38
    1   38
    3  U38   F30
    2    3   U38  F30  F32
    6    1   F29  1    0                                      8.00
   15  F29   F30
    4    2   F32  -1   F32  349                               1000.00
    7  F32   353  1    F31
    6    1   F31  1    0                                      0.0
   -1
BNODE=
SPECIAL OUTPUT LOCATIONS
UNIT=   base2010.hyd
 _BRA NODE IDENTIFICATION
;   0  F38  F38
;   0  F55  F55
;   0  F56  F56
    0  D71  D71
    0  F26  F26
    0  F23  F23
    0  F24  F24
    0F1030  F1030
    0F1031  F1031
    0F1018  F1018
    0F1008  F1008
    0D1025  D1025
    0D1031  D1031
    0F1005  F1005
    0F1009  F1009
    0  F81  F81
    0  F82  F82
    0 F401 F401
    0 F402 F402
    0 F403 F403
    0 F404 F404
    0 F430 F430
    0 F405 F405
    0 F406 F406
    0 F426 F426
    0 F126 F126
    0 F428 F428
    0  U62  U62
    0  D62  D62
    0  U61  U61
    0  F10  F10
    0 F425 F425
    0 F423 F423
    0 F422 F422
```

```
    0 F439 F439
    0 F440 F440
    0 F421 F421
    0 F420 F420
    0 F437 F437
    0 F438 F438
    0  U23  U23
    0  D24  D24
    0  U24  U24
    0  F12  F12
    0  F11  F11
    0 F200 F200
    0  F92  F92
    0 F407  F407
    0 F408  F408
    0  D58  D58
    0  U57  U57
    0  D57  D57
    0  D27  D27
   -1
INPUT FILE SPECIFICATION
 UNIT NAME
   -1
OUTPUT FILE SPECIFICATION
 UNIT  BRA NODE ITEM TYPE NAME
   -1
FUNCTION TABLES
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;TYPE=   -2
;REFL=0.0
; HEADRATIO FLOWRATIO
;       0.0       1.0
;      0.40       1.0
;      1.00       0.0
;     -1.00
; FOLLOWING TABLES ADDED BY CEMCON,LTD. 10/01, 3/02, 7/02
FILE=  \KLNCRK10\CEMCON\REVIEW-3\CEMCON\KUHNNEW3.TAB
FILE=  \KLNCRK10\CEMCON\REVIEW-3\CEMCON\RT64NEW2.TAB
FILE=  \KLNCRK10\CEMCON\REVIEW-3\CEMCON\REVSEC3.TAB
; BASELINE COND. TABLES FOLLOW
FILE=  \KLNCRK10\TAB9\CPWETLND.TAB
FILE=  \KLNCRK10\TAB8\MSSEC.TAB
FILE=  \KLNCRK10\TAB7\T2SEC.TAB
FILE=  \KLNCRK10\TAB\T3SEC.TAB
;TABLE#=  -15d:\FONT_R2\TAB8\MS3b92.TAB
FILE=  \KLNCRK10\TAB8\F92BASE.TAB
FILE=  \KLNCRK10\TAB8\BOXORIF3.TAB
FILE=  \KLNCRK10\TAB7\T2.TAB
FILE=  \KLNCRK10\TAB\T3.TAB
FILE=  \KLNCRK10\TAB6\ONED1.TAB
;FILE=  \KLNCRK10\TAB6\zeroflow.tab
; TABLE#=  -15C:\KLEIN\TAB6\STOR.TAB
FILE=  \KLNCRK10\TAB6\STOR2_July2010.TAB
FILE=  \KLNCRK10\TAB\3940.TAB
FILE=  \KLNCRK10\TAB12\B48INCH2.TAB
FILE=  \KLNCRK10\TAB12\B117x79.TAB
FILE=  \KLNCRK10\TAB12\EATONSTO.TAB
FILE=  \KLNCRK10\TAB12\EATONDIS.TAB
FILE=  \KLNCRK10\TAB13\RDOVERFL.TAB
FILE=  \KLNCRK10\TAB13\P36BYPAS.TAB
FILE=  \KLNCRK10\TAB13\P36IN2.TAB
;FILE=  \KLNCRK10\TAB13\SPILLWY2.TAB
FILE=  \KLNCRK10\TAB13\PDBOX3x7.TAB
FILE=  \KLNCRK10\TAB13\GK_EMANKQ2010.TAB
FILE=  \KLNCRK10\TAB13\P18INCH3.TAB
FILE=  \KLNCRK10\TAB16\PT2SEC2.TAB
;
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;   AS-BUILT FOUNTAIN VIEW ROAD TABLE FILES
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;
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FILE=  \KLNCRK10\FountainView\fequtl\cbbel\asbuilt\embk_as.TAB
FILE=  \KLNCRK10\FountainView\fequtl\cbbel\asbuilt\culvAsbl.TAB
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FILE=  \KLNCRK10\FountainView\tables\9207p87\baseline\eSchool.sto
FILE=  \KLNCRK10\FountainView\tables\9207p87\baseline\BurkN.sto
FILE=  \KLNCRK10\FountainView\tables\9207p87\baseline\arSouth.sto
;TABLE#=  -15\FONT_R2\tables\9207p87\baseline\wland_ex.sto
;TABLE#=  -15\FountainView\FONT_R2\tables\9207p87\baseline\arn_ex.sto
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;TABLE#=  -15\FONT_R2\tables\9207p87\baseline\ogap_ex.sto
;
FILE=  \KLNCRK10\FountainView\tables\9207p87\baseline\eSch_ol.tab
FILE=  \KLNCRK10\FountainView\tables\9207p87\baseline\wSch_ol.tab
FILE=  \KLNCRK10\FountainView\tables\9207p87\baseline\BurkN_ol.tab
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;TABLE#=  -15\FONT_R2\fequtl\9207p87\baseline\arnEx_ol.tab
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;
FILE=  \KLNCRK10\FountainView\tables\9207p87\proposed\arN_pr.sto
;TABLE#=  -15\FountainView\FONT_R2\tables\9207p87\proposed\wland_pr.sto
;TABLE#=  -15\FountainView\FONT_R2\tables\9207p87\proposed\ogap_pr.sto
FILE=  \KLNCRK10\FountainView\tables\9207p87\proposed\PondA.sto
FILE=  \KLNCRK10\FountainView\tables\9207p87\proposed\PondB.sto
;TABLE#=  -15\FountainView\FONT_R2\tables\9207p87\proposed\PondC.sto
;TABLE#=  -15\FountainView\FONT_R2\tables\9207p87\proposed\CompS.sto
FILE=  \KLNCRK10\FountainView\tables\9207p87\proposed\6ft_mh.sto
;
;TABLE#=  -15\FONT_R2\fequtl\9207p87\proposed\arnPr_ol.TAB
;TABLE#=  -15\FONT_R2\fequtl\9207p87\proposed\wlPrE_ol.TAB
;TABLE#=  -15\FONT_R2\fequtl\9207p87\proposed\wlMH_ol.TAB
;TABLE#=  -15\FONT_R2\fequtl\9207p87\proposed\pondA_ol.TAB
;TABLE#=  -15\FONT_R2\fequtl\9207p87\proposed\pondB_ol.TAB
;TABLE#=  -15\FONT_R2\fequtl\9207p87\proposed\pondC_ol.TAB
FILE=  \KLNCRK10\FountainView\tables\9207p87\proposed\comSA_ol.TAB
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FILE=  \KLNCRK10\FountainView\tables\9207p87\CGLPR2\OGA.STO
FILE=  \KLNCRK10\FountainView\tables\9207p87\CGLPR2\BASC.STO
FILE=  \KLNCRK10\FountainView\tables\9207p87\CGLPR2\SECOMP.STO
FILE=  \KLNCRK10\FountainView\tables\9207p87\CGLPR2\CORNER.STO
FILE=  \KLNCRK10\FountainView\tables\9207p87\CGLPR2\WLAND.STO
FILE=  \KLNCRK10\FountainView\tables\9207p87\CGLPR2\CompS.STO
;
FILE=  \KLNCRK10\FountainView\tables\9207p87\CGLPR2\SECOMP.TAB
FILE=  \KLNCRK10\FountainView\tables\9207p87\CGLPR2\CORNER.TAB
FILE=  \KLNCRK10\FountainView\tables\9207p87\CGLPR2\WLAND.TAB
FILE=  \KLNCRK10\FountainView\tables\9207p87\CGLPR2\arnPr_ol.TAB
FILE=  \KLNCRK10\FountainView\tables\9207p87\CGLPR2\wlMH_ol.TAB
FILE=  \KLNCRK10\FountainView\tables\9207p87\CGLPR2\pondA_ol.TAB
FILE=  \KLNCRK10\FountainView\tables\9207p87\CGLPR2\pondB_ol.TAB
FILE=  \KLNCRK10\FountainView\tables\9207p87\CGLPR2\pondC_ol.TAB
;
;TRIBUTARY 3 HEADWATERS TABLES
;
;FILE=  \KLNCRK10\TAB12\REV\EMBANK_JULY2010.TAB
FILE=  \KLNCRK10\TAB12\EMBANK_JULY2010.TAB
FILE=  \KLNCRK10\TAB12\ORIFICE_JULY2010.TAB
FILE=  \KLNCRK10\TAB12\CULVERT_JULY2010.TAB
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;
;  TABLES FOR LENZ PARK
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; BELOW FILE, PB180XS.TAB, IS THE SAME AS \KLNCRK10\TAB8\MSSEC.TAB
;FILE=  \KLNCRK10\LENZPK\bridges\feq\PB180XS.TAB
FILE=  \KLNCRK10\LENZPK\bridges\fequtl\B2.TAB
FILE=  \KLNCRK10\LENZPK\bridges\fequtl\B1.TAB
FILE=  \KLNCRK10\LENZPK\bridges\fequtl\BR1DCHN.TAB
FILE=  \KLNCRK10\LENZPK\bridges\fequtl\100B2ACH.TAB
FILE=  \KLNCRK10\LENZPK\LPEX_XS.TAB
;
FILE=  \KLNCRK10\LENZPK\SWPOND\FEQUTL\SWWEIR.TAB
FILE=  \KLNCRK10\LENZPK\LPDPIPE4.TAB
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;
; 250 Kehoe Improvements
;
FILE=  \KLNCRK10\250Kehoe\9207p109\proposed\xs_pr.tab
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;
;TRIBUTARY 1 TABLES
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FILE=  \KLNCRK10\Trib1\STGSTOR.WP
FILE=  \KLNCRK10\Trib1\CULVFIN.TAB
FILE=  \KLNCRK10\Trib1\SEWER.TAB
FILE=  \KLNCRK10\Trib1\MISC1D.TAB
FILE=  \KLNCRK10\Trib1\EXPCON.TAB
FILE=  \KLNCRK10\Trib1\CHANRAT.TAB
FILE=  \KLNCRK10\Trib1\EMBANK.TAB
FILE=  \KLNCRK10\Trib1\TRIB1.tab
FILE=  \KLNCRK10\Trib1\XSECS.TAB
FILE=  \KLNCRK10\Trib1\SEWERGAG.TAB
FILE=  \KLNCRK10\Trib1\STG-GAG.TAB
FILE=  \KLNCRK10\Trib1\ORIFICE.TAB
FILE=  \KLNCRK10\Trib1\CLOWXSN.TAB
FILE=  \KLNCRK10\Trib1\CLOW.TAB
FILE=  \KLNCRK10\Trib1\CULVERT.TAB
TABID=    -1
;
FREE NODE INITIAL CONDITIONS
 NODE_      NAME      DEPTH DISCHARGE ELEVATION
   F1  OFLAKEGE     742.00      0.00       .00
   F2  OFLAKEGE     742.00      0.00       .00
   F3  OFGARYKE     754.38      0.00       .00
   F4  OFGARYKE     754.38      0.00       .00
   F7  LAKEGEOR     742.00      0.00       .00
   F8  LAKEGEOR     742.00      0.00       .00
   F9  LRBASN71     752.00      0.00       .00
  F10  LRBASN71     752.00      0.00       .00
  F11  OLDGPOND     747.25     20.00       .00
; F12  OLDGPOND     748.92     20.00       .00
  F12  OLDGPOND     747.25     20.00       .00
;  F13  OFGARYMS       2.02      0.00    746.90
;  F14  OFGARYMS       2.02      0.00    746.90
  F15  NHOFCC&P     757.90      0.00       .00
  F16  NHOFCC&P     757.90      0.00       .00
  F17  MSADEVEL     771.00      0.00       .00
  F18  MSADEVEL     771.00      0.00       .00
  F19  MILLWETL     764.63      3.00       .00
  F20  MILLWETL     764.63      3.00       .00
  F21  SEIMSPND     773.00      0.00       .00
  F22  SEIMSPND     773.00      0.00       .00
; F23  MILLPOND     772.86      3.00       .00
  F23  MILLPOND     772.86      4.50       .00
```

```
  F24  MILLPOND     772.86      3.00       .00
  F25  WWSUBDIV     774.15      0.00       .00
  F26  WWSUBDIV     774.15      0.00       .00
  F27  FIXQNODE     772.90      2.00       .00
  F28  FIXQNODE     772.90      2.00       .00
;  F29  FIXQNODE     781.84      2.50       .00
  F29  FIXQNODE     781.84      8.00       .00
  F30  FIXQNODE     781.84      2.50       .00
  F31  LRHESTER    1000.00      0.00       .00
  F32  LRHESTER    1000.00      0.00       .00
  F33  CAROLPT2     760.00      0.00       .00
  F34  CAROLPT2     760.00      0.00       .00
  F35  GREENWOF     742.70      0.00       .00
  F36  GREENWOF     742.70      0.00       .00
  F37  U/SCNTFM    1000.00      0.00       .00
  F38  U/SCNTFM    1000.00      0.00       .00
  F39  DETWOFKI     770.50      2.00       .00
  F40  DETWOFKI     770.50      0.00       .00
  F41  MH212DM1     749.86      9.00       .00
  F42  MH212DM1     749.86      9.00       .00
  F43  MH212DM2     749.86      0.00       .00
  F44  MH212DM2     749.86      0.00       .00
  F45  LRUSGRWY    1000.00      0.00       .00
  F46  LRUSGRWY    1000.00      0.00       .00
  F47  LRUSGYKE    1000.05      0.50       .00
  F48  LRUSGYKE    1000.05      0.50       .00
; F51  GARYKEHO     749.70      0.00       .00
  F51  GARYKEHO     747.00      0.00       .00
  F52  GARYKEHO     747.00      0.00       .00
  F53  EX36INCH     753.03      9.00       .00
  F54  EX36INCH     753.03      9.00       .00
  F55  STPAULWT     761.60      0.00       .00
  F56  STPAULWT     761.60      0.00       .00
  F57  STPAULET     778.00      0.00       .00
  F58  STPAULET     778.00      0.00       .00
  F59  FIXQNODE       0.68      8.00    779.96
  F60  FIXQNODE       0.68      8.00    779.96
  F61  GHBNPARK     785.00      0.00       .00
  F62  GHBNPARK     785.00      0.00       .00
  F63  GHGOLFCR     790.50      1.00       .00
  F64  GHGOLFCR     790.50      0.00       .00
  F65  WTLNDIFL     753.18      0.00       .00
  F66  WTLNDIFL     753.18      0.00       .00
  F69  STRFDSQW     757.27      1.00       .00
  F70  STRFDSQW     757.27      0.00       .00
  F71  STRFDSQM     760.16      1.00       .00
  F72  STRFDSQM     760.16      1.00       .00
  F73  STRFDSQE     768.52      1.00       .00
  F74  STRFDSQE     768.52      1.00       .00
  F75  LIFEFITN     760.00      0.00       .00
  F76  LIFEFITN     760.00      0.00       .00
 F407  LFOVERFL     765.22      0.00       .00
 F408  LFOVERFL     765.22      0.00       .00
  F77  COVINGTN     763.00      1.00       .00
  F78  COVINGTN     763.00      0.00       .00
;  F79  FIXQNODE       0.83     10.00    765.11
;  F80  FIXQNODE       0.83     10.00    765.11
  F81  MALRDLKE     774.26      0.00       .00
  F82  MALRDLKE     774.26      0.00       .00
 F401  MLLDOVFL     769.50      10.0       .00
 F402  MLLDOVFL     769.50      10.0       .00
  F83  ARMSTPRK     741.00      0.00       .00
  F84  ARMSTPRK     741.00      0.00       .00
  F85  LKGEOARM     742.00      0.00       .00
  F86  LKGEOARM     742.00      0.00       .00
  F87  GREENDET     742.70      0.00       .00
  F88  GREENDET     742.70      0.00       .00
```

```
  F89  KEHODTCH     753.18      8.00       .00
  F90  KEHODTCH     753.18      8.00       .00
  F91  HOMEBASE     748.00     20.00       .00
  F92  HOMEBASE     748.00     20.00       .00
  F93  HEATHROW     745.00      0.00       .00
  F94  HEATHROW     745.00      0.00       .00
  F95  WWTPRESV     739.00      0.00       .00
  F96  WWTPRESV     739.00      0.00       .00
  F97  WWTPREOF     740.29      0.00       .00
  F98  WWTPREOF     740.29      0.00       .00
 F100  FIXNODT1       0.63      4.00    720.92
 F101  FIXNODT1       0.63      4.00    720.92
 F102  TIMBRRDG     725.49      1.00       .00
 F103  TIMBRRDG     725.49      0.00       .00
; F104  CONNAT39       1.00      1.00    718.33
; F105  CONNAT39       1.00      1.00    718.33
; F106  CONNATU6       1.72      1.00    715.08
; F107  CONNATU6       1.72      1.00    715.08
 F108  CONNATU6       1.68      1.00    728.20
 F109  CONNATU6       1.68      0.00    728.20
 F115  BA1NOFRR     765.00      0.00       .00
 F116  BA1NOFRR     765.00      0.00       .00
 F117  BA3NOFRR     757.59      0.00       .00
 F118  BA3NOFRR     757.59      6.0       .00
 F119  CAROLPT3     766.75      0.00       .00
 F120  CAROLPT3     766.75      0.00       .00
 F121  LOWESB60     768.84      0.00       .00
 F122  LOWESB60     768.84      0.00       .00
 F432  DUMMYBRA     768.84      0.00       .00
 F433  DUMMYBRA     768.84      0.00       .00
 F123  COSTCO61     769.99      0.00       .00
 F124  COSTCO61     769.99      0.00       .00
 F435  DUMMYBRA     769.99      0.00       .00
 F436  DUMMYBRA     769.99      0.00       .00
 F125  WOFMALLD     766.50      10.0       .00
 F126  WOFMALLD     766.50      10.0       .00
 F428  DUMMYBRA     766.00      10.0       .00
 F429  DUMMYBRA     766.00      0.00       .00
; F127  FUTDET24     800.00      0.00       .00
; F128  FUTDET24     800.00      0.00       .00
 F129  FUTDET75     800.00      0.00       .00
 F130  FUTDET75     800.00      0.00       .00
; F131  FUTDET76     800.00      0.00       .00
; F132  FUTDET76     800.00      0.00       .00
 F135  MH212DM3     749.86      9.00       .00
 F136  MH212DM3     749.86      10.0       .00
 F137  MH210DMY     752.17      9.00       .00
 F138  MH210DMY     752.17      9.00       .00
 F145  36INBYPS     753.18      9.00       .00
 F146  36INBYPS     753.18      9.00       .00
 F147  BYPSDTCH     753.18      1.00       .00
 F148  BYPSDTCH     753.18      1.00       .00
 F150  CPWETLND     757.00      3.00       .00
;F151  CPWETLND     757.00      3.00       .00
;F151  CPWETLND     757.00      4.00       .00
 F151  CPWETLND     757.04      4.00       .00
 F152  CPWETLND     758.00      3.00       .00
 F153  CPWETLND     758.00      3.00       .00
 F154  CPWETOVF     758.00      0.00       .00
 F155  CPWETOVF     758.00      0.00       .00
 F157  EATONFLW    1000.50      0.50       .00
 F158  EATONFLW    1000.50      0.50       .00
 F159  PDROPBOX     755.75      1.00       .00
 F160  PDROPBOX     755.75      1.00       .00
;
;FOUNTAIN VIEW
;
```

```
 F161  WETLAND      750.41      0.00       .00
 F162  WETLAND      750.41      0.00       .00
 F163  WETLOL       750.41      0.00       .00
 F164  WETLOL       750.41      0.00       .00
 F165  WETLOL       748.40      0.00       .00
 F166  WETLOL       748.40      0.00       .00
 F167  TOWINDUS     761.00      0.00       .00
 F168  TOWINDUS     761.00      0.00       .00
 F169  AUTRIDN      755.50      0.00       .00
 F170  AUTRIDN      755.50      0.00       .00
 F171  AUTRIDS      755.80      0.00       .00
 F172  AUTRIDS      755.80      0.00       .00
 F173  BURKN        776.26      0.00       .00
 F174  BURKN        776.26      0.00       .00
 F175  ESCHOOL      780.95      0.00       .00
 F176  ESCHOOL      780.95      0.00       .00
 F177  WSCHOOL      783.27      0.00       .00
 F178  WSCHOOL      783.27      0.00       .00
 F179  BURKS        767.33      0.00       .00
 F180  BURKS        767.33      0.00       .00
 F181  BURKSOL      741.92      0.00       .00
 F182  BURKSOL      741.92      0.00       .00
 F183  PONDA        751.40      0.00       .00
 F184  PONDA        751.40      0.00       .00
 F185  PONDB        754.00      0.00       .00
 F186  PONDB        754.00      0.00       .00
 F189  COMPSTO      747.50      0.00       .00
 F190  COMPSTO      747.50      0.00       .00
 F191  PONDAOL      748.92      0.00       .00
 F192  PONDAOL      748.92      0.00       .00
 F193  PONDBOL      748.92      0.00       .00
 F194  PONDBOL      748.92      0.00       .00
 F195  CORNROL      748.92      0.00       .00
 F196  CORNROL      748.92      0.00       .00
 F197  COMPSOL      748.92      0.00       .00
 F198  COMPSOL      748.92      0.00       .00
 F199  CONNECT      748.92      0.00       .00
 F200  CONNECT      748.92      0.00       .00
 F201  BURKSOL      755.80      0.00       .00
 F202  BURKSOL      755.80      0.00       .00
 F203  BURKSOL      749.20      0.00       .00
 F204  BURKSOL      749.20      0.00       .00
 F205  PONDC        751.00      0.00       .00
; F206  PONDC        751.00      0.00       .00
 F206  PONDC        750.41      0.00       .00
 F207  COMPSE       748.80      0.00       .00
 F208  COMPSE       748.80      0.00       .00
 F209  CORNER       748.92      0.00       .00
 F210  CORNER       748.92      0.00       .00
 F211  CONNECT      752.70      0.00       .00
 F212  CONNECT      752.70      0.00       .00
 F213  CONNECT      749.20      0.00       .00
 F214  CONNECT      749.20      0.00       .00
 F215  CONNECT      749.20      0.00       .00
 F216  CONNECT      749.20      0.00       .00
 F403  DSMALLD      769.20      10.0       .00
 F404  DSMALLD      769.20      10.0       .00
 F430  DUMMYBRA     767.00      10.0       .00
 F431  DUMMYBRA     767.00      10.0       .00
 F405  EOFMLLD      765.00      0.00       .00
 F406  EOFMLLD      765.00      0.00       .00
 F426  DUMMYBRA     765.00      0.00       .00
 F427  DUMMYBRA     765.00      0.00       .00
;
;LENZ PARK SW POND
;
 F409  LPSWPOND     737.55      10.0       .00
```

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 F410  LPSWPOND     737.55      0.00       .00
 F411  LPSWWEIR    736.904      0.00       .00
 F412  LPSWWEIR    736.904      0.00       .00
 F413  LPDPIPE     736.904      0.00       .00
 F414  LPDPIPE     736.904      0.00       .00
 F415  LPDPIPE     736.904      0.00       .00
 F416  LPDPIPE     736.904      0.00       .00
;
; FOUNTAIN VIEW PER CBBEL PLANS
;
 F425  JNCTBX      749.85       0.00       .00
 F424  JNCTBX      749.85       0.00       .00
 F423  48INCH      746.25       0.00       .00
 F422  48-INCH     746.25       0.00       .00
 F421  48-INCH2    749.25       0.00       .00
 F420  48-INCH2    749.25       0.00       .00
 F437  DUMMYBRA    746.75       0.00       .00
 F438  DUMMYBRA    746.75       0.00       .00
 F439  DUMMYBRA    746.25       0.00       .00
 F440  DUMMYBRA    746.25       0.00       .00
;
;TRIB 1
 F1001 T1WETLR     770.16      1.00       .00
 F1002 T1WETLF     770.16      1.00       .00
 F1003 T1PARKR     769.48      1.00       .00
 F1004 T1PARKF     769.48      1.00       .00
 F1005 T1GAGPR     764.00      3.00       .00
 F1006 T1GAGPF     764.00      3.00       .00
 F1007 T1INFLU     764.00      0.00       .00
 F1008 T1INFLD     764.00      0.00       .00
 F1009 T1PUMPU     764.00      3.00       .00
 F1010 T1PUMPD     764.00      2.00       .00
 F1011 T1GARYR     766.40      0.00       .00
 F1012 T1GARYF     766.40      0.00       .00
 F1013 T1OVERU     765.50      0.00       .00
 F1014 T1OVERD     765.50      0.00       .00
 F1015 T1WTOVU     769.48      0.00       .00
 F1016 T1WTOVD     769.48      0.00       .00
 F1017 T1NPOVU     764.00      0.00       .00
 F1018 T1NPOVD     764.00      0.00       .00
 F1030 T1TILED     700.00      1.50       .00
 F1031 T1TILEU     700.00      2.00       .00
 F1032 T1BSFLW     758.00      1.50       .00
 F1033 T1BSFLW     758.00      4.00       .00
 F1034 T1OVERL       1.36      0.00    735.87
 F1035 T1OVERL       1.36      0.00    735.87
 F1036 T1CNTYF       1.97      0.00    731.81
 F1037 T1CNTYF       1.97      0.00    731.81
 F1038 TIMB_IN     719.08      6.00       .00
 F1039 TIMB_RES    719.08      4.00       .00
;F1040 PP-LINR    1000.00      0.00       .00
;F1041 PP-LINR    1000.00      0.00       .00
;F1042 PP-TIMIN    725.49      0.00       .00
;F1043 PP-TIMRV    725.49      0.00       .00
;F1044 PP-BSFLW      0.63      4.00    720.92
;F1045 PP-BSFLW      0.63      4.00    720.92
 F1046 PPTIMBS     719.08      0.00       .00
 F1047 PPTIMBS     719.08      0.00       .00
 F1130 T1INPDM     764.00      0.00      0.00
 F1131 T1RESVM     764.00      0.00      0.00
 F1132 T1INPNO     758.10      3.00      0.00
 F1133 T1RSVNO     758.10      3.00      0.00
 F1134 T1UINLT     758.10      3.00      0.00
 F1135 T1DINLT     758.10      3.00      0.00
 F1136 T1INPDA     757.00      3.00      0.00
 F1137 T1RESVA     757.00      3.00      0.00
 F1138 T1INPDB     752.50      3.00      0.00
```

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 F1139 T1RESVB     752.50      3.00      0.00
 F1140 T1INPDC     748.00      3.00      0.00
 F1141 T1RESVC     748.00      3.00      0.00
 F1142 T1RESCU     748.00      3.00      0.00
 F1143 T1RESCD     748.00      3.00      0.00
 F1144 T1BASFU     748.00      3.00      0.00
 F1145 T1BASFD     748.00      3.00      0.00
 F1200 TAINPDD     745.00      0.00      0.00
 F1201 TARESVD     745.00      0.00      0.00
 F1202 TAINPDE     745.00      1.00      0.00
 F1203 TARESVE     745.00      1.00      0.00
 F1204 TAINPDF     741.50      1.00      0.00
 F1205 TARESVF     741.50      1.00      0.00
 F1206 TAINPDG     734.50      1.00      0.00
 F1207 TARESVG     734.50      0.00      0.00
 F1208 TAINPDH     752.00      1.00      0.00
 F1209 TARESVH     752.00      1.00      0.00
 F1210 TAINPDI     752.00      1.00      0.00
 F1211 TARESVI     752.00      1.00      0.00
 F1212 TAINPDK     754.50      2.00      0.00
 F1213 TARESVK     754.50      1.00      0.00
 F1214 T1INPDL     767.00      0.00      0.00
 F1215 T1RESVL     767.00      0.00      0.00
 F1218 TAINPDJ     755.00      0.00      0.00
 F1219 TARESVJ     755.00      0.00      0.00
BACKWATER ANALYSIS
BRANCH NUMBER=   -1
DISCHARGE=  75.
BRANCH NUMBER=   -2
DISCHARGE=  37.
BRANCH NUMBER=   -3
DISCHARGE=  38.
BRANCH NUMBER=   -4
DISCHARGE=  30.
BRANCH NUMBER=   -5
DISCHARGE=  30.
BRANCH NUMBER=   -6
DISCHARGE=  30.
BRANCH NUMBER=   -7
DISCHARGE=  30.
;BRANCH NUMBER=   -8
;DISCHARGE=  30.
BRANCH NUMBER=   -9
DISCHARGE=  30.
;BRANCH NUMBER=  -10
;DISCHARGE=  30.
BRANCH NUMBER=  -12
DISCHARGE=  30.
BRANCH NUMBER=  -13
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BRANCH NUMBER=  -14
DISCHARGE=  30.
BRANCH NUMBER=  -15
DISCHARGE=  30.
BRANCH NUMBER=  -16
DISCHARGE=  20.
BRANCH NUMBER=  -17
DISCHARGE=  20.
BRANCH NUMBER=  -18
DISCHARGE=  20.
BRANCH NUMBER=  -19
DISCHARGE=  20.
BRANCH NUMBER=  -20
DISCHARGE=  20.
BRANCH NUMBER=  -21
DISCHARGE=  20.
BRANCH NUMBER=  -22
```

```
DISCHARGE=  20.
BRANCH NUMBER=  -23
DISCHARGE=  20.
BRANCH NUMBER=  -24
DISCHARGE=  20.
;BRANCH NUMBER=  -25
;DISCHARGE=  20.
BRANCH NUMBER=  -27
DISCHARGE=   10.
BRANCH NUMBER=  -28
DISCHARGE=   10.
BRANCH NUMBER=  -29
DISCHARGE=   4.
BRANCH NUMBER=  -31
DISCHARGE=   3.
BRANCH NUMBER=  -32
DISCHARGE=   2.
BRANCH NUMBER=  -34
DISCHARGE=   2.5
BRANCH NUMBER=  -35
DISCHARGE=   2.5
BRANCH NUMBER=  -36
DISCHARGE=   2.5
BRANCH NUMBER=  -37
DISCHARGE=   2.5
BRANCH NUMBER=  -38
DISCHARGE=   2.5
BRANCH NUMBER=  -39
DISCHARGE=   4.
BRANCH NUMBER=  -40
DISCHARGE=   4.
BRANCH NUMBER=  -44
DISCHARGE=  30.
BRANCH NUMBER=  -51
DISCHARGE=  10.
BRANCH NUMBER=  -52
DISCHARGE=  10.
BRANCH NUMBER=  -53
DISCHARGE=  10.
BRANCH NUMBER=  -54
DISCHARGE=  10.
BRANCH NUMBER=  -55
DISCHARGE=  8.
;BRANCH NUMBER=  -55
;DISCHARGE=   8.
BRANCH NUMBER=  -56
DISCHARGE=  8.
BRANCH NUMBER=  -57
DISCHARGE=  10.
BRANCH NUMBER=  -58
DISCHARGE=  10.
BRANCH NUMBER=  -59
DISCHARGE=  10.
BRANCH NUMBER=  -60
DISCHARGE=  10.
BRANCH NUMBER=  -61
DISCHARGE=  10.
BRANCH NUMBER=  -62
DISCHARGE=  10.
BRANCH NUMBER=  -68
DISCHARGE=  8.
BRANCH NUMBER=  -71
DISCHARGE=  1.
BRANCH NUMBER=  -80
DISCHARGE=  30.
BRANCH NUMBER=  -81
DISCHARGE=  30.
```

```
BRANCH NUMBER=  -82
DISCHARGE=  30.
BRANCH NUMBER=  -83
DISCHARGE=  30.
BRANCH NUMBER= -123
DISCHARGE=  20.
BRANCH NUMBER= -155
DISCHARGE=   8.
BRANCH NUMBER= -255
DISCHARGE=   8.
BRANCH NUMBER= -601
DISCHARGE=  10.
; TRIB 1 BRANCHES
;BRANCH NUMBER=   -1001
;DISCHARGE=  29.
;BRANCH NUMBER=   -1002
;DISCHARGE=  29.
;BRANCH NUMBER=   -1003
;DISCHARGE=  29.
;BRANCH NUMBER=   -1004
;DISCHARGE=  29.
;BRANCH NUMBER=   -1005
;DISCHARGE=  29.
;BRANCH NUMBER=   -1006
;DISCHARGE=  29.
;BRANCH NUMBER=   -1007
;DISCHARGE=  30.
;BRANCH NUMBER=   -1008
;DISCHARGE=  30.
;BRANCH NUMBER=   -1009
;DISCHARGE=  30.
;BRANCH NUMBER=  -1010
;DISCHARGE=  40.
;BRANCH NUMBER=  -1011
;DISCHARGE=  37.
;BRANCH NUMBER=  -1012
;DISCHARGE=  77.
;BRANCH NUMBER=-1120
;DISCHARGE=  0.0
BRANCH NUMBER=-1020
DISCHARGE=   1.
BRANCH NUMBER=-1021
DISCHARGE=   1.
BRANCH NUMBER=-1022
DISCHARGE=   1.
BRANCH NUMBER=-1023
DISCHARGE=   1.
BRANCH NUMBER=-1024
DISCHARGE=   1.
BRANCH NUMBER=-1025
DISCHARGE=   1.
BRANCH NUMBER=-1026
DISCHARGE=   2.
BRANCH NUMBER=-1027
DISCHARGE=   2.
BRANCH NUMBER=-1028
DISCHARGE=   2.
BRANCH NUMBER=-1029
DISCHARGE=   2.
BRANCH NUMBER=-1030
DISCHARGE=   2.
BRANCH NUMBER=-1031
DISCHARGE=   2.
BRANCH NUMBER=-1032
DISCHARGE=   2.
BRANCH NUMBER=-1033
DISCHARGE=  1.5
```

```
BRANCH NUMBER=-1034
DISCHARGE=   6.
BRANCH NUMBER=-1035
DISCHARGE=   6.
BRANCH NUMBER=-1036
DISCHARGE=   6.
BRANCH NUMBER=-1037
DISCHARGE=   6.
BRANCH NUMBER=-1038
DISCHARGE=   6.
BRANCH NUMBER=-1039
DISCHARGE=   6.
;BRANCH NUMBER=  -1040
;DISCHARGE=   4.
;BRANCH NUMBER=  -1041
;DISCHARGE=   4.
BRANCH NUMBER=-1121
DISCHARGE=  2.0
  BRA CODE ELEVATION _EXN#
    1    3    712.45
    2                  U1
    3                  D2
    4                  U3
    5                  U4
    6                  U5
   44                  U6
    7                 U44
;    8                  U7
;    9    1    740.0
    9    1    739.53
;   10         0.4     U8
   80          0.09    U7
   81          0.02   U80
   82          0.29   U81
   83          0.01   U82
   12                 U83
   13          0.24   U12
   14                  U9
   15          0.06   U14
   16                 U15
   17                 U16
   18                 U17
   19    1    742.80
   20                 U19
   21          1.78   U20
   22                 U21
   23    1    746.13
;   23    6    746.3  U123
  123    1    746.10
   24           0.25  U23
;   25    5    749.08  F12
   27    1    753.23
   28           0.54  U27
   29                 U28
   31    2    758.28
   32    1    773.00
   34    1    772.92
   35                 U34
   36                 U35
   37                 U36
   38    2    779.21
   39                  D4
   40                 U39
   51                 D16
   52           0.71  U51
   53           0.07  U52
   54           0.79  U53
```

```
;   55                 U68
;   68                 F89
   68    2    754.18
   55                 U68
  155                 U55
  255                U155
;
    0  F56           U255
    0  F55            F56
    0  F58           U255
    0  F57            F58
;
   56    5    762.33 U255
;   56    5    762.33  U55
   57    1    750.96
   58    1    753.46
   59    1    754.94
   60    1    757.63
   61    1    763.00
  601    1    762.95
   62           0.00  U61
;  62           0.06  U61
;   71    5    755.75 F159
   71    2    755.75
;
    0 F408            U57
    0 F407           F408
    0  F76           F407
    0  F75            F76
;
    0  F78            U57
    0  F77            F78
;
    0 F407            F76
    0 F408           F407
;
    0 F427            U62
    0 F426           F427
    0 F406           F426
    0 F405           F406
;
    0 F431            U62
    0 F430           F431
    0 F404           F430
    0 F403           F404
    0 F402           F403
    0 F401           F402
;dto
;    0  F82           F401
;    0  F81            F82
;
    0 F429            U62
    0 F428           F429
    0 F126           F428
    0 F125           F426
;
    0 F423            U23
    0 F422           F423
;    0  F10           F424
    0 F438            U24
    0 F437           F438
    0 F420           F437
    0 F421           F420
    0 F425           F420
    0 F424           F425
    0   F2             F8
    0   F3            D55
```

```
    0   F4             F3
    0 F136            U54
    0 F135           F136
    0  F42           F135
    0  F41            F42
    0  F44           F135
    0  F43            F44
    0 F138            F41
    0 F137           F138
;    0  F65           F145
;    0  F66            F65
;    0  F90           F145
;    0  F89            F90
;    0 F148           F145
;    0 F147           F148
;    0  F60            U56
;    0  F59            F60
    0  F12            U24
;    0  F11            F12
;    0  F92            F11
;    0  F13            F14
;    0 F154           F153
;    0 F155           F154
;    0  F80            U62
;    0  F79            F80
;    0  F28            U32
;    0  F27            F28
;    0  F30            U38
;    0  F29            F30
    0  F54           F137
    0  F53            F54
;    0  F85             F8
;    0  F86            F85
;    0  F97            F95
;    0  F98            F97
;    0  F35            F88
;    0  F36            F35
    0 F109             U6
    0 F108           F109
;    0 F107             D4
;    0 F106           F107
;    0 F105            U39
;    0 F104           F105
    0 F101            U40
    0 F100           F101
;
    0 F103            U40
    0 F102           F103
;   0  F38            U40
;   0  F37            F38
;
    0 F118            U28
    0 F117           F118
; TRIB 1
; 1012    3    712.45
; 1011                U12
; 1010                U12
; 1009                U10
; 1008                 U9
; 1007    1    727.97
; 1006                 U7
; 1005                 U6
; 1004                 U5
; 1003    1    733.87
; 1002    1    735.06
; 1001                 U2
; 1120                 U7
```

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 1121    1    754.50
 1039    1    721.97
 1038    1    733.78
 1037    1    735.07
 1036    1    737.23
 1035    1    742.41
 1034               U1035
 1033    1    759.10
 1032               U1033
; 1041                   D9
; 1040                  U41
 1031    6   767.40 F1006
 1030               U1031
 1029    6   769.50 U1030
 1028    6   769.50 U1029
 1027    6   770.00 U1028
 1026    6   770.50 U1027
 1025    2   766.00
 1024    6   768.50 U1025
 1023    6   769.00 U1024
 1022    2   769.50
 1021    6   770.00 U1022
 1020    6   770.00 U1021
   0 F1134          F1133
   0 F1135          F1134
   -1
```

Appendix 2

```
KLEIN CREEK,"PRO3CPW.DET"REFINE CAROL PT.WETLAND STORAGE MODEL(ADD BEAVER DAM)
PROPOSED CONDITION MODEL- P1 INC., GARY/KEHO RES. (PTSF'S OFF)
06/21/94(REV. 6/96 WJW,FUT DET IN 24,60,61,62,75&76).[SEE \TAB9\CPWETLND.TAB]
;Current Model = BCPALT1d.DET
;Revise pcpalt1d.det to take out project at Carol Point
;Existing landuse for 10.5 acres of S. Nardi Parcel
;4.0 acres of F52 goes to F48 w/ existing condition on S. Nardi Parcel
* RENAMED BCALT1D.DET TO [BLSTS.INP] FOR PROJECT ANALYSIS - CEMCON,LTD. 10/01
* STS FILE RUNNING UNDER FEQ V7.24
* MODIFIED BASELINE CONDITION [MODBL.INP] BY CEMCON,LTD. 10/15/01, REV. 3/02, 7/02
; CBBEL 8/1/2002 MY
;       Revised Spillway 1 culvert (Tab# 587)
;       Revised Overflow Tables 588 and 805 (Change to Tab# 1588)
;
;
; WBK/CBBEL Watershed Plan Update 2010
;
;       FOUNTAINS AT TOWN CENTER USED AS BASELINE FOR UPDATE
;       CGL 10/14/04 RSL
;       PROPOSED COND 1
;
;       FOUNTAIN ROAD AS-BUILT FROM 2009 INCORPORATED INTO MODEL
;
;       LENZ PARK FROM 2003 INCORPORATED INTO MODEL
;       BRANCHES 80-83 REPLACE 10 AND 8
;       PEDESTRIAN BRIDGES INCLUDED IN MODEL
;
;       FIRE STATION WORK FROM STS JULY 2002
;       NEW KUHN ROAD AND NORTH AVENUE CULVERTS
;
;       KEHOE ROAD CULVERTS ADDED TO MODEL
;
;       FUTURE DETENTION BASINS ON TRIB 3 ADDED IN PER AS-BUILT SURVEY 2010
;       SUBBASINS 60,61,62 SPLIT UP TO MODEL DETENTION BASINS EXPLICITLY
;       LOWES, COSTCO, ETC
;
;       MALLARD LAKE OUTLET RE-MODELED PER AS-BUILT SURVEY  2010
;
;       LIFETIME FITNESS PONDS MODELED EXPLICITLY PER AS-BUILT SURVEY 2010
;
;       STRATFORD SQUARE PONDS 1 AND 2 ADDED PER AS-BUILT PLANS
;
;       REMOVED BRANCH 25 GARY AVENUE CULVERTS AND REPLACED WITH 5-6 PER COUNTY PLANS
;
;       ADDED CAROL POINT #2 OUTLET AND FOUNTAINS STORM SEWER INFORMATION
;
;       TRIBUARY #1 ADDED TO THE MODEL FROM PREVIOUS STUDY
;
;       NEW RUN CONTROL BLOCK FOR VERSION 10.6 AND CURRENT COUNTY BLOCK
;
;       PROPOSED CONDITIONS 6C WITH ARMSTRONG PARK PUMPED STORAGE AND SIPHON PIPE
;
RUN CONTROL BLOCK
NBRA=00052
;NEX=00258
;NEX=00280
NEX=00292
SOPER=NO
POINT=NO
;DIFFUS=YES 1
DIFFUS=YES
WIND=NO
UNDERFLOW=NO
ZL=0.0
STIME=1925/01/01:0.0
;STIME=1954/ 9/10:0.0
;STIME=1954/ 2/25:0.0
```

```
;STIME=1967/ 3/ 1:0.0
;STIME=1969/ 8/11:0.0
;STIME=1982/ 7/ 7:0.0
;STIME=1982/12/ 2:0.0
;STIME=1993/ 1/31:0.0
;STIME=1998/ 7/ 5:0.0
;STIME=1999/ 4/28:0.0
;STIME=2001/ 7/24:0.0
;STIME=1987/01/01:0.0
;STIME=2008/ 8/13:0.0
;ETIME=1987/12/01:23.0
ETIME=2008/12/01:23.0
GRAV=32.2
NODEID=YES
SSEPS=0.25
PAGE=   20
EPSSYS=0.05
MKNT=   05
; ADDED NUMGT
NUMGT=    1
; OUTPUT=    0
PRTINT=99999
;DEBUGGIN OUTPUT ADDED
;DPTIME=2929 08 04  0.000
GEQOPT=STDX
EPSB=0.00005
; CHANGED MAX ITERATIONS TO 40 FROM 30
MAXIT=   40
SFAC=5280.0
;CHANGED QSMALL TO 10 FROM 20
QSMALL=    10.000
; QSMALL=  20.0
IFRZ=   10  1800.0  1350.0  1350.0   900.0   450.0   225.0   100.0    50.0    25.0    12.5
MAXDT=  3600.0  MINDT=     0.01  AUTO= 0.70  SITER=  2.5  HIGH= 3.20  LOW= 2.20  HFAC= 1.50  LFAC=
0.50
MRE=    0.10
FAC=    0.00
;IFRZ=00009
;   1350.   1200.   1000.    850.    700.    500.    350.    100.   900.
;1800.  0.1  0.7  5.5 6.85 4.15  2.5  0.5
;MRE=     0.750       0.0
DWT=0.1
BWT=0.67
;BWT=1.0
BWFDSN=   04KLEIN.BWF
CHKGEO=NO
ISTYLE=NEW
EXTTOL= 1.0
SQREPS= 1.0E35
;EXTTOL= 0.0
;SQREPS= 1E30
;GETIC=
;PUTFC=
BRANCH DESCRIPTION TABLES
BNUM=    1
;B1 IS WEST BRANCH DUPAGE RIVER D/S OF CONFLUENCE
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 0101       U1   237     0.070    711.00    0    0    0    0
            D1   236     0.000    710.80    0    0    0    0
   -1
BNUM=    2
;B2 IS WEST BRANCH DUPAGE RIVER U/S OF CONFLUENCE
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 0201       U2   238     0.200    711.60    0    0    0    0
                 -
            D2   237     0.000    711.00    0    0    0    0
   -1
```

```
BNUM=    3
;B3 IS BETWEEN CONFLUENCE AND PRAIRIE PATH
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 0301       U3   103     0.383    715.08    0    0    0    0
                102     0.361    714.50    0    0    0    0
                  -
                105     0.242    713.32    0    0    0    0
                  -
                  -
                706     0.011    711.15    0    0    0    0
            D3  706     0.000    711.00    0    0    0    0
   -1
;****************************************************
;TRIBUTARY 1 BRANCHES FROM CBBEL MODEL DATED 6/19/91
;****************************************************
;BRANCHES COMMENTED OUT THAT CORRESPOND TO MAINSTEM BRANCHES
;BNUM=    1
;B1 BETWEEN BEAVER DAM & NORTH AVENUE
; NODE NAME      XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
; 0101 NORTH       75     2.083    735.51    0    0    0    0
;                   -
;                   -
;                   -
;                   -
;                   -
;                  78     2.070    734.05    0    0    0    0
;                   -
;                   -
;                   -
;                   -
;                   -
;                  79     2.004    734.10    0    0    0    0
;                   -
;                   -
;                   -
;                   -
;                   -
;      LINK        80     1.918    734.53    0    0    0    0
;   -1
;BNUM=    2
;B2 BETWEEN BEAVER DAM & ST CHARLES ROAD
; NODE NAME      XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
; 0201 LINK        80     1.918    734.53    0    0    0    0
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;      STCHAS      82     1.792    733.45    0    0    0    0
;   -1
;BNUM=    3
;B3 BETWEEN METAL WORKS RD & ST CHARLES ROAD
; NODE NAME      XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
;  301 STCHAS      81     1.772    733.15    0    0    0    0
;                   -
;                   -
;                   -
;                   -
;                   -
;      LINK        85     1.714    732.68    0    0    0    0
;   -1
;BNUM=    4
;B4 BETWEEN BEAVER DAM & METAL WORKS RD
; NODE NAME      XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
;  401 LINK        84     1.705    732.33    0    0    0    0
;                   -
```

```
;                   -
;                   -
;                   -
;                   -
;      METRD       88     1.629    731.33
;   -1
;BNUM=    5 INERTIA= 0.0
;B5 BETWEEN C&NW RR & BEAVER DAM
; NODE NAME      XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
;  501 METRD       88     1.629    731.33
;                   -
;                   -
;                   -
;                   -
;                   -
;      CNWRR      687     1.615    730.60    0    0    0    0
;   -1
;BNUM=    6
;B6 BETWEEN KLEIN CREEK TRIBUTARY A AND C&NW RR
; NODE NAME      XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
; 0601 CNWRR      687     1.612    730.60    0    0    0    0
;                   -
;                   -
;                   -
;                   -
;                   -
;                 87     1.590    729.94    0    0    0    0
;                   -
;                  -
;                   -
;                   -
;                   -
;                   -
;      KLEIN-A    692     1.427    728.20    0    0    0    0
;   -1
;BNUM=    7
;B6 BETWEEN COUNTY FARM ROAD AND KLEIN CREEK TRIBUTARY A
; NODE NAME      XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
; 0701 KLEIN-A    692     1.427    728.20    0    0    0    0
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                 692     1.407    727.97    0    0    0    0
;                   -
;                   -
;                   -
;                   -
;                   -
;                  94     1.325    726.58    0    0    0    0
;                   -
;                   -
;                   -
;                   -
;                   -
;      CNTYFRM     94     1.313    725.57    0    0    0    0
;   -1
;BNUM=    8 INERTIA= 0.0
;B8 BETWEEN FARM ROAD AND COUNTY FARM ROAD
; NODE NAME      XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
; 0801 CNTYFRM     93     1.298    724.32    0    0    0    0
;                   -
;                   -
;                   -
;                   -
```

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;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                   96     1.256    726.88    0    0    0    0
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                   97     1.000    722.74    0    0    0    0
;                    -
;                    -
;                    -
;                    -
;                    -
;                   99     0.956    722.54    0    0    0    0
;                    -
;                    -
;                    -
;                    -
;                    -
;      FRMRD        98     0.918    721.79    0    0    0    0
;   -1
;BNUM=    9
;B9 BETWEEN PRAIRIE PATH AND FARM ROAD
; NODE NAME      XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
; 0901 FRMRD       98     0.918    721.79    0    0    0    0
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                   101     0.620    717.81    0    0    0    0
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;      P-PATH      103     0.383    715.08    0    0    0    0
;   -1
;BNUM=   10 INERTIA=0.01                           ADDNOD=    0
;B10 IS BETWEEN CONFLUENCE AND PRAIRIE PATH
; NODE NAME      XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
; 1001 P-PATH     103     0.383    715.08    0    0    0    0
;                    -
;                    -
;                    -
```

```
;                    -
;                    -
;                    -
;                  102     0.361    714.50    0    0    0    0
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                  105     0.242    713.32    0    0    0    0
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                  706     0.011    711.15    0    0    0    0
;
;
;
;
;
;
;
;
;
;
;      CONFL       706     0.000    711.00    0    0    0    0
;   -1
;BNUM=   11
;B11 & B12 ARE MAIN STEM WEST BRANCH OF THE DUPAGE RIVER
; NODE NAME      XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
; 1101 WBSTRT     238     0.200    711.60    0    0    0    0                          FEMA
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;      CONFL       237     0.000    711.00    0    0    0    0
;   -1
;BNUM=   12
; NODE NAME      XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
; 1201 CONFL      237     0.070    711.00    0    0    0    0                          FEMA
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
```

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;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;      WBEND      236     0.000    710.80    0    0    0    0
;   -1
;BNUM=  120 INERTIA= 0.1
; NODE NAME      XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
; 1200 TA-PND_G  1301    0.001    678.20    0    0    0    0                          FEMA
;
;
;
;
;
;
;
;
;
;
;
;      TA-CONFL  1301     0.000    678.20    0    0    0    0
;   -1
BNUM=  1121
 NODE  NODEID_  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 1210 TA-DITCH  1301     0.114    715.00    0    0    0    0                          FEMA
```

```
      TA-PND_K  1301     0.000    706.00    0    0    0    0
   -1
BNUM=   1020 INERTIA= 0.01
 NODE  NODEID   XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC
 2001  18-PND   2018   0.09564    769.66    0    0    0    0
```

```
       18-24U   2018   0.09091    769.58    0    0    0    0
   -1
BNUM=   1021 INERTIA= 0.01
 NODE  NODEID   XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC
 2101  18-24D   2024   0.09091    769.58    0    0    0    0
```

```
       24-30U   2024   0.08428    769.51    0    0    0    0
   -1
BNUM=   1022 INERTIA= 0.01
 NODE  NODEID   XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC
 2201  24-30D   2030   0.08428    769.51    0    0    0    0
```

```
                2030   0.00568    769.01    0    0    0    0
```

```
       30-PND   2030   0.00000    768.98    0    0    0    0
   -1
BNUM=   1023 INERTIA= 0.01
 NODE  NODEID   XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC
 2301  PND-15   9015   0.29233    768.98    0    0    0    0
```

```
                9015   0.28381    768.93    0    0    0    0
```

```
                9015   0.25540    768.78    0    0    0    0
```

```
       15-24U   9015   0.20426    768.51    0    0    0    0
   -1
BNUM=   1024 INERTIA= 0.01
 NODE  NODEID   XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC
 2401  15-24D   2024   0.20426    768.51    0    0    0    0
```

```
       24-30U   2024   0.12528    768.14    0    0    0    0
   -1
BNUM=   1025 INERTIA= 0.01
 NODE  NODEID_  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC
 2501  24-30D   2030   0.12528    768.14    0    0    0    0
```

```
                2030   0.06420    767.73    0    0    0    0
```

```
                2030   0.05350    767.76    0    0    0    0
```

```
                2030   0.01468    767.21    0    0    0    0
```

```
       30-GAGP  2030   0.00000    765.68    0    0    0    0
   -1
BNUM=   1026
 NODE  NODEID_  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC
 2601  DARLUS   1800   0.54924    770.20    0    0    0    0
                   -
                   -
                   -
                   -
                   -
                   -
                1802   0.52424    770.10    0    0    0    0
                   -
                   -
                   -
                   -
                   -
       DARLAPP  1804   0.49394    770.16    0    0    0    0
   -1
BNUM=   1027
 NODE  NODEID_  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC
 2701  DARLDEP  1806   0.48504    770.00    0    0    0    0
                   -
                   -
                   -
                   -
                1808   0.47197    769.95
                   -
                   -
                   -
                   -
                   -
       PAPAPP   1810   0.43258    769.70    0    0    0    0
   -1
BNUM=   1028
 NODE  NODEID_  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC
 2801  PAPDEP   1812   0.42348    769.70    0    0    0    0
                   -
                   -
                   -
                   -
                   -
                1814   0.39186    769.34    0    0    0    0
                   -
                   -
                   -
                   -
       ELISAPP  1816   0.37102    769.14    0    0    0    0
   -1
BNUM=   1029
 NODE  NODEID_ XNUM_   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC
 2901  ELISDEP  1818   0.36193    769.10    0    0    0    0
                   -
                   -
                   -
                   -
                   -
```

```
       MORSAPP  1820   0.30909    769.10    0    0    0    0
   -1
BNUM=   1030
 NODE  NODEID_ XNUM_   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC
 3001  MORSDEP  1822   0.29924    769.00    0    0    0    0
                   -
                   -
                   -
                   -
                1824   0.28144    768.70    0    0    0    0
                   -
                   -
                   -
                   -
                   -
       FRW/OVF  1826   0.24810    767.95    0    0    0    0
   -1
BNUM=   1031 INERTIA=0.01                           ADDNOD=   -5
 NODE  NODEID_  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC
 3101  FRW/OVF  1826   0.24810    767.95    0    0    0    0
                   -
                   -
                   -
                   -
                1828   0.20833    767.40    0    0    0    0
                   -
                   -
                   -
                   -
                1830   0.18371    766.85    0    0    0    0



       30INAPP  1830   0.17045    766.40    0    0    0    0
   -1
BNUM=   1032 INERTIA=0.01                           ADDNOD=   -5
 NODE NAME__     XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 3201 T1-GAR     4117     0.554    762.75    0    0    0    0
                   -
                   -
                   -
                   -
                   -
                   -
                   -
                4116     0.535    762.75    0    0    0    0
                   -
                   -
                   -
                   -
                   -
                   -
                   -
                4115     0.495    762.75    0    0    0    0
                   -
                   -
                   -
                   -
                   -
                   -
                   -
                4114     0.465    762.75    0    0    0    0
                   -
                   -
                   -
```

```
                    -
                    -
                    -
                    -
                 4113     0.437    762.75    0    0    0    0
                    -
                    -
                    -
                    -
                    -
                    -
                    -
                 4112     0.414    762.75    0    0    0    0
                    -
                    -
                    -
                    -
                    -
                    -
                    -
                 4111     0.341    762.75    0    0    0    0
                    -
                    -
                    -
                    -
                    -
                    -
                    -
      T1-SEW     4110     0.323    762.75    0    0    0    0
   -1
BNUM=   1033 INERTIA= 0.30                          ADDNOD=   -5
 NODE NAME__     XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 3301 T1-LNK     4109     0.323    762.75    0    0    0    0
                    -
                    -
                    -
                    -
                    -
                    -
                    -
                 4108     0.322    762.70    0    0    0    0
                    -
                    -
                    -
                    -
                    -
                    -
                    -
                 4107     0.284    762.40    0    0    0    0
                    -
                    -
                    -
                    -
                    -
                    -
                    -
                 4106     0.246    761.93    0    0    0    0
                    -
                    -
                    -
                    -
                    -
                    -
                    -
                 4105     0.208    761.46    0    0    0    0
                    -
                    -
```

```
                  -
                  -
                  -
                  -
                  -
                4104     0.170    761.00    0    0    0    0
                  -
                  -
                  -
                  -
                  -
                  -
                  -
                4103     0.114    760.30    0    0    0    0
                  -
                  -
                  -
                  -
                  -
                  -
                  -
                4102     0.076    759.83    0    0    0    0
                  -
                  -
                  -
                  -
                  -
                  -
                  -
                4101     0.038    759.37    0    0    0    0
                  -
                  -
                  -
                  -
                  -
                  -
                  -
                  -
                  -
                  -
                  -
      T1-LNK    4100     0.000    758.00    0    0    0    0
   -1
BNUM=   1034 INERTIA= 1.0
 NODE NAME____  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 3401 T1-PND_C  1301     0.010    695.80    0    0    0    0


      T1-REJN   1301     0.000    695.80    0    0    0    0
   -1
```

```
;BNUM=   1035 INERTIA= 0.1
BNUM=   1035
 NODE NODEID__   XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 3501 T1-REJN    117     0.650    745.80    0    0    0    0
                 117     0.585    742.12    0    0    0    0
                   -
                   -
                   -
                   -
                   -
                   -
      T1-CENT    119     0.557    740.90    0    0    0    0
   -1
BNUM=   1036 INERTIA= 0.1
 NODE NODEID__   XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 3601 T1-CENT    118     0.544    738.62    0    0    0    0
                   -
                   -
                   -
                   -
                   -
                   -
                 121     0.492    739.20    0    0    0    0
                   -
                   -
                   -
                   -
                   -
                   -
                 122     0.458    738.18    0    0    0    0
                   -
                   -
                   -
                   -
                   -
                   -
                   -
      T1-USCV    123     0.395    735.87    0    0    0    0
   -1
BNUM=   1037 INERTIA= 0.1  CFRATE= 200.
 NODE NAME___    XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 3701 T1-USCV    293     0.395    735.87    0    0    0    0
                                                                   740.9
```

```
      T1-DSCV    293     0.370    734.20    0    0    0    0     739.2
   -1
BNUM=   1038
 NODE NAME___    XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 3801 T1-DSCV    125     0.377    731.81    0    0    0    0                    DUMMY STA
```

```
      T1-CYFM    125     0.367    731.81    0    0    0    0
   -1
BNUM=   1039 INERTIA= 0.1  CFRATE= 200.
 NODE NAME___    XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 3901 T1-CYFM    292     0.367    731.81    0    0    0    0
                                                                  742.1
```

```
      T1-TIMB    292     0.301    721.20    0    0    0    0     731.5
   -1
;BNUM=   40
; NODE NAME      XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
; 4001 PP-USBD    782     0.286    720.92    0    0    0    0
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;      PP-TMDV    781     0.119    718.33    0    0    0    0
;   -1
;BNUM=   41
; NODE NAME      XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
; 4101 PP-CONF    781     0.119    718.33    0    0    0    0
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;      PP-TMDV    207     0.000    715.52    0    0    0    0
;*****************************
;END OF TRIBUTARY 1 BRANCHES
;*****************************
BNUM=    4
;B4 IS BETWEEN PRAIRIE PATH AND FARM ROAD
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 0401       U4    98     0.918    721.79    0    0    0    0
                   -
                   -
                  101     0.620    717.81    0    0    0    0
                   -
                   -
            D4   103     0.383    715.08    0    0    0    0
   -1
BNUM=    5 INERTIA=0.01                            ADDNOD=  -0
;BNUM=    5 INERTIA=0.01
;B5 IS BETWEEN FARM ROAD AND COUNTY FARM ROAD
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 0501       U5    93     1.298    725.92    0    0    0    0
                  96     1.256    725.71    0    0    0    0
                   -
                   -
                   -
                   -
                   -
                   -
```

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                  -
                  -
                 97     1.000    722.74    0    0    0    0
                 99     0.956    722.54    0    0    0    0
            D5   98     0.918    721.79    0    0    0    0
   -1
BNUM=    6
;B6 IS BETWEEN COUNTY FARM ROAD & C&NW RR
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 0601       U6  692     1.427    728.20    0    0    0    0
                  -
                  -
                692     1.407    727.97    0    0    0    0
                  -
                 94     1.325    726.58    0    0    0    0
            D6   94     1.313    726.30    0    0    0    0
   -1
BNUM=    7 INERTIA=0.01
;B7 IS BETWEEN C&NW RR & PRIVATE RD
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
  701       U7   84     1.705    732.33    0    0    0    0
                 88     1.629    731.33    0    0    0    0
            D7  687     1.615    730.60    0    0    0    0
   -1
;
;REMOVE BRANCH 8 FOR LENZ PARK MODELING
;
;BNUM=    8
;B8 IS BETWEEN PRIVATE RD AND ST.CHARLES RD
; NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
;  801       U8   81     1.772    733.15    0    0    0    0
;            D8   85     1.714    732.68    0    0    0    0
;   -1
BNUM=    9
;B9 IS BETWEEN U13 AND WWTP BRIDGE
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
  901       U9   65     2.651    738.30    0    0    0    0
                  -
               2071     2.611    738.24    0    0    0    0
                  -
                  -
                 71     2.554    738.15    0    0    0    0
                  -
            D9 5068     2.472    738.03    0    0    0    0
   -1
;
;REMOVE BRANCH 10 FOR LENZ PARK MODELING
;
;BNUM=   10
;B10 IS BETWEEN ST CHARLES RD & NORTH AVE
; NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
; 1001      U10   75     2.083    735.51    0    0    0    0
;                 78     2.070    734.05    0    0    0    0
;                 79     2.004    734.10    0    0    0    0
;                 80     1.918    734.53    0    0    0    0
;                  -
;           D10   82     1.792    733.45    0    0    0    0
;   -1
BNUM=   12 INERTIA=0.01
;B12 IS BETWEEN NORTH AVE AND KUHN RD
; REMOVED SEC 676 AND REVISED SEC 74 (5074) AND 69 (5069)  CEMCON 10/01
; REVISED ELEVATION AT U12 3/02
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 1201      U12 5169     2.310    737.00    0    0    0    0
                  -
                 72     2.280    736.39    0    0    0    0
                 73     2.212    736.58    0    0    0    0
```

```
                  -
                  -
           D12  5074     2.119    735.20    0    0    0    0
   -1
BNUM=   13 INERTIA=0.01
;B13 IS BETWEEN KUHN RD & BRANCH 9
; REV. ALL SECTIONS ON BRANCH 13  CEMCON 10/01
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 1301      U13  5068     2.472    738.03    0    0    0    0
               5003     2.437    737.78    0    0    0    0
               5002     2.414    737.61    0    0    0    0
               5001     2.399    737.51    0    0    0    0
               5000     2.350    737.16    0    0    0    0
           D13  5070     2.328    737.00    0    0    0    0
   -1
BNUM=   14 INERTIA=0.01
;B14 IS BETWEEN WWTP ACCESS & THUNDERBIRD TRL
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 1401      U14  2060     2.959    739.00    0    0    0    0
                  -
               2063     2.855    738.86    0    0    0    0
                  -
               2064     2.755    738.73    0    0    0    0
                  -
           D14    66     2.660    738.40    0    0    0    0
   -1
BNUM=   15
;B15 IS BETWEEN T-BIRD TRL & CONFL W/ TRIB.2
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 1501      U15  2061     3.004    739.15    0    0    0    0
           D15  2061     2.978    739.09    0    0    0    0
   -1
BNUM=   16 INERTIA=0.01
;B16 IS BETWEEN TRIB.2 & ILLINI DR
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 1601      U16  2055     3.390    738.90    0    0    0    0
                  -
               2158     3.288    739.00    0    0    0    0
                  -
               2058     3.231    739.06    0    0    0    0
                  -
               2059     3.125    739.20    0    0    0    0
                  -
           D16  2061     3.004    739.15    0    0    0    0
   -1
BNUM=   17
;B17 IS BETWEEN ILLINI & INFLOW FROM LAKE GEORGE
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 1701      U17  2652     3.577    740.29    0    0    0    0
               2654     3.503    739.99    0    0    0    0
                  -
           D17  2656     3.407    739.00    0    0    0    0
   -1
BNUM=   18
;B18 IS BETWEEN LAKE GEORGE INFLOW & MITCHELL LAKE #1
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 1801      U18   645     3.718    741.90    0    0    0    0
                648     3.702    740.99    0    0    0    0
                649     3.682    740.96    0    0    0    0
                  -
                650     3.649    740.52    0    0    0    0
                  -
                  -
                  -
           D18  2652     3.577    740.29    0    0    0    0
   -1
BNUM=   19
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;B19 IS MITCHELL LAKE #1
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 1901      U19   468     4.013    738.94    0    0    0    0
                469     3.849    728.14    0    0    0    0
                  -
                  -
                470     3.785    726.54    0    0    0    0
                  -
           D19   471     3.731    729.94    0    0    0    0
   -1
BNUM=   20
;B20 IS MITCHELL LAKE #2
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 2001      U20   464     4.180    741.20    0    0    0    0
                  -
                465     4.145    735.04    0    0    0    0
                  -
                466     4.076    734.64    0    0    0    0
                  -
               1467     4.028    739.34    0    0    0    0
           D20   468     4.013    738.94    0    0    0    0
   -1
BNUM=   21
;B21 IS MITCHELL LAKE #3
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 2101      U21  1459     4.424    740.54    0    0    0    0
                460     4.353    736.54    0    0    0    0
                461     4.273    736.54    0    0    0    0
                462     4.242    737.32    0    0    0    0
           D21  1463     4.219    739.72    0    0    0    0
   -1
BNUM=   22
;B22 IS MITCHELL LAKE #4
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 2201      U22   454     4.587    741.92    0    0    0    0
                455     4.565    737.70    0    0    0    0
                456     4.543    737.94    0    0    0    0
                457     4.522    737.04    0    0    0    0
               1458     4.477    737.38    0    0    0    0
                  -
           D22  1459     4.424    740.54    0    0    0    0
   -1
BNUM=  123
;B123 ADDED BY (MY 11/7/2002) AND INCLUDES UPDATES FROM 2009 AS-BUILT
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 2301     U123  1453     4.605    745.34    0    0    0    0
                  -
                  -
                  -
                  -
                  -
                  -
          D123  1453     4.607    745.34    0    0    0    0
   -1
;  COMMENT OUT OLD BRANCH 123
;BNUM=  123
;;B123 ADDED BY (MY 11/7/2002)
; NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
; 2301     U123  1453     4.605    745.20    0    0    0    0
;                  -
;                  -
;                  -
;                  -
;                  -
;                  -
;          D123  1453     4.607    745.20    0    0    0    0
;   -1
```

```
BNUM=   23 INERTIA=0.1
;B23 IS MITCHELL LAKE #5
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 2301      U23   451     4.735    744.72    0    0    0    0
                  -
                  -
                  -
                 452     4.696    739.53    0    0    0    0
                  -
                  -
                  -
                  -
                  -
                  -
           D23   453     4.605    744.76    0    0    0    0
   -1
BNUM=   24 INERTIA=1.00
;BNUM=   24 INERTIA=0.01
;B24 IS BETWEEN MITCHELL LAKE #5 & OLD GARY AVE POND
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 2401      U24    20     4.758    745.16    0    0    0    0
                  -
                  -
                  -
                  -
                  -
                  -
                  -
                  -
                  -
           D24    20     4.756    745.16    0    0    0    0
   -1
; REMOVE GARY AVENUE BOX CULVERT BRANCH, REPLACE WITH 5-6
;BNUM=   25              CFRATE= 200.
;B25 IS THE GARY AVENUE BOX CULVERTS
; NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
; 2501      U25   295     5.039    747.00    0    0    0    0
;           D25   296     5.004    746.89    0    0    0    0       9.9
;   -1
BNUM=   27 INERTIA=0.5
;B27 IS BETWEEN CONFLUENCE AND R.R.
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 2701      U27     8     5.358    752.89    0    0    0    0
                  -
           D27    11     5.339    752.87    0    0    0    0
   -1
BNUM=   28 INERTIA=0.01
;B28 IS BETWEEN R.R. AND DETENTION POND INFLOW
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 2801      U28  9008     5.444    755.56    0    0    0    0
                  -
           D28     9     5.372    753.36    0    0    0    0
   -1
BNUM=   29
;B29 FROM CC&P TRIB. BRIDGE AND 250' U/S - CONTROLS LOWER POND
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 2901      U29  9009     5.491    755.87    0    0    0    0
                  -
                  -
                  -
                  -
                  -
           D29  9008     5.444    755.56    0    0    0    0
   -1
BNUM=   31
;B31 IS BETWEEN THE WETLANDS AND SCHMALE RD
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
```

```
 3101      U31   601     6.363    762.82    0    0    0    0
                   -
                   4     6.192    760.84    0    0    0    0
                   -
                   -
                   -
                   -
                   -
                   -
           D31   162     5.871    757.51    0    0    0    0
   -1
BNUM=   32
;B32 IS BETWEEN FLAGSTAFF CT AND SEIMS POND
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 3201      U32   171     0.058    771.90    0    0    0    0
                   -
           D32   170     0.001    771.84    0    0    0    0
   -1
BNUM=   34 INERTIA=0.01
;B34 IS U/S OF MILL POND DR
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 3401      U34   174     6.813    774.08    0    0    0    0
                   -
                   -
                   -
           D34   173     6.742    772.73    0    0    0    0
   -1
BNUM=   35 INERTIA=0.01
;B35 IS U/S OF MILL POND DR
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 3501      U35   775     6.871    775.43    0    0    0    0
                   -
                   -
           D35   174     6.813    774.08    0    0    0    0
   -1
BNUM=   36
;B36 IS U/S OF MILL POND DR
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 3601      U36  1777     6.956    776.38    0    0    0    0
           D36  1776     6.877    775.43    0    0    0    0
   -1
BNUM=   37
;B37 IS BRANCH D/S OF HESTERMAN DR
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 3701      U37   180     7.170    778.56    0    0    0    0
                   -
                  179     7.061    777.54    0    0    0    0
                   -
           D37   778     6.960    776.38    0    0    0    0
   -1
BNUM=   38 INERTIA=0.01  CFRATE= 200.
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 3801      U38   294     7.209    781.23    0    0    0    0
           D38   294     7.170    778.76    0    0    0    0      11.9
   -1
BNUM=   39
;B39 IS NEXT TO FOREST PRESERVE
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 3901      U39   781     0.119    718.33    0    0    0    0
                   -
                   -
                   -
                   -
                   -
           D39   207     0.000    715.52    0    0    0    0
   -1
BNUM=   40
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;B40 IS NEXT TO FOREST PRESERVE
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 4001      U40   782     0.286    720.92    0    0    0    0
                  -
                  -
                  -
                  -
                  -
           D40   781     0.119    718.33    0    0    0    0
   -1
BNUM=   44
;B44 IS BETWEEN B6 & C&NW RR
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 4401      U44   687     1.612    730.60    0    0    0    0
                  -
                  -
                   87     1.590    729.94    0    0    0    0
                  -
                  -
                  -
           D44   692     1.427    728.20    0    0    0    0
   -1
BNUM=   51
;B51 IS BETWEEN CONFLUENCE AND SEMINOLE
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 5101      U51  2136     0.022    739.63    0    0    0    0
                  -
           D51   139     0.000    739.20    0    0    0    0
   -1
BNUM=   52
;B52 IS BETWEEN SEMINOLE AND YUMA/THUNDERBIRD
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 5201      U52  2133     0.229    742.82    0    0    0    0
                  -
                  -
           D52  2137     0.035    739.90    0    0    0    0
   -1
BNUM=   53 INERTIA=0.01
;B53 IS BETWEEN YUMA/THUNDERBIRD AND BLACKHAWK
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 5301      U53  2130     0.411    746.13    0    0    0    0
                  -
                  -
                  -
                  -
                  -
           D53  2134     0.253    743.39    0    0    0    0
   -1
BNUM=   54
;B54 IS BETWEEN BLACKHAWK AND GARY AVE
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 5401      U54  2128     0.468    746.78    0    0    0    0
                2128     0.443    746.58    0    0    0    0
           D54  2131     0.425    746.48    0    0    0    0
   -1
;
;  THIS IS KEHOE BOULEVARD PROPOSED CONDITIONS BRANCHES
;
BNUM=  255 INERTIA=0.01
;B255 u/s of D54, 250 kehoe blvd d/s Culvert 1
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 2551     U255   198     1.051    760.50    0    0    0    0
                  -
                8101    0.9636    760.25    0    0    0    0
                  -
          CUL1  8101    0.9570    760.25    0    0    0    0
   -1
```

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BNUM=  155 INERTIA=0.01
;B155 u/s 250 kehoe blvd Culvert 1 250 kehoe blvd d/s culvert 2
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 1551     CUL1  8102    0.9514    760.13    0    0    0    0
                  -
                  -
               8102    0.9438    760.13    0    0    0    0
                  -
                  -
                  -
               8103    0.9018    759.30    0    0    0    0
                  -
                  -
                  -
          CUL2  8103    0.8942    759.30    0    0    0    0
   -1
BNUM=   55 INERTIA=0.01
;B55 u/s 250 kehoe blvd Culvert 2, d/s gary avenue pond
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 5501     CUL2  8104    0.8872    759.00    0    0    0    0
                  -
                  -
                  -
               8104    0.8809    759.00    0    0    0    0
                  -
                  -
                  -
                  -
                196     0.879    757.79    0    0    0    0
                  -
               3011     0.772    755.76    0    0    0    0
                  -
           D55  3010     0.672    753.25    0    0    0    0
   -1
;BNUM=   55 INERTIA=0.01
;B55 Is u/s of Existing 36" RCP Bypass, UP TO BONNIE LN
; NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
; 5501      U55   198     1.051    760.50    0    0    0    0
;                  -
;                 197     0.954    760.56    0    0    0    0
;                 196     0.879    757.79    0    0    0    0
;                  -
;                3011     0.772    755.76    0    0    0    0
;                  -
;           D55  3010     0.672    753.25    0    0    0    0
;   -1
;
;  END PROPOSED CONDITIONS KEHOE BOULEVARD BRANCHES
;
BNUM=   56 INERTIA=0.01  CFRATE=20.
;B56 IS THE STORMSEWER BTW BONNIE LN AND SCHMALE RD
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 5601      U56   297     0.644    779.96    0    0    0    0
                                                                          5.7
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          D56   297     0.000    760.50    0    0    0    0       5.7
   -1
BNUM=   57 INERTIA=1.0
;BNUM=   57
;B57 IS BETWEEN HOMEBASE SPILLWAY AND GARY AVE
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 5701      U57   156     0.199    752.21    0    0    0    0
                  -
                  -
          D57   159     0.068    750.80    0    0    0    0
   -1
BNUM=   58 INERTIA=1.00
;BNUM=   58
;B58 IS BETWEEN GARY AVE AND OLD GARY AVE
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 5801      U58   152     0.306    753.28    0    0    0    0
                  -
                  -
                 224     0.272    752.94    0    0    0    0
                  -
                  -
          D58   157     0.218    752.29    0    0    0    0
   -1
BNUM=   59 INERTIA=0.10
;BNUM=   59 INERTIA=0.01
```

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;B59 IS BETWEEN OLD GARY AVE AND 84TH CT
;UPDATED CROSS-SECTIONS PER 2010 SURVEY TO REFLECT ALDI LOMR
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 5901      U59   148     0.525    754.94    0    0    0    0
                148     0.472    753.92    0    0    0    0
                  -
                751     0.452    753.40    0    0    0    0
                751     0.409    752.86    0    0    0    0
                751     0.367    752.74    0    0    0    0
                  -
                153     0.347    752.95    0    0    0    0
           D59  153     0.322    753.92    0    0    0    0
   -1
BNUM=   601 INERTIA=0.00
;B601 IS BETWEEN PEPPERS ACCESS ROAD AND ARMY TRAIL ROAD
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 6011     U601  144     0.742    762.91    0    0    0    0
                  -
                  -
          D601  147     0.662    760.30    0    0    0    0
   -1
BNUM=   60 INERTIA=0.01
;B60 IS BETWEEN 84TH CT AND PEPPERS ACCESS ROAD
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 6001      U60  147     0.652    758.30    0    0    0    0
                  -
                  -
           D60  149     0.547    756.14    0    0    0    0
   -1
BNUM=   61 INERTIA=0.01
;B61 IS BETWEEN ARMY TRAIL RD AND CC&P R.R.
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 6101      U61  140     0.884    761.66    0    0    0    0
                  -
                  -
                  -
                  -
           D61  145     0.762    762.39    0    0    0    0
   -1
BNUM=   62 INERTIA=1.00
;B62 IS BETWEEN CC&P R.R. AND MALLARD LAKE
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 6201      U62  200     1.212    765.55    0    0    0    0
                  -
                  -
                  -
                  -
                  -
           D62  741     0.894    762.12    0    0    0    0
   -1
BNUM=   68
;B68 IS Between Existing and Proposed 36" Bypass Inlet
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 6801      U68 3010     0.672    753.25    0    0    0    0
                  -
                  -
                  -
                  -
                  -
               3035     0.663    753.07    0    0    0    0
                  -
                  -
                  -
                  -
                  -
                  -
                  -
```

```
                    -
                    -
                    -
                    -
                    -
            D68  3036     0.606    751.85    0    0    0    0
   -1
BNUM=   71 INERTIA=0.5
;B71 IS DITCH d/s OF 54" fr. NORTH AVE AND EATON TO KEHO BLVD
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 7101      U71  3034     0.842    759.31    0    0    0    0
                    -
                    -
                    -
                    -
                    -
                    -
                    -
                    -
                    -
                    -
                    -
                 3034     0.742    757.78    0    0    0    0
                    -
                    -
                    -
                    -
                    -
                    -
                    -
                    -
                    -
                    -
                    -
                    -
                    -
                    -
                    -
                    -
                 3034     0.734    757.66    0    0    0    0
                    -
                    -
                    -
                    -
                    -
                    -
                    -
                    -
                    -
;                3034     0.606    755.72    0    0    0    0
                    -
                    -
                    -
                    -
                    -
                    -
                    -
                    -
                    -
;                3034     0.602    755.66    0    0    0    0
                    -
                    -
                    -
                    -
                    -
                    -
                    -
```

```
                  -
                  -
                  -
           D71  3034     0.598    755.60    0    0    0    0
   -1
;
; ADD BRANCHES 80-83 FOR LENZ PARK UPDATES
;
BNUM=   80
;B80 IS BETWEEN PRIVATE RD AND NEW LENZ PK BRIDGE 2
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
  801      U80   840    1.7309    733.28    0    0    0    0
                  -
                 810     1.722    732.97    0    0    0    0
                  -
                  -
           D80    85     1.714    732.68    0    0    0    0
   -1
BNUM=   81
;B81 IS BETWEEN NEW LENZ PK BRIDGE 2 AND ST.CHARLES RD
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
  811      U81    81     1.772    733.58    0    0    0    0
                  -
                  -
           D81   811     1.733    733.28    0    0    0    0
   -1
BNUM=   82
;B82 IS BETWEEN ST CHARLES RD & NEW LENZ PK BRIDGE 1
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
  821      U82   830    1.9069    734.75    0    0    0    0
                  -
                  -
                 850     1.865    734.74    0    0    0    0
                  -
                 800     1.857    734.62    0    0    0    0
                  -
                  -
                 801     1.823    733.64    0    0    0    0
                  -
                  -
           D82    82     1.797    733.80    0    0    0    0
   -1
BNUM=   83
;B83 IS BETWEEN NEW LENZ PK BRIDGE 1 & NORTH AVE
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
  831      U83    75     2.083    735.51    0    0    0    0
                  -
                  78     2.070    735.32    0    0    0    0
                  -
                  -
                 780     2.032    735.11    0    0    0    0
                  -
                  -
                  79     2.004    735.05    0    0    0    0
                  -
                  -
                  80     1.918    734.78    0    0    0    0
                  -
           D83   820    1.9091    734.76    0    0    0    0
   -1
;
; END LENZ PARK UPDATES
;
TRIBUTARY AREA SPECIFICATION
; UPDATED TRIB AREA BLOCK BASED ON REVISED SUBBASION FOR 2010 UPDATE
;TSFDSN=   -9\KLEIN CREEK\tsf\TSFLONG.MP2
;FFFDSN=   02CGLPR2.pek
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```
TSFNAM=  \KlnCrk10\tsf\tsflng08.mpn
FFFNAM=  02Prop6c2.pek
NLUSE=   36
NGAGE=    6
 GAGE  NLU
    1    6
    2    6
    3    6
    4    6
    5    6
    6    6
;
; Gage 1:  O'Hare
;
BRANCH=    0
 NODE_  GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    F8    1  .0783 .1829 .0934 .0111 .0401 .0000
   F10    1  .0902 .0176 .0075 .0027 .0075 .0000
   F12    1  .0029 .0099 .0001 .0050 .0025 .0000
   F16    1  .0180 .0018 .0013 .0010 .0000 .0000
   F26    1  .0005 .0065 .0009 .0000 .0009 .0000
   F32    1  .1105 .1185 .0440 .0176 .0338 .0000
   F34    1  .0900 .0130 .0037 .0027 .0035 .0000
   F38    1  .1393 .4008 .2804 .0503 .0999 .0000
   F40    1  .2719 .0377 .0276 .0055 .0168 .0000
   F46    1  .2166 .0484 .0356 .0171 .0174 .0000
   F48    1  .0886 .0279 .0035 .0031 .0082 .0000
   F52    1  .0359 .0080 .0011 .0037 .0007 .0000
   F56    1  .1033 .0285 .0195 .0115 .0074 .0000
   F58    1  .0508 .0226 .0149 .0088 .0053 .0000
   F62    1  .0660 .0137 .0017 .0015 .0048 .0016
   F64    1  .0484 .1023 .0204 .0038 .0157 .0000
   F70    1  .0954 .0321 .0148 .0095 .0062 .0000
   F72    1  .1943 .0729 .0689 .0180 .0240 .0000
   F74    1  .0563 .0960 .0390 .0361 .0254 .0000
   F76    1  .1532 .0187 .0118 .0042 .0093 .0000
   F78    1  .0250 .0062 .0007 .0003 .0029 .0000
   F82    1  .0417 .2314 .0606 .0560 .0379 .0000
   F84    1  .0008 .0509 .0002 .0038 .0019 .0000
   F88    1  .0310 .0641 .0226 .0002 .0120 .0000
   F92    1  .0479 .0114 .0027 .0035 .0044 .0000
   F94    1  .0340 .0361 .0475 .0069 .0166 .0050
   F96    1  .0025 .0037 .0000 .0012 .0003 .0000
  F103    1  .0185 .0308 .0259 .0082 .0097 .0000
  F116    1  .0148 .0010 .0019 .0001 .0001 .0000
  F118    1  .0101 .0013 .0010 .0004 .0006 .0000
  F120    1  .0295 .0062 .0073 .0022 .0025 .0000
  F122    1  .0346 .0135 .0010 .0041 .0042 .0000
  F124    1  .0649 .0092 .0210 .0061 .0055 .0000
  F126    1  .0256 .0154 .0018 .0017 .0035 .0000
  F130    1  .0475 .0067 .0027 .0026 .0013 .0000
  F151    1  .0036 .0149 .0000 .0018 .0011 .0000
  F153    1  .0330 .0443 .0036 .0052 .0041 .0000
  F158    1  .0036 .0012 .0002 .0002 .0007 .0000
  F162    1  .0011 .0105 .0049 .0007 .0011 .0000
  F168    1  .0033 .0003 .0000 .0006 .0000 .0000
  F170    1  .0135 .0285 .0232 .0130 .0084 .0000
  F172    1  .0010 .0027 .0051 .0011 .0006 .0000
  F174    1  .0117 .0186 .0032 .0030 .0051 .0000
  F176    1  .0019 .0032 .0008 .0000 .0004 .0000
  F178    1  .0018 .0040 .0000 .0000 .0003 .0000
  F180    1  .0104 .0233 .0049 .0052 .0052 .0000
  F184    1  .0057 .0050 .0008 .0029 .0020 .0000
  F186    1  .0044 .0030 .0014 .0028 .0018 .0000
  F190    1  .0001 .0027 .0000 .0010 .0002 .0000
  F206    1  .0022 .0015 .0020 .0007 .0008 .0000
  F208    1  .0000 .0012 .0000 .0004 .0001 .0000
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  F210    1  .0005 .0043 .0000 .0007 .0005 .0000
  F404    1  .0472 .0207 .0015 .0017 .0049 .0000
  F406    1  .0251 .0058 .0014 .0014 .0022 .0000
 F1001    1  .0086 .0103 .0022 .0005 .0015 .0000
 F1003    1  .0085 .0093 .0217 .0011 .0042 .0000
 F1005    1  .0131 .0288 .0190 .0067 .0078 .0000
 F1011    1  .0048 .0064 .0068 .0023 .0027 .0000
 F1039    1  .0034 .0405 .0068 .0114 .0052 .0000
 F1131    1  .0075 .0193 .0042 .0129 .0036 .0000
 F1133    1  .1614 .1015 .0309 .0209 .0247 .0374
 F1137    1  .0044 .0127 .0038 .0109 .0033 .0000
 F1139    1  .0100 .0527 .0040 .0135 .0081 .0000
 F1141    1  .0011 .0096 .0029 .0030 .0014 .0000
 F1201    1  .0028 .0127 .0063 .0066 .0023 .0000
 F1203    1  .0014 .0076 .0004 .0062 .0012 .0000
 F1205    1  .0007 .0049 .0051 .0032 .0009 .0000
 F1207    1  .0013 .0055 .0027 .0038 .0017 .0056
 F1209    1  .0010 .0110 .0007 .0008 .0008 .0000
 F1211    1  .0034 .0098 .0063 .0029 .0023 .0000
 F1213    1  .0095 .0145 .0150 .0013 .0040 .0000
 F1215    1  .0069 .0105 .0025 .0098 .0028 .0000
 F1219    1  .0015 .0161 .0052 .0063 .0030 .0006
-1
BRANCH=    1
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=    2
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=    3
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0097 .0197 .0113 .0024 .0265 .0000
BRANCH=    4
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0003 .0324 .0362 .0138 .0513 .0000
BRANCH=    5 FAC=1.0
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0124 .1436 .1831 .0303 .0446 .0000
DLAY K=44.0
BRANCH=    6
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0074 .0123 .0155 .0120 .0060 .0246
BRANCH=    7
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0100 .0142 .0095 .0031 .0057 .0000
;
;  REMOVE BRANCH 8 FOR LENZ PARK
;
;BRANCH=    8
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
;    0    1 .0412 .0113 .0283 .0026 .0043 .0000
BRANCH=    9
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0145 .0127 .0133 .0042 .0035 .0080
;
;  REMOVE BRANCH 10 FOR LENZ PARK
;
;BRANCH=   10
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
;    0    1 .1547 .0866 .1699 .0191 .0181 .0000
BRANCH=   12
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0917 .1542 .1295 .0311 .0476 .0000
BRANCH=   13
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0142 .0113 .0138 .0027 .0037 .0122
BRANCH=   14
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 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0593 .0735 .0272 .0109 .0226 .1071
BRANCH=   15
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=   16
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0463 .1121 .0371 .0055 .0235 .0000
BRANCH=   17
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0000 .0000 .0000 .0000 .0000 .00000
BRANCH=   18
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=   19
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0791 .0959 .0767 .0097 .0316 .0000
BRANCH=   20
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0895 .0262 .0352 .0042 .0130 .0000
BRANCH=   21
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0416 .0359 .0548 .0038 .0139 .0000
;BRANCH=   22 FAC=1.0       KLR=25.0
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
;    0    1 .0136 .0142 .0398 .0041 .0047 .0000
BRANCH=   22 FAC=1.0
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0166 .0290 .0293 .0030 .0091 .0000
DLAY K=25.0
BRANCH=  123 FAC=1.0
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0000 .0000 .0000 .0000 .0000 .0000
DLAY K=25.0
BRANCH=   23
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0119 .0131 .0118 .0021 .0036 .0000
BRANCH=   24
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0000 .0000 .0000 .0000 .0000 .0000
;BRANCH=   25
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
;    0    1 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=   27
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=   28
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0043 .0145 .0007 .0002 .0018 .0000
BRANCH=   29
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=   31
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0768 .0084 .0059 .0014 .0038 .0000
BRANCH=   32
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=   34
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0614 .0504 .0399 .0193 .0199 .0000
BRANCH=   35
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .1019 .0738 .0691 .0071 .0287 .0000
BRANCH=   36
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0847 .0358 .0123 .0161 .0128 .0000
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BRANCH=   37
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .1302 .0265 .0210 .0122 .0090 .0000
BRANCH=   38
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=   39
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=   40
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=   44
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0009 .0000 .0275 .0000  .0015 .0000
BRANCH=   51
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0003 .0013 .0000 .0000 .0002 .0000
BRANCH=   52
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0062 .0179 .0033 .0002 .0035 .0000
BRANCH=   53
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0078 .0103 .0087 .0061 .0037 .0000
BRANCH=   54 FAC=1.0
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0991 .0359 .0177 .0079 .0128 .0039
DLAY K=39.0
;
;  TRIBUTARY AREA BLOCK FROM KEHOE PROJECT ADD BRANCHES 155 AND 255
;
;Make B55 landuse same as PRO3CPW4.DET
;BRANCH=   55 FAC=1.0        KLR=40.0
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
;    0    1 .1977 .0246 .0261 .0049 .0029 .0000
BRANCH=   55 FAC=1.0
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .1676 .0406 .0174 .0072 .0092 .0000
DLAY K=40.0
BRANCH=  155 FAC=1.0
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0059 .0002 .0006 .0004 .0002 .0000
DLAY K=40.0
BRANCH=  255 FAC=1.0
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0115 .0007 .0015 .0003 .0003 .0000
DLAY K=40.0
BRANCH=   56
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .1290 .0321 .0199 .0063 .0098 .0000
BRANCH=   57
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0184 .0051 .0051 .0001 .0022 .0000
BRANCH=   58
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0223 .0119 .0065 .0025 .0039 .0000
;
;   BRANCH TRIBUTARY AREA CHANGES TO EXPLICITLY DETENTION BASINS IN TRIB 3 HEADWATERS
;
BRANCH=   59
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0509 .0126 .0028 .0042 .0038 .0000
BRANCH=   60
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0187 .0114 .0134 .0077 .0048 .0000
BRANCH=   601
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
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    0    1 .0019 .0005 .0002 .0002 .0005 .0000
;REMAINING AREA IN SUBBASIN 61 (F124) NOW DRAINS DIRECTLY TO 61
;BRANCH=   61
;NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
;    0    1 .0    .0    .0    .0    .0    .0000
BRANCH=   61
NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
   0    1 .0232 .0060 .0008 .0003 .0016 .0000
;
;   END OF BRANCH TRIBUTARY AREA CHANGES
;
BRANCH=   62
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=   68
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=   71
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0005 .0005 .0001 .0000 .0003 .00001
;
;  ADD BRANCHES 80-83 FOR LENZ PARK
;
BRANCH=   80
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0057 .0177 .0145 .0006 .0034 .0000
BRANCH=   81
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0284 .0052 .0062 .0020 .0042 .0000
BRANCH=   82
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0069 .0193 .0170 .0035 .0053 .0166
BRANCH=   83
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .1203 .0878 .0585 .0467 .0287 .0077
;
; DONE WITH LENZ PARK MODIFICATIONS
;
;TRIBUTARY 1 ADDITIONS
;
;BRANCH=    1001
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
;    0    1 .0806 .0    .2255 .0    .0113 0.000
;BRANCH=    1002
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
;    0    1 .0296 .0    .0827 .0    .0041 0.000
;BRANCH=    1003
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
;    0    1 .0192 .0    .0331 .0    .0027 0.000
;BRANCH=    1004
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
;    0    1 .0291 .0    .0502 .0    .0041 0.000
;BRANCH=    1005
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
;    0    1 .0    .0    .0    .0    .0    0.000
;BRANCH=    1006
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
;    0    1 .0214 .0    .2713 .0    .0139 0.000
;BRANCH=    1006
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
;    0    1 .0024 .0    .0308 .0    .0016 0.000
;BRANCH=    1007
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
;    0    1 .0018 .0    .0234 .0    .0012 0.000
;BRANCH=    1008
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
;    0    1 .0098 .0    .3927 .0    .0282 0.000
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;BRANCH=    1009
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
;    0    1 .0027 .0    .0546 .0    .0892 0.000
;BRANCH=   1010
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
;    0    1 .0097 .0    .0375 .0    .0243 0.000
;BRANCH=   1011
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
;    0    1 .0    .0    .0    .0    .0    0.000
;BRANCH=   1012
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
;    0    1 .0    .0    .0    .0    .0    0.000
;BRANCH=  1120
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
;    0    1 .0    .0    .0    .0    .0    0.000
BRANCH=  1121
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
    0    1 .0    .0    .0    .0    .0    0.000
;BRANCH=   1020
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
;    0    1 .0000 .0000 .0000 .0000 .0000 .0000
;BRANCH=   1021
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
;    0    1 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=   1022
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
    0    1 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=   1023
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
    0    1 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=   1024
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
    0    1 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=   1025
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
    0    1 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=   1026 FAC=1.0000
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0008 .0000 .0027 .0000 .0004 .0000
BRANCH=   1027 FAC=1.0000
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0018 .0007 .0068 .0000 .0011 .0000
BRANCH=   1028 FAC=1.0000
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0009 .0020 .0024 .0000 .0006 .0000
BRANCH=   1029 FAC=1.0000
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0009 .0021 .0007 .0003 .0004 .0000
BRANCH=   1030 FAC=1.0000
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0032 .0049 .0111 .0009 .0024 .0000
BRANCH=   1031 FAC=1.0000
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0047 .0033 .0111 .0000 .0028 .0000
BRANCH=   1032 FAC=1.0000
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    1 .0685 .0368 .0130 .0054 .0046 .0000
BRANCH=   1033
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
    0    1 .0190 .0344 .0237 .0082 .0106 .0499
BRANCH=   1034
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
    0    1 0.000 0.000 0.000 0.000 0.000 0.000
BRANCH=   1035
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
    0    1 .0028 .0073 .0050 .0020 .0018 .0000
BRANCH=   1036
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 NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
    0    1 .0046 .0072 .0067 .0043 .0029 .0000
BRANCH=   1037
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
    0    1 .0    .0    .0    .0    .0    0.000
BRANCH=   1038
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
    0    1 0.000 0.000 0.000 0.000 0.000 0.000
BRANCH=   1039
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
    0    1 0.000 0.000 0.000 0.000 0.000 0.000
;BRANCH=   1040
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
;    0    1 0.000 0.000 0.000 0.000 0.000 0.000
;BRANCH=   1041
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
;    0    1 0.000 0.000 0.000 0.000 0.000 0.000
;END OF TRIBUTARY 1
NEW NETWORK-MATRIX CONTROL INPUT
 CODE   N1   N2   N3   N4   N5   N6   N7   N8   N9  N10      F1     F2     F3     F4     F5
    4   3    D1   -1   D1   0
    1    1
    3   U1   D2
    2    3   U1   D2   D3
    3   D2   D3
    1    2
    1    3
    6    1   U2   1    0                                    37.00
    3   U3   D4
    2    4   U3   D4   D39  F1039
    1   39
    3   D4   D39
;    3   D4   F107
;    6    1   F106 1    0                                     1.00
;   15 F106   F107
    1   40
    3  U39   D40
;    3  U39   F105
;    6    1   F104   1  0                                     1.00
;   15 F104   F105
    3  U40   F101
    6    1   F100   1   0                                    4.00
   15 F100   F101
    2    4   U40  F101 F38  F103
    7 F103   346  1    F102
    6    1   F102 1    0                                    1.00
    4    2   F103 -1   F103 360                             725.49
    7  F38   314  1    F37
    6    1   F37  1    0                                    0.00
    4    2   F38  -1   F38  349                             1000.00
;****************************
;TRIBUTARY 1 CODE REVISIONS
;****************************
;CODE COMMENTED OUT THAT IS DUPLICATED IN MAINSTEM
;    4   3    D12   -1    D12   0
;    3 U12    D10
;    3 U12    D11
;    2   3    D10   D11   U12
;    1  12
;    1  11
;UPSTREAM BOUNDARY FOR THE WEST BRANCH SEGMENT - BASEFLOW ADDITION
;    6   1    U11   1     0                                    37.0
;    1  10
;    3 U10    D9
;CONFLUENCE OF PRAIRIE PATH TRIB AND MAINSTEM
;    3  D9    D41
;TRIB #1 - TIMBER RIDGE FPD POND OUTLET
```

```
;    5   6    F39   D9    F39   534   534                     716.21
     5    6   F1039 D4 F1039 1534   1534                   716.21
;    2   4    U10   D9    D41   F39
;    2    2    D4   F1039
;    1   9
;    1  41
    3 F1038  F1046
;TRIB #1 - EXPANSION FROM COUNTY FARM ROAD CULVERT INTO TIMBER RIDGE FPD POND
    5   1    D1039 F1038 D1039 1     292                     1.0    0.5    721.20
    2   4    F1046 F1037 D1039 F1038
;TRIB #1 - TIMBER RIDGE FPD POND
    7 F1039  1310   1     F1038
;TRIB #1 - ADDITIONAL FLOW OVER COUNTY FARM ROAD INTO TIMBER RIDGE FPD POND
    5   6    F1037 F1038 F1037  825   825                     736.78
;FARM ROAD
;    3  U9    D8
;    2   2    U9    D8
;   11 D40    U41
;PRAIRIE PATH TRIB - SIDE-FLOW WEIR INTO TIMBER RIDGE FPD POND
   14 D40    U39   F1047 1559   1559                           0.5    722.75
    2   3    U39   F1047 D40
   15 F1047  F1046
    1 1039
;    1   8
    3 F1036  D1038
   15 F1036  F1037
    2   3    F1036 U1039 D1038
;    1  40
;TRIB #1 - CONTRACTION INTO COUNTY FARM ROAD CULVERT
    5   1    D1038 U1039 U1039 -1    292                     0.3    0.3    731.81
;COUNTY FARM ROAD
;    5   6    D7 U8 D7    501   501                           1      725.60
;                         502   502                           734.15
;    2   2    U8    D7
;    3 U40    F45
;   15 F44    F45
;PRAIRIE PATH TRIB - BASEFLOW
;    6   1    F44  1      0                                   4.00
;    2   4    U40  F43    F41  F45
    1 1038
;PRAIRIE PATH TRIB - TIMBER RIDGE DETENTION OUTFLOW
;    4   2    F43  -1     F43  332                           725.49
;    1   7
;   2   4    U7    D6    D120  F1207
;    2   3    U7    D6    D120
;    3  U07   D120
;    3  U7    D6
;    1  120
;    1   6
;PRAIRIE PATH TRIB - TIMBER RIDGE DETENTION POND
;    7  F43   316   1     F42
;    6   1    F42   1     0                                   0.00
;PRAIRIE PATH TRIB - LINEAR RESERVOIR
;    4   2    F41   -1    F41   349                           1000.00
;    7  F41   352   1     F40
;    6   1    F40   1     0                                   0.00
;TRIB #1 - EXPANSION INTO NATURAL CHANNEL (U/S COUNTY FARM ROAD)
    5   1    D1037 U1038 D1037 1     293                     0.8    0.5    734.20
;TRIB #1 - ADDITIONAL OVERLAND DITCH FLOW (U/S COUNTY FARM ROAD)
    5   6    F1035 U1038 F1035 1584   1584                    738.00
    2   3    U1038 D1037 F1035
;CHICAGO AND NORTHWESTERN RAILROAD
;    5   4    D5 U6 D5    1009  1009  1003  818  818 500      855.31 749.70 0.62   750.48
;    2   2    U6 D5
    1  1037
    3 F1034  D1036
   15 F1034  F1035
```

```
;    1   5
    2   3    F1034 U1037 D1036
;TRIB #1 - CONTRACTION FROM NATURAL CHANNEL (U/S COUNTY FARM ROAD)
    5   1    D1036 U1037 U1037 -1    293                     0.3    0.3    735.87
;BEAVER DAM - REMOVED
;    3  U5    D4
;    2   2    U5    D4
    1  1036
;    1   4
;TRIB #1 - CENTER AVENUE
    5   6    D1035 U1036 D1035  1507  1507                           741.65
    2   2    U1036 D1035
;METAL WORKS ROAD (PRIVATE)
;    5   6    D3    U4    D3    539   539                     1      732.68
;                               589   589                     2      738.05
;                               590   590                            739.52
;    2   2    U4    D3
    1  1035
    3 D1034  U1035
    2    2   U1035 D1034
    1  1034
;    1    3
;ST. CHARLES ROAD
;    5    6   D2 U3 D1002 538   538                           1      734.04
;                               582   582                     2      744.01
;                               583   583                            742.86
;    2    2   U3 D2
;    1    2
;BEAVER DAM - REMOVED
;    3   U2   D1
;    2    2   U2 D1
;    1    1
;UPSTREAM MODEL BOUNDARY (NORTH AVENUE)
;    6    1   U1 1     -17                                          29.0
    1  1033
    2     4  F1032 D1032 F1031 U1033
    1  1032
;TRIB #1 - FISHER AND CLOW PROPERTY TILE LINE
    5    6   D1032 F1031 F1031 3050  3050                    765.50
   15 F1033  F1032
   15 F1031  F1030
;TRIB #1 - BASEFLOW
    6    1   F1033 1     0                                   4.00
;TRIB #1 - CLOW PROPERTY OUTLET
    5    6   D1032 U1033 U1033 4120  4120                    763.00  /
                               4121  4121                    768.70
;    3 D1032  U1033
    3 D1032  F1032
* NEW CODES START HERE
;TRIB #1 - POND O TO POND A
    5    6   F1133 F1134 F1133 3092 3092                     758.00  /
                               3082 3082                     763.50
    2    2   F1133 F1134
   15 F1134  F1135                                           0.0070 8000.
;TRIB #1 - POND O TO POND A
    5    6   F1135 F1136 F1135 3070 3070                     758.00  /
                               3076 3076                     766.00
    2    2   F1136 F1135
    2    4   D1033 F1132 F1131 F1030
    3 F1132  F1030
;TRIB #1 - DIVERSION INTO POND N/O
    5    6   D1033 F1132 D1033 1218 1218                     758.00  /
                               3072 3072                     765.10
;TRIB #1 - POND N/O
    7 F1133  1011  1     F1132                               0.0060
;TRIB #1 - POND M INFLOW INTO POND N/O
    5    2   F1131 F1132 F1131 1246 50     1246 50           764.00
```

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;TRIB #1 - POND M
    7 F1131  1010  1     F1130
;TRIB #1 - POND L INFLOW INTO POND M
    5    2   F1215 F1130 F1215 1245 50     1245 50           767.00
    2    2   F1215 F1130
;TRIB #1 - POND A
    7 F1137  1013  1     F1136                               0.0080
;TRIB #1 - POND A INFLOW INTO POND B
    5    6   F1137 F1138 F1138 3213 3213                     757.00  /
                              3074 3074                     759.00
    2    2   F1137 F1138
;TRIB #1 - POND B
    7 F1139  1015  1     F1138                               0.0050
;TRIB #1 - POND B INFLOW INTO POND C (MOD WEIR)
    5    6   F1139 F1140 F1140 3094 3094                     752.50  /
                              3084 3084                     759.20
    2    2   F1139 F1140
;TRIB #1 - POND C
    7 F1141  1016  1     F1140                               0.0050
;TRIB #1 - POND C INFLOW INTO POND D (DIVERSION)
    5    6   F1141 F1200 F1200 1215 1215                     749.0
;TRIB #1 - POND C INFLOW INTO ORIGINAL CHANNEL (WEIR)
    5    2   F1141 F1142 F1142 1243 50     1243 50           750.00
    2    3   F1141 F1142 F1200
   15 F1142  F1143
    3 U1034  F1143
    3 U1034  F1145
    2    3   F1143 F1145 U1034
   15 F1144  F1145
    6    1   F1144 1     0                                   3.0
;TRIB A - POND D
    7 F1201  1025  1     F1200
    2    3   F1201 F1202 F1209
;TRIB A - POND D INFLOW INTO POND E
    5    6   F1201 F1202 F1201 1225 1225                    745.00   /
                              3068 3068                     750.70
;TRIB A - POND H INFLOW INTO POND E
    5    6   F1209 F1202 F1209 1224   1224                   752.00   /
                              3067   3067                   757.00
;TRIB A - POND H
    7 F1209  1024  1     F1208                               0.0010
    2    2   F1208 F1211
;TRIB A - POND I INFLOW INTO POND H
    5    6   F1211 F1208 F1208 1223 1223                    752.00   /
                              3066 3066                     756.50
;TRIB A - POND J
    7 F1219  1021  1     F1218
;TRIB A - POND J INFLOW INTO POND I
    5    6   F1219 F1210 F1219 1221 1221                    755.00   /
                              3065 3065                     759.70
    6    1   F1218 1     0                                   0.0
;TRIB A - POND I
    7 F1211  1023  1     F1210                               0.001
    2    3   F1210 F1213 F1219
;TRIB A - POND K INFLOW INTO POND I
    5    6   F1213 F1210 F1213 1222 1222                     754.50  /
                              3064 3064                     760.50
;TRIB A - POND K
    7 F1213  1022  1     F1212
    2    2   F1212 D1121
    3 D1121  F1212
    1  1121
    6    1   U1121 1     0                                   2.0
;TRIB A - POND L
    7 F1215  1020  1     F1214
    6   1    F1214 1     0                                   0.0
;TRIB A - POND E
```

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    7 F1203  1026  1     F1202
    2    2   F1203 F1204
;TRIB A - POND E INFLOW INTO POND F
    5   6    F1203 F1204 F1203 1226 1226                    745.00  /
                              3063 3063                    750.00
;TRIB A - POND F
    7 F1205  1027  1     F1204
    2    2   F1205 F1206
;TRIB A - POND F INFLOW INTO POND G
    5    6   F1205 F1206 F1205 1227 1227                    741.50  /
                              3062 3062                    744.50
;TRIB A - POND G
    7 F1207  1028  1     F1206
;   6    1   U1120 1     0                                 0.0
;TRIB A - POND G INFLOW INTO TRIB A (PIPE)
    5    6   F1207 U6    F1207 1228 1228                    734.50  /
                              3061 3061                    736.50
    6    1   U1026 1     0                                 2.00
    1  1026
    2    2   D1026 U1027
    5    6   D1026 U1027 D1026 4211 4211                    770.35
    1  1027
    2    2   D1027 U1028
    5    6   D1027 U1028 D1027 4212 4212                    769.38  /
                              1750 1750                    773.80  /
                              1752 1752                    773.40
    1  1028
    2    2   D1028 U1029
    5    6   D1028 U1029 D1028 4213 4213                    768.67  /
                              1754 1754                    774.00  /
                              1756 1756                    774.39
    1  1029
    2    2   D1029 U1030
    5    6   D1029 U1030 D1029 4214 4214                    768.26  /
                              1758 1758                    774.90  /
                              1760 1760                    775.15
    1  1030
   15 F1007  F1008
    2    3   D1030 U1031 F1007
   14 D1030  U1031 F1007 216   216                          0.5    771.30
    5    6   D1030 U1031 U1031 4216  4216                   767.94
    1  1031
    2    6   D1031 F1008 D1025 F1006 F1013 F1018
    5    6   D1031 F1006 D1031 4215  4215                   766.40  /
                              1762  1762                   770.00  /
                              1764  1764                   770.00
    3  F1008 F1006
    6    1   F1002 1     0                                 1.00
    2    3   F1001 U1020 F1015
    5    6   F1001 U1020 U1020 1700  1701                   769.66
    5    6   F1001 F1015 F1015 3080  3080                   772.00
   15 F1015  F1016
    1  1020
;    5    6   D1020 U1021 D1020 1702  1703                   769.58
    5    6   D1020 U1021 D1020 1702  1702                   769.58
    2    2   D1020 U1021
    1  1021
    5    6   D1021 U1022 D1021 1704  1705                   769.51
    2    2   D1021 U1022
    1  1022
    5    6   D1022 F1004 D1022 1706  1707                   768.98
    2    3   D1022 F1004 F1016
    3  F1004 F1016
    7  F1003 1892  1     F1004
    2    3   F1003 U1023 F1017
    5    6   F1003 U1023 U1023 1708  1709                   768.98
    5    6   F1003 F1017 F1017 3078  3078                   774.00
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   15 F1017  F1018
    1  1023
    5    6   D1023 U1024 D1023 1710  1711                    768.51
    2    2   D1023 U1024
    1  1024
    5    6   D1024 U1025 D1024 1712  1713                    768.14
    2    2   D1024 U1025
    1  1025
    3  F1006 F1018
    5    6   D1025 F1006 D1025 1714  1715                    765.68
    7  F1005 1890  1     F1006                               0.003
    5    6   F1006 F1013 F1013 215   215                     999.00
   15 F1013  F1014
   15 F1009  F1010
    2    2   F1005 F1009
    2    3   F1010 U1032 F1011
    3 F1010  U1032
    2    2   F1014 F1012
    3 F1014  F1012
    7 F1011  1896  1     F1012
    5    6   F1011 U1032 F1011 9030  9030                    765.50  /
                               9040  9040                    772.40
    7  F1001 1894  1     F1002
    4    2   F1005 -1    F1005 1891                          0.00
;*****************************
;END OF TRIBUTARY 1 REVISIONS
;*****************************
    1   4
    3  U4    D5
    2   2    U4   D5
    1   5
    5   6    D6   U5   D6   501  501                       726.30   /
                              502  502                       735.00
    2   2    U5   D6
    1   6
    1  44
    2   4    U6   D44  F109 F1207
    3  U6    D44
    3  U6    F109
    6   1    F108      1    0                               1.00
   15 F108   F109
    5   4  D7 U44 U44 1009 1009 1003 818 818 500 855.31 749.70   0.62 750.48
    2   2    U44  D7
    1   7
;
; *****THIS IS THE LENZ PARK BRIDGE ADDITIONS (W/ BRIDGES)****
;      CODE REVISIONS ALSO INCLUDE CEMCON BRIDGE MODIFICATIONS AT NORTH AND KUHN
;
    1   80
    5    6   D80  U7   D80  539  539                         732.68  /
                      589  589                               738.05  /
                      590  590                               739.52
    2    2   U7   D80
    1   81
    5    6   D81  U80  D81  595  595                         733.28  /
                      507  508                               737.80
    2    2   U80  D81
    1   82
    5    6   D82  U81  D82  538  538                         734.04  /
                      582  582                               744.01  /
                      583  583                               742.86
    2    2   U81  D82
    1   83
    5    6   D83  U82  D83  596  596                         734.76  /
                     4000  4001                              741.00
    2    2   U82  D83
; *****THIS IS THE PROPOSED LENZ PARK SW POND (NW PARCEL)*****
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```
    7 F410   4002 1    F409
    6    1   F409 1    0                                    10.00
   15 F411   F412
   15 F413   F414
   15 F415   F416
    2    3   F410 F411 F413
    5    6   F410 F411 F411 4004 4004                       742.60
    5    6   F410 F413 F413 4003 537                        737.55
    2    3   F412 F414 F415
    3 F415   F412
    3 F415   F414
    2    3   U83  D12 F416
    3  U83   F416
; ************************************************
;    5   6 D12 U83 D12 540 540               1 735.80
;                      541 541                 746.07
; ************************************************
;    1   8
;    5   6  D8  U7  D8 539 539               1 732.68
;                      589 589               2 738.05
;                      590 590                 739.52
;    2   2  U7  D8
;    5   6 D10  U8 D10 538 538               1 734.04
;                      582 582               2 744.01
;                      583 583                 742.86
;    2   2  U8 D10
;    1  10
;    2   2 U10 D12
;   BEGIN CEMCON,LTD CODE REVISION (10/01)
;   REVISION FOR RT.64 AND KUHN RD CULVERTS(BOTH RECONSTRUCTED)
;    5   6 D12 U10 D12 540 540               1 735.80
;                      541 541                 746.07
;   TABLE 5540 IS NEW RT.64 (NORTH AVE) CULVERT X-ING
    5   6 D12 U83 D12 5540 5540                             735.20
    1  12
;    5   6 D13 U12 D13 554 554               1 737.80
;                      555 555               2 745.49
;                      556 556                 745.63
;   TABLES 5554 AND 5556 ARE NEW KUHN RD. CULVERT X-ING
;   TABLE 5554 IS CULVERT AND 5556 IS ROB CHANRAT(N. OF HEADWALL)
    5   6    D13 U12  D13   5554 5554                 737.00 /
                            5556 5556                 744.80
;
;   END CODE REVISIONS FOR LENZ PARK AND NORTH AVENUE/KUHN ROAD
;
    2    2   U12 D13
    1   13
    1    9
    7  F96   399   1  F95
    2    2   F95 F98
       3  F95   F98
   15  F97   F98
    5    6   F96 U13  F96   790  537                        739.00
   14  D9    U13  F97 799 799                               1.0    743.00
    3  U13   D9
;  CHANGED FOR PROP 6C
    3  U13  F994
;      2    4   U13  D9  F96 F97
       2    5   U13  D9  F96 F97  F994
;   END CHANGES HERE FOR PROP 6C
    5    6   D14  U9   D14  812  812                        738.40
    2    2   U9   D14
    1   14
    5    6   D15  U14  D15  545  545                        739.09
    2    2   U14  D15
    1   15
    3  U15   D16
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    3  D16   D51
    2    3   U15  D16  D51
    1   16
;************************
;BEGINNING OF TRIBUTARY 2
;************************
    1   51
    5    6   D52  U51  D52  503  503                        740.64
    2    2   U51  D52
    1   52
    5    6   D53  U52  D53  515  515                        743.39
    2    2   U52  D53
    1   53
    5    6   D54  U53  D54  511  511                        746.75
    2    2   U53  D54
    1   54
; ****************************************************
; CHANGES REFLECT PROP 2 WITH STOPLOGS REMOVED AND OVERFLOW FROM INTERSECTION DIRECTED TO BASIN
; Beginning of New Network Matrix Control
   15  F3  F4
; PROP 2 ADDED DUMMY BRANCH FOR OVERFLOW FROM INTERSECTION TO BASIN
   15 F300 F400
   15 F135 F136
    2   3 U54  F4 F136
    5   6 F136 U54 F136 573 573              749.06
    5    6    F4  U54   F4  5981 5981                      759.20
;    4    2   F4   -1   F4   597                            759.20
   15 F41 F42
   15 F43 F44
    2   3 F135 F42 F44
    3 F135 F42
    3 F135 F44
   15 F137 F138
    2   2 F138 F41
    5   6 F138 F41 F138 574 574              751.37
   15 F53 F54
    2   2 F137 F54
    5   6 F54 F137 F54 578 578               751.80
   15 F145 F146
    2   2 F53 F146
    5   6 F146 F53 F146 586 586              751.85
   15 F89 F90
   15 F65 F66
   15 F147 F148
    2   4 F145 F90 F65 F148
    3 F145 F90
    3 F145 F65
    3 F145 F148
    1  68
    2   2 F89 D68
    3 F89 D68
    1  55
;  ADDED FOR PROP 2
    2   4 U68 D55  F3 F300
    3 D55 U68
    3 D55  F3
;  ADDED FOR PROP 2
    3 D55 F300
   15 F159 F160
    2   2 F147 F160
    5   6 F160 F147 F160 577 577              755.60
    1  71
    2   2 F159 D71
    3 D71 F159
    7 F158 584   1 F157
    2   3 U71 F48 F158
    4   2 F158  -1 F158 585                 1000.00
```

```
    6   1 F157   1   0                          0.5
    7 F48 382   1 F47
    4   2 F48  -1 F48 383                    1000.00
    6   1 F47   1   0                          0.5
;  ADDED FOR PROP2
    2   3 F66 F51 F400
; CHANGED SPILLWAY ELEVATION FROM 755.30 TO 754.54
    5   6 F66 F51 F66 598 598                 754.54
;  ADDED FOR PROP 2
    5   6 F400 F51 F400 5982 5982             758.00
    7 F52 309   1 F51
    2   2 F52 F43
    5   6 F52 F43 F52 576 537                 749.70
; End of New Network Matrix Control
; *******************************************************
    6    1   F55  1    0                                  0.0
    6    1   F57  1    0                                  0.0
; 1-D table updated to 2-D table, per 2010 survey
;    4    2   F56  -1   F56  340                           761.60
       5    6   F56  U255 F56  4021 4021                     760.84  /
                           4022 4022                      762.98
    7  F56   344  1   F55
;
; 250 Kehoe Boulevard Project
;
    5    1   D56  U255 D56  1    297                      1.0    0.5 760.50
    2    4   U255 F56  F58  D56
;    5   1   D56  U55  D56  1    297                      1.0    0.5 760.50
;    2   4   U55  F56  F58  D56
    2    2   D255 U155
;   3  D255  U155
    5    6   D255 U155 D255 7101 7101                     760.25  /
                           7102 7102                      765.35  /
                           7103 7103                      765.35  /
                           7104 7104                      765.00
    1  255
    2    2   D155 U55
;   3  D155  U55
    5    6   D155 U55  D155 7201 7201                     759.30  /
                           7202 7202                      764.29  /
                           7203 7203                      764.00  /
                           7204 7204                      764.00
    1  155
;
; End of 250 Kehoe Boulevard Project
;
    4    2   F58  -1   F58  341                           778.00
    7  F58   345  1    F57
    1   56
    3  U56   F60
    6    1   F59  1    0                                  8.00
   15  F59   F60
    2    3   U56  F60  F62
; 1-D table updated to 2-D table, per 2010 survey
;    4    2   F62  -1   F62  322                           785.00
       5    6   F62  F60 F62   4019 4019                     780.28  /
                           4020 4020                      783.89
    7  F62   323   1   F61
    4    2   F64  -1   F64  320                           790.50
    2    2   F61  F64
    7  F64   321  1    F63
    6    1   F63  1    0                                  1.0
;**********************
;END OF TRIBUTARY 2
;**********************
    5    6   D17  U16  D17  547  547                      738.93
    2    2   U16  D17
```

```
    1   17
   11  D18   U17
;
;   BEGIN CHANGES FOR PROP 6C HERE
;
    2   6 U17  F1 D18 F88 F36 F976
;    2   5 U17  F1 D18 F88 F36
    7 F88 348   1 F87
    5   6 F88 U17 F88 534 534                742.70
   15 F35 F36
; DTO CHANGES HERE FOR PROP6C
   15 F976 F975
;  THESE ARE THE PUMP FREE NODES F983-F990 - CONTROLLED BY TABLE 9101
   15 F983 F984
   15 F985 F986
   15 F987 F988
   15 F989 F990
    2   3 F981 F984 F986
    2   2 F988 F983
    2   2 F990 F985
    3 F981 F984
    3 F981 F986
    4   2 F988  -1 F988 9101                     .00
    4   2 F990  -1 F990 9102                     .00
;  STORAGE NODES
    7 F974 995   1 F973
    7 F982 996   1 F981
    3 U17 F976
    5   6 F975 F973 F975 9800 9801            742.00 /
                          9701 9701            743.00
;    5   6F982F973F98297009700                 757.00
    2   3 F974 F987 F989
    3 F974 F987
    3 F974 F989
;    3 F973 F983
;    3 F973 F985
    2   2 F973 F975
;    6   1 F981   1   0                          0.0
;OVERFLOW WEIR AND CULVERT
   15 F991 F992
   15 F993 F994
    2   2 F982 F991
    5   6 F982 F991 F982 9700 9700            758.00
    2   2 F992 F993
    3 F992 F993
;    5   6 F992 F993 F992 9600 9801           742.00
;
;  END OF ARMSTRONG PARK PUMP SIPHON STORAGE CHANGES 6C
;
    5    6   F36  U17  F36  559  559                          750.56
    3  F35   F87
    2    3   F87  F35  F46
    7  F46   381  1    F45
    4    2   F46  -1   F46  380                               1000.00
    6    1   F45  1    0                                     0.0
    5    6   D18  F1   F1   998  999                          745.00
   15   F1   F2
    7   F8   361  1    F7
    3   F2   F7
    1   18
    5    6   F8   U18  F8   579  537                          742.00
    7  F84   359  1    F83
    5    6   F86  F83  F86  834  834                          744.50
   15  F85   F86
    3  F85   F7
    5    6   F84  U18  F84  580  537                          741.00
    2    4   D19  U18  F84  F8
```

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    2    4   F7   F2   F85  F94
    2    2   F83  F86
    7  F94   396  1    F93
    4    2   F94  -1   F94  397                              745.00
    6    1   F93  1    0                                     0.0
    5    6   D19  U18  D19  551  552                         741.90  /
                        553  553                              750.00  /
                        563  563                              749.00
    1   19
    3  U19   D20
    2    2   U19  D20
    1   20
    2    2   U20  D21
    5    6   D21  U20  D21  591  591                         743.81  /
                        592  592                              750.71  /
                        807  807                              752.85  /
                        593  593                              752.74  /
                        594  594                              752.80
    1   21
    3  U21   D22
    2    2   U21  D22
    1   22
;   ELEVATIONS UPDATED TO REFLECT FOUNTAIN VIEW ROAD AS-BUILTS
    5    6   D123 U22  D123 587  587                         745.34  /
                            1588 1588                        754.21
    3  U22   F182
    1  123
    5    6   D23  U123 D23  1587 1587                        744.90 /
                            588  588                         752.87
    2    2   U123 D23
; 12" DRAINTILE CONNECTION
    3  U22   F164
    2    4   U22  D123 F182 F164
; Fountains at Town Center
;
    6    1   F177  1    0                                    0.0
    7 F178   2101  1    F177
    6    1   F175  1    0                                    0.0
    7 F176   2102  1    F175
    2    3   F178  F176 F173
    5   6    F178  F173 F178 1901 1901                       783.27  /
                             2001 2001                       999.99
    5   6    F176  F173 F176 1902 1902                       780.95  /
                             2002 2002                       999.99
    7 F174   2103  1    F173
    6    1   F167  1    0                                    0.0
    7 F168   2106  1    F167
    2    3   F174  F169 F168
    5    6   F174  F169 F174 1903 1903                       776.26  /
                             2003 2003                       784.51
    5    6   F168  F169 F168 1906 1906                       761.00  /
                             2006 2006                       766.00
    7 F172   2104  1    F171
    7 F170   2107  1    F169
    2    4   F172  F170 F161 F212
    5    6   F172  F161 F172 1904 1904                       755.88  /
                             2004 2004                       764.00
    5    6   F170  F161 F170 1907 1907                       755.50  /
                             2007 2007                       764.10  /
                             2207 2207                       755.68
    7 F162   2105  1    F161
    7 F204   2114  1    F203
    2    3   F162  F215 F163
    5    6   F162  F215 F215 1905 1905                       999.99  /
                             2005 2005                       753.50
    5    6   F162  F163 F163 1905 1905                       750.41
   15 F163   F164
```

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   15 F215   F216
    2    3   F216  F203 F214
    3 F216   F203
    3 F214   F203
    2    2   F204  F165
    5    6   F204  F165 F204 1914 1914                      749.20
   15 F165   F166
;
    6    1   F205  1   0                          0.0
    7 F206   2116  1   F205
    2    3   F206  F211 F213
    5    6   F206  F213 F213 1916 1916                751.00
    5    6   F206  F211 F211 2016 2016                757.00
   15 F211   F212
   15 F213   F214
    3 F161   F212
;
    6    1   F207  1    0                                  0.0
    7 F208   2117  1    F207
    2    4   F208  F166 F209 F194
    5    6   F208  F209 F208 1917 2317                      748.80  /
                           2017 2017                      753.50  /
                           2217 2217                      754.50
    3 F209   F166
;
    7 F210   2115  1    F209
    2    2   F210  F195
    5    6   F210  F195 F210 2315 2315                      999.99  /
                           2015 2015                      748.00  /
                           2215 2215                      750.50
;
    6    1   F183    1  0                                  0.0
    7 F184   2109    1  F183
    2    2   F184  F191
    5    6   F184  F191 F184 1909 1909                      751.40  /
                           2009 2009                      760.00
    6    1   F185  1    0                                  0.0
    7 F186   2110    1  F185
    2    2   F186  F193
    5    6   F186  F193 F186 1910 1910                      754.00  /
                       2010 2010                           760.00
;    6    1  F187  1    0                                  0.0
;    7 F188  2111  1    F187
;    2    2  F188  F195
;    5    6  F188  F195 F188 1911 1911                      750.00  /
;                           2011 2011                      757.00
    6    1   F189  1    0                                  0.0
    7 F190   2112  1    F189
    2    2   F190  F197
    5    6   F190  F197 F190 1912 2312                      747.50  /
                       2012 2012                           753.50  /
                       2212 2212                           754.00
;
   15 F191   F192
   15 F193   F194
   15 F195   F196
   15 F197   F198
   15 F199   F200
    2    4   F192  F196 F198 F199
    3 F199   F192
;    3F199   F194
    3 F209   F194
    3 F199   F196
    3 F199   F198
;
   15 F181   F182
    6    1   F179  1    0                                  0.0
```

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    7 F180   2108  1    F179
    2    3   F180  F181 F201
    5    6   F180  F181 F181 1908 1908                      767.33
    5    6   F180  F201 F201 2008 2008                      777.60
   15 F201   F202
;
    2    2   F202 F171
    3 F202   F171
;
; END OF FOUNTAINS AT TOWN CENTER UPDATE
    1   23
    5    6   D24  U23  D24  549  549                        745.53  /
                           550  550                        755.22
;  FOUNTAIN VIEW ADDITIONS PER CBBEL PLANS
    7  F10   350  1    F9
   15 F420   F421
   15 F422   F423
   15 F424   F425                  1.0E-8   500.0
    2    3   F420 F422 F425
    3 F420   F425
    3 F422   F425
    2    2   F10  F424
   15 F437   F438
   15 F439   F440
       5    6   F10  F424 F10  3224 3224                      750.35
    5    6   F421 F437 F421  3226 3226                      748.18  /
                             3225 3225                      746.2
    5    6   F423 F439 F423  3225 3225                      946.2
       2    2   F437 F421
       2    2   F439 F423
;       3 F438   F12
       3 F440   U23
;    4    2   F10  -1   F10  352                            752.00
    2    3   U23 F440  D24
;   END FOUNTAIN VIEW ADDITIONS PER CBBEL PLANS
    7  F34   302  1    F33
; Updated 1-d table based on as-built information from the County
;    4    2   F34  -1   F34  301                            760.00
    5    6   F34  F9   F34  4023 4023                       759.90  /
                           4024 4024                       768.50
    7  F40   332  1    F39
    4    2   F40  -1   F40  316                            770.50
    2    2   F40  F33
    2    2   F9   F34
    6    1   F39  1    0                                    0.0
    1   24
    3  U24   F12
    2    2   U24  F12
    7  F12   2113  1    F11
;  REVISE GARY AVENUE CULVERT CROSSING
;    1   25
;   15  F13   F14
;    5    1   D25  F11  D25  1    296                        1.0    0.5    746.89
;    5    1   F92  U25  U25  -1   295                        0.2    0.2    747.00
    5    6   F92  F11  F92  3222 3222                       746.94  /
                           803  803                        758.00
;    3  F13   F92
;    2    3   F92  U25  F13
    2    4   F11  F92  F200 F438
;    3 F11   F166
    3  F11   F200
    3  F11   F438
    7  F92   395  1    F91
    2    3   F91  D57  D27
    5    6   D27  F91  D27  911  912                        752.87
    1   27
;************************
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;BEGINNING OF TRIBUTARY 3
;*************************
    5    6   D57  F91  D57  913  914                        750.80
    5    6   D58  U57  U57  527  527                        752.79
;  STRATFORD SQUARE MALL POND 1 - DOWNSTREAM MOST POND
;    4    2   F70  -1   F70  336                             757.27
    5    6   F70  D58 F70   4033 4033                       758.04  /
                            4032 4032                       763.34
    7  F70   318  1    F69
    2    2   F69  F72
;  STRATFORD SQUARE MALL POND 2 - UPSTREAM POND
;    4    2   F72  -1   F72  335                             760.16
    5    6   F72  F69 F72   4031 4031                       761.02  /
                            4030 4030                       767.32
    7  F72   317  1    F71
    2    2   F71  F74
    4    2   F74  -1   F74  337                             768.52
    7  F74   304  1    F73
    6    1   F73  1    0                                    1.0
;     4    2   F78  -1   F78  311                             763.00
;    2   5   F78  D58  F76  U57  F70
    2    5   F78  D58  F408 U57  F70
; LIFETIME FITNESS UPDATE WBK CBBEL APRIL 2010 - CHANGE CODE 4 TO CODE 5
;    4   2   F76  -1   F76  313                              761.00
; LIFETIME FITNESS DETENTION BASIN OUTLET CONTROL STRUCTURE 15-INCH OUTLET PIPE AND WEIR BOX
    5    6   F76  F407 F76  3001 3001                       760.15  /
                            3002 3002                       765.28
;2ND CONTROL STRUCTURE IS 36-INCH OUTLET PIPE AND OVERFLOW DUMMY BRANCH
    5    6   F408 D58  F408 9000 9000                       759.94  /
                            3003 3003                       765.22
    2    2   F76  F407
   15 F407   F408                  1.0E-8   500.0
    7  F76   319  1 F75
    6    1   F75  1   0                                     0.0
;END OF LIFETIME FITNESS MODIFICATIONS
;  COVINGTON POND 6 - CHANGE CODE 4 TO CODE 5 ORIFICE AND WEIR PER PLANS
    5    6   F78  D58 F78   3041 3041                       762.95  /
                            3040 3040                       766.00
    6    1   F77  1    0                                    1.0
    7  F78   312  1    F77
    1   57
    1   58
    5    6   D59  U58  D59  525  525                        753.92
    2    2   U58  D59
    1   59
    1   60
;TRIBUTARY 3 HEADWATERS UPDATES BASED ON 2010 SURVEY
    5    6   D60  U59  D60  523 523                        756.53  /
                            524 524                         760.97
    2    2   U59  D60
;PEPPER CITY CULVERT EXTENSION - JUNE 2001
    1  601
    5    6   U60  D601 U60  3218  3218                      762.80
    2    2   U60  D601
; END OF PEPPER CITY UPDATES
    5    6   U601 D61  U601 521   521                       762.85

;   4    2   F124 -1   F124 366                             800.00
; COSTCO DETENTION BASIN OUTLET CONTROL STRUCTURE
;    5    6   F124 D61  F124 4007 4007                       769.95  /
    5    6   F124 F435 F124 4007 4007                       769.95  /
                            4006 4006                       777.00
    7 F124   367  1    F123
    6    1   F123 1    0                                    0.00
; LOWES DETENTION BASIN OUTLET CONTROL STRUCTURE
;    5    6   F122 D61  F122 4005 4005                       768.85  /
    5    6   F122 F432 F122 4005 4005                       768.85  /
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                            3042 3042                        778.00
    3  D61    F433
    3  D61   F436
    2    2    F124 F435
    2    2   F122 F432
    2    4   F433 F436 D61 U601
   15 F432   F433
   15 F435   F436
;  Moved Lowes detention pond because it drains north of Army trail Road
    7 F122   365  1    F121
    6    1   F121 1    0                                   0.00
    1   61
    5    6   D62  U61  D62  519  519                       762.27
    2    2   U61  D62
;    2   2   U62  F84
    1   62
;DETENTION BASIN DOWNSTREAM OF MALLARD ON WEST SIDE
    7 F126   400  1    F125
    6    1   F125 1    0                                   00.0
;DETENTION BASIN OUTLET CONTROL STRUCTURE
;    5    6   F126 U62  F126 4014 4014                      766.22  /
    5    6   F126 F428 F126 4014 4014                      766.22  /
                            4015 4015                      774.00
;    3 U62   F80
;    6   1   F79  1    0                                   10.00
;DETENTION BASIN DOWNSTREAM OF MALLARD ON EAST SIDE
    7 F406   369  1    F405
    6    1   F405 1    0                                    1.00
;DETENTION BASIN OUTLET CONTROL STRUCTURE
;    5    6   F406 U62  F406 4016 4016                      764.66  /
    5    6   F406 F426 F406 4016 4016                      764.66  /
                            4017 4017                      768.00
;     2   4   U62  F126 F406 F404
;    4   2   F126 -1   F126 368                            800.00
;    2   4   U62  F80  F82  F126
;   15 F79   F80
;STORAGE DOWNSTREAM OF MALLARD LAKE
    7 F404   401  1    F403
;    5    6   F404 U62  F404 3212 3212                      768.74  /
    5    6   F404 F430 F404 3212 3212                      768.74  /
                            4013 4013                      776.00
    3  U62   F431
       3  U62   F427
    3  U62    F429
    2    2   F126 F428
    2    2   F406 F426
       2    2   F404 F430
       2    4   U62  F429 F427 F431
   15 F428   F429
   15 F426   F427
   15 F430   F431
;MALLARD POND UPDATES APRIL 2010
;MALLARD POND ORIFICE AND MANHOLE OVERFLOW
;    4   2   F82  -1   F82  333                            774.27
    7  F82   303  1    F81
    6    1   F81  1    0                                   10.00
    5    6   F82  F401 F82  4008 4008                      773.74  /
                            4009 4009                      777.78
    2    2   F82  F401
;2ND CONTROL STRUCTURE IS 42-INCH PIPE AND BERM OVERFLOW
   15 F401   F402
    5    6   F402 F403 F402 3210 3210                      768.29  /
                            4011 4011                      779.19
    2    2   F402 F403
;END TRIBUTARY 3 HEADWATER UPDATES
;*********************************
;END OF TRIBUTARY 3
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;*********************************
    7 F116   354  1    F115
    6    1   F115 1    0                                    0.00
    4    2   F116 -1   F116 355                             765.00
    2    2   F116 F15
    7  F16   307  1    F15
    4    2   F16  -1   F16  356                             757.90
    2    2   F16  F117
    1   29
    4    2   F18  -1   F18  305                             771.00
    7  F18   306  1    F17
    6    1   F17  1    0                                    0.00
    2    2   U29  F151
    2    4   F150 F18  F153 F155
    5    6   F153 F150 F153 9007 9007                       757.5
    5    6   F155 F150 F155 9003 9003                       758.0
    7 F151   9001 1    F150
   15 F154   F155
    3 F154   F152
    7 F153   9002 1    F152
;THIS IS THE RR SPUR CULVERT
    5    6   D28  U27  D28  529  529                        753.40
    2    2   D28  U27
    2    3   U28  D29  F118
    3  U29   F151
;    5    6   D60  U59  D60  523  523                         756.53  /
;                         524  524                           760.97
;    2    2   U59  D60
    1   28
    7 F118   357  1    F117
    3  U28   F118
    3 F118   D29
    7 F120   363  1    F119
    6    1   F119 1    0                                    0.00
    4    2   F120 -1   F120 362                             766.75
    5    6   D31  F152 D31  930  931                        757.41
    7 F130   373  1    F129
    6    1   F129 1    0                                    0.00
    4    2   F130 -1   F130 372                             800.00
    2    4   F152 D31  F130 F154
    1   31
    7  F20   326  1    F19
    5    6   F20  U31  F20  531  531                        764.00  /
                       532  532                             772.50
    2    3   F20  U31  F120
    7  F24   325  1    F23
    5    6   F24  F19  F24  572  572                        771.26
    2    2   F19  F24
    1   32
    5    6   D32  F23  D32  599  599                        771.84
    7  F22   328  1    F21
    6    1   F21  1    0                                    0.00
    4    2   F22  -1   F22  327                             773.00
    2    3   F22  U32  F28
    3  F28   U32
    6    1   F27  1    0                                    2.0
   15 F27 F28
; CHANGES BY DTO HERE FOR BRANCH 34 STABILITY
    1  34
    5   6 F250 F23 F250 571 571                              772.73
   15 F260 F250
    7 F26 324   1 F25
    5   6 F26 F260 F26 569 569                              774.15 /
                       570 570                              775.30 /
                       561 561                              776.70
    6   1 F25   1   0                                       0.00
    2   3 F260 D34 F26
```

```
    3 D34 F260
; CHANGES BY DTO END HERE FOR BRANCH 34 STABILITY
    2   3 F23 F250 D32
    3 U34 D35
    2   2 U34 D35
    1  35
    3 U35 D36
    2    2   U35  D36
    1   36
    3  U36   D37
    2    2   U36  D37
    1   37
    5    1   D38  U37  D38  1    294                          1.0    0.3 778.76
    2    2   U37  D38
    1   38
    3  U38   F30
    2    3   U38  F30  F32
    6    1   F29  1    0                                     8.00
   15  F29   F30
    4    2   F32  -1   F32  349                              1000.00
    7  F32   353  1    F31
    6    1   F31  1    0                                     0.0
   -1
BNODE=
SPECIAL OUTPUT LOCATIONS
UNIT=   20Prop6c2.hyd
 _BRA NODE IDENTIFICATION
;   0  F38  F38
;   0  F55  F55
;   0  F56  F56
    0  U34  U34
    0  D34  D34
    0  F26  F26
    0  F89  F89
    0  D68  D68
    0  D55  D55
    0 D155  D155
    0 D255  D255
    0 D56   D56
    0  F24  F24
    0F1030  F1030
    0F1031  F1031
    0F1018  F1018
    0F1008  F1008
    0D1025  D1025
    0D1031  D1031
    0F1005  F1005
    0F1009  F1009
    0  F81  F81
    0  F82  F82
    0 F401 F401
    0 F402 F402
    0 F403 F403
    0 F404 F404
    0 F430 F430
    0 F405 F405
    0 F406 F406
    0 F426 F426
    0 F126 F126
    0 F428 F428
    0  U62  U62
    0  D62  D62
    0  U61  U61
    0  F10  F10
    0 F425 F425
    0 F423 F423
    0 F422 F422
```

```
    0 F439 F439
    0 F440 F440
    0 F421 F421
    0 F420 F420
    0 F437 F437
    0 F438 F438
    0  U23  U23
    0  D24  D24
    0  U24  U24
    0  F12  F12
    0  F11  F11
    0 F200 F200
    0  F92  F92
    0 F407  F407
    0 F408  F408
    0  D58  D58
    0  U57  U57
    0  D57  D57
    0  D27  D27
   -1
INPUT FILE SPECIFICATION
 UNIT NAME
   -1
OUTPUT FILE SPECIFICATION
 UNIT  BRA NODE ITEM TYPE NAME
   -1
FUNCTION TABLES
;TABLE#=  500
;TYPE=   -2
;REFL=      0.00 FAC=       1.0
; HEADRATIO FLOWRATIO
;       0.0       1.0
;      0.40       1.0
;      1.00       0.0
;     -1.00
;THESE ARE THE PUMPING TABLES FOR ARMSTRONG PARK - PUMPS RAMP UP OVER 0.2 FT OF HEAD - combined
into 2 pumps for ALT 6C
TABLE#= 9101
TYPE=    2
REFL=    0.0
      HEAD DISCHARGE
       0.0       0.0
     744.0       0.0
    744.05       7.5
    744.10      22.5
    744.20      45.0
    744.30      60.0
     754.0      60.0
     -1.0
TABLE#= 9102
TYPE=    2
REFL=    0.0
      HEAD DISCHARGE
       0.0       0.0
     744.2       0.0
    744.25       7.5
    744.30      22.5
    744.40      45.0
    744.50      60.0
     754.0      60.0
     -1.0
; FOLLOWING TABLES ADDED BY CEMCON,LTD. 10/01, 3/02, 7/02
FILE=  \KLNCRK10\CEMCON\REVIEW-3\CEMCON\KUHNNEW3.TAB
FILE=  \KLNCRK10\CEMCON\REVIEW-3\CEMCON\RT64NEW2.TAB
FILE=  \KLNCRK10\CEMCON\REVIEW-3\CEMCON\REVSEC3.TAB
; BASELINE COND. TABLES FOLLOW
FILE=  \KLNCRK10\TAB9\CPWETLND.TAB
```

```
FILE=  \KLNCRK10\TAB8\MSSEC.TAB
FILE=  \KLNCRK10\TAB7\T2SEC.TAB
FILE=  \KLNCRK10\TAB\T3SEC.TAB
;TABLE#=  -15d:\FONT_R2\TAB8\MS3b92.TAB
;
;NEW TABLES FOR PROPOSED ALT6C OVERFLOW AND SIPHON PIPE
FILE=    \KLNCRK10\fequtl\cbbel\PROP6C\EMB6C.TAB
FILE=    \KLNCRK10\fequtl\cbbel\PROP6C\ZERO.TAB
FILE=    \KLNCRK10\fequtl\cbbel\PROP6C\ORF6A.TAB
FILE=    \KLNCRK10\fequtl\cbbel\PROP6C\STOR6c.TAB
;
;
; NEW GARY KEHOE SPILLWAY WITH STOPLOGS REMOVED - DTO JULY 2010
FILE=    \KLNCRK10\FEQUTL\CBBEL\PROP2\GK_SPILL.TAB
;
FILE=  \KLNCRK10\TAB8\F92BASE.TAB
FILE=  \KLNCRK10\TAB8\BOXORIF3.TAB
FILE=  \KLNCRK10\TAB7\T2.TAB
FILE=  \KLNCRK10\TAB\T3.TAB
FILE=  \KLNCRK10\TAB6\ONED1.TAB
; FILE=  \KLNCRK10\TAB6\zeroflow.tab
; TABLE#=  -15C:\KLEIN\TAB6\STOR.TAB
FILE=  \KLNCRK10\TAB6\STOR2_July2010.TAB
FILE=  \KLNCRK10\TAB\3940.TAB
FILE=  \KLNCRK10\TAB12\B48INCH2.TAB
FILE=  \KLNCRK10\TAB12\B117x79.TAB
FILE=  \KLNCRK10\TAB12\EATONSTO.TAB
FILE=  \KLNCRK10\TAB12\EATONDIS.TAB
FILE=  \KLNCRK10\TAB13\RDOVERFL.TAB
FILE=  \KLNCRK10\TAB13\P36BYPAS.TAB
FILE=  \KLNCRK10\TAB13\P36IN2.TAB
; COMMENT OUT OLD GARY KEHOE SPILLWAY
;FILE=  \KLNCRK10\TAB13\SPILLWY2.TAB
FILE=  \KLNCRK10\TAB13\PDBOX3x7.TAB
; COMMENT OUT EXISTING GARY KEHOE SPILLWAY
;FILE=  \KLNCRK10\TAB13\GK_EMANKQ2010.TAB
FILE=  \KLNCRK10\TAB13\P18INCH3.TAB
FILE=  \KLNCRK10\TAB16\PT2SEC2.TAB
;
;   AS-BUILT FOUNTAIN VIEW ROAD TABLE FILES
;
;
FILE=  \KLNCRK10\FountainView\fequtl\cbbel\ms3b92.tab
FILE=  \KLNCRK10\FountainView\fequtl\cbbel\baselr\xsec.TAB
FILE=  \KLNCRK10\FountainView\fequtl\cbbel\asbuilt\sp1box_b.TAB
FILE=  \KLNCRK10\FountainView\fequtl\cbbel\asbuilt\embk_as.TAB
FILE=  \KLNCRK10\FountainView\fequtl\cbbel\asbuilt\culvAsbl.TAB
;
FILE=  \KLNCRK10\FountainView\tables\9207p87\baseline\wSchool.sto
FILE=  \KLNCRK10\FountainView\tables\9207p87\baseline\eSchool.sto
FILE=  \KLNCRK10\FountainView\tables\9207p87\baseline\BurkN.sto
FILE=  \KLNCRK10\FountainView\tables\9207p87\baseline\arSouth.sto
;TABLE#=  -15\FONT_R2\tables\9207p87\baseline\wland_ex.sto
;TABLE#=  -15\FountainView\FONT_R2\tables\9207p87\baseline\arn_ex.sto
FILE=  \KLNCRK10\FountainView\tables\9207p87\baseline\TowerInd.sto
FILE=  \KLNCRK10\FountainView\tables\9207p87\baseline\BurkS.sto
;TABLE#=  -15\FONT_R2\tables\9207p87\baseline\ogap_ex.sto
;
FILE=  \KLNCRK10\FountainView\tables\9207p87\baseline\eSch_ol.tab
FILE=  \KLNCRK10\FountainView\tables\9207p87\baseline\wSch_ol.tab
FILE=  \KLNCRK10\FountainView\tables\9207p87\baseline\BurkN_ol.tab
FILE=  \KLNCRK10\FountainView\tables\9207p87\baseline\ars_ol.tab
;TABLE#=  -15\FONT_R2\fequtl\9207p87\baseline\wlEx_ol.tab
FILE=  \KLNCRK10\FountainView\tables\9207p87\baseline\tInd_ol.tab
;TABLE#=  -15\FONT_R2\fequtl\9207p87\baseline\arnEx_ol.tab
FILE=  \KLNCRK10\FountainView\tables\9207p87\baseline\BurkS_ol.tab
;
```

```
FILE=  \KLNCRK10\FountainView\tables\9207p87\proposed\arN_pr.sto
;TABLE#=  -15\FountainView\FONT_R2\tables\9207p87\proposed\wland_pr.sto
;TABLE#=  -15\FountainView\FONT_R2\tables\9207p87\proposed\ogap_pr.sto
FILE=  \KLNCRK10\FountainView\tables\9207p87\proposed\PondA.sto
FILE=  \KLNCRK10\FountainView\tables\9207p87\proposed\PondB.sto
;TABLE#=  -15\FountainView\FONT_R2\tables\9207p87\proposed\PondC.sto
;TABLE#=  -15\FountainView\FONT_R2\tables\9207p87\proposed\CompS.sto
FILE=  \KLNCRK10\FountainView\tables\9207p87\proposed\6ft_mh.sto
;
;TABLE#=  -15\FONT_R2\fequtl\9207p87\proposed\arnPr_ol.TAB
;TABLE#=  -15\FONT_R2\fequtl\9207p87\proposed\wlPrE_ol.TAB
;TABLE#=  -15\FONT_R2\fequtl\9207p87\proposed\wlMH_ol.TAB
;TABLE#=  -15\FONT_R2\fequtl\9207p87\proposed\pondA_ol.TAB
;TABLE#=  -15\FONT_R2\fequtl\9207p87\proposed\pondB_ol.TAB
;TABLE#=  -15\FONT_R2\fequtl\9207p87\proposed\pondC_ol.TAB
FILE=  \KLNCRK10\FountainView\tables\9207p87\proposed\comSA_ol.TAB
;
FILE=  \KLNCRK10\FountainView\tables\9207p87\CGLPR2\OGA.STO
FILE=  \KLNCRK10\FountainView\tables\9207p87\CGLPR2\BASC.STO
FILE=  \KLNCRK10\FountainView\tables\9207p87\CGLPR2\SECOMP.STO
FILE=  \KLNCRK10\FountainView\tables\9207p87\CGLPR2\CORNER.STO
FILE=  \KLNCRK10\FountainView\tables\9207p87\CGLPR2\WLAND.STO
FILE=  \KLNCRK10\FountainView\tables\9207p87\CGLPR2\CompS.STO
;
FILE=  \KLNCRK10\FountainView\tables\9207p87\CGLPR2\SECOMP.TAB
FILE=  \KLNCRK10\FountainView\tables\9207p87\CGLPR2\CORNER.TAB
FILE=  \KLNCRK10\FountainView\tables\9207p87\CGLPR2\WLAND.TAB
FILE=  \KLNCRK10\FountainView\tables\9207p87\CGLPR2\arnPr_ol.TAB
FILE=  \KLNCRK10\FountainView\tables\9207p87\CGLPR2\wlMH_ol.TAB
FILE=  \KLNCRK10\FountainView\tables\9207p87\CGLPR2\pondA_ol.TAB
FILE=  \KLNCRK10\FountainView\tables\9207p87\CGLPR2\pondB_ol.TAB
FILE=  \KLNCRK10\FountainView\tables\9207p87\CGLPR2\pondC_ol.TAB
;
;TRIBUTARY 3 HEADWATERS TABLES
;
;FILE=  \KLNCRK10\TAB12\REV\EMBANK_JULY2010.TAB
FILE=  \KLNCRK10\TAB12\EMBANK_JULY2010.TAB
FILE=  \KLNCRK10\TAB12\ORIFICE_JULY2010.TAB
FILE=  \KLNCRK10\TAB12\CULVERT_JULY2010.TAB
;
;  TABLES FOR LENZ PARK
;
; BELOW FILE, PB180XS.TAB, IS THE SAME AS \KLNCRK10\TAB8\MSSEC.TAB
;FILE=  \KLNCRK10\LENZPK\bridges\feq\PB180XS.TAB
FILE=  \KLNCRK10\LENZPK\bridges\fequtl\B2.TAB
FILE=  \KLNCRK10\LENZPK\bridges\fequtl\B1.TAB
FILE=  \KLNCRK10\LENZPK\bridges\fequtl\BR1DCHN.TAB
FILE=  \KLNCRK10\LENZPK\bridges\fequtl\100B2ACH.TAB
FILE=  \KLNCRK10\LENZPK\LPEX_XS.TAB
;
FILE=  \KLNCRK10\LENZPK\SWPOND\FEQUTL\SWWEIR.TAB
FILE=  \KLNCRK10\LENZPK\LPDPIPE4.TAB
FILE=  \KLNCRK10\LENZPK\SWPOND\FEQUTL\SWPNDREV.TAB
;
; 250 Kehoe Improvements
;
FILE=  \KLNCRK10\250Kehoe\9207p109\proposed\xs_pr.tab
FILE=  \KLNCRK10\250Kehoe\9207p109\proposed\brid1pr.tab
FILE=  \KLNCRK10\250Kehoe\9207p109\proposed\brid2pr.tab
;
;TRIBUTARY 1 TABLES
;
FILE=  \KLNCRK10\Trib1\KLEIN.TB1
FILE=  \KLNCRK10\Trib1\KLEIN.TB2
FILE=  \KLNCRK10\Trib1\STGSTOR.WP
FILE=  \KLNCRK10\Trib1\CULVFIN.TAB
FILE=  \KLNCRK10\Trib1\SEWER.TAB
```

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FILE=  \KLNCRK10\Trib1\MISC1D.TAB
FILE=  \KLNCRK10\Trib1\EXPCON.TAB
FILE=  \KLNCRK10\Trib1\CHANRAT.TAB
FILE=  \KLNCRK10\Trib1\EMBANK.TAB
FILE=  \KLNCRK10\Trib1\TRIB1.tab
FILE=  \KLNCRK10\Trib1\XSECS.TAB
FILE=  \KLNCRK10\Trib1\SEWERGAG.TAB
FILE=  \KLNCRK10\Trib1\STG-GAG.TAB
FILE=  \KLNCRK10\Trib1\ORIFICE.TAB
FILE=  \KLNCRK10\Trib1\CLOWXSN.TAB
FILE=  \KLNCRK10\Trib1\CLOW.TAB
FILE=  \KLNCRK10\Trib1\CULVERT.TAB
TABID=    -1
;
FREE NODE INITIAL CONDITIONS
 NODE_     NAME      DEPTH DISCHARGE ELEVATION
   F1  OFLAKEGE     742.00      0.00       .00
   F2  OFLAKEGE     742.00      0.00       .00
   F3  OFGARYKE     754.38      0.00       .00
   F4  OFGARYKE     754.38      0.00       .00
   F7  LAKEGEOR     742.00      0.00       .00
   F8  LAKEGEOR     742.00      0.00       .00
   F9  LRBASN71     752.00      0.00       .00
  F10  LRBASN71     752.00      0.00       .00
  F11  OLDGPOND     747.25     20.00       .00
; F12  OLDGPOND     748.92     20.00       .00
  F12  OLDGPOND     747.25     20.00       .00
;  F13  OFGARYMS       2.02      0.00    746.90
;  F14  OFGARYMS       2.02      0.00    746.90
  F15  NHOFCC&P     757.90      0.00       .00
  F16  NHOFCC&P     757.90      0.00       .00
  F17  MSADEVEL     771.00      0.00       .00
  F18  MSADEVEL     771.00      0.00       .00
  F19  MILLWETL     764.63      3.00       .00
  F20  MILLWETL     764.63      3.00       .00
  F21  SEIMSPND     773.00      0.00       .00
  F22  SEIMSPND     773.00      0.00       .00
; F23  MILLPOND     772.86      3.00       .00
  F23  MILLPOND     772.86      4.50       .00
  F24  MILLPOND     772.86      3.00       .00
  F25  WWSUBDIV     774.15      0.00       .00
  F26  WWSUBDIV     774.15      0.00       .00
  F27  FIXQNODE     772.90      2.00       .00
  F28  FIXQNODE     772.90      2.00       .00
;  F29  FIXQNODE     781.84      2.50       .00
  F29  FIXQNODE     781.84      8.00       .00
  F30  FIXQNODE     781.84      2.50       .00
  F31  LRHESTER    1000.00      0.00       .00
  F32  LRHESTER    1000.00      0.00       .00
  F33  CAROLPT2     760.00      0.00       .00
  F34  CAROLPT2     760.00      0.00       .00
  F35  GREENWOF     742.70      0.00       .00
  F36  GREENWOF     742.70      0.00       .00
  F37  U/SCNTFM    1000.00      0.00       .00
  F38  U/SCNTFM    1000.00      0.00       .00
  F39  DETWOFKI     770.50      2.00       .00
  F40  DETWOFKI     770.50      0.00       .00
  F41  MH212DM1     749.86      9.00       .00
  F42  MH212DM1     749.86      9.00       .00
  F43  MH212DM2     749.86      0.00       .00
  F44  MH212DM2     749.86      0.00       .00
  F45  LRUSGRWY    1000.00      0.00       .00
  F46  LRUSGRWY    1000.00      0.00       .00
  F47  LRUSGYKE    1000.05      0.50       .00
  F48  LRUSGYKE    1000.05      0.50       .00
; F51  GARYKEHO     749.70      0.00       .00
  F51  GARYKEHO     747.00      0.00       .00
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  F52  GARYKEHO     747.00      0.00       .00
  F53  EX36INCH     753.03      9.00       .00
  F54  EX36INCH     753.03      9.00       .00
  F55  STPAULWT     761.60      0.00       .00
  F56  STPAULWT     761.60      0.00       .00
  F57  STPAULET     778.00      0.00       .00
  F58  STPAULET     778.00      0.00       .00
  F59  FIXQNODE       0.68      8.00    779.96
  F60  FIXQNODE       0.68      8.00    779.96
  F61  GHBNPARK     785.00      0.00       .00
  F62  GHBNPARK     785.00      0.00       .00
  F63  GHGOLFCR     790.50      1.00       .00
  F64  GHGOLFCR     790.50      0.00       .00
  F65  WTLNDIFL     753.18      0.00       .00
  F66  WTLNDIFL     753.18      0.00       .00
  F69  STRFDSQW     757.27      1.00       .00
  F70  STRFDSQW     757.27      0.00       .00
  F71  STRFDSQM     760.16      1.00       .00
  F72  STRFDSQM     760.16      1.00       .00
  F73  STRFDSQE     768.52      1.00       .00
  F74  STRFDSQE     768.52      1.00       .00
  F75  LIFEFITN     760.00      0.00       .00
  F76  LIFEFITN     760.00      0.00       .00
 F407  LFOVERFL     765.22      0.00       .00
 F408  LFOVERFL     765.22      0.00       .00
  F77  COVINGTN     763.00      1.00       .00
  F78  COVINGTN     763.00      0.00       .00
;  F79  FIXQNODE       0.83     10.00    765.11
;  F80  FIXQNODE       0.83     10.00    765.11
  F81  MALRDLKE     774.26      0.00       .00
  F82  MALRDLKE     774.26      0.00       .00
 F401  MLLDOVFL     769.50      10.0       .00
 F402  MLLDOVFL     769.50      10.0       .00
  F83  ARMSTPRK     741.00      0.00       .00
  F84  ARMSTPRK     741.00      0.00       .00
  F85  LKGEOARM     742.00      0.00       .00
  F86  LKGEOARM     742.00      0.00       .00
  F87  GREENDET     742.70      0.00       .00
  F88  GREENDET     742.70      0.00       .00
  F89  KEHODTCH     753.18      8.00       .00
  F90  KEHODTCH     753.18      8.00       .00
  F91  HOMEBASE     748.00     20.00       .00
  F92  HOMEBASE     748.00     20.00       .00
  F93  HEATHROW     745.00      0.00       .00
  F94  HEATHROW     745.00      0.00       .00
  F95  WWTPRESV     739.00      0.00       .00
  F96  WWTPRESV     739.00      0.00       .00
  F97  WWTPREOF     740.29      0.00       .00
  F98  WWTPREOF     740.29      0.00       .00
 F100  FIXNODT1       0.63      4.00    720.92
 F101  FIXNODT1       0.63      4.00    720.92
 F102  TIMBRRDG     725.49      1.00       .00
 F103  TIMBRRDG     725.49      0.00       .00
; F104  CONNAT39       1.00      1.00    718.33
; F105  CONNAT39       1.00      1.00    718.33
; F106  CONNATU6       1.72      1.00    715.08
; F107  CONNATU6       1.72      1.00    715.08
 F108  CONNATU6       1.68      1.00    728.20
 F109  CONNATU6       1.68      0.00    728.20
 F115  BA1NOFRR     765.00      0.00       .00
 F116  BA1NOFRR     765.00      0.00       .00
 F117  BA3NOFRR     757.59      0.00       .00
 F118  BA3NOFRR     757.59      6.0       .00
 F119  CAROLPT3     766.75      0.00       .00
 F120  CAROLPT3     766.75      0.00       .00
 F121  LOWESB60     768.84      0.00       .00
 F122  LOWESB60     768.84      0.00       .00
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 F432  DUMMYBRA     768.84      0.00       .00
 F433  DUMMYBRA     768.84      0.00       .00
 F123  COSTCO61     769.99      0.00       .00
 F124  COSTCO61     769.99      0.00       .00
 F435  DUMMYBRA     769.99      0.00       .00
 F436  DUMMYBRA     769.99      0.00       .00
 F125  WOFMALLD     766.50      10.0       .00
 F126  WOFMALLD     766.50      10.0       .00
 F428  DUMMYBRA     766.00      10.0       .00
 F429  DUMMYBRA     766.00      0.00       .00
; F127  FUTDET24     800.00      0.00       .00
; F128  FUTDET24     800.00      0.00       .00
 F129  FUTDET75     800.00      0.00       .00
 F130  FUTDET75     800.00      0.00       .00
; F131  FUTDET76     800.00      0.00       .00
; F132  FUTDET76     800.00      0.00       .00
 F135  MH212DM3     749.86      9.00       .00
 F136  MH212DM3     749.86      10.0       .00
 F137  MH210DMY     752.17      9.00       .00
 F138  MH210DMY     752.17      9.00       .00
 F145  36INBYPS     753.18      9.00       .00
 F146  36INBYPS     753.18      9.00       .00
 F147  BYPSDTCH     753.18      1.00       .00
 F148  BYPSDTCH     753.18      1.00       .00
 F150  CPWETLND     757.00      3.00       .00
;F151  CPWETLND     757.00      3.00       .00
;F151  CPWETLND     757.00      4.00       .00
 F151  CPWETLND     757.04      4.00       .00
 F152  CPWETLND     758.00      3.00       .00
 F153  CPWETLND     758.00      3.00       .00
 F154  CPWETOVF     758.00      0.00       .00
 F155  CPWETOVF     758.00      0.00       .00
 F157  EATONFLW    1000.50      0.50       .00
 F158  EATONFLW    1000.50      0.50       .00
 F159  PDROPBOX     755.75      1.00       .00
 F160  PDROPBOX     755.75      1.00       .00
;
;FOUNTAIN VIEW
;
 F161  WETLAND      750.41      0.00       .00
 F162  WETLAND      750.41      0.00       .00
 F163  WETLOL       750.41      0.00       .00
 F164  WETLOL       750.41      0.00       .00
 F165  WETLOL       748.40      0.00       .00
 F166  WETLOL       748.40      0.00       .00
 F167  TOWINDUS     761.00      0.00       .00
 F168  TOWINDUS     761.00      0.00       .00
 F169  AUTRIDN      755.50      0.00       .00
 F170  AUTRIDN      755.50      0.00       .00
 F171  AUTRIDS      755.80      0.00       .00
 F172  AUTRIDS      755.80      0.00       .00
 F173  BURKN        776.26      0.00       .00
 F174  BURKN        776.26      0.00       .00
 F175  ESCHOOL      780.95      0.00       .00
 F176  ESCHOOL      780.95      0.00       .00
 F177  WSCHOOL      783.27      0.00       .00
 F178  WSCHOOL      783.27      0.00       .00
 F179  BURKS        767.33      0.00       .00
 F180  BURKS        767.33      0.00       .00
 F181  BURKSOL      741.92      0.00       .00
 F182  BURKSOL      741.92      0.00       .00
 F183  PONDA        751.40      0.00       .00
 F184  PONDA        751.40      0.00       .00
 F185  PONDB        754.00      0.00       .00
 F186  PONDB        754.00      0.00       .00
 F189  COMPSTO      747.50      0.00       .00
 F190  COMPSTO      747.50      0.00       .00
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 F191  PONDAOL      748.92      0.00       .00
 F192  PONDAOL      748.92      0.00       .00
 F193  PONDBOL      748.92      0.00       .00
 F194  PONDBOL      748.92      0.00       .00
 F195  CORNROL      748.92      0.00       .00
 F196  CORNROL      748.92      0.00       .00
 F197  COMPSOL      748.92      0.00       .00
 F198  COMPSOL      748.92      0.00       .00
 F199  CONNECT      748.92      0.00       .00
 F200  CONNECT      748.92      0.00       .00
 F201  BURKSOL      755.80      0.00       .00
 F202  BURKSOL      755.80      0.00       .00
 F203  BURKSOL      749.20      0.00       .00
 F204  BURKSOL      749.20      0.00       .00
 F205  PONDC        751.00      0.00       .00
; F206  PONDC        751.00      0.00       .00
 F206  PONDC        750.41      0.00       .00
 F207  COMPSE       748.80      0.00       .00
 F208  COMPSE       748.80      0.00       .00
 F209  CORNER       748.92      0.00       .00
 F210  CORNER       748.92      0.00       .00
 F211  CONNECT      752.70      0.00       .00
 F212  CONNECT      752.70      0.00       .00
 F213  CONNECT      749.20      0.00       .00
 F214  CONNECT      749.20      0.00       .00
 F215  CONNECT      749.20      0.00       .00
 F216  CONNECT      749.20      0.00       .00
 F403  DSMALLD      769.20      10.0       .00
 F404  DSMALLD      769.20      10.0       .00
 F430  DUMMYBRA     767.00      10.0       .00
 F431  DUMMYBRA     767.00      10.0       .00
 F405  EOFMLLD      765.00      0.00       .00
 F406  EOFMLLD      765.00      0.00       .00
 F426  DUMMYBRA     765.00      0.00       .00
 F427  DUMMYBRA     765.00      0.00       .00
;
;LENZ PARK SW POND
;
 F409  LPSWPOND     737.55      10.0       .00
 F410  LPSWPOND     737.55      0.00       .00
 F411  LPSWWEIR    736.904      0.00       .00
 F412  LPSWWEIR    736.904      0.00       .00
 F413  LPDPIPE     736.904      0.00       .00
 F414  LPDPIPE     736.904      0.00       .00
 F415  LPDPIPE     736.904      0.00       .00
 F416  LPDPIPE     736.904      0.00       .00
;
; FOUNTAIN VIEW PER CBBEL PLANS
;
 F425  JNCTBX      749.85       0.00       .00
 F424  JNCTBX      749.85       0.00       .00
 F423  48INCH      746.25       0.00       .00
 F422  48-INCH     746.25       0.00       .00
 F421  48-INCH2    749.25       0.00       .00
 F420  48-INCH2    749.25       0.00       .00
 F437  DUMMYBRA    746.75       0.00       .00
 F438  DUMMYBRA    746.75       0.00       .00
 F439  DUMMYBRA    746.25       0.00       .00
 F440  DUMMYBRA    746.25       0.00       .00
;
;TRIB 1
 F1001 T1WETLR     770.16      1.00       .00
 F1002 T1WETLF     770.16      1.00       .00
 F1003 T1PARKR     769.48      1.00       .00
 F1004 T1PARKF     769.48      1.00       .00
 F1005 T1GAGPR     764.00      3.00       .00
 F1006 T1GAGPF     764.00      3.00       .00
```

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 F1007 T1INFLU     764.00      0.00       .00
 F1008 T1INFLD     764.00      0.00       .00
 F1009 T1PUMPU     764.00      3.00       .00
 F1010 T1PUMPD     764.00      2.00       .00
 F1011 T1GARYR     766.40      0.00       .00
 F1012 T1GARYF     766.40      0.00       .00
 F1013 T1OVERU     765.50      0.00       .00
 F1014 T1OVERD     765.50      0.00       .00
 F1015 T1WTOVU     769.48      0.00       .00
 F1016 T1WTOVD     769.48      0.00       .00
 F1017 T1NPOVU     764.00      0.00       .00
 F1018 T1NPOVD     764.00      0.00       .00
 F1030 T1TILED     700.00      1.50       .00
 F1031 T1TILEU     700.00      2.00       .00
 F1032 T1BSFLW     758.00      1.50       .00
 F1033 T1BSFLW     758.00      4.00       .00
 F1034 T1OVERL       1.36      0.00    735.87
 F1035 T1OVERL       1.36      0.00    735.87
 F1036 T1CNTYF       1.97      0.00    731.81
 F1037 T1CNTYF       1.97      0.00    731.81
 F1038 TIMB_IN     719.08      6.00       .00
 F1039 TIMB_RES    719.08      4.00       .00
;F1040 PP-LINR    1000.00      0.00       .00
;F1041 PP-LINR    1000.00      0.00       .00
;F1042 PP-TIMIN    725.49      0.00       .00
;F1043 PP-TIMRV    725.49      0.00       .00
;F1044 PP-BSFLW      0.63      4.00    720.92
;F1045 PP-BSFLW      0.63      4.00    720.92
 F1046 PPTIMBS     719.08      0.00       .00
 F1047 PPTIMBS     719.08      0.00       .00
 F1130 T1INPDM     764.00      0.00      0.00
 F1131 T1RESVM     764.00      0.00      0.00
 F1132 T1INPNO     758.10      3.00      0.00
 F1133 T1RSVNO     758.10      3.00      0.00
 F1134 T1UINLT     758.10      3.00      0.00
 F1135 T1DINLT     758.10      3.00      0.00
 F1136 T1INPDA     757.00      3.00      0.00
 F1137 T1RESVA     757.00      3.00      0.00
 F1138 T1INPDB     752.50      3.00      0.00
 F1139 T1RESVB     752.50      3.00      0.00
 F1140 T1INPDC     748.00      3.00      0.00
 F1141 T1RESVC     748.00      3.00      0.00
 F1142 T1RESCU     748.00      3.00      0.00
 F1143 T1RESCD     748.00      3.00      0.00
 F1144 T1BASFU     748.00      3.00      0.00
 F1145 T1BASFD     748.00      3.00      0.00
 F1200 TAINPDD     745.00      0.00      0.00
 F1201 TARESVD     745.00      0.00      0.00
 F1202 TAINPDE     745.00      1.00      0.00
 F1203 TARESVE     745.00      1.00      0.00
 F1204 TAINPDF     741.50      1.00      0.00
 F1205 TARESVF     741.50      1.00      0.00
 F1206 TAINPDG     734.50      1.00      0.00
 F1207 TARESVG     734.50      0.00      0.00
 F1208 TAINPDH     752.00      1.00      0.00
 F1209 TARESVH     752.00      1.00      0.00
 F1210 TAINPDI     752.00      1.00      0.00
 F1211 TARESVI     752.00      1.00      0.00
 F1212 TAINPDK     754.50      2.00      0.00
 F1213 TARESVK     754.50      1.00      0.00
 F1214 T1INPDL     767.00      0.00      0.00
 F1215 T1RESVL     767.00      0.00      0.00
 F1218 TAINPDJ     755.00      0.00      0.00
 F1219 TARESVJ     755.00      0.00      0.00
;
;  ADDED BY DTO FOR BRANCH 34
 F260 B34          772.92      0.00       .00   -1
```

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 F250 B34          772.92      0.00       .00   +1
; ADDED BY DTO FOR INTERSECTION OVERFLOW
 F300 GK1          754.38      0.00       .00   -1
 F400 GK1          754.38      0.00       .00   +1
; ADDED BY DTO FOR AMRSTRONG PARK PUMP STORAGE
 F973 AST          742.00      0.00       .00   -1
 F974 AST          742.00      0.00       .00   +1
 F981 PAST         742.00      0.00       .00   -1
 F982 PAST         742.00      0.00       .00   +1
 F975 MFN          742.80      0.00       .00   -1
 F976 MFN          742.80      0.00       .00   +1
 F983 PMP1         742.80      0.00       .00   -1
 F984 PMP1         742.80      0.00       .00   +1
 F985 PMP2         742.80      0.00       .00   -1
 F986 PMP2         742.80      0.00       .00   +1
 F987 RESOU        742.80      0.00       .00   -1
 F988 RESOD        742.80      0.00       .00   +1
 F989 RESOU        742.80      0.00       .00   -1
 F990 RESOD        742.80      0.00       .00   +1
 F991 WROV         758.00      0.00       .00   -1
 F992 WROV         758.00      0.00       .00   +1
 F993 SPHN         742.00      0.00       .00   -1
 F994 SPHN         742.00      0.00       .00   +1
;
BACKWATER ANALYSIS
BRANCH NUMBER=   -1
DISCHARGE=  75.
BRANCH NUMBER=   -2
DISCHARGE=  37.
BRANCH NUMBER=   -3
DISCHARGE=  38.
BRANCH NUMBER=   -4
DISCHARGE=  30.
BRANCH NUMBER=   -5
DISCHARGE=  30.
BRANCH NUMBER=   -6
DISCHARGE=  30.
BRANCH NUMBER=   -7
DISCHARGE=  30.
;BRANCH NUMBER=   -8
;DISCHARGE=  30.
BRANCH NUMBER=   -9
DISCHARGE=  30.
;BRANCH NUMBER=  -10
;DISCHARGE=  30.
BRANCH NUMBER=  -12
DISCHARGE=  30.
BRANCH NUMBER=  -13
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BRANCH NUMBER=  -14
DISCHARGE=  30.
BRANCH NUMBER=  -15
DISCHARGE=  30.
BRANCH NUMBER=  -16
DISCHARGE=  20.
BRANCH NUMBER=  -17
DISCHARGE=  20.
BRANCH NUMBER=  -18
DISCHARGE=  20.
BRANCH NUMBER=  -19
DISCHARGE=  20.
BRANCH NUMBER=  -20
DISCHARGE=  20.
BRANCH NUMBER=  -21
DISCHARGE=  20.
BRANCH NUMBER=  -22
DISCHARGE=  20.
```

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BRANCH NUMBER=  -23
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BRANCH NUMBER=  -24
DISCHARGE=  20.
;BRANCH NUMBER=  -25
;DISCHARGE=  20.
BRANCH NUMBER=  -27
DISCHARGE=   10.
BRANCH NUMBER=  -28
DISCHARGE=   10.
BRANCH NUMBER=  -29
DISCHARGE=   4.
BRANCH NUMBER=  -31
DISCHARGE=   3.
BRANCH NUMBER=  -32
DISCHARGE=   2.
BRANCH NUMBER=  -34
DISCHARGE=   2.5
BRANCH NUMBER=  -35
DISCHARGE=   2.5
BRANCH NUMBER=  -36
DISCHARGE=   2.5
BRANCH NUMBER=  -37
DISCHARGE=   2.5
BRANCH NUMBER=  -38
DISCHARGE=   2.5
BRANCH NUMBER=  -39
DISCHARGE=   4.
BRANCH NUMBER=  -40
DISCHARGE=   4.
BRANCH NUMBER=  -44
DISCHARGE=  30.
BRANCH NUMBER=  -51
DISCHARGE=  10.
BRANCH NUMBER=  -52
DISCHARGE=  10.
BRANCH NUMBER=  -53
DISCHARGE=  10.
BRANCH NUMBER=  -54
DISCHARGE=  10.
BRANCH NUMBER=  -55
DISCHARGE=  8.
;BRANCH NUMBER=  -55
;DISCHARGE=   8.
BRANCH NUMBER=  -56
DISCHARGE=  8.
BRANCH NUMBER=  -57
DISCHARGE=  10.
BRANCH NUMBER=  -58
DISCHARGE=  10.
BRANCH NUMBER=  -59
DISCHARGE=  10.
BRANCH NUMBER=  -60
DISCHARGE=  10.
BRANCH NUMBER=  -61
DISCHARGE=  10.
BRANCH NUMBER=  -62
DISCHARGE=  10.
BRANCH NUMBER=  -68
DISCHARGE=  8.
BRANCH NUMBER=  -71
DISCHARGE=  1.
BRANCH NUMBER=  -80
DISCHARGE=  30.
BRANCH NUMBER=  -81
DISCHARGE=  30.
BRANCH NUMBER=  -82
```

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DISCHARGE=  30.
BRANCH NUMBER=  -83
DISCHARGE=  30.
BRANCH NUMBER= -123
DISCHARGE=  20.
BRANCH NUMBER= -155
DISCHARGE=   8.
BRANCH NUMBER= -255
DISCHARGE=   8.
BRANCH NUMBER= -601
DISCHARGE=  10.
; TRIB 1 BRANCHES
;BRANCH NUMBER=   -1001
;DISCHARGE=  29.
;BRANCH NUMBER=   -1002
;DISCHARGE=  29.
;BRANCH NUMBER=   -1003
;DISCHARGE=  29.
;BRANCH NUMBER=   -1004
;DISCHARGE=  29.
;BRANCH NUMBER=   -1005
;DISCHARGE=  29.
;BRANCH NUMBER=   -1006
;DISCHARGE=  29.
;BRANCH NUMBER=   -1007
;DISCHARGE=  30.
;BRANCH NUMBER=   -1008
;DISCHARGE=  30.
;BRANCH NUMBER=   -1009
;DISCHARGE=  30.
;BRANCH NUMBER=  -1010
;DISCHARGE=  40.
;BRANCH NUMBER=  -1011
;DISCHARGE=  37.
;BRANCH NUMBER=  -1012
;DISCHARGE=  77.
;BRANCH NUMBER=-1120
;DISCHARGE=  0.0
BRANCH NUMBER=-1020
DISCHARGE=   1.
BRANCH NUMBER=-1021
DISCHARGE=   1.
BRANCH NUMBER=-1022
DISCHARGE=   1.
BRANCH NUMBER=-1023
DISCHARGE=   1.
BRANCH NUMBER=-1024
DISCHARGE=   1.
BRANCH NUMBER=-1025
DISCHARGE=   1.
BRANCH NUMBER=-1026
DISCHARGE=   2.
BRANCH NUMBER=-1027
DISCHARGE=   2.
BRANCH NUMBER=-1028
DISCHARGE=   2.
BRANCH NUMBER=-1029
DISCHARGE=   2.
BRANCH NUMBER=-1030
DISCHARGE=   2.
BRANCH NUMBER=-1031
DISCHARGE=   2.
BRANCH NUMBER=-1032
DISCHARGE=   2.
BRANCH NUMBER=-1033
DISCHARGE=  1.5
BRANCH NUMBER=-1034
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DISCHARGE=   6.
BRANCH NUMBER=-1035
DISCHARGE=   6.
BRANCH NUMBER=-1036
DISCHARGE=   6.
BRANCH NUMBER=-1037
DISCHARGE=   6.
BRANCH NUMBER=-1038
DISCHARGE=   6.
BRANCH NUMBER=-1039
DISCHARGE=   6.
;BRANCH NUMBER=  -1040
;DISCHARGE=   4.
;BRANCH NUMBER=  -1041
;DISCHARGE=   4.
BRANCH NUMBER=-1121
DISCHARGE=  2.0
  BRA CODE ELEVATION _EXN#
    1    3    712.45
    2                  U1
    3                  D2
    4                  U3
    5                  U4
    6                  U5
   44                  U6
    7                 U44
;    8                  U7
;    9    1    740.0
    9    1    739.53
;   10         0.4     U8
   80          0.09    U7
   81          0.02   U80
   82          0.29   U81
   83          0.01   U82
   12                 U83
   13          0.24   U12
   14                  U9
   15          0.06   U14
   16                 U15
   17                 U16
   18                 U17
   19    1    742.80
   20                 U19
   21          1.78   U20
   22                 U21
   23    1    746.13
;   23    6    746.3  U123
  123    1    746.10
   24           0.25  U23
;   25    5    749.08  F12
   27    1    753.23
   28           0.54  U27
   29                 U28
   31    2    758.28
   32    1    773.00
   34    1    772.92
   35                 U34
   36                 U35
   37                 U36
   38    2    779.21
   39                  D4
   40                 U39
   51                 D16
   52           0.71  U51
   53           0.07  U52
   54           0.79  U53
;   55                 U68
```

```
;   68                 F89
   68    2    754.18
   55                 U68
  155                 U55
  255                U155
;
    0  F56           U255
    0  F55            F56
    0  F58           U255
    0  F57            F58
;
   56    5    762.33 U255
;   56    5    762.33  U55
   57    1    750.96
   58    1    753.46
   59    1    754.94
   60    1    757.63
   61    1    763.00
  601    1    762.95
   62           0.00  U61
;  62           0.06  U61
;   71    5    755.75 F159
   71    2    755.75
;
    0 F408            U57
    0 F407           F408
    0  F76           F407
    0  F75            F76
;
    0  F78            U57
    0  F77            F78
;
    0 F407            F76
    0 F408           F407
;
    0 F427            U62
    0 F426           F427
    0 F406           F426
    0 F405           F406
;
    0 F431            U62
    0 F430           F431
    0 F404           F430
    0 F403           F404
    0 F402           F403
    0 F401           F402
;dto
;    0  F82           F401
;    0  F81            F82
;
    0 F429            U62
    0 F428           F429
    0 F126           F428
    0 F125           F426
;
    0 F423            U23
    0 F422           F423
;    0  F10           F424
    0 F438            U24
    0 F437           F438
    0 F420           F437
    0 F421           F420
    0 F425           F420
    0 F424           F425
    0   F2             F8
    0   F3            D55
    0   F4             F3
```

```
    0 F136            U54
    0 F135           F136
    0  F42           F135
    0  F41            F42
    0  F44           F135
    0  F43            F44
    0 F138            F41
    0 F137           F138
;    0  F65           F145
;    0  F66            F65
;    0  F90           F145
;    0  F89            F90
;    0 F148           F145
;    0 F147           F148
;    0  F60            U56
;    0  F59            F60
    0  F12            U24
;    0  F11            F12
;    0  F92            F11
;    0  F13            F14
;    0 F154           F153
;    0 F155           F154
;    0  F80            U62
;    0  F79            F80
;    0  F28            U32
;    0  F27            F28
;    0  F30            U38
;    0  F29            F30
    0  F54           F137
    0  F53            F54
;    0  F85             F8
;    0  F86            F85
;    0  F97            F95
;    0  F98            F97
;    0  F35            F88
;    0  F36            F35
    0 F109             U6
    0 F108           F109
;    0 F107             D4
;    0 F106           F107
;    0 F105            U39
;    0 F104           F105
    0 F101            U40
    0 F100           F101
;
    0 F103            U40
    0 F102           F103
;   0  F38            U40
;   0  F37            F38
;
    0 F118            U28
    0 F117           F118
; TRIB 1
; 1012    3    712.45
; 1011                U12
; 1010                U12
; 1009                U10
; 1008                 U9
; 1007    1    727.97
; 1006                 U7
; 1005                 U6
; 1004                 U5
; 1003    1    733.87
; 1002    1    735.06
; 1001                 U2
; 1120                 U7
 1121    1    754.50
```

```
 1039    1    721.97
 1038    1    733.78
 1037    1    735.07
 1036    1    737.23
 1035    1    742.41
 1034               U1035
 1033    1    759.10
 1032               U1033
; 1041                   D9
; 1040                  U41
 1031    6   767.40 F1006
 1030               U1031
 1029    6   769.50 U1030
 1028    6   769.50 U1029
 1027    6   770.00 U1028
 1026    6   770.50 U1027
 1025    2   766.00
 1024    6   768.50 U1025
 1023    6   769.00 U1024
 1022    2   769.50
 1021    6   770.00 U1022
 1020    6   770.00 U1021
   0 F1134          F1133
   0 F1135          F1134
   -1
```

Appendix 3

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KLEIN CREEK,"PRO3CPW.DET"REFINE CAROL PT.WETLAND STORAGE MODEL(ADD BEAVER DAM)
PROPOSED CONDITION MODEL- P1 INC., GARY/KEHO RES. (PTSF'S OFF)
06/21/94(REV. 6/96 WJW,FUT DET IN 24,60,61,62,75&76).[SEE \TAB9\CPWETLND.TAB]
;Current Model = BCPALT1d.DET
;Revise pcpalt1d.det to take out project at Carol Point
;Existing landuse for 10.5 acres of S. Nardi Parcel
;4.0 acres of F52 goes to F48 w/ existing condition on S. Nardi Parcel
* RENAMED BCALT1D.DET TO [BLSTS.INP] FOR PROJECT ANALYSIS - CEMCON,LTD. 10/01
* STS FILE RUNNING UNDER FEQ V7.24
* MODIFIED BASELINE CONDITION [MODBL.INP] BY CEMCON,LTD. 10/15/01, REV. 3/02, 7/02
; CBBEL 8/1/2002 MY
;       Revised Spillway 1 culvert (Tab# 587)
;       Revised Overflow Tables 588 and 805 (Change to Tab# 1588)
;
;
; WBK/CBBEL Watershed Plan Update 2010
;
;       FOUNTAINS AT TOWN CENTER USED AS BASELINE FOR UPDATE
;       CGL 10/14/04 RSL
;       PROPOSED COND 1
;
;       FOUNTAIN ROAD AS-BUILT FROM 2009 INCORPORATED INTO MODEL
;
;       LENZ PARK FROM 2003 INCORPORATED INTO MODEL
;       BRANCHES 80-83 REPLACE 10 AND 8
;       PEDESTRIAN BRIDGES INCLUDED IN MODEL
;
;       FIRE STATION WORK FROM STS JULY 2002
;       NEW KUHN ROAD AND NORTH AVENUE CULVERTS
;
;       KEHOE ROAD CULVERTS ADDED TO MODEL
;
;       FUTURE DETENTION BASINS ON TRIB 3 ADDED IN PER AS-BUILT SURVEY 2010
;       SUBBASINS 60,61,62 SPLIT UP TO MODEL DETENTION BASINS EXPLICITLY
;       LOWES, COSTCO, ETC
;
;       MALLARD LAKE OUTLET RE-MODELED PER AS-BUILT SURVEY  2010
;
;       LIFETIME FITNESS PONDS MODELED EXPLICITLY PER AS-BUILT SURVEY 2010
;
;       STRATFORD SQUARE PONDS 1 AND 2 ADDED PER AS-BUILT PLANS
;
;       REMOVED BRANCH 25 GARY AVENUE CULVERTS AND REPLACED WITH 5-6 PER COUNTY PLANS
;
;       ADDED CAROL POINT #2 OUTLET AND FOUNTAINS STORM SEWER INFORMATION
;
;       TRIBUARY #1 ADDED TO THE MODEL FROM PREVIOUS STUDY
;
;       NEW RUN CONTROL BLOCK FOR VERSION 10.6 AND CURRENT COUNTY BLOCK
;
RUN CONTROL BLOCK
NBRA=00052
;NEX=00258
;NEX=00280
NEX=00292
SOPER=NO
POINT=NO
;DIFFUS=YES 1
DIFFUS=YES
WIND=NO
UNDERFLOW=NO
ZL=0.0
STIME=1925/01/01:0.0
;STIME=1954/ 9/10:0.0
;STIME=1954/ 2/25:0.0
;STIME=1967/ 3/ 1:0.0
;STIME=1969/ 8/11:0.0
;STIME=1982/ 7/ 7:0.0
;STIME=1982/12/ 2:0.0
;STIME=1993/ 1/31:0.0
```

```
;STIME=1998/ 7/ 5:0.0
;STIME=1999/ 4/28:0.0
;STIME=2001/ 7/24:0.0
;STIME=1987/01/01:0.0
;STIME=2008/ 8/13:0.0
;ETIME=1987/12/01:23.0
ETIME=2010/01/01:23.0
GRAV=32.2
NODEID=YES
SSEPS=0.25
PAGE=   20
EPSSYS=0.05
MKNT=   05
; ADDED NUMGT
NUMGT=    1
; OUTPUT=    0
PRTINT=99999
;DEBUGGIN OUTPUT ADDED
;DPTIME=2929 08 04  0.000
GEQOPT=STDX
EPSB=0.00005
; CHANGED MAX ITERATIONS TO 40 FROM 30
MAXIT=   40
SFAC=5280.0
;CHANGED QSMALL TO 10 FROM 20
QSMALL=    10.000
; QSMALL=  20.0
IFRZ=   10  1800.0  1350.0  1350.0   900.0   450.0   225.0   100.0    50.0    25.0    12.5
MAXDT=  3600.0  MINDT=     0.01  AUTO= 0.70  SITER=  2.5  HIGH= 3.20  LOW= 2.20  HFAC= 1.50  LFAC=
0.50
MRE=    0.10
FAC=    0.00
;IFRZ=00009
;   1350.   1200.   1000.    850.    700.    500.    350.    100.   900.
;1800.  0.1  0.7  5.5 6.85 4.15  2.5  0.5
;MRE=     0.750       0.0
DWT=0.1
BWT=0.67
;BWT=1.0
BWFDSN=   SEPT08.BWF
CHKGEO=NO
ISTYLE=NEW
EXTTOL= 1.0
SQREPS= 1.0E35
;EXTTOL= 0.0
;SQREPS= 1E30
;GETIC=
;PUTFC=
BRANCH DESCRIPTION TABLES
BNUM=    1
;B1 IS WEST BRANCH DUPAGE RIVER D/S OF CONFLUENCE
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 0101       U1   237     0.070    711.00    0    0    0    0
            D1   236     0.000    710.80    0    0    0    0
   -1
BNUM=    2
;B2 IS WEST BRANCH DUPAGE RIVER U/S OF CONFLUENCE
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 0201       U2   238     0.200    711.60    0    0    0    0
                  -
            D2   237     0.000    711.00    0    0    0    0
   -1
BNUM=    3
;B3 IS BETWEEN CONFLUENCE AND PRAIRIE PATH
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 0301       U3   103     0.383    715.08    0    0    0    0
                 102     0.361    714.50    0    0    0    0
                  -
                 105     0.242    713.32    0    0    0    0
                  -
```

```
                  -
                706     0.011    711.15    0    0    0    0
            D3  706     0.000    711.00    0    0    0    0
   -1
;*****************************************************
;TRIBUTARY 1 BRANCHES FROM CBBEL MODEL DATED 6/19/91
;*****************************************************
;BRANCHES COMMENTED OUT THAT CORRESPOND TO MAINSTEM BRANCHES
;BNUM=    1
;B1 BETWEEN BEAVER DAM & NORTH AVENUE
; NODE NAME      XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
; 0101 NORTH       75     2.083    735.51    0    0    0    0
;                   -
;                   -
;                   -
;                   -
;                   -
;                  78     2.070    734.05    0    0    0    0
;                   -
;                   -
;                   -
;                   -
;                   -
;                  79     2.004    734.10    0    0    0    0
;                   -
;                   -
;                   -
;                   -
;                   -
;      LINK        80     1.918    734.53    0    0    0    0
;   -1
;BNUM=    2
;B2 BETWEEN BEAVER DAM & ST CHARLES ROAD
; NODE NAME      XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
; 0201 LINK        80     1.918    734.53    0    0    0    0
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;      STCHAS      82     1.792    733.45    0    0    0    0
;   -1
;BNUM=    3
;B3 BETWEEN METAL WORKS RD & ST CHARLES ROAD
; NODE NAME      XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
;  301 STCHAS      81     1.772    733.15    0    0    0    0
;                   -
;                   -
;                   -
;                   -
;                   -
;      LINK        85     1.714    732.68    0    0    0    0
;   -1
;BNUM=    4
;B4 BETWEEN BEAVER DAM & METAL WORKS RD
; NODE NAME      XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
;  401 LINK        84     1.705    732.33    0    0    0    0
;                   -
;                   -
;                   -
;                   -
;                   -
;      METRD       88     1.629    731.33
;   -1
;BNUM=    5 INERTIA= 0.0
;B5 BETWEEN C&NW RR & BEAVER DAM
; NODE NAME      XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
;  501 METRD       88     1.629    731.33
;                   -
```

```
;                    -
;                    -
;                    -
;                    -
;      CNWRR      687     1.615    730.60    0    0    0    0
;   -1
;BNUM=    6
;B6 BETWEEN KLEIN CREEK TRIBUTARY A AND C&NW RR
; NODE NAME      XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
; 0601 CNWRR      687     1.612    730.60    0    0    0    0
;                    -
;                    -
;                    -
;                    -
;                    -
;                   87     1.590    729.94    0    0    0    0
;                    -
;                   -
;                    -
;                    -
;                    -
;                    -
;      KLEIN-A    692     1.427    728.20    0    0    0    0
;   -1
;BNUM=    7
;B6 BETWEEN COUNTY FARM ROAD AND KLEIN CREEK TRIBUTARY A
; NODE NAME      XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
; 0701 KLEIN-A    692     1.427    728.20    0    0    0    0
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                   692     1.407    727.97    0    0    0    0
;                    -
;                    -
;                    -
;                    -
;                    -
;                    94     1.325    726.58    0    0    0    0
;                    -
;                    -
;                    -
;                    -
;                    -
;      CNTYFRM     94     1.313    725.57    0    0    0    0
;   -1
;BNUM=    8 INERTIA= 0.0
;B8 BETWEEN FARM ROAD AND COUNTY FARM ROAD
; NODE NAME      XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
; 0801 CNTYFRM     93     1.298    724.32    0    0    0    0
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                   96     1.256    726.88    0    0    0    0
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
```

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;                    -
;                    -
;                    -
;                    -
;                    -
;                   97     1.000    722.74    0    0    0    0
;                    -
;                    -
;                    -
;                    -
;                    -
;                   99     0.956    722.54    0    0    0    0
;                    -
;                    -
;                    -
;                    -
;                    -
;      FRMRD        98     0.918    721.79    0    0    0    0
;   -1
;BNUM=    9
;B9 BETWEEN PRAIRIE PATH AND FARM ROAD
; NODE NAME      XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
; 0901 FRMRD       98     0.918    721.79    0    0    0    0
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                   101     0.620    717.81    0    0    0    0
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;      P-PATH      103     0.383    715.08    0    0    0    0
;   -1
;BNUM=   10 INERTIA=0.01                           ADDNOD=    0
;B10 IS BETWEEN CONFLUENCE AND PRAIRIE PATH
; NODE NAME      XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
; 1001 P-PATH     103     0.383    715.08    0    0    0    0
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                   102     0.361    714.50    0    0    0    0
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
;                   105     0.242    713.32    0    0    0    0
;                    -
;                    -
;                    -
;                    -
;                    -
;                    -
```

```
;                   -
;                 706     0.011    711.15    0    0    0    0
;
;
;
;
;
;
;
;
;
;      CONFL      706     0.000    711.00    0    0    0    0
;   -1
;BNUM=   11
;B11 & B12 ARE MAIN STEM WEST BRANCH OF THE DUPAGE RIVER
; NODE NAME      XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
; 1101 WBSTRT     238     0.200    711.60    0    0    0    0                          FEMA
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;      CONFL      237     0.000    711.00    0    0    0    0
;   -1
;BNUM=   12
; NODE NAME      XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
; 1201 CONFL      237     0.070    711.00    0    0    0    0                          FEMA
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;      WBEND      236     0.000    710.80    0    0    0    0
;   -1
;BNUM=  120 INERTIA= 0.1
; NODE NAME      XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
; 1200 TA-PND_G  1301    0.001    678.20    0    0    0    0                          FEMA
;
;
;
;
;
;
;
;
```

```
;
;
;
;      TA-CONFL  1301     0.000    678.20    0    0    0    0
;   -1
BNUM=  1121
 NODE  NODEID_  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 1210 TA-DITCH  1301     0.114    715.00    0    0    0    0                          FEMA
```

```
      TA-PND_K  1301     0.000    706.00    0    0    0    0
   -1
BNUM=   1020 INERTIA= 0.01
 NODE  NODEID   XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC
 2001  18-PND   2018   0.09564    769.66    0    0    0    0
```

```
       18-24U   2018   0.09091    769.58    0    0    0    0
   -1
BNUM=   1021 INERTIA= 0.01
 NODE  NODEID   XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC
 2101  18-24D   2024   0.09091    769.58    0    0    0    0
```

```
       24-30U   2024   0.08428    769.51    0    0    0    0
   -1
BNUM=   1022 INERTIA= 0.01
 NODE  NODEID   XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC
 2201  24-30D   2030   0.08428    769.51    0    0    0    0
```

```
                2030   0.00568    769.01    0    0    0    0
```

```
       30-PND   2030   0.00000    768.98    0    0    0    0
   -1
BNUM=   1023 INERTIA= 0.01
 NODE  NODEID   XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC
 2301  PND-15   9015   0.29233    768.98    0    0    0    0
```

```
                9015   0.28381    768.93    0    0    0    0
```

```
                9015   0.25540    768.78    0    0    0    0
```

```
       15-24U   9015   0.20426    768.51    0    0    0    0
   -1
BNUM=   1024 INERTIA= 0.01
 NODE  NODEID   XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC
 2401  15-24D   2024   0.20426    768.51    0    0    0    0
```

```
        24-30U   2024   0.12528    768.14    0    0    0    0
   -1
BNUM=   1025 INERTIA= 0.01
 NODE  NODEID_  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC
 2501  24-30D   2030   0.12528    768.14    0    0    0    0

                 2030   0.06420    767.73    0    0    0    0

                 2030   0.05350    767.76    0    0    0    0

                 2030   0.01468    767.21    0    0    0    0

        30-GAGP  2030   0.00000    765.68    0    0    0    0
   -1
BNUM=   1026
 NODE  NODEID_  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC
 2601  DARLUS   1800   0.54924    770.20    0    0    0    0
                   -
                   -
                   -
                   -
                   -
                   -
                 1802   0.52424    770.10    0    0    0    0
                   -
                   -
                   -
                   -
                   -
        DARLAPP  1804   0.49394    770.16    0    0    0    0
   -1
```

```
BNUM=   1027
 NODE  NODEID_  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC
 2701  DARLDEP  1806   0.48504    770.00    0    0    0    0
                   -
                   -
                   -
                   -
                1808   0.47197    769.95
                   -
                   -
                   -
                   -
                   -
       PAPAPP   1810   0.43258    769.70    0    0    0    0
   -1
BNUM=   1028
 NODE  NODEID_  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC
 2801  PAPDEP   1812   0.42348    769.70    0    0    0    0
                   -
                   -
                   -
                   -
                   -
                1814   0.39186    769.34    0    0    0    0
                   -
                   -
                   -
                   -
       ELISAPP  1816   0.37102    769.14    0    0    0    0
   -1
BNUM=   1029
 NODE  NODEID_ XNUM_   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC
 2901  ELISDEP  1818   0.36193    769.10    0    0    0    0
                   -
                   -
                   -
                   -
                   -
       MORSAPP  1820   0.30909    769.10    0    0    0    0
   -1
BNUM=   1030
 NODE  NODEID_ XNUM_   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC
 3001  MORSDEP  1822   0.29924    769.00    0    0    0    0
                   -
                   -
                   -
                   -
                1824   0.28144    768.70    0    0    0    0
                   -
                   -
                   -
                   -
                   -
       FRW/OVF  1826   0.24810    767.95    0    0    0    0
   -1
BNUM=   1031 INERTIA=0.01                           ADDNOD=   -5
 NODE  NODEID_  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC
 3101  FRW/OVF  1826   0.24810    767.95    0    0    0    0
                   -
                   -
                   -
                   -
                1828   0.20833    767.40    0    0    0    0
                   -
                   -
                   -
                   -
                1830   0.18371    766.85    0    0    0    0
```

```
       30INAPP  1830   0.17045    766.40    0    0    0    0
   -1
BNUM=   1032 INERTIA=0.01                           ADDNOD=   -5
 NODE NAME__     XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 3201 T1-GAR     4117     0.554    762.75    0    0    0    0
                    -
                    -
                    -
                    -
                    -
                    -
                    -
                 4116     0.535    762.75    0    0    0    0
                    -
                    -
                    -
                    -
                    -
                    -
                    -
                 4115     0.495    762.75    0    0    0    0
                    -
                    -
                    -
                    -
                    -
                    -
                    -
                 4114     0.465    762.75    0    0    0    0
                    -
                    -
                    -
                    -
                    -
                    -
                    -
                 4113     0.437    762.75    0    0    0    0
                    -
                    -
                    -
                    -
                    -
                    -
                    -
                 4112     0.414    762.75    0    0    0    0
                    -
                    -
                    -
                    -
                    -
                    -
                    -
                 4111     0.341    762.75    0    0    0    0
                    -
                    -
                    -
                    -
                    -
                    -
                    -
      T1-SEW     4110     0.323    762.75    0    0    0    0
   -1
BNUM=   1033 INERTIA= 0.30                          ADDNOD=   -5
 NODE NAME__     XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 3301 T1-LNK     4109     0.323    762.75    0    0    0    0
                    -
                    -
```

-
-
-
-
-
4108 0.322 762.70 0 0 0 0
-
-
-
-
-
-
-
-
4107 0.284 762.40 0 0 0 0
-
-
-
-
-
-
-
-
4106 0.246 761.93 0 0 0 0
-
-
-
-
-
-
-
-
4105 0.208 761.46 0 0 0 0
-
-
-
-
-
-
-
-
4104 0.170 761.00 0 0 0 0
-
-
-
-
-
-
-
-
4103 0.114 760.30 0 0 0 0
-
-
-
-
-
-
-
-
4102 0.076 759.83 0 0 0 0
-
-
-
-
-
-
-
-
4101 0.038 759.37 0 0 0 0
-
-
-
-
-
-
-
-

```
                  -
                  -
                  -
                  -
      T1-LNK    4100     0.000    758.00    0    0    0    0
   -1
BNUM=   1034 INERTIA= 1.0
 NODE NAME____  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 3401 T1-PND_C  1301     0.010    695.80    0    0    0    0
```

```
      T1-REJN   1301     0.000    695.80    0    0    0    0
   -1
;BNUM=   1035 INERTIA= 0.1
BNUM=   1035
 NODE NODEID__  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 3501 T1-REJN    117     0.650    745.80    0    0    0    0
```

```
                 117     0.585    742.12    0    0    0    0
                  -
                  -
                  -
                  -
                  -
                  -
      T1-CENT    119     0.557    740.90    0    0    0    0
   -1
BNUM=   1036 INERTIA= 0.1
 NODE NODEID__   XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 3601 T1-CENT    118     0.544    738.62    0    0    0    0
                  -
                  -
                  -
                  -
                  -
                  -
                 121     0.492    739.20    0    0    0    0
                  -
                  -
                  -
                  -
                  -
                  -
                 122     0.458    738.18    0    0    0    0
                  -
                  -
                  -
                  -
```

```
                  -
                  -
                  -
      T1-USCV    123     0.395    735.87    0    0    0    0
   -1
BNUM=   1037 INERTIA= 0.1  CFRATE= 200.
 NODE NAME___    XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 3701 T1-USCV    293     0.395    735.87    0    0    0    0
                                                                   740.9

      T1-DSCV    293     0.370    734.20    0    0    0    0     739.2
   -1
BNUM=   1038
 NODE NAME___    XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 3801 T1-DSCV    125     0.377    731.81    0    0    0    0                    DUMMY STA

      T1-CYFM    125     0.367    731.81    0    0    0    0
   -1
BNUM=   1039 INERTIA= 0.1  CFRATE= 200.
 NODE NAME___    XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 3901 T1-CYFM    292     0.367    731.81    0    0    0    0
                                                                   742.1
```

```
      T1-TIMB    292     0.301    721.20    0    0    0    0     731.5
   -1
;BNUM=   40
; NODE NAME      XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
; 4001 PP-USBD    782     0.286    720.92    0    0    0    0
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;      PP-TMDV    781     0.119    718.33    0    0    0    0
;   -1
;BNUM=   41
; NODE NAME      XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
; 4101 PP-CONF    781     0.119    718.33    0    0    0    0
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;      PP-TMDV    207     0.000    715.52    0    0    0    0
;*****************************
;END OF TRIBUTARY 1 BRANCHES
;*****************************
BNUM=    4
;B4 IS BETWEEN PRAIRIE PATH AND FARM ROAD
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 0401       U4    98     0.918    721.79    0    0    0    0
                   -
                   -
```

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                 101     0.620    717.81    0    0    0    0
                   -
                   -
            D4   103     0.383    715.08    0    0    0    0
   -1
BNUM=    5 INERTIA=0.01                            ADDNOD=  -0
;BNUM=    5 INERTIA=0.01
;B5 IS BETWEEN FARM ROAD AND COUNTY FARM ROAD
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 0501       U5    93     1.298    725.92    0    0    0    0
                  96     1.256    725.71    0    0    0    0
                   -
                   -
                   -
                   -
                   -
                   -
                   -
                   -
                  97     1.000    722.74    0    0    0    0
                  99     0.956    722.54    0    0    0    0
            D5    98     0.918    721.79    0    0    0    0
   -1
BNUM=    6
;B6 IS BETWEEN COUNTY FARM ROAD & C&NW RR
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 0601       U6   692     1.427    728.20    0    0    0    0
                   -
                   -
                 692     1.407    727.97    0    0    0    0
                   -
                  94     1.325    726.58    0    0    0    0
            D6    94     1.313    726.30    0    0    0    0
   -1
BNUM=    7 INERTIA=0.01
;B7 IS BETWEEN C&NW RR & PRIVATE RD
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
  701       U7    84     1.705    732.33    0    0    0    0
                  88     1.629    731.33    0    0    0    0
            D7   687     1.615    730.60    0    0    0    0
   -1
;
;REMOVE BRANCH 8 FOR LENZ PARK MODELING
;
;BNUM=    8
;B8 IS BETWEEN PRIVATE RD AND ST.CHARLES RD
; NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
;  801       U8    81     1.772    733.15    0    0    0    0
;            D8    85     1.714    732.68    0    0    0    0
;   -1
BNUM=    9
;B9 IS BETWEEN U13 AND WWTP BRIDGE
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
  901       U9    65     2.651    738.30    0    0    0    0
                   -
                2071     2.611    738.24    0    0    0    0
                   -
                   -
                  71     2.554    738.15    0    0    0    0
                   -
            D9  5068     2.472    738.03    0    0    0    0
   -1
;
;REMOVE BRANCH 10 FOR LENZ PARK MODELING
;
;BNUM=   10
;B10 IS BETWEEN ST CHARLES RD & NORTH AVE
; NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
; 1001      U10    75     2.083    735.51    0    0    0    0
;                  78     2.070    734.05    0    0    0    0
```

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;                  79     2.004    734.10    0    0    0    0
;                  80     1.918    734.53    0    0    0    0
;                   -
;           D10    82     1.792    733.45    0    0    0    0
;   -1
BNUM=   12 INERTIA=0.01
;B12 IS BETWEEN NORTH AVE AND KUHN RD
; REMOVED SEC 676 AND REVISED SEC 74 (5074) AND 69 (5069)  CEMCON 10/01
; REVISED ELEVATION AT U12 3/02
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 1201      U12  5169     2.310    737.00    0    0    0    0
                  -
                 72     2.280    736.39    0    0    0    0
                 73     2.212    736.58    0    0    0    0
                  -
                  -
           D12  5074     2.119    735.20    0    0    0    0
   -1
BNUM=   13 INERTIA=0.01
;B13 IS BETWEEN KUHN RD & BRANCH 9
; REV. ALL SECTIONS ON BRANCH 13  CEMCON 10/01
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 1301      U13  5068     2.472    738.03    0    0    0    0
                5003     2.437    737.78    0    0    0    0
                5002     2.414    737.61    0    0    0    0
                5001     2.399    737.51    0    0    0    0
                5000     2.350    737.16    0    0    0    0
           D13  5070     2.328    737.00    0    0    0    0
   -1
BNUM=   14 INERTIA=0.01
;B14 IS BETWEEN WWTP ACCESS & THUNDERBIRD TRL
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 1401      U14  2060     2.959    739.00    0    0    0    0
                  -
                2063     2.855    738.86    0    0    0    0
                  -
                2064     2.755    738.73    0    0    0    0
                  -
           D14    66     2.660    738.40    0    0    0    0
   -1
BNUM=   15
;B15 IS BETWEEN T-BIRD TRL & CONFL W/ TRIB.2
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 1501      U15  2061     3.004    739.15    0    0    0    0
           D15  2061     2.978    739.09    0    0    0    0
   -1
BNUM=   16 INERTIA=0.01
;B16 IS BETWEEN TRIB.2 & ILLINI DR
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 1601      U16  2055     3.390    738.90    0    0    0    0
                  -
                2158     3.288    739.00    0    0    0    0
                  -
                2058     3.231    739.06    0    0    0    0
                  -
                2059     3.125    739.20    0    0    0    0
                  -
           D16  2061     3.004    739.15    0    0    0    0
   -1
BNUM=   17
;B17 IS BETWEEN ILLINI & INFLOW FROM LAKE GEORGE
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 1701      U17  2652     3.577    740.29    0    0    0    0
                2654     3.503    739.99    0    0    0    0
                  -
           D17  2656     3.407    739.00    0    0    0    0
   -1
BNUM=   18
;B18 IS BETWEEN LAKE GEORGE INFLOW & MITCHELL LAKE #1
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
```

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 1801      U18   645     3.718    741.90    0    0    0    0
                 648     3.702    740.99    0    0    0    0
                 649     3.682    740.96    0    0    0    0
                   -
                 650     3.649    740.52    0    0    0    0
                   -
                   -
                   -
           D18  2652     3.577    740.29    0    0    0    0
   -1
BNUM=   19
;B19 IS MITCHELL LAKE #1
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 1901      U19   468     4.013    738.94    0    0    0    0
                 469     3.849    728.14    0    0    0    0
                   -
                   -
                 470     3.785    726.54    0    0    0    0
                   -
           D19   471     3.731    729.94    0    0    0    0
   -1
BNUM=   20
;B20 IS MITCHELL LAKE #2
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 2001      U20   464     4.180    741.20    0    0    0    0
                   -
                 465     4.145    735.04    0    0    0    0
                   -
                 466     4.076    734.64    0    0    0    0
                   -
                1467     4.028    739.34    0    0    0    0
           D20   468     4.013    738.94    0    0    0    0
   -1
BNUM=   21
;B21 IS MITCHELL LAKE #3
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 2101      U21  1459     4.424    740.54    0    0    0    0
                 460     4.353    736.54    0    0    0    0
                 461     4.273    736.54    0    0    0    0
                 462     4.242    737.32    0    0    0    0
           D21  1463     4.219    739.72    0    0    0    0
   -1
BNUM=   22
;B22 IS MITCHELL LAKE #4
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 2201      U22   454     4.587    741.92    0    0    0    0
                 455     4.565    737.70    0    0    0    0
                 456     4.543    737.94    0    0    0    0
                 457     4.522    737.04    0    0    0    0
                1458     4.477    737.38    0    0    0    0
                   -
           D22  1459     4.424    740.54    0    0    0    0
   -1
BNUM=  123
;B123 ADDED BY (MY 11/7/2002) AND INCLUDES UPDATES FROM 2009 AS-BUILT
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 2301     U123  1453     4.605    745.34    0    0    0    0
                   -
                   -
                   -
                   -
                   -
                   -
          D123  1453     4.607    745.34    0    0    0    0
   -1
;  COMMENT OUT OLD BRANCH 123
;BNUM=  123
;;B123 ADDED BY (MY 11/7/2002)
; NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
; 2301     U123  1453     4.605    745.20    0    0    0    0
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;                   -
;                   -
;                   -
;                   -
;                   -
;                   -
;          D123  1453     4.607    745.20    0    0    0    0
;   -1
BNUM=   23 INERTIA=0.1
;B23 IS MITCHELL LAKE #5
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 2301      U23   451     4.735    744.72    0    0    0    0
                  -
                  -
                  -
                 452     4.696    739.53    0    0    0    0
                  -
                  -
                  -
                  -
                  -
                  -
           D23   453     4.605    744.76    0    0    0    0
   -1
BNUM=   24 INERTIA=1.00
;BNUM=   24 INERTIA=0.01
;B24 IS BETWEEN MITCHELL LAKE #5 & OLD GARY AVE POND
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 2401      U24    20     4.758    745.16    0    0    0    0
                   -
                   -
                   -
                   -
                   -
                   -
                   -
                   -
                   -
           D24    20     4.756    745.16    0    0    0    0
   -1
; REMOVE GARY AVENUE BOX CULVERT BRANCH, REPLACE WITH 5-6
;BNUM=   25               CFRATE= 200.
;B25 IS THE GARY AVENUE BOX CULVERTS
; NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
; 2501      U25   295     5.039    747.00    0    0    0    0
;           D25   296     5.004    746.89    0    0    0    0       9.9
;   -1
BNUM=   27 INERTIA=0.5
;B27 IS BETWEEN CONFLUENCE AND R.R.
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 2701      U27     8     5.358    752.89    0    0    0    0
                   -
           D27    11     5.339    752.87    0    0    0    0
   -1
BNUM=   28 INERTIA=0.01
;B28 IS BETWEEN R.R. AND DETENTION POND INFLOW
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 2801      U28  9008     5.444    755.56    0    0    0    0
                   -
           D28     9     5.372    753.36    0    0    0    0
   -1
BNUM=   29
;B29 FROM CC&P TRIB. BRIDGE AND 250' U/S - CONTROLS LOWER POND
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 2901      U29  9009     5.491    755.87    0    0    0    0
                   -
                   -
                   -
                   -
                   -
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          D29  9008     5.444    755.56    0    0    0    0
   -1
BNUM=   31
;B31 IS BETWEEN THE WETLANDS AND SCHMALE RD
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 3101      U31   601     6.363    762.82    0    0    0    0
                  -
                  4     6.192    760.84    0    0    0    0
                  -
                  -
                  -
                  -
                  -
                  -
          D31   162     5.871    757.51    0    0    0    0
   -1
BNUM=   32
;B32 IS BETWEEN FLAGSTAFF CT AND SEIMS POND
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 3201      U32   171     0.058    771.90    0    0    0    0
                  -
          D32   170     0.001    771.84    0    0    0    0
   -1
BNUM=   34 INERTIA=0.10
;B34 IS U/S OF MILL POND DR
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 3401      U34   174     6.813    774.08    0    0    0    0
                  -
                  -
                  -
          D34   173     6.742    772.73    0    0    0    0
   -1
BNUM=   35 INERTIA=0.01
;B35 IS U/S OF MILL POND DR
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 3501      U35   775     6.871    775.43    0    0    0    0
                  -
                  -
          D35   174     6.813    774.08    0    0    0    0
   -1
BNUM=   36
;B36 IS U/S OF MILL POND DR
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 3601      U36  1777     6.956    776.38    0    0    0    0
          D36  1776     6.877    775.43    0    0    0    0
   -1
BNUM=   37
;B37 IS BRANCH D/S OF HESTERMAN DR
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 3701      U37   180     7.170    778.56    0    0    0    0
                  -
                 179     7.061    777.54    0    0    0    0
                  -
          D37   778     6.960    776.38    0    0    0    0
   -1
BNUM=   38 INERTIA=0.01  CFRATE= 200.
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 3801      U38   294     7.209    781.23    0    0    0    0
          D38   294     7.170    778.76    0    0    0    0      11.9
   -1
BNUM=   39
;B39 IS NEXT TO FOREST PRESERVE
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 3901      U39   781     0.119    718.33    0    0    0    0
                  -
                  -
                  -
                  -
                  -
          D39   207     0.000    715.52    0    0    0    0
```

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   -1
BNUM=   40
;B40 IS NEXT TO FOREST PRESERVE
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 4001      U40   782     0.286    720.92    0    0    0    0
                  -
                  -
                  -
                  -
                  -
           D40   781     0.119    718.33    0    0    0    0
   -1
BNUM=   44
;B44 IS BETWEEN B6 & C&NW RR
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 4401      U44   687     1.612    730.60    0    0    0    0
                  -
                  -
                   87     1.590    729.94    0    0    0    0
                  -
                  -
                  -
           D44   692     1.427    728.20    0    0    0    0
   -1
BNUM=   51
;B51 IS BETWEEN CONFLUENCE AND SEMINOLE
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 5101      U51  2136     0.022    739.63    0    0    0    0
                  -
           D51   139     0.000    739.20    0    0    0    0
   -1
BNUM=   52
;B52 IS BETWEEN SEMINOLE AND YUMA/THUNDERBIRD
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 5201      U52  2133     0.229    742.82    0    0    0    0
                  -
                  -
           D52  2137     0.035    739.90    0    0    0    0
   -1
BNUM=   53 INERTIA=0.01
;B53 IS BETWEEN YUMA/THUNDERBIRD AND BLACKHAWK
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 5301      U53  2130     0.411    746.13    0    0    0    0
                  -
                  -
                  -
                  -
                  -
           D53  2134     0.253    743.39    0    0    0    0
   -1
BNUM=   54
;B54 IS BETWEEN BLACKHAWK AND GARY AVE
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 5401      U54  2128     0.468    746.78    0    0    0    0
                2128     0.443    746.58    0    0    0    0
           D54  2131     0.425    746.48    0    0    0    0
   -1
;
;  THIS IS KEHOE BOULEVARD PROPOSED CONDITIONS BRANCHES
;
BNUM=  255 INERTIA=0.01
;B255 u/s of D54, 250 kehoe blvd d/s Culvert 1
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 2551     U255   198     1.051    760.50    0    0    0    0
                  -
                8101    0.9636    760.25    0    0    0    0
                  -
          CUL1  8101    0.9570    760.25    0    0    0    0
   -1
BNUM=  155 INERTIA=0.01
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;B155 u/s 250 kehoe blvd Culvert 1 250 kehoe blvd d/s culvert 2
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 1551     CUL1  8102    0.9514    760.13    0    0    0    0
                  -
                  -
               8102    0.9438    760.13    0    0    0    0
                  -
                  -
                  -
               8103    0.9018    759.30    0    0    0    0
                  -
                  -
                  -
          CUL2  8103    0.8942    759.30    0    0    0    0
   -1
BNUM=   55 INERTIA=0.01
;B55 u/s 250 kehoe blvd Culvert 2, d/s gary avenue pond
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 5501     CUL2  8104    0.8872    759.00    0    0    0    0
                  -
                  -
                  -
               8104    0.8809    759.00    0    0    0    0
                  -
                  -
                  -
                  -
                196     0.879    757.79    0    0    0    0
                  -
               3011     0.772    755.76    0    0    0    0
                  -
           D55  3010     0.672    753.25    0    0    0    0
   -1
;BNUM=   55 INERTIA=0.01
;B55 Is u/s of Existing 36" RCP Bypass, UP TO BONNIE LN
; NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
; 5501      U55   198     1.051    760.50    0    0    0    0
;                  -
;                 197     0.954    760.56    0    0    0    0
;                 196     0.879    757.79    0    0    0    0
;                  -
;                3011     0.772    755.76    0    0    0    0
;                  -
;           D55  3010     0.672    753.25    0    0    0    0
;   -1
;
;  END PROPOSED CONDITIONS KEHOE BOULEVARD BRANCHES
;
BNUM=   56 INERTIA=0.01  CFRATE=20.
;B56 IS THE STORMSEWER BTW BONNIE LN AND SCHMALE RD
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 5601      U56   297     0.644    779.96    0    0    0    0
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          D56   297     0.000    760.50    0    0    0    0       5.7
   -1
BNUM=   57 INERTIA=1.0
;BNUM=   57
;B57 IS BETWEEN HOMEBASE SPILLWAY AND GARY AVE
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 5701      U57   156     0.199    752.21    0    0    0    0
                  -
                  -
          D57   159     0.068    750.80    0    0    0    0
   -1
BNUM=   58 INERTIA=1.00
;BNUM=   58
;B58 IS BETWEEN GARY AVE AND OLD GARY AVE
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 5801      U58   152     0.306    753.28    0    0    0    0
                  -
                  -
                224     0.272    752.94    0    0    0    0
                  -
                  -
          D58   157     0.218    752.29    0    0    0    0
   -1
BNUM=   59 INERTIA=0.10
;BNUM=   59 INERTIA=0.01
;B59 IS BETWEEN OLD GARY AVE AND 84TH CT
;UPDATED CROSS-SECTIONS PER 2010 SURVEY TO REFLECT ALDI LOMR
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 5901      U59   148     0.525    754.94    0    0    0    0
                148     0.472    753.92    0    0    0    0
                  -
                751     0.452    753.40    0    0    0    0
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                 751     0.409    752.86    0    0    0    0
                 751     0.367    752.74    0    0    0    0
                   -
                 153     0.347    752.95    0    0    0    0
           D59   153     0.322    753.92    0    0    0    0
   -1
BNUM=   601 INERTIA=0.00
;B601 IS BETWEEN PEPPERS ACCESS ROAD AND ARMY TRAIL ROAD
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 6011     U601   144     0.742    762.91    0    0    0    0
                   -
                   -
          D601   147     0.662    760.30    0    0    0    0
   -1
BNUM=   60 INERTIA=0.01
;B60 IS BETWEEN 84TH CT AND PEPPERS ACCESS ROAD
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 6001      U60   147     0.652    758.30    0    0    0    0
                   -
                   -
           D60   149     0.547    756.14    0    0    0    0
   -1
BNUM=   61 INERTIA=0.01
;B61 IS BETWEEN ARMY TRAIL RD AND CC&P R.R.
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 6101      U61   140     0.884    761.66    0    0    0    0
                   -
                   -
                   -
                   -
           D61   145     0.762    762.39    0    0    0    0
   -1
BNUM=   62 INERTIA=1.0
;B62 IS BETWEEN CC&P R.R. AND MALLARD LAKE
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 6201      U62   200     1.212    765.55    0    0    0    0
                   -
                   -
                   -
                   -
                   -
           D62   741     0.894    762.12    0    0    0    0
   -1
BNUM=   68
;B68 IS Between Existing and Proposed 36" Bypass Inlet
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
 6801      U68  3010     0.672    753.25    0    0    0    0
                   -
                   -
                   -
                   -
                   -
                3035     0.663    753.07    0    0    0    0
                   -
                   -
                   -
                   -
                   -
                   -
                   -
                   -
                   -
                   -
                   -
           D68  3036     0.606    751.85    0    0    0    0
   -1
BNUM=   71 INERTIA=0.5
;B71 IS DITCH d/s OF 54" fr. NORTH AVE AND EATON TO KEHO BLVD
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
```

```
 7101      U71  3034     0.842    759.31    0    0    0    0
                  -
                  -
                  -
                  -
                  -
                  -
                  -
                  -
                  -
                  -
                  -
                3034     0.742    757.78    0    0    0    0
                  -
                  -
                  -
                  -
                  -
                  -
                  -
                  -
                  -
                  -
                  -
                  -
                  -
                  -
                  -
                  -
                  -
                3034     0.734    757.66    0    0    0    0
                  -
                  -
                  -
                  -
                  -
                  -
                  -
                  -
                  -
;               3034     0.606    755.72    0    0    0    0
                  -
                  -
                  -
                  -
                  -
                  -
                  -
                  -
                  -
;               3034     0.602    755.66    0    0    0    0
                  -
                  -
                  -
                  -
                  -
                  -
                  -
                  -
                  -
                  -
           D71  3034     0.598    755.60    0    0    0    0
   -1
;
; ADD BRANCHES 80-83 FOR LENZ PARK UPDATES
;
BNUM=   80
;B80 IS BETWEEN PRIVATE RD AND NEW LENZ PK BRIDGE 2
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
  801      U80   840    1.7309    733.28    0    0    0    0
                  -
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                 810     1.722    732.97    0    0    0    0
                   -
                   -
           D80    85     1.714    732.68    0    0    0    0
   -1
BNUM=   81
;B81 IS BETWEEN NEW LENZ PK BRIDGE 2 AND ST.CHARLES RD
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
  811      U81    81     1.772    733.58    0    0    0    0
                   -
                   -
           D81   811     1.733    733.28    0    0    0    0
   -1
BNUM=   82
;B82 IS BETWEEN ST CHARLES RD & NEW LENZ PK BRIDGE 1
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
  821      U82   830    1.9069    734.75    0    0    0    0
                   -
                   -
                 850     1.865    734.74    0    0    0    0
                   -
                 800     1.857    734.62    0    0    0    0
                   -
                   -
                 801     1.823    733.64    0    0    0    0
                   -
                   -
           D82    82     1.797    733.80    0    0    0    0
   -1
BNUM=   83
;B83 IS BETWEEN NEW LENZ PK BRIDGE 1 & NORTH AVE
 NODE     NAME  XNUM   STATION ELEVATION   KA   KD HTAB  AZM   CF   YC       STD
  831      U83    75     2.083    735.51    0    0    0    0
                   -
                  78     2.070    735.32    0    0    0    0
                   -
                   -
                 780     2.032    735.11    0    0    0    0
                   -
                   -
                  79     2.004    735.05    0    0    0    0
                   -
                   -
                  80     1.918    734.78    0    0    0    0
                   -
           D83   820    1.9091    734.76    0    0    0    0
   -1
;
; END LENZ PARK UPDATES
;
TRIBUTARY AREA SPECIFICATION
; UPDATED TRIB AREA BLOCK BASED ON REVISED SUBBASION FOR 2010 UPDATE
;TSFDSN=   -9\KLEIN CREEK\tsf\TSFLONG.MP2
;FFFDSN=   02CGLPR2.pek
TSFDSN=   \KlnCrk10\tsf\Local0908DR2WB.dtsf
FFFDSN=   /pktsf092008.gcb
FFFNAM=  sept2008.pek
NLUSE=   78
NGAGE=   13
 GAGE  NLU
    1    6     '   4 - Morton Arboretum - NOAA
    2    6     '  8A - DuPage Cnty Airport
    3    6     '  20 - Kress Creek at Joliet St.
    4    6     ' 23A - Village of Bloomingdale
    5    6     '  33 - City of Wheaton - 1
    6    6     '  36 - Nap. San. District(Spring)
    7    6     '  40 - Bartlett Sanitary
    8    6     '  42 - Woodridge-Greene Valley WWTP
    9    6     '  44 - Carol Stream WWTP
   10    6     ' 48B - City of Naperville(N Op.)
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   11    6     '  67 - Naperville Twp. Highway
   12    6     '  70 - Schaumburg Public Works
   13    6     ' 105 - IL-CK-41 / Hoffman Estates 2.1 SE
BRANCH=    0
 NODE_  GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    F8    9 .0783 .1830 .0934 .0111 .0401 .0000
   F10    9 .0902 .0176 .0075 .0027 .0075 .0000
   F12    4 .0029 .0099 .0001 .0050 .0025 .0000
   F16    4 .0180 .0018 .0013 .0010 .0000 .0000
   F26    4 .0005 .0065 .0009 .0000 .0009 .0000
   F32    4 .1105 .1185 .0440 .0176 .0338 .0000
   F34    9 .0900 .0130 .0037 .0027 .0035 .0000
   F38    9 .1393 .4008 .2804 .0503 .0999 .0000
   F40    4 .2719 .0377 .0276 .0055 .0168 .0000
   F46    9 .2166 .0484 .0356 .0171 .0174 .0000
   F48    9 .0886 .0279 .0035 .0031 .0082 .0000
   F52    9 .0359 .0080 .0011 .0037 .0007 .0000
   F56    9 .1033 .0285 .0195 .0115 .0074 .0000
   F58    9 .0508 .0226 .0149 .0088 .0053 .0000
   F62    5 .0660 .0137 .0017 .0015 .0048 .0016
   F64    5 .0484 .1023 .0204 .0038 .0157 .0000
   F70    4 .0954 .0321 .0148 .0095 .0062 .0000
   F72    4 .1943 .0729 .0689 .0180 .0240 .0000
   F74    4 .0563 .0960 .0390 .0361 .0254 .0000
   F76    4 .1532 .0187 .0118 .0042 .0093 .0000
   F78    4 .0250 .0062 .0007 .0003 .0029 .0000
   F82    7 .0417 .2314 .0606 .0560 .0379 .0000
   F84    9 .0008 .0509 .0002 .0038 .0019 .0000
   F88    9 .0310 .0641 .0226 .0002 .0120 .0000
   F92    4 .0479 .0114 .0027 .0035 .0044 .0000
   F94    9 .0340 .0361 .0475 .0069 .0166 .0050
   F96    9 .0025 .0037 .0000 .0012 .0003 .0000
  F103    9 .0185 .0308 .0259 .0082 .0097 .0000
  F116    4 .0148 .0010 .0019 .0001 .0001 .0000
  F118    4 .0101 .0013 .0010 .0004 .0006 .0000
  F120    4 .0295 .0062 .0073 .0022 .0025 .0000
  F122    9 .0346 .0135 .0010 .0041 .0042 .0000
  F124    7 .0649 .0092 .0210 .0061 .0055 .0000
  F126    4 .0256 .0154 .0018 .0017 .0035 .0000
  F130    4 .0475 .0068 .0027 .0026 .0014 .0000
  F151    4 .0036 .0149 .0000 .0018 .0011 .0000
  F153    4 .0330 .0443 .0036 .0052 .0041 .0000
  F158    9 .0036 .0012 .0002 .0002 .0007 .0000
  F162    9 .0011 .0105 .0049 .0007 .0011 .0000
  F168    9 .0033 .0003 .0000 .0006 .0000 .0000
  F170    9 .0135 .0285 .0232 .0130 .0084 .0000
  F172    9 .0010 .0027 .0051 .0011 .0006 .0000
  F174    9 .0117 .0186 .0032 .0030 .0051 .0000
  F176    9 .0019 .0032 .0008 .0000 .0004 .0000
  F178    9 .0018 .0040 .0000 .0000 .0003 .0000
  F180    9 .0104 .0233 .0049 .0052 .0052 .0000
  F184    4 .0057 .0050 .0008 .0029 .0020 .0000
  F186    9 .0044 .0030 .0014 .0028 .0018 .0000
  F190    9 .0001 .0027 .0000 .0010 .0002 .0000
  F206    9 .0022 .0015 .0020 .0007 .0008 .0000
  F208    9 .0000 .0012 .0000 .0004 .0001 .0000
  F210    9 .0005 .0043 .0000 .0007 .0005 .0000
  F404    4 .0472 .0207 .0015 .0017 .0049 .0000
  F406    7 .0251 .0058 .0014 .0014 .0022 .0000
 F1001    5 .0086 .0103 .0022 .0005 .0015 .0000
 F1003    5 .0085 .0093 .0217 .0011 .0042 .0000
 F1005    5 .0131 .0288 .0190 .0067 .0078 .0000
 F1011    5 .0048 .0064 .0068 .0023 .0027 .0000
 F1039    9 .0034 .0405 .0068 .0114 .0052 .0000
 F1131    9 .0075 .0193 .0042 .0129 .0036 .0000
 F1133    9 .1614 .1015 .0309 .0209 .0247 .0374
 F1137    9 .0044 .0127 .0038 .0109 .0033 .0000
 F1139    9 .0100 .0527 .0040 .0135 .0081 .0000
 F1141    9 .0011 .0096 .0029 .0030 .0014 .0000
 F1201    9 .0028 .0127 .0063 .0066 .0023 .0000
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 F1203    9  .0014 .0076 .0004 .0062 .0012 .0000
 F1205    9  .0007 .0049 .0051 .0032 .0009 .0000
 F1207    9  .0013 .0055 .0027 .0038 .0017 .0056
 F1209    9  .0010 .0110 .0007 .0008 .0008 .0000
 F1211    9  .0034 .0098 .0063 .0029 .0023 .0000
 F1213    9  .0095 .0145 .0150 .0013 .0040 .0000
 F1215    9  .0069 .0105 .0025 .0098 .0028 .0000
 F1219    9  .0015 .0161 .0052 .0063 .0030 .0006
-1
BRANCH=    1
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    9 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=    2
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    9 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=    3
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    9 .0097 .0197 .0113 .0024 .0265 .0000
BRANCH=    4
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    9 .0003 .0324 .0362 .0138 .0513 .0000
BRANCH=    5 FAC=1.0
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    9 .0124 .1436 .1831 .0303 .0446 .0000
DLAY K=44.0
BRANCH=    6
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    9 .0074 .0123 .0155 .0120 .0060 .0246
BRANCH=    7
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    9 .0100 .0142 .0095 .0031 .0057 .0000
;
;  REMOVE BRANCH 8 FOR LENZ PARK
;
;BRANCH=    8
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
;    0    1 .0412 .0113 .0283 .0026 .0043 .0000
BRANCH=    9
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    9 .0145 .0127 .0133 .0042 .0035 .0080
;
;  REMOVE BRANCH 10 FOR LENZ PARK
;
;BRANCH=   10
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
;    0    1 .1547 .0866 .1699 .0191 .0181 .0000
BRANCH=   12
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    9 .0917 .1542 .1295 .0311 .0476 .0000
BRANCH=   13
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    9 .0142 .0113 .0138 .0027 .0037 .0122
BRANCH=   14
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    9 .0593 .0735 .0272 .0109 .0226 .1071
BRANCH=   15
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    9 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=   16
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    9 .0463 .1121 .0371 .0055 .0235 .0000
BRANCH=   17
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    9 .0000 .0000 .0000 .0000 .0000 .00000
BRANCH=   18
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    9 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=   19
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    9 .0792 .0959 .0767 .0098 .0316 .0000
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BRANCH=   20
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    9 .0895 .0262 .0352 .0042 .0130 .0000
BRANCH=   21
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    9 .0417 .0359 .0548 .0038 .0138 .0000
;BRANCH=   22 FAC=1.0       KLR=25.0
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
;    0    1 .0136 .0142 .0398 .0041 .0047 .0000
BRANCH=   22 FAC=1.0
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    9 .0166 .0290 .0293 .0030 .0091 .0000
DLAY K=25.0
BRANCH=  123 FAC=1.0
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    9 .0000 .0000 .0000 .0000 .0000 .0000
DLAY K=25.0
BRANCH=   23
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    9 .0119 .0131 .0118 .0021 .0036 .0000
BRANCH=   24
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    9 .0000 .0000 .0000 .0000 .0000 .0000
;BRANCH=   25
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
;    0    1 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=   27
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    4 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=   28
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    4 .0043 .0145 .0007 .0002 .0018 .0000
BRANCH=   29
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    4 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=   31
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    4 .0767 .0084 .0059 .0014 .0039 .0000
BRANCH=   32
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    4 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=   34
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    4 .0615 .0505 .0399 .0193 .0199 .0000
BRANCH=   35
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    4 .1019 .0738 .0691 .0071 .0287 .0000
BRANCH=   36
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    4 .0847 .0358 .0123 .0161 .0128 .0000
BRANCH=   37
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    4 .1302 .0265 .0210 .0122 .0089 .0000
BRANCH=   38
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    4 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=   39
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    4 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=   40
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    4 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=   44
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    9 .0009 .0000 .0275 .0000  .0015 .0000
BRANCH=   51
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    9 .0003 .0013 .0000 .0000 .0002 .0000
BRANCH=   52
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
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    0    9 .0062 .0179 .0033 .0002 .0035 .0000
BRANCH=   53
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    9 .0078 .0103 .0087 .0061 .0037 .0000
BRANCH=   54 FAC=1.0
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    9 .0991 .0359 .0177 .0079 .0128 .0039
DLAY K=39.0
;
;  TRIBUTARY AREA BLOCK FROM KEHOE PROJECT ADD BRANCHES 155 AND 255
;
;Make B55 landuse same as PRO3CPW4.DET
;BRANCH=   55 FAC=1.0        KLR=40.0
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
;    0    1 .1977 .0246 .0261 .0049 .0029 .0000
BRANCH=   55 FAC=1.0
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    9 .1676 .0406 .0174 .0072 .0092 .0000
DLAY K=40.0
BRANCH=  155 FAC=1.0
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    9 .0059 .0002 .0006 .0004 .0002 .0000
DLAY K=40.0
BRANCH=  255 FAC=1.0
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    9 .0115 .0007 .0015 .0003 .0003 .0000
DLAY K=40.0
BRANCH=   56
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    5 .1290 .0321 .0199 .0063 .0098 .0000
BRANCH=   57
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    4 .0184 .0051 .0051 .0001 .0022 .0000
BRANCH=   58
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    4 .0223 .0119 .0065 .0025 .0039 .0000
;
;   BRANCH TRIBUTARY AREA CHANGES TO EXPLICITLY DETENTION BASINS IN TRIB 3 HEADWATERS
;
BRANCH=   59
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    4 .0509 .0126 .0028 .0042 .0038 .0000
BRANCH=   60
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    4 .0187 .0114 .0133 .0077 .0049 .0000
BRANCH=   601
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    9 .0019 .0004 .0002 .0002 .0004 .0000
;REMAINING AREA IN SUBBASIN 61 (F124) NOW DRAINS DIRECTLY TO 61
;BRANCH=   61
;NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
;    0    1 .0    .0    .0    .0    .0    .0000
BRANCH=   61
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    4 .0232 .0060 .0008 .0003 .0016 .0000
;
;   END OF BRANCH TRIBUTARY AREA CHANGES
;
BRANCH=   62
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    4 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=   68
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    9 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=   71
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    9 .0005 .0005 .0001 .0000 .0003 .00001
;
;  ADD BRANCHES 80-83 FOR LENZ PARK
;
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BRANCH=   80
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    9 .0057 .0177 .0145 .0006 .0034 .0000
BRANCH=   81
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    9 .0284 .0052 .0062 .0020 .0042 .0000
BRANCH=   82
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    9 .0069 .0193 .0170 .0035 .0053 .0166
BRANCH=   83
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    9 .1203 .0878 .0585 .0467 .0287 .0077
;
; DONE WITH LENZ PARK MODIFICATIONS
;
;TRIBUTARY 1 ADDITIONS
;
;BRANCH=    1001
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
;    0    1 .0806 .0    .2255 .0    .0113 0.000
;BRANCH=    1002
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
;    0    1 .0296 .0    .0827 .0    .0041 0.000
;BRANCH=    1003
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
;    0    1 .0192 .0    .0331 .0    .0027 0.000
;BRANCH=    1004
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
;    0    1 .0291 .0    .0502 .0    .0041 0.000
;BRANCH=    1005
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
;    0    1 .0    .0    .0    .0    .0    0.000
;BRANCH=    1006
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
;    0    1 .0214 .0    .2713 .0    .0139 0.000
;BRANCH=    1006
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
;    0    1 .0024 .0    .0308 .0    .0016 0.000
;BRANCH=    1007
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
;    0    1 .0018 .0    .0234 .0    .0012 0.000
;BRANCH=    1008
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
;    0    1 .0098 .0    .3927 .0    .0282 0.000
;BRANCH=    1009
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
;    0    1 .0027 .0    .0546 .0    .0892 0.000
;BRANCH=   1010
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
;    0    1 .0097 .0    .0375 .0    .0243 0.000
;BRANCH=   1011
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
;    0    1 .0    .0    .0    .0    .0    0.000
;BRANCH=   1012
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
;    0    1 .0    .0    .0    .0    .0    0.000
;BRANCH=  1120
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
;    0    1 .0    .0    .0    .0    .0    0.000
BRANCH=  1121
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
    0    5 .0    .0    .0    .0    .0    0.000
;BRANCH=   1020
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
;    0    1 .0000 .0000 .0000 .0000 .0000 .0000
;BRANCH=   1021
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
;    0    1 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=   1022
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
```

```
    0    5 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=   1023
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
    0    5 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=   1024
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
    0    5 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=   1025
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
    0    5 .0000 .0000 .0000 .0000 .0000 .0000
BRANCH=   1026 FAC=1.0000
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    5 .0008 .0000 .0027 .0000 .0004 .0000
BRANCH=   1027 FAC=1.0000
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    5 .0018 .0007 .0068 .0000 .0011 .0000
BRANCH=   1028 FAC=1.0000
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    5 .0009 .0020 .0024 .0000 .0006 .0000
BRANCH=   1029 FAC=1.0000
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    5 .0009 .0021 .0007 .0003 .0004 .0000
BRANCH=   1030 FAC=1.0000
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    5 .0032 .0049 .0111 .0009 .0024 .0000
BRANCH=   1031 FAC=1.0000
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    5 .0047 .0033 .0111 .0000 .0028 .0000
BRANCH=   1032 FAC=1.0000
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FORST AGRIC
    0    5 .0685 .0368 .0130 .0054 .0046 .0000
BRANCH=   1033
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
    0    9 .0191 .0344 .0237 .0082 .0106 .0499
BRANCH=   1034
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
    0    5 0.000 0.000 0.000 0.000 0.000 0.000
BRANCH=   1035
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
    0    9 .0028 .0073 .0050 .0020 .0018 .0000
BRANCH=   1036
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
    0    9 .0046 .0072 .0067 .0043 .0029 .0000
BRANCH=   1037
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
    0    9 0.000 0.000 0.000 0.000 0.000 0.000
BRANCH=   1038
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
    0    9 0.000 0.000 0.000 0.000 0.000 0.000
BRANCH=   1039
 NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
    0    9 0.000 0.000 0.000 0.000 0.000 0.000
;BRANCH=   1040
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
;    0    1 0.000 0.000 0.000 0.000 0.000 0.000
;BRANCH=   1041
; NODE GAGE IMPRV FGRSS MGRSS SGRSS FFRST AGRIC
;    0    1 0.000 0.000 0.000 0.000 0.000 0.000
;END OF TRIBUTARY 1
NEW NETWORK-MATRIX CONTROL INPUT
 CODE   N1   N2   N3   N4   N5   N6   N7   N8   N9  N10      F1     F2     F3     F4     F5
    4   3    D1   -1   D1   0
    1    1
    3   U1   D2
    2    3   U1   D2   D3
    3   D2   D3
    1    2
    1    3
    6    1   U2   1    0                                     37.00
    3   U3   D4
```

```
    2    4   U3   D4   D39  F1039
    1   39
    3   D4   D39
;    3   D4   F107
;    6    1   F106 1    0                                    1.00
;   15 F106   F107
    1   40
    3  U39   D40
;    3  U39   F105
;    6    1   F104   1  0                                    1.00
;   15 F104   F105
    3  U40   F101
    6    1   F100   1   0                                   4.00
   15 F100   F101
    2    4   U40  F101 F38  F103
    7 F103   346  1    F102
    6    1   F102 1    0                                   1.00
    4    2   F103 -1   F103 360                             725.49
    7  F38   314  1    F37
    6    1   F37  1    0                                   0.00
    4    2   F38  -1   F38  349                             1000.00
;****************************
;TRIBUTARY 1 CODE REVISIONS
;****************************
;CODE COMMENTED OUT THAT IS DUPLICATED IN MAINSTEM
;    4   3    D12   -1    D12   0
;    3 U12    D10
;    3 U12    D11
;    2   3    D10   D11   U12
;    1  12
;    1  11
;UPSTREAM BOUNDARY FOR THE WEST BRANCH SEGMENT - BASEFLOW ADDITION
;    6   1    U11   1     0                                   37.0
;    1  10
;    3 U10    D9
;CONFLUENCE OF PRAIRIE PATH TRIB AND MAINSTEM
;    3  D9    D41
;TRIB #1 - TIMBER RIDGE FPD POND OUTLET
;    5   6    F39   D9    F39   534   534                     716.21
     5    6   F1039 D4 F1039 1534   1534                   716.21
;    2   4    U10   D9    D41   F39
;    2    2    D4   F1039
;    1   9
;    1  41
    3 F1038  F1046
;TRIB #1 - EXPANSION FROM COUNTY FARM ROAD CULVERT INTO TIMBER RIDGE FPD POND
    5   1    D1039 F1038 D1039 1     292                     1.0    0.5    721.20
    2   4    F1046 F1037 D1039 F1038
;TRIB #1 - TIMBER RIDGE FPD POND
    7 F1039  1310   1     F1038
;TRIB #1 - ADDITIONAL FLOW OVER COUNTY FARM ROAD INTO TIMBER RIDGE FPD POND
    5   6    F1037 F1038 F1037  825   825                     736.78
;FARM ROAD
;    3  U9    D8
;    2   2    U9    D8
;   11 D40    U41
;PRAIRIE PATH TRIB - SIDE-FLOW WEIR INTO TIMBER RIDGE FPD POND
   14 D40    U39   F1047 1559   1559                           0.5    722.75
    2   3    U39   F1047 D40
   15 F1047  F1046
    1 1039
;    1   8
    3 F1036  D1038
   15 F1036  F1037
    2   3    F1036 U1039 D1038
;    1  40
;TRIB #1 - CONTRACTION INTO COUNTY FARM ROAD CULVERT
    5   1    D1038 U1039 U1039 -1    292                     0.3    0.3    731.81
;COUNTY FARM ROAD
;    5   6    D7 U8 D7    501   501                           1      725.60
```

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;                          502   502                          734.15
;    2   2    U8    D7
;    3 U40    F45
;   15 F44    F45
;PRAIRIE PATH TRIB - BASEFLOW
;    6   1    F44  1      0                                  4.00
;    2   4    U40  F43    F41  F45
    1 1038
;PRAIRIE PATH TRIB - TIMBER RIDGE DETENTION OUTFLOW
;    4   2    F43  -1     F43  332                          725.49
;    1   7
;   2   4    U7    D6    D120  F1207
;    2   3    U7    D6    D120
;    3  U07   D120
;    3  U7    D6
;    1  120
;    1   6
;PRAIRIE PATH TRIB - TIMBER RIDGE DETENTION POND
;    7  F43   316   1     F42
;    6   1    F42   1     0                                   0.00
;PRAIRIE PATH TRIB - LINEAR RESERVOIR
;    4   2    F41   -1    F41   349                          1000.00
;    7  F41   352   1     F40
;    6   1    F40   1     0                                   0.00
;TRIB #1 - EXPANSION INTO NATURAL CHANNEL (U/S COUNTY FARM ROAD)
    5   1    D1037 U1038 D1037 1     293                     0.8    0.5    734.20
;TRIB #1 - ADDITIONAL OVERLAND DITCH FLOW (U/S COUNTY FARM ROAD)
    5   6    F1035 U1038 F1035 1584   1584                   738.00
    2   3    U1038 D1037 F1035
;CHICAGO AND NORTHWESTERN RAILROAD
;    5   4    D5 U6 D5    1009  1009  1003  818  818 500      855.31 749.70 0.62   750.48
;    2   2    U6 D5
    1  1037
    3 F1034  D1036
   15 F1034  F1035
;    1   5
    2   3    F1034 U1037 D1036
;TRIB #1 - CONTRACTION FROM NATURAL CHANNEL (U/S COUNTY FARM ROAD)
    5   1    D1036 U1037 U1037 -1    293                     0.3    0.3    735.87
;BEAVER DAM - REMOVED
;    3  U5    D4
;    2   2    U5    D4
    1  1036
;    1   4
;TRIB #1 - CENTER AVENUE
    5   6    D1035 U1036 D1035  1507  1507                           741.65
    2   2    U1036 D1035
;METAL WORKS ROAD (PRIVATE)
;    5   6    D3    U4    D3    539   539                     1      732.68
;                               589   589                     2      738.05
;                               590   590                            739.52
;    2   2    U4    D3
    1  1035
    3 D1034  U1035
    2    2   U1035 D1034
    1  1034
;    1    3
;ST. CHARLES ROAD
;    5    6   D2 U3 D1002 538   538                           1      734.04
;                               582   582                     2      744.01
;                               583   583                            742.86
;    2    2   U3 D2
;    1    2
;BEAVER DAM - REMOVED
;    3   U2   D1
;    2    2   U2 D1
;    1    1
;UPSTREAM MODEL BOUNDARY (NORTH AVENUE)
;    6    1   U1 1     -17                                          29.0
    1  1033
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    2     4  F1032 D1032 F1031 U1033
    1  1032
;TRIB #1 - FISHER AND CLOW PROPERTY TILE LINE
    5    6   D1032 F1031 F1031 3050  3050                    765.50
   15 F1033  F1032
   15 F1031  F1030
;TRIB #1 - BASEFLOW
    6    1   F1033 1     0                                   4.00
;TRIB #1 - CLOW PROPERTY OUTLET
    5    6   D1032 U1033 U1033 4120  4120                    763.00  /
                               4121  4121                    768.70
;    3 D1032  U1033
    3 D1032  F1032
* NEW CODES START HERE
;TRIB #1 - POND O TO POND A
    5    6   F1133 F1134 F1133 3092 3092                     758.00  /
                               3082 3082                     763.50
    2    2   F1133 F1134
   15 F1134  F1135                                           0.0070 8000.
;TRIB #1 - POND O TO POND A
    5    6   F1135 F1136 F1135 3070 3070                     758.00  /
                               3076 3076                     766.00
    2    2   F1136 F1135
    2    4   D1033 F1132 F1131 F1030
    3 F1132  F1030
;TRIB #1 - DIVERSION INTO POND N/O
    5    6   D1033 F1132 D1033 1218 1218                     758.00  /
                               3072 3072                     765.10
;TRIB #1 - POND N/O
    7 F1133  1011  1     F1132                               0.0060
;TRIB #1 - POND M INFLOW INTO POND N/O
    5    2   F1131 F1132 F1131 1246 50     1246 50           764.00
;TRIB #1 - POND M
    7 F1131  1010  1     F1130
;TRIB #1 - POND L INFLOW INTO POND M
    5    2   F1215 F1130 F1215 1245 50     1245 50           767.00
    2    2   F1215 F1130
;TRIB #1 - POND A
    7 F1137  1013  1     F1136                               0.0080
;TRIB #1 - POND A INFLOW INTO POND B
    5    6   F1137 F1138 F1138 3213 3213                     757.00  /
                               3074 3074                     759.00
    2    2   F1137 F1138
;TRIB #1 - POND B
    7 F1139  1015  1     F1138                               0.0050
;TRIB #1 - POND B INFLOW INTO POND C (MOD WEIR)
    5    6   F1139 F1140 F1140 3094 3094                     752.50  /
                               3084 3084                     759.20
    2    2   F1139 F1140
;TRIB #1 - POND C
    7 F1141  1016  1     F1140                               0.0050
;TRIB #1 - POND C INFLOW INTO POND D (DIVERSION)
    5    6   F1141 F1200 F1200 1215 1215                     749.0
;TRIB #1 - POND C INFLOW INTO ORIGINAL CHANNEL (WEIR)
    5    2   F1141 F1142 F1142 1243 50     1243 50           750.00
    2    3   F1141 F1142 F1200
   15 F1142  F1143
    3 U1034  F1143
    3 U1034  F1145
    2    3   F1143 F1145 U1034
   15 F1144  F1145
    6    1   F1144 1     0                                   3.0
;TRIB A - POND D
    7 F1201  1025  1     F1200
    2    3   F1201 F1202 F1209
;TRIB A - POND D INFLOW INTO POND E
    5    6   F1201 F1202 F1201 1225 1225                    745.00   /
                               3068 3068                    750.70
;TRIB A - POND H INFLOW INTO POND E
    5    6   F1209 F1202 F1209 1224   1224                  752.00   /
```

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                                3067   3067                   757.00
;TRIB A - POND H
    7 F1209  1024  1     F1208                               0.0010
    2    2   F1208 F1211
;TRIB A - POND I INFLOW INTO POND H
    5    6   F1211 F1208 F1208 1223 1223                     752.00   /
                                3066 3066                   756.50
;TRIB A - POND J
    7 F1219  1021  1     F1218
;TRIB A - POND J INFLOW INTO POND I
    5    6   F1219 F1210 F1219 1221 1221                     755.00   /
                                3065 3065                   759.70
    6    1   F1218 1     0                                    0.0
;TRIB A - POND I
    7 F1211  1023  1     F1210                                0.001
    2    3   F1210 F1213 F1219
;TRIB A - POND K INFLOW INTO POND I
    5    6   F1213 F1210 F1213 1222 1222                      754.50  /
                                3064 3064                    760.50
;TRIB A - POND K
    7 F1213  1022  1     F1212
    2    2   F1212 D1121
    3 D1121  F1212
    1  1121
    6    1   U1121 1     0                                    2.0
;TRIB A - POND L
    7 F1215  1020  1     F1214
    6   1    F1214 1     0                                    0.0
;TRIB A - POND E
    7 F1203  1026  1     F1202
    2    2   F1203 F1204
;TRIB A - POND E INFLOW INTO POND F
    5   6    F1203 F1204 F1203 1226 1226                      745.00  /
                                3063 3063                    750.00
;TRIB A - POND F
    7 F1205  1027  1     F1204
    2    2   F1205 F1206
;TRIB A - POND F INFLOW INTO POND G
    5    6   F1205 F1206 F1205 1227 1227                      741.50  /
                                3062 3062                    744.50
;TRIB A - POND G
    7 F1207  1028  1     F1206
;   6    1   U1120 1     0                                    0.0
;TRIB A - POND G INFLOW INTO TRIB A (PIPE)
    5    6   F1207 U6    F1207 1228 1228                      734.50  /
                                3061 3061                    736.50
    6    1   U1026 1     0                                    2.00
    1  1026
    2    2   D1026 U1027
    5    6   D1026 U1027 D1026 4211 4211                      770.35
    1  1027
    2    2   D1027 U1028
    5    6   D1027 U1028 D1027 4212 4212                      769.38  /
                                1750 1750                    773.80  /
                                1752 1752                    773.40
    1  1028
    2    2   D1028 U1029
    5    6   D1028 U1029 D1028 4213 4213                      768.67  /
                                1754 1754                    774.00  /
                                1756 1756                    774.39
    1  1029
    2    2   D1029 U1030
    5    6   D1029 U1030 D1029 4214 4214                      768.26  /
                                1758 1758                    774.90  /
                                1760 1760                    775.15
    1  1030
   15 F1007  F1008
    2    3   D1030 U1031 F1007
   14 D1030  U1031 F1007 216   216                            0.5    771.30
    5    6   D1030 U1031 U1031 4216  4216                     767.94
```

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    1  1031
    2    6   D1031 F1008 D1025 F1006 F1013 F1018
    5    6   D1031 F1006 D1031 4215  4215                    766.40  /
                              1762  1762                    770.00  /
                              1764  1764                    770.00
    3  F1008 F1006
    6    1   F1002 1     0                                  1.00
    2    3   F1001 U1020 F1015
    5    6   F1001 U1020 U1020 1700  1701                    769.66
    5    6   F1001 F1015 F1015 3080  3080                    772.00
   15 F1015  F1016
    1  1020
;    5    6   D1020 U1021 D1020 1702  1703                    769.58
    5    6   D1020 U1021 D1020 1702  1702                    769.58
    2    2   D1020 U1021
    1  1021
    5    6   D1021 U1022 D1021 1704  1705                    769.51
    2    2   D1021 U1022
    1  1022
    5    6   D1022 F1004 D1022 1706  1707                    768.98
    2    3   D1022 F1004 F1016
    3  F1004 F1016
    7  F1003 1892  1     F1004
    2    3   F1003 U1023 F1017
    5    6   F1003 U1023 U1023 1708  1709                    768.98
    5    6   F1003 F1017 F1017 3078  3078                    774.00
   15 F1017  F1018
    1  1023
    5    6   D1023 U1024 D1023 1710  1711                    768.51
    2    2   D1023 U1024
    1  1024
    5    6   D1024 U1025 D1024 1712  1713                    768.14
    2    2   D1024 U1025
    1  1025
    3  F1006 F1018
    5    6   D1025 F1006 D1025 1714  1715                    765.68
    7  F1005 1890  1     F1006                               0.003
    5    6   F1006 F1013 F1013 215   215                     999.00
   15 F1013  F1014
   15 F1009  F1010
    2    2   F1005 F1009
    2    3   F1010 U1032 F1011
    3 F1010  U1032
    2    2   F1014 F1012
    3 F1014  F1012
    7 F1011  1896  1     F1012
    5    6   F1011 U1032 F1011 9030  9030                    765.50  /
                              9040  9040                    772.40
    7  F1001 1894  1     F1002
    4    2   F1005 -1    F1005 1891                          0.00
;*****************************
;END OF TRIBUTARY 1 REVISIONS
;*****************************
    1   4
    3  U4    D5
    2   2    U4   D5
    1   5
    5   6    D6   U5   D6   501  501                        726.30   /
                             502  502                        735.00
    2   2    U5   D6
    1   6
    1  44
    2   4    U6   D44  F109 F1207
    3  U6    D44
    3  U6    F109
    6   1    F108      1    0                                1.00
   15 F108   F109
    5   4  D7 U44 U44 1009 1009 1003 818 818 500 855.31 749.70   0.62 750.48
    2   2    U44  D7
    1   7
```

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;
; *****THIS IS THE LENZ PARK BRIDGE ADDITIONS (W/ BRIDGES)****
;      CODE REVISIONS ALSO INCLUDE CEMCON BRIDGE MODIFICATIONS AT NORTH AND KUHN
;
    1   80
    5    6   D80  U7   D80  539  539                          732.68  /
                      589  589                                738.05  /
                      590  590                                739.52
    2    2   U7   D80
    1   81
    5    6   D81  U80  D81  595  595                          733.28  /
                      507  508                                737.80
    2    2   U80  D81
    1   82
    5    6   D82  U81  D82  538  538                          734.04  /
                      582  582                                744.01  /
                      583  583                                742.86
    2    2   U81  D82
    1   83
    5    6   D83  U82  D83  596  596                          734.76  /
                     4000  4001                               741.00
    2    2   U82  D83
; *****THIS IS THE PROPOSED LENZ PARK SW POND (NW PARCEL)*****
    7 F410   4002 1    F409
    6    1   F409 1    0                                     10.00
   15 F411   F412
   15 F413   F414
   15 F415   F416
    2    3   F410 F411 F413
    5    6   F410 F411 F411 4004 4004                         742.60
    5    6   F410 F413 F413 4003 537                          737.55
    2    3   F412 F414 F415
    3 F415   F412
    3 F415   F414
    2    3   U83  D12 F416
    3  U83   F416
; ***************************************************
;    5   6 D12 U83 D12 540 540               1 735.80
;                      541 541                 746.07
; ***************************************************
;    1   8
;    5   6  D8  U7  D8 539 539               1 732.68
;                      589 589               2 738.05
;                      590 590                 739.52
;    2   2  U7  D8
;    5   6 D10  U8 D10 538 538               1 734.04
;                      582 582               2 744.01
;                      583 583                 742.86
;    2   2  U8 D10
;    1  10
;    2   2 U10 D12
;   BEGIN CEMCON,LTD CODE REVISION (10/01)
;   REVISION FOR RT.64 AND KUHN RD CULVERTS(BOTH RECONSTRUCTED)
;    5   6 D12 U10 D12 540 540               1 735.80
;                      541 541                 746.07
;   TABLE 5540 IS NEW RT.64 (NORTH AVE) CULVERT X-ING
    5   6 D12 U83 D12 5540 5540                              735.20
    1  12
;    5   6 D13 U12 D13 554 554               1 737.80
;                      555 555               2 745.49
;                      556 556                 745.63
;   TABLES 5554 AND 5556 ARE NEW KUHN RD. CULVERT X-ING
;   TABLE 5554 IS CULVERT AND 5556 IS ROB CHANRAT(N. OF HEADWALL)
    5   6    D13 U12  D13   5554 5554                 737.00 /
                            5556 5556                 744.80
;
;   END CODE REVISIONS FOR LENZ PARK AND NORTH AVENUE/KUHN ROAD
;
    2    2   U12 D13
    1   13
```

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    1    9
    7  F96   399   1  F95
    2    2   F95 F98
       3  F95   F98
   15  F97   F98
    5    6   F96 U13  F96   790  537                          739.00
   14  D9    U13  F97 799 799                                 1.0    743.00
    3  U13   D9
       2    4   U13  D9  F96 F97
    5    6   D14  U9   D14  812  812                          738.40
    2    2   U9   D14
    1   14
    5    6   D15  U14  D15  545  545                          739.09
    2    2   U14  D15
    1   15
    3  U15   D16
    3  D16   D51
    2    3   U15  D16  D51
    1   16
;************************
;BEGINNING OF TRIBUTARY 2
;************************
    1   51
    5    6   D52  U51  D52  503  503                          740.64
    2    2   U51  D52
    1   52
    5    6   D53  U52  D53  515  515                          743.39
    2    2   U52  D53
    1   53
    5    6   D54  U53  D54  511  511                          746.75
    2    2   U53  D54
    1   54
; ******************************************************
; Beginning of New Network Matrix Control - GARY KEHOE RESERVOIR
; Elevations for Gary-Kehoe updated per 2010 survey completed by Thomson
   15   F3    F4
   15 F135  F136
    2    3   U54  F4   F136
;    2    2   U54  F136
    5    6  F136  U54  F136 573  573                          749.06
    5    6    F4  U54   F4  5981 5981                         759.20
;    4    2   F4   -1   F4   597                              759.20
   15  F41   F42
   15  F43   F44
    2    3   F135 F42  F44
    3  F135  F42
    3  F135  F44
   15  F137  F138
    2    2   F138 F41
    5    6   F138 F41  F138 574  574                          751.37
   15  F53   F54
    2    2   F137 F54
    5    6   F54  F137 F54  578  578                          751.50
   15 F145   F146
    2    2   F53  F146
    5    6   F146 F53  F146 586  586                          751.65
   15  F89   F90
   15  F65   F66
   15 F147   F148
    2   4    F145 F90  F65  F148
    3 F145   F90
    3 F145   F65
    3 F145   F148
    1   68
    2    2   F89  D68
    3  F89   D68
    1   55
    2    3   U68  D55  F3
;    2    2   U68  D55
    3  D55   U68
```

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    3  D55   F3
   15 F159   F160
    2    2   F147 F160
    5    6   F160 F147 F160 577  577                          755.60
    1   71
    2    2   F159 D71
    3  D71   F159
    7 F158   584  1    F157
    2    3   U71  F48  F158
    4    2   F158 -1   F158 585                               1000.00
    6    1   F157 1    0                                      0.5
    7  F48   382  1    F47
    4    2   F48  -1   F48  383                               1000.00
    6    1   F47  1    0                                      0.5
    2    2   F66  F51
    5    6   F66  F51  F66  598  598                          754.89
    7  F52   309  1    F51
    2    2   F52  F43
    5    6   F52  F43  F52  576  537                          749.70
; End of New Network Matrix Control - GARY KEHOE RESERVOIR
; *******************************************************
    6    1   F55  1    0                                      0.0
    6    1   F57  1    0                                      0.0
; 1-D table updated to 2-D table, per 2010 survey
;    4    2   F56  -1   F56  340                               761.60
       5    6   F56  U255 F56  4021 4021                        760.84  /
                           4022 4022                          762.98
    7  F56   344  1   F55
;
; 250 Kehoe Boulevard Project
;
    5    1   D56  U255 D56  1    297                          1.0    0.5 760.50
    2    4   U255 F56  F58  D56
;    5   1   D56  U55  D56  1    297                          1.0    0.5 760.50
;    2   4   U55  F56  F58  D56
    2    2   D255 U155
;   3  D255  U155
    5    6   D255 U155 D255 7101 7101                         760.25  /
                           7102 7102                          765.35  /
                           7103 7103                          765.35  /
                           7104 7104                          765.00
    1  255
    2    2   D155 U55
;   3  D155  U55
    5    6   D155 U55  D155 7201 7201                         759.30  /
                           7202 7202                          764.29  /
                           7203 7203                          764.00  /
                           7204 7204                          764.00
    1  155
;
; End of 250 Kehoe Boulevard Project
;
    4    2   F58  -1   F58  341                               778.00
    7  F58   345  1    F57
    1   56
    3  U56   F60
    6    1   F59  1    0                                      8.00
   15  F59   F60
    2    3   U56  F60  F62
; 1-D table updated to 2-D table, per 2010 survey
;    4    2   F62  -1   F62  322                               785.00
       5    6   F62  F60 F62   4019 4019                        780.28  /
                           4020 4020                          783.89
    7  F62   323   1   F61
    4    2   F64  -1   F64  320                               790.50
    2    2   F61  F64
    7  F64   321  1    F63
    6    1   F63  1    0                                      1.0
;**********************
;END OF TRIBUTARY 2
```

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;**********************
    5    6   D17  U16  D17  547  547                        738.93
    2    2   U16  D17
    1   17
   11  D18   U17
    2    5   U17  F1   D18  F88  F36
    7  F88   348  1    F87
    5    6   F88  U17  F88  534  534                        742.70
   15  F35   F36
    5    6   F36  U17  F36  559  559                        750.56
    3  F35   F87
    2    3   F87  F35  F46
    7  F46   381  1    F45
    4    2   F46  -1   F46  380                             1000.00
    6    1   F45  1    0                                    0.0
    5    6   D18  F1   F1   998  999                        745.00
   15   F1   F2
    7   F8   361  1    F7
    3   F2   F7
    1   18
    5    6   F8   U18  F8   579  537                        742.00
    7  F84   359  1    F83
    5    6   F86  F83  F86  834  834                        744.50
   15  F85   F86
    3  F85   F7
    5    6   F84  U18  F84  580  537                        741.00
    2    4   D19  U18  F84  F8
    2    4   F7   F2   F85  F94
    2    2   F83  F86
    7  F94   396  1    F93
    4    2   F94  -1   F94  397                             745.00
    6    1   F93  1    0                                    0.0
    5    6   D19  U18  D19  551  552                        741.90  /
                        553  553                             750.00  /
                        563  563                             749.00
    1   19
    3  U19   D20
    2    2   U19  D20
    1   20
    2    2   U20  D21
    5    6   D21  U20  D21  591  591                        743.81  /
                        592  592                             750.71  /
                        807  807                             752.85  /
                        593  593                             752.74  /
                        594  594                             752.80
    1   21
    3  U21   D22
    2    2   U21  D22
    1   22
;   ELEVATIONS UPDATED TO REFLECT FOUNTAIN VIEW ROAD AS-BUILTS
    5    6   D123 U22  D123 587  587                        745.34  /
                           1588 1588                       754.21
    3  U22   F182
    1  123
    5    6   D23  U123 D23  1587 1587                       744.90 /
                           588  588                        752.87
    2    2   U123 D23
; 12" DRAINTILE CONNECTION
    3  U22   F164
    2    4   U22  D123 F182 F164
; Fountains at Town Center
;
    6    1   F177  1    0                                   0.0
    7 F178   2101  1    F177
    6    1   F175  1    0                                   0.0
    7 F176   2102  1    F175
    2    3   F178  F176 F173
    5   6    F178  F173 F178 1901 1901                      783.27  /
                            2001 2001                      999.99
    5   6    F176  F173 F176 1902 1902                      780.95  /
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                              2002 2002                        999.99
    7 F174   2103  1    F173
    6    1   F167  1    0                                      0.0
    7 F168   2106  1    F167
    2    3   F174  F169 F168
    5    6   F174  F169 F174 1903 1903                        776.26  /
                              2003 2003                        784.51
    5    6   F168  F169 F168 1906 1906                        761.00  /
                              2006 2006                        766.00
    7 F172   2104  1    F171
    7 F170   2107  1    F169
    2    4   F172  F170 F161 F212
    5    6   F172  F161 F172 1904 1904                        755.88  /
                              2004 2004                        764.00
    5    6   F170  F161 F170 1907 1907                        755.50  /
                              2007 2007                        764.10  /
                              2207 2207                        755.68
    7 F162   2105  1    F161
    7 F204   2114  1    F203
    2    3   F162  F215 F163
    5    6   F162  F215 F215 1905 1905                        999.99  /
                              2005 2005                        753.50
    5    6   F162  F163 F163 1905 1905                        750.41
   15 F163   F164
   15 F215   F216
    2    3   F216  F203 F214
    3 F216   F203
    3 F214   F203
    2    2   F204  F165
    5    6   F204  F165 F204 1914 1914                        749.20
   15 F165   F166
;
    6    1   F205  1   0                           0.0
    7 F206   2116  1   F205
    2    3   F206  F211 F213
    5    6   F206  F213 F213 1916 1916                 751.00
    5    6   F206  F211 F211 2016 2016                 757.00
   15 F211   F212
   15 F213   F214
    3 F161   F212
;
    6    1   F207  1    0                                      0.0
    7 F208   2117  1    F207
    2    4   F208  F166 F209 F194
    5    6   F208  F209 F208 1917 2317                        748.80  /
                              2017 2017                        753.50  /
                              2217 2217                        754.50
    3 F209   F166
;
    7 F210   2115  1    F209
    2    2   F210  F195
    5    6   F210  F195 F210 2315 2315                        999.99  /
                              2015 2015                        748.00  /
                              2215 2215                        750.50
;
    6    1   F183    1  0                                      0.0
    7 F184   2109    1  F183
    2    2   F184  F191
    5    6   F184  F191 F184 1909 1909                        751.40  /
                              2009 2009                        760.00
    6    1   F185  1    0                                      0.0
    7 F186   2110    1  F185
    2    2   F186  F193
    5    6   F186  F193 F186 1910 1910                        754.00  /
                         2010 2010                             760.00
;    6    1  F187  1    0                                      0.0
;    7 F188  2111  1    F187
;    2    2  F188  F195
;    5    6  F188  F195 F188 1911 1911                        750.00  /
;                              2011 2011                        757.00
```

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    6    1   F189  1    0                                   0.0
    7 F190   2112  1    F189
    2    2   F190  F197
    5    6   F190  F197 F190 1912 2312                      747.50  /
                        2012 2012                           753.50  /
                        2212 2212                           754.00
;
   15 F191   F192
   15 F193   F194
   15 F195   F196
   15 F197   F198
   15 F199   F200
    2    4   F192  F196 F198 F199
    3 F199   F192
;    3F199   F194
    3 F209   F194
    3 F199   F196
    3 F199   F198
;
   15 F181   F182
    6    1   F179  1    0                                   0.0
    7 F180   2108  1    F179
    2    3   F180  F181 F201
    5    6   F180  F181 F181 1908 1908                      767.33
    5    6   F180  F201 F201 2008 2008                      777.60
   15 F201   F202
;
    2    2   F202 F171
    3 F202   F171
;
; END OF FOUNTAINS AT TOWN CENTER UPDATE
    1   23
    5    6   D24  U23  D24  549  549                        745.53  /
                          550  550                          755.22
;  FOUNTAIN VIEW ADDITIONS PER CBBEL PLANS
    7  F10   350  1    F9
   15 F420   F421
   15 F422   F423
   15 F424   F425                   1.0E-8   500.0
    2    3   F420 F422 F425
    3 F420   F425
    3 F422   F425
    2    2   F10  F424
   15 F437   F438
   15 F439   F440
       5    6   F10  F424 F10  3224 3224                      750.35
    5    6   F421 F437 F421  3226 3226                      748.18  /
                             3225 3225                      746.2
    5    6   F423 F439 F423  3225 3225                      946.2
       2    2   F437 F421
       2    2   F439 F423
;       3 F438   F12
       3 F440   U23
;    4    2   F10  -1   F10  352                             752.00
    2    3   U23 F440  D24
;   END FOUNTAIN VIEW ADDITIONS PER CBBEL PLANS
    7  F34   302  1    F33
; Updated 1-d table based on as-built information from the County
;    4    2   F34  -1   F34  301                            760.00
    5    6   F34  F9   F34  4023 4023                       759.90  /
                             4024 4024                      768.50
    7  F40   332  1    F39
    4    2   F40  -1   F40  316                            770.50
    2    2   F40  F33
    2    2   F9   F34
    6    1   F39  1    0                                   0.0
    1   24
    3  U24   F12
    2    2   U24  F12
    7  F12   2113  1    F11
```

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;  REVISE GARY AVENUE CULVERT CROSSING
;    1   25
;   15  F13   F14
;    5    1   D25  F11  D25  1    296                        1.0    0.5    746.89
;    5    1   F92  U25  U25  -1   295                        0.2    0.2    747.00
    5    6   F92  F11  F92  3222 3222                       746.94  /
                             803  803                       758.00
;    3  F13   F92
;    2    3   F92  U25  F13
    2    4   F11  F92  F200 F438
;    3 F11   F166
    3  F11   F200
    3  F11   F438
    7  F92   395  1    F91
    2    3   F91  D57  D27
    5    6   D27  F91  D27  911  912                       752.87
    1   27
;*************************
;BEGINNING OF TRIBUTARY 3
;*************************
    5    6   D57  F91  D57  913  914                       750.80
    5    6   D58  U57  U57  527  527                       752.79
;  STRATFORD SQUARE MALL POND 1 - DOWNSTREAM MOST POND
;    4    2   F70  -1   F70  336                            757.27
    5    6   F70  D58 F70   4033 4033                      758.04  /
                             4032 4032                      763.34
    7  F70   318  1    F69
    2    2   F69  F72
;  STRATFORD SQUARE MALL POND 2 - UPSTREAM POND
;    4    2   F72  -1   F72  335                            760.16
    5    6   F72  F69 F72   4031 4031                      761.02  /
                             4030 4030                      767.32
    7  F72   317  1    F71
    2    2   F71  F74
    4    2   F74  -1   F74  337                            768.52
    7  F74   304  1    F73
    6    1   F73  1    0                                   1.0
;     4    2   F78  -1   F78  311                            763.00
;    2   5   F78  D58  F76  U57  F70
    2    5   F78  D58  F408 U57  F70
; LIFETIME FITNESS UPDATE WBK CBBEL APRIL 2010 - CHANGE CODE 4 TO CODE 5
;    4   2   F76  -1   F76  313                            761.00
; LIFETIME FITNESS DETENTION BASIN OUTLET CONTROL STRUCTURE 15-INCH OUTLET PIPE AND WEIR BOX
    5    6   F76  F407 F76  3001 3001                      760.15  /
                             3002 3002                      765.28
;2ND CONTROL STRUCTURE IS 36-INCH OUTLET PIPE AND OVERFLOW DUMMY BRANCH
    5    6   F408 D58  F408 9000 9000                      759.94  /
                             3003 3003                      765.22
    2    2   F76  F407
   15 F407   F408                  1.0E-8   500.0
    7  F76   319  1 F75
    6    1   F75  1   0                                    0.0
;END OF LIFETIME FITNESS MODIFICATIONS
;  COVINGTON POND 6 - CHANGE CODE 4 TO CODE 5 ORIFICE AND WEIR PER PLANS
    5    6   F78  D58 F78   3041 3041                      762.95  /
                             3040 3040                      766.00
    6    1   F77  1    0                                   1.0
    7  F78   312  1    F77
    1   57
    1   58
    5    6   D59  U58  D59  525  525                       753.92
    2    2   U58  D59
    1   59
    1   60
;TRIBUTARY 3 HEADWATERS UPDATES BASED ON 2010 SURVEY
    5    6   D60  U59  D60  523 523                        756.53  /
                             524 524                        760.97
    2    2   U59  D60
;PEPPER CITY CULVERT EXTENSION - JUNE 2001
    1  601
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    5    6   U60  D601 U60  3218  3218                        762.80
    2    2   U60  D601
; END OF PEPPER CITY UPDATES
    5    6   U601 D61  U601 521   521                         762.85

;   4    2   F124 -1   F124 366                               800.00
; COSTCO DETENTION BASIN OUTLET CONTROL STRUCTURE
;    5    6   F124 D61  F124 4007 4007                        769.95  /
    5    6   F124 F435 F124 4007 4007                        769.95  /
                           4006 4006                         777.00
    7 F124   367  1    F123
    6    1   F123 1    0                                     0.00
; LOWES DETENTION BASIN OUTLET CONTROL STRUCTURE
;    5    6   F122 D61  F122 4005 4005                        768.85  /
    5    6   F122 F432 F122 4005 4005                        768.85  /
                           3042 3042                         778.00
    3  D61    F433
    3  D61   F436
    2    2    F124 F435
    2    2   F122 F432
    2    4   F433 F436 D61 U601
   15 F432   F433
   15 F435   F436
;  Moved Lowes detention pond because it drains north of Army trail Road
    7 F122   365  1    F121
    6    1   F121 1    0                                     0.00
    1   61
    5    6   D62  U61  D62  519  519                         762.27
    2    2   U61  D62
;    2   2   U62  F84
    1   62
;DETENTION BASIN DOWNSTREAM OF MALLARD ON WEST SIDE
    7 F126   400  1    F125
    6    1   F125 1    0                                     00.0
;DETENTION BASIN OUTLET CONTROL STRUCTURE
;    5    6   F126 U62  F126 4014 4014                        766.22  /
    5    6   F126 F428 F126 4014 4014                        766.22  /
                           4015 4015                         774.00
;    3 U62   F80
;    6   1   F79  1    0                                     10.00
;DETENTION BASIN DOWNSTREAM OF MALLARD ON EAST SIDE
    7 F406   369  1    F405
    6    1   F405 1    0                                      1.00
;DETENTION BASIN OUTLET CONTROL STRUCTURE
;    5    6   F406 U62  F406 4016 4016                        764.66  /
    5    6   F406 F426 F406 4016 4016                        764.66  /
                           4017 4017                         768.00
;     2   4   U62  F126 F406 F404
;    4   2   F126 -1   F126 368                               800.00
;    2   4   U62  F80  F82  F126
;   15 F79   F80
;STORAGE DOWNSTREAM OF MALLARD LAKE
    7 F404   401  1    F403
;    5    6   F404 U62  F404 3212 3212                        768.74  /
    5    6   F404 F430 F404 3212 3212                        768.74  /
                           4013 4013                         776.00
    3  U62   F431
       3  U62   F427
    3  U62    F429
    2    2   F126 F428
    2    2   F406 F426
       2    2   F404 F430
       2    4   U62  F429 F427 F431
   15 F428   F429
   15 F426   F427
   15 F430   F431
;MALLARD POND UPDATES APRIL 2010
;MALLARD POND ORIFICE AND MANHOLE OVERFLOW
;    4   2   F82  -1   F82  333                               774.27
    7  F82   303  1    F81
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    6    1   F81  1    0                                    10.00
    5    6   F82  F401 F82  4008 4008                       773.74  /
                           4009 4009                       777.78
    2    2   F82  F401
;2ND CONTROL STRUCTURE IS 42-INCH PIPE AND BERM OVERFLOW
   15 F401   F402
    5    6   F402 F403 F402 3210 3210                       768.29  /
                           4011 4011                       779.19
    2    2   F402 F403
;END TRIBUTARY 3 HEADWATER UPDATES
;*********************************
;END OF TRIBUTARY 3
;*********************************
    7 F116   354  1    F115
    6    1   F115 1    0                                    0.00
    4    2   F116 -1   F116 355                             765.00
    2    2   F116 F15
    7  F16   307  1    F15
    4    2   F16  -1   F16  356                             757.90
    2    2   F16  F117
    1   29
    4    2   F18  -1   F18  305                             771.00
    7  F18   306  1    F17
    6    1   F17  1    0                                    0.00
    2    2   U29  F151
    2    4   F150 F18  F153 F155
    5    6   F153 F150 F153 9007 9007                       757.5
    5    6   F155 F150 F155 9003 9003                       758.0
    7 F151   9001 1    F150
   15 F154   F155
    3 F154   F152
    7 F153   9002 1    F152
;THIS IS THE RR SPUR CULVERT
    5    6   D28  U27  D28  529  529                        753.40
    2    2   D28  U27
    2    3   U28  D29  F118
    3  U29   F151
;    5    6   D60  U59  D60  523  523                        756.53  /
;                         524  524                          760.97
;    2    2   U59  D60
    1   28
    7 F118   357  1    F117
    3  U28   F118
    3 F118   D29
    7 F120   363  1    F119
    6    1   F119 1    0                                    0.00
    4    2   F120 -1   F120 362                             766.75
    5    6   D31  F152 D31  930  931                        757.41
    7 F130   373  1    F129
    6    1   F129 1    0                                    0.00
    4    2   F130 -1   F130 372                             800.00
    2    4   F152 D31  F130 F154
    1   31
    7  F20   326  1    F19
    5    6   F20  U31  F20  531  531                        764.00  /
                       532  532                             772.50
    2    3   F20  U31  F120
    7  F24   325  1    F23
    5    6   F24  F19  F24  572  572                        771.26
    2    2   F19  F24
    1   32
    5    6   D32  F23  D32  599  599                        771.84
    7  F22   328  1    F21
    6    1   F21  1    0                                    0.00
    4    2   F22  -1   F22  327                             773.00
    2    3   F22  U32  F28
    3  F28   U32
    6    1   F27  1    0                                    2.0
   15 F27 F28
    1  34
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    5   6 D34 F23 D34 571 571                                772.73
    7 F26 324   1 F25
    5   6 F26 U34 F26 569 569                                774.15 /
                      570 570                                775.30 /
                      561 561                                776.70
    6   1 F25   1   0                                        0.00
    2   3 F23 D34 D32
    3 U34 D35
    2   3 U34 D35 F26
    1  35
    3 U35 D36
    2    2   U35  D36
    1   36
    3  U36   D37
    2    2   U36  D37
    1   37
    5    1   D38  U37  D38  1    294                         1.0    0.3 778.76
    2    2   U37  D38
    1   38
    3  U38   F30
    2    3   U38  F30  F32
    6    1   F29  1    0                                    8.00
   15  F29   F30
    4    2   F32  -1   F32  349                              1000.00
    7  F32   353  1    F31
    6    1   F31  1    0                                    0.0
   -1
BNODE=
SPECIAL OUTPUT LOCATIONS
UNIT=   sept2008.hyd
 _BRA NODE IDENTIFICATION
;   0  F38  F38
;   0  F55  F55
;   0  F56  F56
    0  D71  D71
    0  F26  F26
    0  F23  F23
    0  F24  F24
    0F1030  F1030
    0F1031  F1031
    0F1018  F1018
    0F1008  F1008
    0D1025  D1025
    0D1031  D1031
    0F1005  F1005
    0F1009  F1009
    0  F81  F81
    0  F82  F82
    0 F401 F401
    0 F402 F402
    0 F403 F403
    0 F404 F404
    0 F430 F430
    0 F405 F405
    0 F406 F406
    0 F426 F426
    0 F126 F126
    0 F428 F428
    0  U62  U62
    0  D62  D62
    0  U61  U61
    0  F10  F10
    0 F425 F425
    0 F423 F423
    0 F422 F422
    0 F439 F439
    0 F440 F440
    0 F421 F421
    0 F420 F420
    0 F437 F437
```

```
    0 F438 F438
    0  U23  U23
    0  D24  D24
    0  U24  U24
    0  F12  F12
    0  F11  F11
    0 F200 F200
    0  F92  F92
    0 F407  F407
    0 F408  F408
    0  D58  D58
    0  U57  U57
    0  D57  D57
    0  D27  D27
   -1
INPUT FILE SPECIFICATION
 UNIT NAME
   -1
OUTPUT FILE SPECIFICATION
 ACTN   BRA NODE ITEM TYPE NAME------------------------------------------------------------
          0   D3 FLOW  PNT KLNTSF08.PTSF
   -1
FUNCTION TABLES
;TABLE#=  500
;TYPE=   -2
;REFL=0.0
; HEADRATIO FLOWRATIO
;       0.0       1.0
;      0.40       1.0
;      1.00       0.0
;     -1.00
; FOLLOWING TABLES ADDED BY CEMCON,LTD. 10/01, 3/02, 7/02
FILE=  \KLNCRK10\CEMCON\REVIEW-3\CEMCON\KUHNNEW3.TAB
FILE=  \KLNCRK10\CEMCON\REVIEW-3\CEMCON\RT64NEW2.TAB
FILE=  \KLNCRK10\CEMCON\REVIEW-3\CEMCON\REVSEC3.TAB
; BASELINE COND. TABLES FOLLOW
FILE=  \KLNCRK10\TAB9\CPWETLND.TAB
FILE=  \KLNCRK10\TAB8\MSSEC.TAB
FILE=  \KLNCRK10\TAB7\T2SEC.TAB
FILE=  \KLNCRK10\TAB\T3SEC.TAB
;TABLE#=  -15d:\FONT_R2\TAB8\MS3b92.TAB
FILE=  \KLNCRK10\TAB8\F92BASE.TAB
FILE=  \KLNCRK10\TAB8\BOXORIF3.TAB
FILE=  \KLNCRK10\TAB7\T2.TAB
FILE=  \KLNCRK10\TAB\T3.TAB
FILE=  \KLNCRK10\TAB6\ONED1.TAB
;FILE=  \KLNCRK10\TAB6\zeroflow.tab
; TABLE#=  -15C:\KLEIN\TAB6\STOR.TAB
FILE=  \KLNCRK10\TAB6\STOR2_July2010.TAB
FILE=  \KLNCRK10\TAB\3940.TAB
FILE=  \KLNCRK10\TAB12\B48INCH2.TAB
FILE=  \KLNCRK10\TAB12\B117x79.TAB
FILE=  \KLNCRK10\TAB12\EATONSTO.TAB
FILE=  \KLNCRK10\TAB12\EATONDIS.TAB
FILE=  \KLNCRK10\TAB13\RDOVERFL.TAB
FILE=  \KLNCRK10\TAB13\P36BYPAS.TAB
FILE=  \KLNCRK10\TAB13\P36IN2.TAB
;FILE=  \KLNCRK10\TAB13\SPILLWY2.TAB
FILE=  \KLNCRK10\TAB13\PDBOX3x7.TAB
FILE=  \KLNCRK10\TAB13\GK_EMANKQ2010.TAB
FILE=  \KLNCRK10\TAB13\P18INCH3.TAB
FILE=  \KLNCRK10\TAB16\PT2SEC2.TAB
;
;   AS-BUILT FOUNTAIN VIEW ROAD TABLE FILES
;
;
FILE=  \KLNCRK10\FountainView\fequtl\cbbel\ms3b92.tab
FILE=  \KLNCRK10\FountainView\fequtl\cbbel\baselr\xsec.TAB
FILE=  \KLNCRK10\FountainView\fequtl\cbbel\asbuilt\sp1box_b.TAB
FILE=  \KLNCRK10\FountainView\fequtl\cbbel\asbuilt\embk_as.TAB
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;
FILE=  \KLNCRK10\FountainView\tables\9207p87\baseline\wSchool.sto
FILE=  \KLNCRK10\FountainView\tables\9207p87\baseline\eSchool.sto
FILE=  \KLNCRK10\FountainView\tables\9207p87\baseline\BurkN.sto
FILE=  \KLNCRK10\FountainView\tables\9207p87\baseline\arSouth.sto
;TABLE#=  -15\FONT_R2\tables\9207p87\baseline\wland_ex.sto
;TABLE#=  -15\FountainView\FONT_R2\tables\9207p87\baseline\arn_ex.sto
FILE=  \KLNCRK10\FountainView\tables\9207p87\baseline\TowerInd.sto
FILE=  \KLNCRK10\FountainView\tables\9207p87\baseline\BurkS.sto
;TABLE#=  -15\FONT_R2\tables\9207p87\baseline\ogap_ex.sto
;
FILE=  \KLNCRK10\FountainView\tables\9207p87\baseline\eSch_ol.tab
FILE=  \KLNCRK10\FountainView\tables\9207p87\baseline\wSch_ol.tab
FILE=  \KLNCRK10\FountainView\tables\9207p87\baseline\BurkN_ol.tab
FILE=  \KLNCRK10\FountainView\tables\9207p87\baseline\ars_ol.tab
;TABLE#=  -15\FONT_R2\fequtl\9207p87\baseline\wlEx_ol.tab
FILE=  \KLNCRK10\FountainView\tables\9207p87\baseline\tInd_ol.tab
;TABLE#=  -15\FONT_R2\fequtl\9207p87\baseline\arnEx_ol.tab
FILE=  \KLNCRK10\FountainView\tables\9207p87\baseline\BurkS_ol.tab
;
FILE=  \KLNCRK10\FountainView\tables\9207p87\proposed\arN_pr.sto
;TABLE#=  -15\FountainView\FONT_R2\tables\9207p87\proposed\wland_pr.sto
;TABLE#=  -15\FountainView\FONT_R2\tables\9207p87\proposed\ogap_pr.sto
FILE=  \KLNCRK10\FountainView\tables\9207p87\proposed\PondA.sto
FILE=  \KLNCRK10\FountainView\tables\9207p87\proposed\PondB.sto
;TABLE#=  -15\FountainView\FONT_R2\tables\9207p87\proposed\PondC.sto
;TABLE#=  -15\FountainView\FONT_R2\tables\9207p87\proposed\CompS.sto
FILE=  \KLNCRK10\FountainView\tables\9207p87\proposed\6ft_mh.sto
;
;TABLE#=  -15\FONT_R2\fequtl\9207p87\proposed\arnPr_ol.TAB
;TABLE#=  -15\FONT_R2\fequtl\9207p87\proposed\wlPrE_ol.TAB
;TABLE#=  -15\FONT_R2\fequtl\9207p87\proposed\wlMH_ol.TAB
;TABLE#=  -15\FONT_R2\fequtl\9207p87\proposed\pondA_ol.TAB
;TABLE#=  -15\FONT_R2\fequtl\9207p87\proposed\pondB_ol.TAB
;TABLE#=  -15\FONT_R2\fequtl\9207p87\proposed\pondC_ol.TAB
FILE=  \KLNCRK10\FountainView\tables\9207p87\proposed\comSA_ol.TAB
;
FILE=  \KLNCRK10\FountainView\tables\9207p87\CGLPR2\OGA.STO
FILE=  \KLNCRK10\FountainView\tables\9207p87\CGLPR2\BASC.STO
FILE=  \KLNCRK10\FountainView\tables\9207p87\CGLPR2\SECOMP.STO
FILE=  \KLNCRK10\FountainView\tables\9207p87\CGLPR2\CORNER.STO
FILE=  \KLNCRK10\FountainView\tables\9207p87\CGLPR2\WLAND.STO
FILE=  \KLNCRK10\FountainView\tables\9207p87\CGLPR2\CompS.STO
;
FILE=  \KLNCRK10\FountainView\tables\9207p87\CGLPR2\SECOMP.TAB
FILE=  \KLNCRK10\FountainView\tables\9207p87\CGLPR2\CORNER.TAB
FILE=  \KLNCRK10\FountainView\tables\9207p87\CGLPR2\WLAND.TAB
FILE=  \KLNCRK10\FountainView\tables\9207p87\CGLPR2\arnPr_ol.TAB
FILE=  \KLNCRK10\FountainView\tables\9207p87\CGLPR2\wlMH_ol.TAB
FILE=  \KLNCRK10\FountainView\tables\9207p87\CGLPR2\pondA_ol.TAB
FILE=  \KLNCRK10\FountainView\tables\9207p87\CGLPR2\pondB_ol.TAB
FILE=  \KLNCRK10\FountainView\tables\9207p87\CGLPR2\pondC_ol.TAB
;
;TRIBUTARY 3 HEADWATERS TABLES
;
;FILE=  \KLNCRK10\TAB12\REV\EMBANK_JULY2010.TAB
FILE=  \KLNCRK10\TAB12\EMBANK_JULY2010.TAB
FILE=  \KLNCRK10\TAB12\ORIFICE_JULY2010.TAB
FILE=  \KLNCRK10\TAB12\CULVERT_JULY2010.TAB
;
;  TABLES FOR LENZ PARK
;
; BELOW FILE, PB180XS.TAB, IS THE SAME AS \KLNCRK10\TAB8\MSSEC.TAB
;FILE=  \KLNCRK10\LENZPK\bridges\feq\PB180XS.TAB
FILE=  \KLNCRK10\LENZPK\bridges\fequtl\B2.TAB
FILE=  \KLNCRK10\LENZPK\bridges\fequtl\B1.TAB
FILE=  \KLNCRK10\LENZPK\bridges\fequtl\BR1DCHN.TAB
FILE=  \KLNCRK10\LENZPK\bridges\fequtl\100B2ACH.TAB
FILE=  \KLNCRK10\LENZPK\LPEX_XS.TAB
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;
FILE=  \KLNCRK10\LENZPK\SWPOND\FEQUTL\SWWEIR.TAB
FILE=  \KLNCRK10\LENZPK\LPDPIPE4.TAB
FILE=  \KLNCRK10\LENZPK\SWPOND\FEQUTL\SWPNDREV.TAB
;
; 250 Kehoe Improvements
;
FILE=  \KLNCRK10\250Kehoe\9207p109\proposed\xs_pr.tab
FILE=  \KLNCRK10\250Kehoe\9207p109\proposed\brid1pr.tab
FILE=  \KLNCRK10\250Kehoe\9207p109\proposed\brid2pr.tab
;
;TRIBUTARY 1 TABLES
;
FILE=  \KLNCRK10\Trib1\KLEIN.TB1
FILE=  \KLNCRK10\Trib1\KLEIN.TB2
FILE=  \KLNCRK10\Trib1\STGSTOR.WP
FILE=  \KLNCRK10\Trib1\CULVFIN.TAB
FILE=  \KLNCRK10\Trib1\SEWER.TAB
FILE=  \KLNCRK10\Trib1\MISC1D.TAB
FILE=  \KLNCRK10\Trib1\EXPCON.TAB
FILE=  \KLNCRK10\Trib1\CHANRAT.TAB
FILE=  \KLNCRK10\Trib1\EMBANK.TAB
FILE=  \KLNCRK10\Trib1\TRIB1.tab
FILE=  \KLNCRK10\Trib1\XSECS.TAB
FILE=  \KLNCRK10\Trib1\SEWERGAG.TAB
FILE=  \KLNCRK10\Trib1\STG-GAG.TAB
FILE=  \KLNCRK10\Trib1\ORIFICE.TAB
FILE=  \KLNCRK10\Trib1\CLOWXSN.TAB
FILE=  \KLNCRK10\Trib1\CLOW.TAB
FILE=  \KLNCRK10\Trib1\CULVERT.TAB
TABID=    -1
;
FREE NODE INITIAL CONDITIONS
 NODE_     NAME      DEPTH DISCHARGE ELEVATION
   F1  OFLAKEGE     742.00      0.00       .00
   F2  OFLAKEGE     742.00      0.00       .00
   F3  OFGARYKE     754.38      0.00       .00
   F4  OFGARYKE     754.38      0.00       .00
   F7  LAKEGEOR     742.00      0.00       .00
   F8  LAKEGEOR     742.00      0.00       .00
   F9  LRBASN71     752.00      0.00       .00
  F10  LRBASN71     752.00      0.00       .00
  F11  OLDGPOND     747.25     20.00       .00
; F12  OLDGPOND     748.92     20.00       .00
  F12  OLDGPOND     747.25     20.00       .00
;  F13  OFGARYMS       2.02      0.00    746.90
;  F14  OFGARYMS       2.02      0.00    746.90
  F15  NHOFCC&P     757.90      0.00       .00
  F16  NHOFCC&P     757.90      0.00       .00
  F17  MSADEVEL     771.00      0.00       .00
  F18  MSADEVEL     771.00      0.00       .00
  F19  MILLWETL     764.63      3.00       .00
  F20  MILLWETL     764.63      3.00       .00
  F21  SEIMSPND     773.00      0.00       .00
  F22  SEIMSPND     773.00      0.00       .00
; F23  MILLPOND     772.86      3.00       .00
  F23  MILLPOND     772.86      4.50       .00
  F24  MILLPOND     772.86      3.00       .00
  F25  WWSUBDIV     774.15      0.00       .00
  F26  WWSUBDIV     774.15      0.00       .00
  F27  FIXQNODE     772.90      2.00       .00
  F28  FIXQNODE     772.90      2.00       .00
;  F29  FIXQNODE     781.84      2.50       .00
  F29  FIXQNODE     781.84      8.00       .00
  F30  FIXQNODE     781.84      2.50       .00
  F31  LRHESTER    1000.00      0.00       .00
  F32  LRHESTER    1000.00      0.00       .00
  F33  CAROLPT2     760.00      0.00       .00
  F34  CAROLPT2     760.00      0.00       .00
  F35  GREENWOF     742.70      0.00       .00
```

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  F36  GREENWOF     742.70      0.00       .00
  F37  U/SCNTFM    1000.00      0.00       .00
  F38  U/SCNTFM    1000.00      0.00       .00
  F39  DETWOFKI     770.50      2.00       .00
  F40  DETWOFKI     770.50      0.00       .00
  F41  MH212DM1     749.86      9.00       .00
  F42  MH212DM1     749.86      9.00       .00
  F43  MH212DM2     749.86      0.00       .00
  F44  MH212DM2     749.86      0.00       .00
  F45  LRUSGRWY    1000.00      0.00       .00
  F46  LRUSGRWY    1000.00      0.00       .00
  F47  LRUSGYKE    1000.05      0.50       .00
  F48  LRUSGYKE    1000.05      0.50       .00
; F51  GARYKEHO     749.70      0.00       .00
  F51  GARYKEHO     747.00      0.00       .00
  F52  GARYKEHO     747.00      0.00       .00
  F53  EX36INCH     753.03      9.00       .00
  F54  EX36INCH     753.03      9.00       .00
  F55  STPAULWT     761.60      0.00       .00
  F56  STPAULWT     761.60      0.00       .00
  F57  STPAULET     778.00      0.00       .00
  F58  STPAULET     778.00      0.00       .00
  F59  FIXQNODE       0.68      8.00    779.96
  F60  FIXQNODE       0.68      8.00    779.96
  F61  GHBNPARK     785.00      0.00       .00
  F62  GHBNPARK     785.00      0.00       .00
  F63  GHGOLFCR     790.50      1.00       .00
  F64  GHGOLFCR     790.50      0.00       .00
  F65  WTLNDIFL     753.18      0.00       .00
  F66  WTLNDIFL     753.18      0.00       .00
  F69  STRFDSQW     757.27      1.00       .00
  F70  STRFDSQW     757.27      0.00       .00
  F71  STRFDSQM     760.16      1.00       .00
  F72  STRFDSQM     760.16      1.00       .00
  F73  STRFDSQE     768.52      1.00       .00
  F74  STRFDSQE     768.52      1.00       .00
  F75  LIFEFITN     760.00      0.00       .00
  F76  LIFEFITN     760.00      0.00       .00
 F407  LFOVERFL     765.22      0.00       .00
 F408  LFOVERFL     765.22      0.00       .00
  F77  COVINGTN     763.00      1.00       .00
  F78  COVINGTN     763.00      0.00       .00
;  F79  FIXQNODE       0.83     10.00    765.11
;  F80  FIXQNODE       0.83     10.00    765.11
  F81  MALRDLKE     774.26      0.00       .00
  F82  MALRDLKE     774.26      0.00       .00
 F401  MLLDOVFL     769.50      10.0       .00
 F402  MLLDOVFL     769.50      10.0       .00
  F83  ARMSTPRK     741.00      0.00       .00
  F84  ARMSTPRK     741.00      0.00       .00
  F85  LKGEOARM     742.00      0.00       .00
  F86  LKGEOARM     742.00      0.00       .00
  F87  GREENDET     742.70      0.00       .00
  F88  GREENDET     742.70      0.00       .00
  F89  KEHODTCH     753.18      8.00       .00
  F90  KEHODTCH     753.18      8.00       .00
  F91  HOMEBASE     748.00     20.00       .00
  F92  HOMEBASE     748.00     20.00       .00
  F93  HEATHROW     745.00      0.00       .00
  F94  HEATHROW     745.00      0.00       .00
  F95  WWTPRESV     739.00      0.00       .00
  F96  WWTPRESV     739.00      0.00       .00
  F97  WWTPREOF     740.29      0.00       .00
  F98  WWTPREOF     740.29      0.00       .00
 F100  FIXNODT1       0.63      4.00    720.92
 F101  FIXNODT1       0.63      4.00    720.92
 F102  TIMBRRDG     725.49      1.00       .00
 F103  TIMBRRDG     725.49      0.00       .00
; F104  CONNAT39       1.00      1.00    718.33
; F105  CONNAT39       1.00      1.00    718.33
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; F106  CONNATU6       1.72      1.00    715.08
; F107  CONNATU6       1.72      1.00    715.08
 F108  CONNATU6       1.68      1.00    728.20
 F109  CONNATU6       1.68      0.00    728.20
 F115  BA1NOFRR     765.00      0.00       .00
 F116  BA1NOFRR     765.00      0.00       .00
 F117  BA3NOFRR     757.59      0.00       .00
 F118  BA3NOFRR     757.59      6.0       .00
 F119  CAROLPT3     766.75      0.00       .00
 F120  CAROLPT3     766.75      0.00       .00
 F121  LOWESB60     768.84      0.00       .00
 F122  LOWESB60     768.84      0.00       .00
 F432  DUMMYBRA     768.84      0.00       .00
 F433  DUMMYBRA     768.84      0.00       .00
 F123  COSTCO61     769.99      0.00       .00
 F124  COSTCO61     769.99      0.00       .00
 F435  DUMMYBRA     769.99      0.00       .00
 F436  DUMMYBRA     769.99      0.00       .00
 F125  WOFMALLD     766.50      10.0       .00
 F126  WOFMALLD     766.50      10.0       .00
 F428  DUMMYBRA     766.00      10.0       .00
 F429  DUMMYBRA     766.00      0.00       .00
; F127  FUTDET24     800.00      0.00       .00
; F128  FUTDET24     800.00      0.00       .00
 F129  FUTDET75     800.00      0.00       .00
 F130  FUTDET75     800.00      0.00       .00
; F131  FUTDET76     800.00      0.00       .00
; F132  FUTDET76     800.00      0.00       .00
 F135  MH212DM3     749.86      9.00       .00
 F136  MH212DM3     749.86      10.0       .00
 F137  MH210DMY     752.17      9.00       .00
 F138  MH210DMY     752.17      9.00       .00
 F145  36INBYPS     753.18      9.00       .00
 F146  36INBYPS     753.18      9.00       .00
 F147  BYPSDTCH     753.18      1.00       .00
 F148  BYPSDTCH     753.18      1.00       .00
 F150  CPWETLND     757.00      3.00       .00
;F151  CPWETLND     757.00      3.00       .00
;F151  CPWETLND     757.00      4.00       .00
 F151  CPWETLND     757.04      4.00       .00
 F152  CPWETLND     758.00      3.00       .00
 F153  CPWETLND     758.00      3.00       .00
 F154  CPWETOVF     758.00      0.00       .00
 F155  CPWETOVF     758.00      0.00       .00
 F157  EATONFLW    1000.50      0.50       .00
 F158  EATONFLW    1000.50      0.50       .00
 F159  PDROPBOX     755.75      1.00       .00
 F160  PDROPBOX     755.75      1.00       .00
;
;FOUNTAIN VIEW
;
 F161  WETLAND      750.41      0.00       .00
 F162  WETLAND      750.41      0.00       .00
 F163  WETLOL       750.41      0.00       .00
 F164  WETLOL       750.41      0.00       .00
 F165  WETLOL       748.40      0.00       .00
 F166  WETLOL       748.40      0.00       .00
 F167  TOWINDUS     761.00      0.00       .00
 F168  TOWINDUS     761.00      0.00       .00
 F169  AUTRIDN      755.50      0.00       .00
 F170  AUTRIDN      755.50      0.00       .00
 F171  AUTRIDS      755.80      0.00       .00
 F172  AUTRIDS      755.80      0.00       .00
 F173  BURKN        776.26      0.00       .00
 F174  BURKN        776.26      0.00       .00
 F175  ESCHOOL      780.95      0.00       .00
 F176  ESCHOOL      780.95      0.00       .00
 F177  WSCHOOL      783.27      0.00       .00
 F178  WSCHOOL      783.27      0.00       .00
 F179  BURKS        767.33      0.00       .00
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 F180  BURKS        767.33      0.00       .00
 F181  BURKSOL      741.92      0.00       .00
 F182  BURKSOL      741.92      0.00       .00
 F183  PONDA        751.40      0.00       .00
 F184  PONDA        751.40      0.00       .00
 F185  PONDB        754.00      0.00       .00
 F186  PONDB        754.00      0.00       .00
 F189  COMPSTO      747.50      0.00       .00
 F190  COMPSTO      747.50      0.00       .00
 F191  PONDAOL      748.92      0.00       .00
 F192  PONDAOL      748.92      0.00       .00
 F193  PONDBOL      748.92      0.00       .00
 F194  PONDBOL      748.92      0.00       .00
 F195  CORNROL      748.92      0.00       .00
 F196  CORNROL      748.92      0.00       .00
 F197  COMPSOL      748.92      0.00       .00
 F198  COMPSOL      748.92      0.00       .00
 F199  CONNECT      748.92      0.00       .00
 F200  CONNECT      748.92      0.00       .00
 F201  BURKSOL      755.80      0.00       .00
 F202  BURKSOL      755.80      0.00       .00
 F203  BURKSOL      749.20      0.00       .00
 F204  BURKSOL      749.20      0.00       .00
 F205  PONDC        751.00      0.00       .00
; F206  PONDC        751.00      0.00       .00
 F206  PONDC        750.41      0.00       .00
 F207  COMPSE       748.80      0.00       .00
 F208  COMPSE       748.80      0.00       .00
 F209  CORNER       748.92      0.00       .00
 F210  CORNER       748.92      0.00       .00
 F211  CONNECT      752.70      0.00       .00
 F212  CONNECT      752.70      0.00       .00
 F213  CONNECT      749.20      0.00       .00
 F214  CONNECT      749.20      0.00       .00
 F215  CONNECT      749.20      0.00       .00
 F216  CONNECT      749.20      0.00       .00
 F403  DSMALLD      769.20      10.0       .00
 F404  DSMALLD      769.20      10.0       .00
 F430  DUMMYBRA     767.00      10.0       .00
 F431  DUMMYBRA     767.00      10.0       .00
 F405  EOFMLLD      765.00      0.00       .00
 F406  EOFMLLD      765.00      0.00       .00
 F426  DUMMYBRA     765.00      0.00       .00
 F427  DUMMYBRA     765.00      0.00       .00
;
;LENZ PARK SW POND
;
 F409  LPSWPOND     737.55      10.0       .00
 F410  LPSWPOND     737.55      0.00       .00
 F411  LPSWWEIR    736.904      0.00       .00
 F412  LPSWWEIR    736.904      0.00       .00
 F413  LPDPIPE     736.904      0.00       .00
 F414  LPDPIPE     736.904      0.00       .00
 F415  LPDPIPE     736.904      0.00       .00
 F416  LPDPIPE     736.904      0.00       .00
;
; FOUNTAIN VIEW PER CBBEL PLANS
;
 F425  JNCTBX      749.85       0.00       .00
 F424  JNCTBX      749.85       0.00       .00
 F423  48INCH      746.25       0.00       .00
 F422  48-INCH     746.25       0.00       .00
 F421  48-INCH2    749.25       0.00       .00
 F420  48-INCH2    749.25       0.00       .00
 F437  DUMMYBRA    746.75       0.00       .00
 F438  DUMMYBRA    746.75       0.00       .00
 F439  DUMMYBRA    746.25       0.00       .00
 F440  DUMMYBRA    746.25       0.00       .00
;
;TRIB 1
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 F1001 T1WETLR     770.16      1.00       .00
 F1002 T1WETLF     770.16      1.00       .00
 F1003 T1PARKR     769.48      1.00       .00
 F1004 T1PARKF     769.48      1.00       .00
 F1005 T1GAGPR     764.00      3.00       .00
 F1006 T1GAGPF     764.00      3.00       .00
 F1007 T1INFLU     764.00      0.00       .00
 F1008 T1INFLD     764.00      0.00       .00
 F1009 T1PUMPU     764.00      3.00       .00
 F1010 T1PUMPD     764.00      2.00       .00
 F1011 T1GARYR     766.40      0.00       .00
 F1012 T1GARYF     766.40      0.00       .00
 F1013 T1OVERU     765.50      0.00       .00
 F1014 T1OVERD     765.50      0.00       .00
 F1015 T1WTOVU     769.48      0.00       .00
 F1016 T1WTOVD     769.48      0.00       .00
 F1017 T1NPOVU     764.00      0.00       .00
 F1018 T1NPOVD     764.00      0.00       .00
 F1030 T1TILED     700.00      1.50       .00
 F1031 T1TILEU     700.00      2.00       .00
 F1032 T1BSFLW     758.00      1.50       .00
 F1033 T1BSFLW     758.00      4.00       .00
 F1034 T1OVERL       1.36      0.00    735.87
 F1035 T1OVERL       1.36      0.00    735.87
 F1036 T1CNTYF       1.97      0.00    731.81
 F1037 T1CNTYF       1.97      0.00    731.81
 F1038 TIMB_IN     719.08      6.00       .00
 F1039 TIMB_RES    719.08      4.00       .00
;F1040 PP-LINR    1000.00      0.00       .00
;F1041 PP-LINR    1000.00      0.00       .00
;F1042 PP-TIMIN    725.49      0.00       .00
;F1043 PP-TIMRV    725.49      0.00       .00
;F1044 PP-BSFLW      0.63      4.00    720.92
;F1045 PP-BSFLW      0.63      4.00    720.92
 F1046 PPTIMBS     719.08      0.00       .00
 F1047 PPTIMBS     719.08      0.00       .00
 F1130 T1INPDM     764.00      0.00      0.00
 F1131 T1RESVM     764.00      0.00      0.00
 F1132 T1INPNO     758.10      3.00      0.00
 F1133 T1RSVNO     758.10      3.00      0.00
 F1134 T1UINLT     758.10      3.00      0.00
 F1135 T1DINLT     758.10      3.00      0.00
 F1136 T1INPDA     757.00      3.00      0.00
 F1137 T1RESVA     757.00      3.00      0.00
 F1138 T1INPDB     752.50      3.00      0.00
 F1139 T1RESVB     752.50      3.00      0.00
 F1140 T1INPDC     748.00      3.00      0.00
 F1141 T1RESVC     748.00      3.00      0.00
 F1142 T1RESCU     748.00      3.00      0.00
 F1143 T1RESCD     748.00      3.00      0.00
 F1144 T1BASFU     748.00      3.00      0.00
 F1145 T1BASFD     748.00      3.00      0.00
 F1200 TAINPDD     745.00      0.00      0.00
 F1201 TARESVD     745.00      0.00      0.00
 F1202 TAINPDE     745.00      1.00      0.00
 F1203 TARESVE     745.00      1.00      0.00
 F1204 TAINPDF     741.50      1.00      0.00
 F1205 TARESVF     741.50      1.00      0.00
 F1206 TAINPDG     734.50      1.00      0.00
 F1207 TARESVG     734.50      0.00      0.00
 F1208 TAINPDH     752.00      1.00      0.00
 F1209 TARESVH     752.00      1.00      0.00
 F1210 TAINPDI     752.00      1.00      0.00
 F1211 TARESVI     752.00      1.00      0.00
 F1212 TAINPDK     754.50      2.00      0.00
 F1213 TARESVK     754.50      1.00      0.00
 F1214 T1INPDL     767.00      0.00      0.00
 F1215 T1RESVL     767.00      0.00      0.00
 F1218 TAINPDJ     755.00      0.00      0.00
 F1219 TARESVJ     755.00      0.00      0.00
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DISCHARGE=  20.
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BRANCH NUMBER=  -39
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DISCHARGE=   4.
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BRANCH NUMBER=  -82
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BRANCH NUMBER=  -83
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BRANCH NUMBER= -123
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BRANCH NUMBER= -255
DISCHARGE=   8.
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;BRANCH NUMBER=  -1012
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BRANCH NUMBER=-1021
DISCHARGE=   1.
BRANCH NUMBER=-1022
DISCHARGE=   1.
BRANCH NUMBER=-1023
DISCHARGE=   1.
BRANCH NUMBER=-1024
DISCHARGE=   1.
BRANCH NUMBER=-1025
DISCHARGE=   1.
BRANCH NUMBER=-1026
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BRANCH NUMBER=-1027
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BRANCH NUMBER=-1028
DISCHARGE=   2.
BRANCH NUMBER=-1029
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BRANCH NUMBER=-1030
DISCHARGE=   2.
BRANCH NUMBER=-1031
DISCHARGE=   2.
BRANCH NUMBER=-1032
DISCHARGE=   2.
BRANCH NUMBER=-1033
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BRANCH NUMBER=-1034
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DISCHARGE=   6.
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DISCHARGE=   6.
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DISCHARGE=   6.
BRANCH NUMBER=-1038
DISCHARGE=   6.
BRANCH NUMBER=-1039
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  BRA CODE ELEVATION _EXN#
    1    3    712.45
    2                  U1
    3                  D2
    4                  U3
    5                  U4
    6                  U5
   44                  U6
    7                 U44
;    8                  U7
;    9    1    740.0
    9    1    739.53
;   10         0.4     U8
   80          0.09    U7
   81          0.02   U80
   82          0.29   U81
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   83          0.01   U82
   12                 U83
   13          0.24   U12
   14                  U9
   15          0.06   U14
   16                 U15
   17                 U16
   18                 U17
   19    1    742.80
   20                 U19
   21          1.78   U20
   22                 U21
   23    1    746.13
;   23    6    746.3  U123
  123    1    746.10
   24           0.25  U23
;   25    5    749.08  F12
   27    1    753.23
   28           0.54  U27
   29                 U28
   31    2    758.28
   32    1    773.00
   34    1    772.92
   35                 U34
   36                 U35
   37                 U36
   38    2    779.21
   39                  D4
   40                 U39
   51                 D16
   52           0.71  U51
   53           0.07  U52
   54           0.79  U53
;   55                 U68
;   68                 F89
   68    2    754.18
   55                 U68
  155                 U55
  255                U155
;
    0  F56           U255
    0  F55            F56
    0  F58           U255
    0  F57            F58
;
   56    5    762.33 U255
;   56    5    762.33  U55
   57    1    750.96
   58    1    753.46
   59    1    754.94
   60    1    757.63
   61    1    763.00
  601    1    762.95
   62           0.00  U61
;  62           0.06  U61
;   71    5    755.75 F159
   71    2    755.75
;
    0 F408            U57
    0 F407           F408
    0  F76           F407
    0  F75            F76
;
    0  F78            U57
    0  F77            F78
;
    0 F407            F76
    0 F408           F407
;
    0 F427            U62
```

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    0 F426           F427
    0 F406           F426
    0 F405           F406
;
    0 F431            U62
    0 F430           F431
    0 F404           F430
    0 F403           F404
    0 F402           F403
    0 F401           F402
;dto
;    0  F82           F401
;    0  F81            F82
;
    0 F429            U62
    0 F428           F429
    0 F126           F428
    0 F125           F426
;
    0 F423            U23
    0 F422           F423
;    0  F10           F424
    0 F438            U24
    0 F437           F438
    0 F420           F437
    0 F421           F420
    0 F425           F420
    0 F424           F425
    0   F2             F8
    0   F3            D55
    0   F4             F3
    0 F136            U54
    0 F135           F136
    0  F42           F135
    0  F41            F42
    0  F44           F135
    0  F43            F44
    0 F138            F41
    0 F137           F138
;    0  F65           F145
;    0  F66            F65
;    0  F90           F145
;    0  F89            F90
;    0 F148           F145
;    0 F147           F148
;    0  F60            U56
;    0  F59            F60
    0  F12            U24
;    0  F11            F12
;    0  F92            F11
;    0  F13            F14
;    0 F154           F153
;    0 F155           F154
;    0  F80            U62
;    0  F79            F80
;    0  F28            U32
;    0  F27            F28
;    0  F30            U38
;    0  F29            F30
    0  F54           F137
    0  F53            F54
;    0  F85             F8
;    0  F86            F85
;    0  F97            F95
;    0  F98            F97
;    0  F35            F88
;    0  F36            F35
    0 F109            U6
    0 F108           F109
;    0 F107             D4
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;    0 F106           F107
;    0 F105            U39
;    0 F104           F105
    0 F101            U40
    0 F100           F101
;
    0 F103            U40
    0 F102           F103
;   0  F38            U40
;   0  F37            F38
;
    0 F118            U28
    0 F117           F118
; TRIB 1
; 1012    3    712.45
; 1011                U12
; 1010                U12
; 1009                U10
; 1008                 U9
; 1007    1    727.97
; 1006                 U7
; 1005                 U6
; 1004                 U5
; 1003    1    733.87
; 1002    1    735.06
; 1001                 U2
; 1120                 U7
 1121    1    754.50
 1039    1    721.97
 1038    1    733.78
 1037    1    735.07
 1036    1    737.23
 1035    1    742.41
 1034              U1035
 1033    1    759.10
 1032              U1033
; 1041                 D9
; 1040                U41
 1031    6   767.40 F1006
 1030              U1031
 1029    6   769.50 U1030
 1028    6   769.50 U1029
 1027    6   770.00 U1028
 1026    6   770.50 U1027
 1025    2   766.00
 1024    6   768.50 U1025
 1023    6   769.00 U1024
 1022    2   769.50
 1021    6   770.00 U1022
 1020    6   770.00 U1021
   0 F1134          F1133
   0 F1135          F1134
   -1
```

Appendix 4

Klein Creek, Carol Stream (CBBEL Project No. 09-0321)
Comparison of Peak Water Surface Elevations
at
68:6820 Upstream of Gary Kehoe
1. Branch# 68; Node ID: D68 ; Station: 0.6060

	(1) V10Base.pek	(2) prop6c3.pek	2-1
Nodes ==>	6820	6820	
1925/01/02	755.38	754.94	-0.44
1949/04/08	758.03	756.92	-1.10
1949/06/21	759.04	758.27	-0.77
1949/07/27	758.79	758.11	-0.68
1949/12/31	758.09	757.13	-0.96
1950/01/31	758.07	757.05	-1.02
1950/05/03	758.72	758.05	-0.66
1950/06/11	758.85	758.15	-0.70
1951/03/09	758.01	756.89	-1.13
1951/05/17	757.66	756.19	-1.47
1951/07/29	758.63	757.99	-0.63
1952/01/25	758.25	757.55	-0.69
1952/03/28	756.41	755.39	-1.03
1953/03/23	757.94	756.67	-1.27
1953/06/16	758.64	758.01	-0.63
1953/07/28	759.43	758.76	-0.67
1954/04/05	759.26	758.48	-0.78
1954/05/08	758.24	757.54	-0.69
1954/08/29	758.84	758.14	-0.70
1954/10/25	758.81	758.43	-0.39
1955/03/09	755.76	755.16	-0.60
1956/05/18	758.33	757.65	-0.68
1957/01/27	756.60	755.47	-1.13
1957/03/04	758.74	758.07	-0.67
1957/07/28	759.42	759.53	0.10*
1958/04/30	759.09	758.31	-0.77
1958/06/19	758.23	757.52	-0.71
1958/07/11	757.89	756.53	-1.36
1959/04/07	756.58	755.50	-1.08
1959/07/27	754.97	754.82	-0.16
1960/01/21	758.25	757.54	-0.71
1960/04/04	753.49	753.69	0.20*
1961/08/09	758.59	757.96	-0.63
1961/10/06	758.92	758.18	-0.74
1962/04/15	756.11	755.28	-0.82
1962/07/08	758.91	758.18	-0.72
1963/05/07	757.77	756.35	-1.42
1964/04/12	756.87	755.68	-1.19
1964/07/25	758.73	758.07	-0.66
1965/03/22	757.11	755.70	-1.41
1966/02/15	757.15	755.75	-1.40
1966/05/18	758.44	757.79	-0.65
1967/04/09	757.18	755.76	-1.42
1967/07/01	758.71	758.05	-0.66
1968/08/24	758.70	758.04	-0.65
1969/04/13	757.03	755.77	-1.26
1969/06/15	757.64	756.15	-1.48
1969/08/01	755.60	755.04	-0.55
1969/10/25	758.91	758.17	-0.74
1970/05/20	758.02	756.87	-1.15

1970/12/18	757.18	755.72	-1.46
1971/03/04	756.00	755.23	-0.77
1971/08/28	758.71	758.05	-0.65
1972/03/21	757.97	756.75	-1.22
1972/04/27	759.08	758.30	-0.78
1972/09/01	759.12	758.33	-0.79
1972/10/05	758.71	758.04	-0.67
1973/01/08	758.27	757.57	-0.70
1973/05/08	758.19	757.39	-0.80
1974/02/28	757.60	756.09	-1.51
1974/04/21	757.82	756.44	-1.38
1974/05/25	757.82	756.45	-1.37
1975/01/16	757.50	755.99	-1.51
1975/05/05	758.74	758.07	-0.67
1975/09/08	758.39	757.73	-0.66
1976/03/21	758.59	757.97	-0.63
1977/07/05	758.08	757.22	-0.86
1977/08/13	757.49	755.92	-1.57
1977/09/07	758.01	756.76	-1.25
1978/04/02	754.59	754.62	0.02
1978/05/21	756.84	755.66	-1.18
1978/07/09	757.72	756.27	-1.46
1978/09/25	758.98	758.24	-0.74
1979/04/18	758.40	757.75	-0.66
1979/09/05	758.17	757.35	-0.83
1980/01/21	754.45	754.53	0.07*
1980/08/26	758.86	758.15	-0.71
1980/09/26	757.82	756.44	-1.38
1981/05/03	758.38	757.72	-0.66
1981/06/05	759.04	758.26	-0.78
1981/06/21	757.47	755.90	-1.57
1981/08/23	758.15	757.25	-0.90
1982/03/28	757.92	756.61	-1.31
1982/07/31	758.65	758.01	-0.64
1982/08/14	758.83	758.13	-0.70
1982/12/12	759.21	758.41	-0.80
1983/01/04	758.83	758.14	-0.70
1983/04/22	758.04	756.96	-1.08
1983/06/04	758.30	757.62	-0.68
1983/07/09	758.11	757.13	-0.97
1983/12/05	758.42	757.76	-0.65
1984/02/25	757.37	755.79	-1.58
1984/04/03	757.99	756.82	-1.17
1985/03/19	758.38	757.70	-0.67
1985/12/11	758.14	757.24	-0.90
1986/07/19	757.29	755.89	-1.40
1986/10/10	758.65	758.00	-0.65
1987/09/06	759.66	759.68	0.02
1988/01/01	757.57	756.06	-1.50
1988/02/07	757.07	755.76	-1.32
1988/04/13	755.63	755.09	-0.54
1988/10/26	758.87	758.16	-0.72
1989/08/18	759.24	758.46	-0.78
1989/09/18	758.97	758.22	-0.74
1990/03/16	758.29	757.62	-0.68
1990/05/19	758.18	757.38	-0.80
1990/08/28	759.20	758.41	-0.79
1990/12/10	758.01	756.86	-1.14
1991/04/23	757.96	756.73	-1.23
1991/06/02	757.42	755.90	-1.52
1991/10/09	757.96	756.74	-1.22

1991/11/08	757.99	756.80	-1.19
1991/12/18	756.03	755.28	-0.75
1992/09/21	758.42	757.76	-0.65
1993/01/11	757.82	756.44	-1.38
1993/04/29	757.60	756.10	-1.50
1993/07/06	758.50	757.88	-0.62
1994/03/13	757.46	755.90	-1.56
1994/07/02	758.64	758.00	-0.64
1994/08/24	757.22	755.75	-1.47
1995/01/25	756.79	755.56	-1.23
1995/05/06	757.19	755.75	-1.44
1995/08/24	758.32	757.64	-0.68
1995/11/18	757.87	756.48	-1.39
1996/06/27	758.49	757.87	-0.62
1996/08/05	758.10	757.10	-1.00
1997/03/06	758.57	757.94	-0.63
1998/03/25	756.83	755.66	-1.16
1998/05/15	757.26	755.78	-1.48
1998/08/15	758.83	758.14	-0.70
1998/09/14	757.24	755.73	-1.51
1998/10/25	757.93	756.67	-1.26
1999/02/09	757.91	756.56	-1.35
1999/05/06	758.14	757.26	-0.88
2000/04/28	758.73	758.07	-0.66
2001/03/02	757.94	756.66	-1.27
2001/09/06	759.33	758.58	-0.74
2001/09/30	758.23	757.48	-0.74
2001/10/31	759.02	758.25	-0.77
2002/03/15	757.01	755.63	-1.37
2002/05/22	757.98	756.80	-1.18
2002/07/14	758.51	757.89	-0.62
2002/08/29	759.14	758.34	-0.80
2003/05/19	758.13	757.21	-0.92
2003/08/13	757.28	755.81	-1.47
2003/11/29	757.69	756.20	-1.49
2004/03/11	755.70	755.08	-0.62
2004/06/18	758.63	758.01	-0.61
2005/01/18	757.42	755.82	-1.60
2006/03/18	756.83	755.63	-1.20
2006/07/03	757.83	756.43	-1.40
2006/09/29	758.27	757.57	-0.69
2006/10/09	757.91	756.56	-1.35
2007/03/15	757.97	756.76	-1.21
2007/08/31	758.78	758.10	-0.68
2008/03/09	757.80	756.41	-1.39
2008/05/18	756.43	755.43	-1.00
2008/09/23	759.46	759.48	0.02
Max Elev	759.66	759.68	
StormEvent	1987/09/06	1987/09/06	

Klein Creek, Carol Stream (CBBEL Project No. 09-0321)
Comparison of Peak Water Surface Elevations
at
F66 Upstream GK Spillway Weir
2. Branch# 99999; Node ID: WTLNDIFL; Station: 0.0000

	(1) V10Base.pek	(2) prop6c3.pek	2-1
Nodes ==>	66	66	
1925/01/02	755.38	754.94	-0.44
1949/04/08	758.03	756.92	-1.11
1949/06/21	759.04	758.26	-0.77
1949/07/27	758.79	758.11	-0.68
1949/12/31	758.10	757.13	-0.96
1950/01/31	758.07	757.05	-1.02
1950/05/03	758.71	758.05	-0.66
1950/06/11	758.85	758.15	-0.70
1951/03/09	758.01	756.89	-1.13
1951/05/17	757.66	756.19	-1.47
1951/07/29	758.63	757.99	-0.63
1952/01/25	758.25	757.55	-0.69
1952/03/28	756.41	755.38	-1.03
1953/03/23	757.94	756.67	-1.27
1953/06/16	758.64	758.01	-0.63
1953/07/28	759.43	758.76	-0.67
1954/04/05	759.26	758.48	-0.78
1954/05/08	758.24	757.54	-0.69
1954/08/29	758.84	758.14	-0.70
1954/10/25	758.81	758.43	-0.39
1955/03/09	755.76	755.16	-0.60
1956/05/18	758.33	757.65	-0.68
1957/01/27	756.60	755.47	-1.13
1957/03/04	758.74	758.07	-0.67
1957/07/28	759.42	759.53	0.10*
1958/04/30	759.08	758.31	-0.77
1958/06/19	758.23	757.52	-0.71
1958/07/11	757.89	756.53	-1.36
1959/04/07	756.58	755.50	-1.08
1959/07/27	754.97	754.82	-0.16
1960/01/21	758.25	757.54	-0.71
1960/04/04	753.49	753.69	0.20*
1961/08/09	758.58	757.96	-0.63
1961/10/06	758.92	758.18	-0.74
1962/04/15	756.11	755.28	-0.82
1962/07/08	758.91	758.18	-0.73
1963/05/07	757.77	756.35	-1.42
1964/04/12	756.87	755.68	-1.19
1964/07/25	758.73	758.07	-0.66
1965/03/22	757.11	755.70	-1.41
1966/02/15	757.15	755.75	-1.40
1966/05/18	758.44	757.79	-0.65
1967/04/09	757.18	755.76	-1.42
1967/07/01	758.71	758.05	-0.66
1968/08/24	758.70	758.04	-0.65
1969/04/13	757.03	755.77	-1.26
1969/06/15	757.64	756.15	-1.48
1969/08/01	755.60	755.04	-0.56
1969/10/25	758.91	758.17	-0.74
1970/05/20	758.01	756.87	-1.15

1970/12/18	757.18	755.72	-1.46
1971/03/04	756.00	755.23	-0.77
1971/08/28	758.71	758.06	-0.65
1972/03/21	757.97	756.75	-1.22
1972/04/27	759.08	758.30	-0.78
1972/09/01	759.12	758.33	-0.79
1972/10/05	758.71	758.04	-0.66
1973/01/08	758.27	757.57	-0.70
1973/05/08	758.19	757.39	-0.80
1974/02/28	757.60	756.08	-1.51
1974/04/21	757.82	756.44	-1.38
1974/05/25	757.82	756.45	-1.37
1975/01/16	757.50	755.99	-1.51
1975/05/05	758.74	758.07	-0.67
1975/09/08	758.39	757.73	-0.66
1976/03/21	758.59	757.96	-0.63
1977/07/05	758.08	757.23	-0.86
1977/08/13	757.49	755.92	-1.57
1977/09/07	758.01	756.76	-1.25
1978/04/02	754.59	754.62	0.02
1978/05/21	756.84	755.66	-1.18
1978/07/09	757.72	756.27	-1.46
1978/09/25	758.98	758.24	-0.74
1979/04/18	758.40	757.75	-0.66
1979/09/05	758.18	757.35	-0.83
1980/01/21	754.45	754.53	0.07*
1980/08/26	758.86	758.15	-0.71
1980/09/26	757.82	756.44	-1.38
1981/05/03	758.38	757.72	-0.66
1981/06/05	759.04	758.26	-0.78
1981/06/21	757.47	755.90	-1.57
1981/08/23	758.15	757.25	-0.90
1982/03/28	757.92	756.61	-1.31
1982/07/31	758.65	758.01	-0.64
1982/08/14	758.83	758.13	-0.70
1982/12/12	759.21	758.41	-0.80
1983/01/04	758.83	758.13	-0.70
1983/04/22	758.04	756.96	-1.08
1983/06/04	758.30	757.62	-0.68
1983/07/09	758.11	757.13	-0.97
1983/12/05	758.42	757.76	-0.65
1984/02/25	757.37	755.79	-1.58
1984/04/03	757.99	756.81	-1.17
1985/03/19	758.38	757.70	-0.67
1985/12/11	758.14	757.24	-0.90
1986/07/19	757.29	755.89	-1.40
1986/10/10	758.64	758.00	-0.65
1987/09/06	759.66	759.68	0.02
1988/01/01	757.57	756.06	-1.50
1988/02/07	757.07	755.76	-1.31
1988/04/13	755.63	755.09	-0.54
1988/10/26	758.87	758.16	-0.72
1989/08/18	759.24	758.46	-0.78
1989/09/18	758.97	758.22	-0.74
1990/03/16	758.29	757.62	-0.68
1990/05/19	758.18	757.38	-0.80
1990/08/28	759.20	758.41	-0.79
1990/12/10	758.01	756.87	-1.14
1991/04/23	757.96	756.73	-1.23
1991/06/02	757.42	755.90	-1.52
1991/10/09	757.96	756.74	-1.22

1991/11/08	757.99	756.80	-1.19
1991/12/18	756.03	755.28	-0.75
1992/09/21	758.42	757.76	-0.65
1993/01/11	757.82	756.44	-1.38
1993/04/29	757.60	756.10	-1.50
1993/07/06	758.50	757.88	-0.62
1994/03/13	757.46	755.90	-1.56
1994/07/02	758.64	758.00	-0.64
1994/08/24	757.22	755.75	-1.47
1995/01/25	756.79	755.56	-1.23
1995/05/06	757.19	755.75	-1.44
1995/08/24	758.32	757.64	-0.68
1995/11/18	757.87	756.48	-1.39
1996/06/27	758.49	757.87	-0.62
1996/08/05	758.10	757.10	-1.00
1997/03/06	758.57	757.94	-0.63
1998/03/25	756.83	755.66	-1.16
1998/05/15	757.26	755.78	-1.48
1998/08/15	758.83	758.14	-0.70
1998/09/14	757.24	755.73	-1.51
1998/10/25	757.93	756.67	-1.26
1999/02/09	757.91	756.56	-1.35
1999/05/06	758.14	757.26	-0.88
2000/04/28	758.73	758.07	-0.66
2001/03/02	757.94	756.67	-1.27
2001/09/06	759.33	758.58	-0.74
2001/09/30	758.23	757.48	-0.74
2001/10/31	759.02	758.25	-0.77
2002/03/15	757.01	755.63	-1.37
2002/05/22	757.98	756.80	-1.18
2002/07/14	758.51	757.89	-0.62
2002/08/29	759.14	758.34	-0.80
2003/05/19	758.13	757.21	-0.92
2003/08/13	757.28	755.81	-1.47
2003/11/29	757.69	756.20	-1.49
2004/03/11	755.70	755.08	-0.62
2004/06/18	758.62	758.01	-0.61
2005/01/18	757.42	755.82	-1.60
2006/03/18	756.83	755.62	-1.20
2006/07/03	757.83	756.43	-1.40
2006/09/29	758.27	757.57	-0.69
2006/10/09	757.91	756.56	-1.35
2007/03/15	757.97	756.76	-1.21
2007/08/31	758.78	758.10	-0.69
2008/03/09	757.80	756.41	-1.39
2008/05/18	756.43	755.43	-1.00
2008/09/23	759.46	759.48	0.02
Max Elev	759.66	759.68	
StormEvent	1987/09/06	1987/09/06	

Klein Creek, Carol Stream (CBBEL Project No. 09-0321)
Comparison of Peak Water Surface Elevations
at
F4 Gary Kehoe Intersection
4. Branch# 99999; Node ID: OFGARYKE; Station: 0.0000

	(1) V10Base.pek	(2) prop6c3.pek	2-1
Nodes ==>	4	4	
1925/01/02	755.68	755.48	-0.20
1949/04/08	758.09	757.10	-0.99
1949/06/21	759.20	758.44	-0.76
1949/07/27	758.93	758.28	-0.65
1949/12/31	758.17	757.30	-0.86
1950/01/31	758.14	757.21	-0.92
1950/05/03	758.85	758.24	-0.61
1950/06/11	758.98	758.31	-0.67
1951/03/09	758.08	757.06	-1.01
1951/05/17	757.71	756.42	-1.29
1951/07/29	758.74	758.16	-0.58
1952/01/25	758.33	757.70	-0.63
1952/03/28	756.50	755.73	-0.77
1953/03/23	758.00	756.86	-1.14
1953/06/16	758.76	758.18	-0.58
1953/07/28	759.56	758.90	-0.66
1954/04/05	759.42	758.65	-0.78
1954/05/08	758.32	757.69	-0.63
1954/08/29	758.97	758.30	-0.67
1954/10/25	758.96	758.44	-0.52
1955/03/09	755.89	755.49	-0.40
1956/05/18	758.42	757.80	-0.61
1957/01/27	756.67	755.77	-0.90
1957/03/04	758.87	758.24	-0.63
1957/07/28	759.54	759.53	-0.01
1958/04/30	759.24	758.46	-0.77
1958/06/19	758.30	757.66	-0.65
1958/07/11	757.94	756.72	-1.22
1959/04/07	756.65	755.79	-0.86
1959/07/27	755.30	755.24	-0.06
1960/01/21	758.33	757.68	-0.65
1960/04/04	754.64	754.65	0.01
1961/08/09	758.70	758.12	-0.57
1961/10/06	759.08	758.36	-0.71
1962/04/15	756.21	755.60	-0.60
1962/07/08	759.05	758.34	-0.70
1963/05/07	757.82	756.55	-1.27
1964/04/12	756.92	755.93	-1.00
1964/07/25	758.85	758.23	-0.62
1965/03/22	757.16	755.97	-1.19
1966/02/15	757.20	756.01	-1.19
1966/05/18	758.54	757.96	-0.58
1967/04/09	757.23	756.02	-1.21
1967/07/01	758.83	758.22	-0.62
1968/08/24	758.82	758.21	-0.61
1969/04/13	757.08	756.03	-1.06
1969/06/15	757.68	756.38	-1.30
1969/08/01	755.77	755.43	-0.34
1969/10/25	759.07	758.35	-0.72
1970/05/20	758.07	757.03	-1.04

1970/12/18	757.22	755.97	-1.25
1971/03/04	756.11	755.57	-0.54
1971/08/28	758.82	758.22	-0.61
1972/03/21	758.02	756.93	-1.09
1972/04/27	759.24	758.46	-0.78
1972/09/01	759.28	758.48	-0.80
1972/10/05	758.84	758.22	-0.62
1973/01/08	758.36	757.73	-0.63
1973/05/08	758.26	757.53	-0.73
1974/02/28	757.64	756.32	-1.33
1974/04/21	757.86	756.62	-1.24
1974/05/25	757.86	756.64	-1.23
1975/01/16	757.54	756.22	-1.32
1975/05/05	758.87	758.24	-0.63
1975/09/08	758.48	757.88	-0.60
1976/03/21	758.71	758.14	-0.57
1977/07/05	758.15	757.38	-0.77
1977/08/13	757.53	756.16	-1.37
1977/09/07	758.07	756.93	-1.14
1978/04/02	755.13	755.13	0.01
1978/05/21	756.90	755.92	-0.98
1978/07/09	757.77	756.47	-1.30
1978/09/25	759.12	758.39	-0.73
1979/04/18	758.50	757.91	-0.59
1979/09/05	758.24	757.49	-0.75
1980/01/21	755.06	755.07	0.02
1980/08/26	758.99	758.31	-0.68
1980/09/26	757.86	756.62	-1.24
1981/05/03	758.47	757.87	-0.60
1981/06/05	759.20	758.43	-0.77
1981/06/21	757.51	756.13	-1.38
1981/08/23	758.22	757.40	-0.82
1982/03/28	757.98	756.80	-1.17
1982/07/31	758.77	758.18	-0.59
1982/08/14	758.96	758.29	-0.67
1982/12/12	759.39	758.59	-0.80
1983/01/04	758.96	758.29	-0.67
1983/04/22	758.11	757.14	-0.97
1983/06/04	758.38	757.76	-0.62
1983/07/09	758.18	757.30	-0.88
1983/12/05	758.51	757.93	-0.58
1984/02/25	757.41	756.06	-1.35
1984/04/03	758.04	756.99	-1.05
1985/03/19	758.48	757.88	-0.60
1985/12/11	758.22	757.40	-0.82
1986/07/19	757.33	756.12	-1.21
1986/10/10	758.77	758.17	-0.59
1987/09/06	759.66	759.68	0.02
1988/01/01	757.61	756.28	-1.32
1988/02/07	757.12	756.01	-1.11
1988/04/13	755.78	755.44	-0.35
1988/10/26	759.01	758.32	-0.69
1989/08/18	759.41	758.63	-0.78
1989/09/18	759.11	758.38	-0.73
1990/03/16	758.38	757.77	-0.61
1990/05/19	758.26	757.53	-0.72
1990/08/28	759.37	758.57	-0.80
1990/12/10	758.07	757.05	-1.02
1991/04/23	758.01	756.90	-1.12
1991/06/02	757.46	756.14	-1.32
1991/10/09	758.02	756.92	-1.10

1991/11/08	758.04	756.97	-1.08
1991/12/18	756.14	755.60	-0.54
1992/09/21	758.51	757.92	-0.59
1993/01/11	757.87	756.63	-1.23
1993/04/29	757.64	756.32	-1.32
1993/07/06	758.61	758.05	-0.55
1994/03/13	757.50	756.15	-1.35
1994/07/02	758.76	758.17	-0.59
1994/08/24	757.26	756.00	-1.26
1995/01/25	756.86	755.86	-1.00
1995/05/06	757.23	756.02	-1.21
1995/08/24	758.40	757.79	-0.62
1995/11/18	757.92	756.67	-1.25
1996/06/27	758.59	758.03	-0.56
1996/08/05	758.16	757.25	-0.91
1997/03/06	758.69	758.12	-0.57
1998/03/25	756.88	755.93	-0.95
1998/05/15	757.31	756.04	-1.27
1998/08/15	758.97	758.30	-0.67
1998/09/14	757.28	755.98	-1.31
1998/10/25	757.98	756.86	-1.12
1999/02/09	757.97	756.77	-1.19
1999/05/06	758.22	757.43	-0.79
2000/04/28	758.86	758.24	-0.62
2001/03/02	757.99	756.86	-1.14
2001/09/06	759.48	758.74	-0.74
2001/09/30	758.31	757.63	-0.68
2001/10/31	759.18	758.43	-0.76
2002/03/15	757.06	755.90	-1.15
2002/05/22	758.04	756.97	-1.06
2002/07/14	758.62	758.05	-0.56
2002/08/29	759.31	758.51	-0.80
2003/05/19	758.20	757.36	-0.83
2003/08/13	757.32	756.05	-1.28
2003/11/29	757.74	756.41	-1.33
2004/03/11	755.85	755.45	-0.40
2004/06/18	758.74	758.17	-0.56
2005/01/18	757.46	756.08	-1.38
2006/03/18	756.88	755.90	-0.99
2006/07/03	757.88	756.62	-1.25
2006/09/29	758.34	757.71	-0.63
2006/10/09	757.95	756.74	-1.22
2007/03/15	758.03	756.93	-1.09
2007/08/31	758.92	758.27	-0.65
2008/03/09	757.85	756.62	-1.23
2008/05/18	756.50	755.72	-0.79
2008/09/23	759.47	759.49	0.01
Max Elev	759.66	759.68	
StormEvent	1987/09/06	1987/09/06	

Klein Creek, Carol Stream (CBBEL Project No. 09-0321)
Comparison of Peak Water Surface Elevations
at
F51 Gary Kehoe Reservoir
5. Branch# 99999; Node ID: GARYKEHO; Station: 0.0000

	(1) V10Base.pek	(2) prop6c3.pek	2-1
Nodes ==>	51	51	
1925/01/02	747.07	747.38	0.31*
1949/04/08	751.37	751.71	0.33*
1949/06/21	754.18	754.52	0.34*
1949/07/27	751.80	751.99	0.19*
1949/12/31	752.18	752.71	0.54*
1950/01/31	751.01	751.33	0.33*
1950/05/03	753.38	753.87	0.49*
1950/06/11	753.20	753.70	0.50*
1951/03/09	751.01	751.38	0.36*
1951/05/17	751.09	751.72	0.63*
1951/07/29	751.45	751.67	0.23*
1952/01/25	751.67	752.07	0.40*
1952/03/28	750.13	750.56	0.42*
1953/03/23	750.77	751.09	0.32*
1953/06/16	751.17	751.45	0.28*
1953/07/28	753.90	754.54	0.64*
1954/04/05	755.57	756.13	0.56*
1954/05/08	752.31	753.00	0.69*
1954/08/29	752.17	752.47	0.29*
1954/10/25	757.72	758.43	0.71*
1955/03/09	749.35	749.72	0.37*
1956/05/18	751.02	751.40	0.39*
1957/01/27	749.15	750.02	0.87*
1957/03/04	752.59	752.85	0.26*
1957/07/28	759.42	759.53	0.11*
1958/04/30	751.99	752.18	0.18*
1958/06/19	751.01	751.33	0.31*
1958/07/11	750.48	750.96	0.48*
1959/04/07	750.14	750.45	0.32*
1959/07/27	747.69	748.00	0.31*
1960/01/21	750.56	750.88	0.32*
1960/04/04	747.32	747.61	0.29*
1961/08/09	751.36	751.58	0.22*
1961/10/06	755.47	755.93	0.46*
1962/04/15	749.92	750.00	0.08*
1962/07/08	752.14	752.42	0.27*
1963/05/07	750.31	750.85	0.55*
1964/04/12	750.14	750.76	0.62*
1964/07/25	751.14	751.39	0.25*
1965/03/22	750.42	750.87	0.45*
1966/02/15	749.32	750.03	0.71*
1966/05/18	752.15	752.80	0.64*
1967/04/09	750.64	750.97	0.33*
1967/07/01	752.66	752.89	0.23*
1968/08/24	752.97	753.23	0.26*
1969/04/13	749.98	750.48	0.50*
1969/06/15	750.75	751.33	0.58*
1969/08/01	748.32	748.70	0.38*
1969/10/25	754.49	754.89	0.40*
1970/05/20	750.62	751.06	0.43*

1970/12/18	749.11	749.93	0.82*
1971/03/04	748.91	749.30	0.39*
1971/08/28	751.58	751.77	0.20*
1972/03/21	750.18	750.55	0.37*
1972/04/27	752.65	752.86	0.21*
1972/09/01	752.66	752.97	0.31*
1972/10/05	752.81	753.02	0.21*
1973/01/08	752.20	752.79	0.59*
1973/05/08	750.85	751.21	0.35*
1974/02/28	750.27	750.85	0.58*
1974/04/21	749.98	750.32	0.34*
1974/05/25	750.30	750.49	0.19*
1975/01/16	750.32	750.86	0.54*
1975/05/05	751.23	751.43	0.20*
1975/09/08	752.53	752.95	0.42*
1976/03/21	751.81	752.02	0.21*
1977/07/05	750.55	750.93	0.38*
1977/08/13	749.95	750.50	0.55*
1977/09/07	749.63	750.23	0.60*
1978/04/02	749.96	750.01	0.06*
1978/05/21	748.77	749.48	0.71*
1978/07/09	750.68	751.21	0.53*
1978/09/25	752.89	753.28	0.38*
1979/04/18	753.04	754.08	1.04*
1979/09/05	751.36	751.79	0.42*
1980/01/21	747.90	748.16	0.26*
1980/08/26	752.55	752.77	0.22*
1980/09/26	750.66	750.88	0.22*
1981/05/03	751.44	751.61	0.17*
1981/06/05	753.49	753.74	0.25*
1981/06/21	749.40	750.19	0.78*
1981/08/23	751.21	751.57	0.35*
1982/03/28	750.48	750.83	0.35*
1982/07/31	751.78	752.12	0.35*
1982/08/14	751.65	751.86	0.21*
1982/12/12	755.95	756.51	0.56*
1983/01/04	751.78	752.13	0.35*
1983/04/22	751.74	752.73	0.99*
1983/06/04	750.94	751.13	0.19*
1983/07/09	751.22	751.53	0.31*
1983/12/05	752.44	752.75	0.30*
1984/02/25	749.94	750.46	0.52*
1984/04/03	750.25	750.60	0.35*
1985/03/19	753.62	754.14	0.52*
1985/12/11	751.21	751.46	0.25*
1986/07/19	749.89	750.56	0.67*
1986/10/10	752.24	752.42	0.18*
1987/09/06	759.66	759.68	0.02
1988/01/01	749.72	750.23	0.51*
1988/02/07	749.52	749.97	0.45*
1988/04/13	749.22	749.59	0.37*
1988/10/26	753.23	753.49	0.26*
1989/08/18	754.53	754.84	0.31*
1989/09/18	752.13	752.34	0.22*
1990/03/16	751.38	751.78	0.39*
1990/05/19	752.59	753.04	0.45*
1990/08/28	753.53	753.73	0.20*
1990/12/10	751.12	751.69	0.57*
1991/04/23	750.62	751.01	0.39*
1991/06/02	749.40	750.33	0.93*
1991/10/09	750.99	751.45	0.46*

1991/11/08	750.44	750.72	0.28*
1991/12/18	748.83	749.22	0.39*
1992/09/21	750.61	750.85	0.24*
1993/01/11	750.43	750.89	0.46*
1993/04/29	750.83	751.15	0.33*
1993/07/06	752.16	752.43	0.27*
1994/03/13	750.46	751.05	0.59*
1994/07/02	752.60	752.96	0.36*
1994/08/24	749.26	750.26	1.00*
1995/01/25	750.23	750.50	0.27*
1995/05/06	750.79	751.20	0.41*
1995/08/24	750.70	751.04	0.34*
1995/11/18	750.69	751.19	0.50*
1996/06/27	751.18	751.52	0.34*
1996/08/05	750.52	750.85	0.33*
1997/03/06	754.66	755.23	0.57*
1998/03/25	750.08	750.27	0.19*
1998/05/15	749.66	750.41	0.75*
1998/08/15	751.98	752.30	0.32*
1998/09/14	748.11	748.89	0.78*
1998/10/25	750.97	751.45	0.48*
1999/02/09	751.32	751.91	0.59*
1999/05/06	751.78	752.12	0.33*
2000/04/28	751.87	752.27	0.40*
2001/03/02	750.91	751.18	0.27*
2001/09/06	756.27	756.76	0.49*
2001/09/30	751.48	751.76	0.28*
2001/10/31	754.48	755.07	0.59*
2002/03/15	750.09	750.43	0.34*
2002/05/22	750.64	750.97	0.34*
2002/07/14	751.29	751.48	0.19*
2002/08/29	754.71	755.10	0.39*
2003/05/19	751.23	751.61	0.38*
2003/08/13	748.30	749.00	0.70*
2003/11/29	750.31	750.77	0.46*
2004/03/11	748.11	748.62	0.50*
2004/06/18	751.05	751.31	0.25*
2005/01/18	750.48	751.07	0.59*
2006/03/18	749.44	750.08	0.64*
2006/07/03	749.48	750.27	0.79*
2006/09/29	750.77	750.98	0.21*
2006/10/09	749.59	750.22	0.64*
2007/03/15	750.64	750.97	0.32*
2007/08/31	752.17	752.47	0.30*
2008/03/09	750.73	751.21	0.48*
2008/05/18	747.89	748.50	0.61*
2008/09/23	759.46	759.48	0.03
Max Elev	759.66	759.68	
StormEvent	1987/09/06	1987/09/06	

Klein Creek, Carol Stream (CBBEL Project No. 09-0321)
Comparison of Peak Water Surface Elevations
at
54:5401 Downstream of Gary Kehoe
6. Branch# 54; Node ID: U54 ; Station: 0.4680

	(1) V10Base.pek	(2) prop6c3.pek	2-1
Nodes ==>	5401	5401	
1925/01/02	748.80	748.74	-0.06
1949/04/08	749.33	749.22	-0.11
1949/06/21	749.61	749.55	-0.07
1949/07/27	749.41	749.36	-0.05
1949/12/31	749.42	749.32	-0.10
1950/01/31	749.28	749.16	-0.13
1950/05/03	749.55	749.50	-0.05
1950/06/11	749.50	749.45	-0.05
1951/03/09	749.29	749.18	-0.11
1951/05/17	749.30	749.17	-0.13
1951/07/29	749.37	749.32	-0.05
1952/01/25	749.38	749.30	-0.08
1952/03/28	749.01	748.88	-0.13
1953/03/23	749.22	749.08	-0.14
1953/06/16	749.32	749.29	-0.03
1953/07/28	751.82	749.53	-2.29
1954/04/05	750.24	749.64	-0.60
1954/05/08	749.44	749.38	-0.07
1954/08/29	749.42	749.37	-0.05
1954/10/25	749.77	749.80	0.03
1955/03/09	748.88	748.81	-0.08
1956/05/18	749.27	749.20	-0.08
1957/01/27	749.04	748.88	-0.16
1957/03/04	749.47	749.41	-0.06
1957/07/28	752.10	752.10	0.00
1958/04/30	749.45	749.39	-0.06
1958/06/19	749.29	749.25	-0.03
1958/07/11	749.21	749.09	-0.12
1959/04/07	749.02	748.85	-0.16
1959/07/27	748.76	748.72	-0.03
1960/01/21	749.25	749.17	-0.08
1960/04/04	748.22	748.22	0.00
1961/08/09	749.35	749.31	-0.04
1961/10/06	749.67	749.61	-0.06
1962/04/15	748.95	748.84	-0.11
1962/07/08	749.45	749.40	-0.05
1963/05/07	749.20	749.01	-0.19
1964/04/12	749.07	748.95	-0.11
1964/07/25	749.32	749.25	-0.07
1965/03/22	749.11	748.97	-0.14
1966/02/15	749.12	748.91	-0.21
1966/05/18	749.40	749.27	-0.13
1967/04/09	749.13	748.98	-0.15
1967/07/01	749.46	749.40	-0.06
1968/08/24	749.49	749.43	-0.06
1969/04/13	749.10	748.91	-0.19
1969/06/15	749.21	749.10	-0.11
1969/08/01	748.87	748.80	-0.07
1969/10/25	749.62	749.56	-0.07
1970/05/20	749.23	749.09	-0.14

1970/12/18	749.11	748.90	-0.22
1971/03/04	748.94	748.83	-0.11
1971/08/28	749.38	749.33	-0.05
1972/03/21	749.22	749.07	-0.15
1972/04/27	749.50	749.44	-0.06
1972/09/01	749.51	749.45	-0.05
1972/10/05	749.50	749.44	-0.06
1973/01/08	749.44	749.38	-0.06
1973/05/08	749.25	749.21	-0.04
1974/02/28	749.19	748.98	-0.21
1974/04/21	749.19	749.01	-0.18
1974/05/25	749.19	749.01	-0.18
1975/01/16	749.16	748.95	-0.21
1975/05/05	749.33	749.28	-0.04
1975/09/08	749.47	749.40	-0.07
1976/03/21	749.40	749.34	-0.06
1977/07/05	749.24	749.14	-0.10
1977/08/13	749.16	748.94	-0.22
1977/09/07	749.22	749.06	-0.16
1978/04/02	748.67	748.66	-0.01
1978/05/21	749.07	748.89	-0.18
1978/07/09	749.19	749.04	-0.15
1978/09/25	749.45	749.40	-0.06
1979/04/18	749.48	749.36	-0.12
1979/09/05	749.34	749.26	-0.08
1980/01/21	748.63	748.63	0.00
1980/08/26	749.50	749.44	-0.06
1980/09/26	749.20	749.03	-0.16
1981/05/03	749.33	749.25	-0.08
1981/06/05	749.55	749.48	-0.07
1981/06/21	749.15	748.92	-0.23
1981/08/23	749.32	749.21	-0.10
1982/03/28	749.24	749.08	-0.16
1982/07/31	749.38	749.32	-0.06
1982/08/14	749.40	749.35	-0.05
1982/12/12	750.09	749.65	-0.43
1983/01/04	749.41	749.35	-0.06
1983/04/22	749.33	749.19	-0.14
1983/06/04	749.26	749.22	-0.04
1983/07/09	749.32	749.24	-0.08
1983/12/05	749.43	749.37	-0.07
1984/02/25	749.17	748.94	-0.23
1984/04/03	749.23	749.09	-0.14
1985/03/19	749.53	749.47	-0.06
1985/12/11	749.31	749.22	-0.10
1986/07/19	749.14	748.94	-0.20
1986/10/10	749.45	749.39	-0.06
1987/09/06	753.21	753.31	0.10*
1988/01/01	749.17	748.96	-0.21
1988/02/07	749.10	748.91	-0.20
1988/04/13	748.86	748.80	-0.07
1988/10/26	749.55	749.49	-0.06
1989/08/18	750.15	749.55	-0.60
1989/09/18	749.45	749.39	-0.06
1990/03/16	749.33	749.27	-0.06
1990/05/19	749.43	749.32	-0.11
1990/08/28	749.84	749.49	-0.35
1990/12/10	749.32	749.24	-0.07
1991/04/23	749.21	749.05	-0.15
1991/06/02	749.16	748.94	-0.22
1991/10/09	749.28	749.18	-0.10

1991/11/08	749.21	749.06	-0.15
1991/12/18	748.94	748.84	-0.10
1992/09/21	749.27	749.20	-0.07
1993/01/11	749.20	749.04	-0.16
1993/04/29	749.19	749.05	-0.14
1993/07/06	749.41	749.33	-0.08
1994/03/13	749.18	749.03	-0.15
1994/07/02	749.46	749.41	-0.06
1994/08/24	749.12	748.90	-0.22
1995/01/25	749.08	748.90	-0.18
1995/05/06	749.13	749.01	-0.12
1995/08/24	749.27	749.19	-0.08
1995/11/18	749.20	749.02	-0.18
1996/06/27	749.29	749.23	-0.07
1996/08/05	749.23	749.11	-0.12
1997/03/06	749.59	749.54	-0.06
1998/03/25	749.08	748.90	-0.18
1998/05/15	749.14	748.92	-0.22
1998/08/15	749.43	749.39	-0.05
1998/09/14	749.11	748.89	-0.22
1998/10/25	749.27	749.18	-0.09
1999/02/09	749.34	749.23	-0.12
1999/05/06	749.39	749.31	-0.08
2000/04/28	749.43	749.39	-0.04
2001/03/02	749.22	749.10	-0.12
2001/09/06	750.88	749.65	-1.23
2001/09/30	749.36	749.30	-0.06
2001/10/31	749.61	749.55	-0.06
2002/03/15	749.09	748.88	-0.21
2002/05/22	749.24	749.09	-0.14
2002/07/14	749.34	749.30	-0.05
2002/08/29	749.65	749.52	-0.13
2003/05/19	749.30	749.17	-0.13
2003/08/13	749.12	748.91	-0.22
2003/11/29	749.18	748.98	-0.20
2004/03/11	748.89	748.81	-0.08
2004/06/18	749.30	749.26	-0.05
2005/01/18	749.18	749.04	-0.14
2006/03/18	749.07	748.89	-0.18
2006/07/03	749.20	749.02	-0.18
2006/09/29	749.26	749.18	-0.08
2006/10/09	749.20	749.03	-0.17
2007/03/15	749.21	749.06	-0.15
2007/08/31	749.46	749.41	-0.05
2008/03/09	749.22	749.10	-0.13
2008/05/18	748.99	748.85	-0.15
2008/09/23	751.15	751.34	0.19*
Max Elev	753.21	753.31	
StormEvent	1987/09/06	1987/09/06	

Klein Creek, Carol Stream (CBBEL Project No. 09-0321)
Comparison of Peak Water Surface Elevations
at
51:5103 Trib 2 at Confluence
7. Branch# 51; Node ID: D51 ; Station: 0.0000

	(1) V10Base.pek	(2) prop6c3.pek	2-1
Nodes ==>	5103	5103	
1925/01/02	741.71	741.66	-0.05
1949/04/08	743.88	743.57	-0.31
1949/06/21	744.85	744.31	-0.53
1949/07/27	743.66	743.53	-0.12
1949/12/31	744.39	743.81	-0.57
1950/01/31	743.88	743.69	-0.18
1950/05/03	744.92	744.36	-0.56
1950/06/11	744.61	744.11	-0.50
1951/03/09	743.93	743.74	-0.20
1951/05/17	744.02	743.66	-0.35
1951/07/29	743.72	743.62	-0.10
1952/01/25	744.16	743.82	-0.34
1952/03/28	743.24	743.21	-0.03
1953/03/23	743.67	743.54	-0.13
1953/06/16	743.41	743.32	-0.10
1953/07/28	744.87	744.44	-0.43
1954/04/05	745.27	744.71	-0.56
1954/05/08	744.48	743.90	-0.58
1954/08/29	743.77	743.57	-0.19
1954/10/25	745.80	745.04	-0.76
1955/03/09	742.62	742.61	-0.01
1956/05/18	743.86	743.56	-0.30
1957/01/27	743.14	743.02	-0.12
1957/03/04	744.45	744.00	-0.45
1957/07/28	746.36	745.63	-0.73
1958/04/30	744.06	743.78	-0.28
1958/06/19	743.37	743.29	-0.08
1958/07/11	742.93	742.83	-0.10
1959/04/07	742.51	742.43	-0.08
1959/07/27	742.09	742.08	-0.01
1960/01/21	743.40	743.34	-0.05
1960/04/04	741.45	741.45	0.00
1961/08/09	743.34	743.29	-0.05
1961/10/06	745.09	744.47	-0.63
1962/04/15	742.52	742.47	-0.05
1962/07/08	743.75	743.62	-0.13
1963/05/07	743.37	743.27	-0.10
1964/04/12	743.23	743.17	-0.06
1964/07/25	743.39	743.32	-0.07
1965/03/22	743.49	743.41	-0.08
1966/02/15	743.24	743.18	-0.06
1966/05/18	744.32	743.74	-0.58
1967/04/09	743.42	743.36	-0.06
1967/07/01	743.94	743.70	-0.24
1968/08/24	744.05	743.76	-0.29
1969/04/13	742.88	742.81	-0.07
1969/06/15	743.80	743.55	-0.25
1969/08/01	742.47	742.43	-0.04
1969/10/25	744.66	744.13	-0.54
1970/05/20	743.60	743.45	-0.16

1970/12/18	742.84	742.68	-0.16
1971/03/04	742.69	742.65	-0.04
1971/08/28	743.39	743.27	-0.12
1972/03/21	743.30	743.12	-0.18
1972/04/27	744.34	744.10	-0.24
1972/09/01	744.27	744.09	-0.17
1972/10/05	744.25	744.01	-0.24
1973/01/08	744.58	743.99	-0.59
1973/05/08	743.22	743.12	-0.10
1974/02/28	743.79	743.54	-0.25
1974/04/21	742.89	742.79	-0.10
1974/05/25	743.07	743.00	-0.07
1975/01/16	743.71	743.49	-0.22
1975/05/05	743.72	743.51	-0.21
1975/09/08	744.27	743.83	-0.44
1976/03/21	743.99	743.81	-0.18
1977/07/05	743.16	742.99	-0.16
1977/08/13	742.95	742.79	-0.17
1977/09/07	742.73	742.61	-0.12
1978/04/02	742.23	742.23	0.00
1978/05/21	742.79	742.71	-0.08
1978/07/09	743.74	743.50	-0.24
1978/09/25	744.23	743.69	-0.53
1979/04/18	744.72	743.94	-0.77
1979/09/05	743.58	743.45	-0.13
1980/01/21	741.88	741.88	0.00
1980/08/26	744.06	743.88	-0.18
1980/09/26	743.11	742.97	-0.14
1981/05/03	743.61	743.46	-0.15
1981/06/05	744.55	744.20	-0.35
1981/06/21	742.91	742.84	-0.07
1981/08/23	743.70	743.59	-0.11
1982/03/28	744.11	743.83	-0.28
1982/07/31	743.92	743.66	-0.25
1982/08/14	743.76	743.52	-0.24
1982/12/12	745.57	745.11	-0.45
1983/01/04	744.07	743.76	-0.31
1983/04/22	744.48	743.72	-0.76
1983/06/04	743.50	743.42	-0.08
1983/07/09	743.70	743.60	-0.10
1983/12/05	744.15	743.81	-0.34
1984/02/25	744.05	743.65	-0.40
1984/04/03	743.52	743.39	-0.13
1985/03/19	745.00	744.32	-0.68
1985/12/11	743.78	743.58	-0.21
1986/07/19	742.96	742.84	-0.11
1986/10/10	743.87	743.76	-0.11
1987/09/06	747.13	746.67	-0.46
1988/01/01	743.12	743.05	-0.07
1988/02/07	742.80	742.74	-0.06
1988/04/13	742.64	742.57	-0.07
1988/10/26	744.22	743.99	-0.23
1989/08/18	744.77	744.35	-0.41
1989/09/18	743.79	743.65	-0.14
1990/03/16	743.91	743.72	-0.19
1990/05/19	744.25	743.76	-0.49
1990/08/28	744.44	744.21	-0.23
1990/12/10	744.06	743.72	-0.34
1991/04/23	743.42	743.35	-0.08
1991/06/02	743.13	742.98	-0.15
1991/10/09	743.76	743.56	-0.21

1991/11/08	743.01	742.91	-0.10
1991/12/18	742.59	742.54	-0.05
1992/09/21	742.89	742.81	-0.07
1993/01/11	743.40	743.35	-0.05
1993/04/29	744.05	743.68	-0.36
1993/07/06	743.97	743.71	-0.25
1994/03/13	743.85	743.61	-0.24
1994/07/02	744.19	743.80	-0.39
1994/08/24	742.76	742.67	-0.09
1995/01/25	743.48	743.37	-0.11
1995/05/06	743.57	743.45	-0.13
1995/08/24	743.07	742.97	-0.10
1995/11/18	743.61	743.45	-0.17
1996/06/27	743.53	743.42	-0.11
1996/08/05	743.48	743.39	-0.09
1997/03/06	745.05	744.43	-0.62
1998/03/25	743.05	743.03	-0.02
1998/05/15	743.25	743.24	-0.01
1998/08/15	743.71	743.61	-0.10
1998/09/14	742.42	742.30	-0.12
1998/10/25	743.70	743.48	-0.23
1999/02/09	744.33	743.80	-0.54
1999/05/06	744.15	743.83	-0.32
2000/04/28	744.24	744.03	-0.22
2001/03/02	743.73	743.49	-0.23
2001/09/06	745.33	744.77	-0.56
2001/09/30	743.73	743.57	-0.16
2001/10/31	744.88	744.36	-0.52
2002/03/15	743.30	743.24	-0.06
2002/05/22	743.44	743.32	-0.13
2002/07/14	743.31	743.16	-0.15
2002/08/29	744.68	744.17	-0.50
2003/05/19	743.78	743.52	-0.26
2003/08/13	742.59	742.48	-0.11
2003/11/29	742.91	742.82	-0.10
2004/03/11	742.63	742.57	-0.06
2004/06/18	743.27	743.19	-0.09
2005/01/18	743.96	743.61	-0.35
2006/03/18	742.91	742.87	-0.04
2006/07/03	742.79	742.67	-0.12
2006/09/29	743.27	743.18	-0.08
2006/10/09	742.79	742.65	-0.14
2007/03/15	743.79	743.58	-0.21
2007/08/31	744.29	744.04	-0.25
2008/03/09	744.05	743.65	-0.41
2008/05/18	742.33	742.25	-0.08
2008/09/23	746.45	745.75	-0.70
Max Elev	747.13	746.67	
StormEvent	1987/09/06	1987/09/06	

Klein Creek, Carol Stream (CBBEL Project No. 09-0321)
Comparison of Peak Water Surface Elevations
at
12:1207 Mainstem US North Ave
8. Branch# 12; Node ID: D12 ; Station: 2.1190

	(1) V10Base.pek	(2) prop6c3.pek	2-1
Nodes ==>	1207	1207	
1925/01/02	738.52	738.49	-0.04
1949/04/08	740.50	740.43	-0.07
1949/06/21	741.82	741.69	-0.13
1949/07/27	740.72	740.66	-0.07
1949/12/31	740.91	740.74	-0.17
1950/01/31	740.71	740.65	-0.06
1950/05/03	741.77	741.77	0.00
1950/06/11	741.34	741.20	-0.14
1951/03/09	740.82	740.74	-0.07
1951/05/17	740.62	740.45	-0.17
1951/07/29	740.68	740.62	-0.05
1952/01/25	740.90	740.83	-0.07
1952/03/28	740.06	739.98	-0.08
1953/03/23	740.53	740.45	-0.08
1953/06/16	740.60	740.59	-0.01
1953/07/28	742.36	742.34	-0.02
1954/04/05	742.63	742.48	-0.15
1954/05/08	741.05	740.80	-0.26
1954/08/29	740.95	740.94	-0.01
1954/10/25	742.23	742.22	-0.01
1955/03/09	739.48	739.48	0.00
1956/05/18	740.47	740.36	-0.11
1957/01/27	739.83	739.72	-0.10
1957/03/04	741.35	741.26	-0.10
1957/07/28	743.59	743.39	-0.20
1958/04/30	741.41	741.40	-0.01
1958/06/19	740.33	740.29	-0.04
1958/07/11	739.85	739.80	-0.04
1959/04/07	739.37	739.34	-0.03
1959/07/27	738.94	738.93	-0.01
1960/01/21	740.25	740.23	-0.02
1960/04/04	738.44	738.44	0.00
1961/08/09	740.43	740.41	-0.02
1961/10/06	741.97	741.69	-0.28
1962/04/15	739.35	739.37	0.01
1962/07/08	740.88	740.83	-0.05
1963/05/07	740.03	739.92	-0.12
1964/04/12	739.91	739.88	-0.04
1964/07/25	740.42	740.40	-0.02
1965/03/22	740.21	740.17	-0.04
1966/02/15	740.10	739.99	-0.10
1966/05/18	740.80	740.78	-0.02
1967/04/09	740.08	740.03	-0.05
1967/07/01	740.67	740.62	-0.05
1968/08/24	740.73	740.66	-0.07
1969/04/13	739.71	739.69	-0.02
1969/06/15	740.42	740.32	-0.10
1969/08/01	739.26	739.25	-0.01
1969/10/25	741.52	741.35	-0.16
1970/05/20	740.21	740.14	-0.07

1970/12/18	739.61	739.53	-0.08
1971/03/04	739.64	739.63	-0.01
1971/08/28	740.38	740.34	-0.04
1972/03/21	740.44	740.40	-0.04
1972/04/27	741.74	741.71	-0.03
1972/09/01	741.57	741.54	-0.03
1972/10/05	741.22	741.18	-0.04
1973/01/08	741.25	741.05	-0.20
1973/05/08	740.36	740.34	-0.02
1974/02/28	740.52	740.46	-0.06
1974/04/21	739.92	739.88	-0.04
1974/05/25	739.78	739.74	-0.04
1975/01/16	740.34	740.21	-0.13
1975/05/05	740.98	740.96	-0.02
1975/09/08	740.87	740.72	-0.15
1976/03/21	741.00	740.98	-0.02
1977/07/05	740.10	740.07	-0.03
1977/08/13	739.69	739.60	-0.09
1977/09/07	739.68	739.62	-0.06
1978/04/02	739.10	739.10	0.00
1978/05/21	739.53	739.53	0.00
1978/07/09	740.34	740.22	-0.13
1978/09/25	740.80	740.78	-0.03
1979/04/18	741.19	741.19	0.00
1979/09/05	740.41	740.35	-0.06
1980/01/21	738.78	738.77	0.00
1980/08/26	741.12	741.06	-0.06
1980/09/26	739.90	739.75	-0.15
1981/05/03	740.53	740.53	0.00
1981/06/05	741.76	741.67	-0.09
1981/06/21	739.65	739.59	-0.06
1981/08/23	740.48	740.45	-0.03
1982/03/28	740.98	740.89	-0.09
1982/07/31	740.85	740.81	-0.04
1982/08/14	740.92	740.88	-0.03
1982/12/12	742.88	742.63	-0.25
1983/01/04	741.25	741.22	-0.02
1983/04/22	740.84	740.66	-0.18
1983/06/04	740.61	740.59	-0.02
1983/07/09	740.61	740.58	-0.03
1983/12/05	740.92	740.86	-0.06
1984/02/25	740.72	740.54	-0.17
1984/04/03	740.59	740.55	-0.04
1985/03/19	741.81	741.60	-0.21
1985/12/11	740.51	740.49	-0.02
1986/07/19	739.71	739.71	0.00
1986/10/10	740.85	740.81	-0.04
1987/09/06	743.20	743.16	-0.03
1988/01/01	739.83	739.75	-0.08
1988/02/07	739.81	739.81	0.00
1988/04/13	739.37	739.34	-0.04
1988/10/26	741.12	741.09	-0.03
1989/08/18	742.03	741.98	-0.05
1989/09/18	741.14	741.13	-0.01
1990/03/16	740.96	740.92	-0.03
1990/05/19	740.77	740.63	-0.14
1990/08/28	741.72	741.69	-0.02
1990/12/10	740.72	740.58	-0.14
1991/04/23	740.17	740.10	-0.07
1991/06/02	739.95	739.84	-0.10
1991/10/09	740.37	740.30	-0.07

1991/11/08	739.76	739.68	-0.08
1991/12/18	739.49	739.50	0.01
1992/09/21	740.05	740.05	0.01
1993/01/11	740.38	740.33	-0.05
1993/04/29	740.74	740.57	-0.16
1993/07/06	740.84	740.82	-0.01
1994/03/13	740.59	740.50	-0.10
1994/07/02	740.78	740.70	-0.09
1994/08/24	739.55	739.48	-0.07
1995/01/25	740.17	740.09	-0.08
1995/05/06	740.20	740.12	-0.07
1995/08/24	740.08	740.09	0.01
1995/11/18	740.18	740.09	-0.09
1996/06/27	740.55	740.54	0.00
1996/08/05	740.06	740.02	-0.04
1997/03/06	741.97	741.66	-0.31
1998/03/25	739.77	739.76	-0.01
1998/05/15	739.94	739.87	-0.08
1998/08/15	740.76	740.75	-0.01
1998/09/14	739.26	739.20	-0.06
1998/10/25	740.28	740.20	-0.08
1999/02/09	740.92	740.68	-0.24
1999/05/06	740.89	740.77	-0.12
2000/04/28	741.22	741.19	-0.03
2001/03/02	740.52	740.51	-0.01
2001/09/06	742.81	742.70	-0.11
2001/09/30	740.56	740.53	-0.03
2001/10/31	741.94	741.84	-0.10
2002/03/15	740.12	740.09	-0.03
2002/05/22	740.26	740.16	-0.11
2002/07/14	740.37	740.34	-0.03
2002/08/29	741.70	741.62	-0.07
2003/05/19	740.34	740.24	-0.10
2003/08/13	739.42	739.39	-0.03
2003/11/29	739.65	739.57	-0.08
2004/03/11	739.40	739.38	-0.02
2004/06/18	740.40	740.42	0.03
2005/01/18	740.59	740.42	-0.17
2006/03/18	739.84	739.82	-0.02
2006/07/03	739.71	739.66	-0.06
2006/09/29	740.10	740.08	-0.02
2006/10/09	739.65	739.60	-0.05
2007/03/15	740.47	740.41	-0.06
2007/08/31	741.28	741.22	-0.06
2008/03/09	740.68	740.61	-0.08
2008/05/18	739.16	739.11	-0.05
2008/09/23	742.71	742.42	-0.29
Max Elev	743.59	743.39	
StormEvent	1957/07/28	1957/07/28	

Klein Creek, Carol Stream (CBBEL Project No. 09-0321)
Comparison of Peak Water Surface Elevations
at
13:1306 Mainstem US Kuhn
9. Branch# 13; Node ID: D13 ; Station: 2.3280

	(1) V10Base.pek	(2) prop6c3.pek	2-1
Nodes ==>	1306	1306	
1925/01/02	739.30	739.25	-0.05
1949/04/08	741.44	741.28	-0.16
1949/06/21	742.65	742.42	-0.23
1949/07/27	741.51	741.40	-0.10
1949/12/31	741.88	741.55	-0.34
1950/01/31	741.58	741.50	-0.09
1950/05/03	742.66	742.66	0.00
1950/06/11	742.23	742.00	-0.22
1951/03/09	741.68	741.58	-0.10
1951/05/17	741.57	741.34	-0.22
1951/07/29	741.50	741.41	-0.09
1952/01/25	741.76	741.65	-0.11
1952/03/28	740.95	740.87	-0.08
1953/03/23	741.38	741.29	-0.08
1953/06/16	741.33	741.30	-0.03
1953/07/28	742.96	742.86	-0.10
1954/04/05	743.35	743.07	-0.28
1954/05/08	742.02	741.67	-0.35
1954/08/29	741.65	741.62	-0.03
1954/10/25	743.14	743.23	0.09*
1955/03/09	740.31	740.31	0.00
1956/05/18	741.41	741.25	-0.16
1957/01/27	740.78	740.69	-0.09
1957/03/04	742.19	742.00	-0.18
1957/07/28	744.14	743.93	-0.21
1958/04/30	742.10	742.04	-0.05
1958/06/19	741.14	741.08	-0.06
1958/07/11	740.71	740.66	-0.06
1959/04/07	740.22	740.14	-0.08
1959/07/27	739.75	739.74	-0.01
1960/01/21	740.98	740.95	-0.03
1960/04/04	739.15	739.15	0.00
1961/08/09	741.19	741.15	-0.04
1961/10/06	742.82	742.42	-0.40
1962/04/15	740.22	740.22	0.00
1962/07/08	741.63	741.54	-0.09
1963/05/07	740.97	740.86	-0.10
1964/04/12	740.86	740.82	-0.04
1964/07/25	741.11	741.10	-0.02
1965/03/22	741.11	741.07	-0.04
1966/02/15	740.96	740.85	-0.11
1966/05/18	741.75	741.51	-0.24
1967/04/09	741.02	740.97	-0.05
1967/07/01	741.54	741.43	-0.11
1968/08/24	741.62	741.50	-0.11
1969/04/13	740.61	740.57	-0.04
1969/06/15	741.35	741.22	-0.13
1969/08/01	740.12	740.10	-0.01
1969/10/25	742.39	742.11	-0.27
1970/05/20	741.16	741.05	-0.11

1970/12/18	740.56	740.44	-0.12
1971/03/04	740.51	740.49	-0.01
1971/08/28	741.17	741.09	-0.08
1972/03/21	741.21	741.14	-0.07
1972/04/27	742.44	742.34	-0.09
1972/09/01	742.27	742.21	-0.06
1972/10/05	742.05	741.97	-0.08
1973/01/08	742.18	741.87	-0.31
1973/05/08	741.13	741.08	-0.05
1974/02/28	741.40	741.29	-0.10
1974/04/21	740.74	740.70	-0.05
1974/05/25	740.74	740.69	-0.05
1975/01/16	741.28	741.13	-0.15
1975/05/05	741.71	741.65	-0.05
1975/09/08	741.81	741.57	-0.24
1976/03/21	741.77	741.72	-0.05
1977/07/05	740.93	740.86	-0.07
1977/08/13	740.64	740.49	-0.15
1977/09/07	740.47	740.40	-0.08
1978/04/02	739.92	739.92	0.00
1978/05/21	740.46	740.38	-0.08
1978/07/09	741.29	741.14	-0.16
1978/09/25	741.66	741.55	-0.12
1979/04/18	742.15	742.20	0.05*
1979/09/05	741.25	741.18	-0.07
1980/01/21	739.56	739.56	0.00
1980/08/26	741.90	741.83	-0.07
1980/09/26	740.81	740.65	-0.16
1981/05/03	741.31	741.27	-0.04
1981/06/05	742.52	742.36	-0.16
1981/06/21	740.60	740.53	-0.06
1981/08/23	741.36	741.31	-0.05
1982/03/28	741.85	741.72	-0.13
1982/07/31	741.61	741.53	-0.08
1982/08/14	741.66	741.59	-0.07
1982/12/12	743.58	743.28	-0.30
1983/01/04	741.96	741.89	-0.06
1983/04/22	741.88	741.71	-0.17
1983/06/04	741.39	741.35	-0.04
1983/07/09	741.44	741.39	-0.05
1983/12/05	741.74	741.67	-0.07
1984/02/25	741.65	741.41	-0.24
1984/04/03	741.39	741.30	-0.09
1985/03/19	742.71	742.64	-0.07
1985/12/11	741.35	741.31	-0.05
1986/07/19	740.60	740.57	-0.03
1986/10/10	741.66	741.60	-0.05
1987/09/06	744.25	744.24	-0.02
1988/01/01	740.78	740.70	-0.08
1988/02/07	740.64	740.63	-0.01
1988/04/13	740.30	740.24	-0.06
1988/10/26	741.97	741.88	-0.09
1989/08/18	742.73	742.61	-0.12
1989/09/18	741.82	741.78	-0.04
1990/03/16	741.75	741.69	-0.06
1990/05/19	741.72	741.47	-0.25
1990/08/28	742.43	742.36	-0.07
1990/12/10	741.63	741.44	-0.19
1991/04/23	741.07	740.99	-0.08
1991/06/02	740.84	740.71	-0.13
1991/10/09	741.30	741.20	-0.10

1991/11/08	740.70	740.61	-0.09
1991/12/18	740.31	740.29	-0.03
1992/09/21	740.75	740.74	-0.01
1993/01/11	741.21	741.13	-0.08
1993/04/29	741.66	741.44	-0.23
1993/07/06	741.63	741.59	-0.05
1994/03/13	741.50	741.36	-0.14
1994/07/02	741.69	741.55	-0.14
1994/08/24	740.47	740.39	-0.08
1995/01/25	741.08	741.01	-0.08
1995/05/06	741.14	741.06	-0.08
1995/08/24	740.83	740.81	-0.01
1995/11/18	741.15	741.03	-0.11
1996/06/27	741.28	741.26	-0.03
1996/08/05	741.03	740.97	-0.06
1997/03/06	742.82	742.43	-0.39
1998/03/25	740.72	740.71	-0.01
1998/05/15	740.88	740.84	-0.03
1998/08/15	741.53	741.48	-0.05
1998/09/14	740.08	740.00	-0.08
1998/10/25	741.21	741.08	-0.13
1999/02/09	741.86	741.54	-0.32
1999/05/06	741.80	741.62	-0.18
2000/04/28	742.04	741.97	-0.07
2001/03/02	741.31	741.23	-0.09
2001/09/06	743.45	743.24	-0.21
2001/09/30	741.40	741.34	-0.05
2001/10/31	742.75	742.55	-0.20
2002/03/15	741.01	740.97	-0.04
2002/05/22	741.11	740.99	-0.12
2002/07/14	741.14	741.09	-0.05
2002/08/29	742.42	742.30	-0.12
2003/05/19	741.29	741.15	-0.14
2003/08/13	740.24	740.19	-0.05
2003/11/29	740.60	740.51	-0.09
2004/03/11	740.30	740.27	-0.03
2004/06/18	741.09	741.09	0.00
2005/01/18	741.52	741.30	-0.22
2006/03/18	740.70	740.67	-0.03
2006/07/03	740.59	740.50	-0.09
2006/09/29	740.90	740.87	-0.03
2006/10/09	740.54	740.47	-0.07
2007/03/15	741.39	741.30	-0.09
2007/08/31	742.07	741.99	-0.09
2008/03/09	741.61	741.45	-0.17
2008/05/18	740.01	739.94	-0.07
2008/09/23	743.52	743.54	0.02
Max Elev	744.25	744.24	
StormEvent	1987/09/06	1987/09/06	

Klein Creek, Carol Stream (CBBEL Project No. 09-0321)
Comparison of Peak Water Surface Elevations
at
15:1502 Mainstem US of Thunderbird
10. Branch# 15; Node ID: D15 ; Station: 2.9780

	(1) V10Base.pek	(2) prop6c3.pek	2-1
Nodes ==>	1502	1502	
1925/01/02	741.64	741.59	-0.05
1949/04/08	743.82	743.51	-0.31
1949/06/21	744.80	744.27	-0.53
1949/07/27	743.60	743.48	-0.12
1949/12/31	744.32	743.76	-0.57
1950/01/31	743.82	743.64	-0.18
1950/05/03	744.87	744.32	-0.55
1950/06/11	744.56	744.06	-0.50
1951/03/09	743.88	743.69	-0.19
1951/05/17	743.95	743.60	-0.35
1951/07/29	743.67	743.57	-0.10
1952/01/25	744.10	743.76	-0.33
1952/03/28	743.18	743.15	-0.03
1953/03/23	743.61	743.49	-0.12
1953/06/16	743.37	743.27	-0.09
1953/07/28	744.83	744.41	-0.42
1954/04/05	745.22	744.67	-0.55
1954/05/08	744.42	743.84	-0.57
1954/08/29	743.70	743.53	-0.17
1954/10/25	745.74	744.99	-0.75
1955/03/09	742.56	742.55	-0.01
1956/05/18	743.80	743.51	-0.30
1957/01/27	743.08	742.96	-0.11
1957/03/04	744.39	743.95	-0.45
1957/07/28	746.29	745.57	-0.73
1958/04/30	744.03	743.75	-0.28
1958/06/19	743.32	743.23	-0.08
1958/07/11	742.87	742.77	-0.10
1959/04/07	742.45	742.37	-0.08
1959/07/27	742.03	742.02	-0.01
1960/01/21	743.33	743.28	-0.05
1960/04/04	741.38	741.38	0.00
1961/08/09	743.29	743.22	-0.07
1961/10/06	745.04	744.41	-0.62
1962/04/15	742.46	742.41	-0.05
1962/07/08	743.69	743.57	-0.13
1963/05/07	743.31	743.21	-0.10
1964/04/12	743.17	743.11	-0.06
1964/07/25	743.33	743.26	-0.07
1965/03/22	743.43	743.35	-0.08
1966/02/15	743.18	743.12	-0.06
1966/05/18	744.26	743.68	-0.57
1967/04/09	743.36	743.30	-0.06
1967/07/01	743.88	743.64	-0.24
1968/08/24	743.98	743.70	-0.28
1969/04/13	742.82	742.75	-0.07
1969/06/15	743.73	743.49	-0.25
1969/08/01	742.41	742.37	-0.04
1969/10/25	744.61	744.08	-0.53
1970/05/20	743.54	743.38	-0.16

1970/12/18	742.78	742.62	-0.16
1971/03/04	742.63	742.59	-0.04
1971/08/28	743.33	743.21	-0.12
1972/03/21	743.25	743.07	-0.18
1972/04/27	744.30	744.07	-0.23
1972/09/01	744.23	744.06	-0.17
1972/10/05	744.20	743.97	-0.23
1973/01/08	744.52	743.94	-0.58
1973/05/08	743.17	743.07	-0.10
1974/02/28	743.73	743.48	-0.25
1974/04/21	742.83	742.73	-0.10
1974/05/25	743.01	742.94	-0.07
1975/01/16	743.65	743.43	-0.22
1975/05/05	743.68	743.47	-0.21
1975/09/08	744.21	743.78	-0.44
1976/03/21	743.93	743.76	-0.17
1977/07/05	743.10	742.94	-0.16
1977/08/13	742.89	742.72	-0.17
1977/09/07	742.67	742.55	-0.12
1978/04/02	742.17	742.17	0.00
1978/05/21	742.73	742.65	-0.08
1978/07/09	743.68	743.44	-0.24
1978/09/25	744.16	743.64	-0.52
1979/04/18	744.65	743.89	-0.76
1979/09/05	743.51	743.38	-0.13
1980/01/21	741.82	741.82	0.00
1980/08/26	744.01	743.83	-0.18
1980/09/26	743.05	742.91	-0.15
1981/05/03	743.55	743.40	-0.15
1981/06/05	744.50	744.16	-0.34
1981/06/21	742.85	742.78	-0.07
1981/08/23	743.64	743.53	-0.11
1982/03/28	744.06	743.78	-0.28
1982/07/31	743.85	743.61	-0.25
1982/08/14	743.69	743.46	-0.24
1982/12/12	745.53	745.08	-0.45
1983/01/04	744.01	743.71	-0.30
1983/04/22	744.41	743.66	-0.75
1983/06/04	743.45	743.37	-0.08
1983/07/09	743.65	743.55	-0.09
1983/12/05	744.08	743.76	-0.32
1984/02/25	743.99	743.59	-0.39
1984/04/03	743.47	743.33	-0.13
1985/03/19	744.95	744.28	-0.67
1985/12/11	743.72	743.52	-0.20
1986/07/19	742.90	742.78	-0.11
1986/10/10	743.81	743.70	-0.11
1987/09/06	747.05	746.60	-0.45
1988/01/01	743.06	742.99	-0.07
1988/02/07	742.74	742.68	-0.06
1988/04/13	742.58	742.51	-0.07
1988/10/26	744.16	743.94	-0.22
1989/08/18	744.72	744.32	-0.40
1989/09/18	743.75	743.59	-0.15
1990/03/16	743.85	743.67	-0.18
1990/05/19	744.18	743.70	-0.48
1990/08/28	744.39	744.17	-0.22
1990/12/10	743.99	743.66	-0.33
1991/04/23	743.36	743.29	-0.08
1991/06/02	743.07	742.92	-0.15
1991/10/09	743.70	743.50	-0.20

1991/11/08	742.95	742.85	-0.10
1991/12/18	742.53	742.48	-0.05
1992/09/21	742.83	742.76	-0.07
1993/01/11	743.35	743.29	-0.06
1993/04/29	743.98	743.63	-0.36
1993/07/06	743.90	743.66	-0.24
1994/03/13	743.79	743.55	-0.24
1994/07/02	744.12	743.74	-0.38
1994/08/24	742.70	742.61	-0.09
1995/01/25	743.42	743.31	-0.11
1995/05/06	743.51	743.39	-0.13
1995/08/24	743.01	742.91	-0.11
1995/11/18	743.55	743.38	-0.17
1996/06/27	743.47	743.36	-0.11
1996/08/05	743.42	743.33	-0.09
1997/03/06	745.00	744.38	-0.62
1998/03/25	742.99	742.97	-0.02
1998/05/15	743.19	743.18	-0.01
1998/08/15	743.67	743.56	-0.10
1998/09/14	742.36	742.23	-0.12
1998/10/25	743.64	743.42	-0.22
1999/02/09	744.27	743.74	-0.53
1999/05/06	744.09	743.77	-0.32
2000/04/28	744.19	743.98	-0.21
2001/03/02	743.66	743.44	-0.23
2001/09/06	745.29	744.74	-0.55
2001/09/30	743.67	743.52	-0.16
2001/10/31	744.83	744.32	-0.51
2002/03/15	743.25	743.19	-0.06
2002/05/22	743.38	743.26	-0.13
2002/07/14	743.25	743.10	-0.15
2002/08/29	744.62	744.13	-0.48
2003/05/19	743.72	743.46	-0.26
2003/08/13	742.53	742.42	-0.11
2003/11/29	742.85	742.76	-0.10
2004/03/11	742.57	742.51	-0.05
2004/06/18	743.21	743.12	-0.09
2005/01/18	743.90	743.55	-0.34
2006/03/18	742.85	742.81	-0.04
2006/07/03	742.73	742.62	-0.12
2006/09/29	743.21	743.12	-0.08
2006/10/09	742.73	742.59	-0.14
2007/03/15	743.73	743.53	-0.21
2007/08/31	744.24	743.99	-0.24
2008/03/09	743.99	743.59	-0.40
2008/05/18	742.27	742.19	-0.08
2008/09/23	746.38	745.69	-0.69
Max Elev	747.05	746.60	
StormEvent	1987/09/06	1987/09/06	

Klein Creek, Carol Stream (CBBEL Project No. 09-0321)
Comparison of Peak Water Surface Elevations
at
17:1704 Mainstem US Illini Drive
11. Branch# 17; Node ID: D17 ; Station: 3.4070

	(1) V10Base.pek	(2) prop6c3.pek	2-1
Nodes ==>	1704	1704	
1925/01/02	741.81	741.77	-0.04
1949/04/08	744.29	743.90	-0.39
1949/06/21	745.11	744.44	-0.68
1949/07/27	743.97	743.77	-0.19
1949/12/31	744.86	744.09	-0.77
1950/01/31	744.21	743.95	-0.26
1950/05/03	745.20	744.49	-0.71
1950/06/11	744.99	744.27	-0.72
1951/03/09	744.23	743.98	-0.25
1951/05/17	744.47	743.97	-0.49
1951/07/29	744.04	743.85	-0.19
1952/01/25	744.60	744.04	-0.56
1952/03/28	743.58	743.56	-0.02
1953/03/23	743.99	743.83	-0.16
1953/06/16	743.58	743.52	-0.06
1953/07/28	744.95	744.44	-0.51
1954/04/05	745.51	744.87	-0.64
1954/05/08	744.91	744.15	-0.76
1954/08/29	744.16	743.86	-0.30
1954/10/25	746.33	745.37	-0.95
1955/03/09	742.95	742.94	-0.01
1956/05/18	744.27	743.89	-0.38
1957/01/27	743.43	743.34	-0.08
1957/03/04	744.84	744.20	-0.65
1957/07/28	746.91	746.09	-0.83
1958/04/30	744.15	743.83	-0.31
1958/06/19	743.65	743.60	-0.04
1958/07/11	743.15	743.09	-0.06
1959/04/07	742.70	742.72	0.02
1959/07/27	742.29	742.29	0.00
1960/01/21	743.82	743.73	-0.09
1960/04/04	741.71	741.71	0.00
1961/08/09	743.69	743.68	-0.01
1961/10/06	745.49	744.73	-0.76
1962/04/15	742.77	742.77	-0.01
1962/07/08	744.14	743.87	-0.27
1963/05/07	743.70	743.64	-0.05
1964/04/12	743.56	743.52	-0.04
1964/07/25	743.76	743.70	-0.07
1965/03/22	743.83	743.74	-0.09
1966/02/15	743.58	743.54	-0.04
1966/05/18	744.82	744.04	-0.78
1967/04/09	743.78	743.72	-0.06
1967/07/01	744.43	743.97	-0.46
1968/08/24	744.55	744.00	-0.55
1969/04/13	743.14	743.10	-0.04
1969/06/15	744.21	743.87	-0.34
1969/08/01	742.70	742.67	-0.03
1969/10/25	745.03	744.29	-0.73
1970/05/20	744.02	743.80	-0.22

1970/12/18	743.08	742.96	-0.12
1971/03/04	742.92	742.85	-0.07
1971/08/28	743.72	743.66	-0.06
1972/03/21	743.45	743.41	-0.05
1972/04/27	744.61	744.16	-0.45
1972/09/01	744.48	744.16	-0.32
1972/10/05	744.70	744.16	-0.54
1973/01/08	745.03	744.21	-0.83
1973/05/08	743.48	743.47	-0.01
1974/02/28	744.22	743.87	-0.34
1974/04/21	743.03	742.94	-0.09
1974/05/25	743.35	743.32	-0.04
1975/01/16	744.13	743.85	-0.28
1975/05/05	743.83	743.73	-0.10
1975/09/08	744.77	744.09	-0.68
1976/03/21	744.38	743.99	-0.39
1977/07/05	743.38	743.28	-0.10
1977/08/13	743.21	743.09	-0.12
1977/09/07	742.99	742.86	-0.12
1978/04/02	742.55	742.55	0.00
1978/05/21	743.07	743.05	-0.02
1978/07/09	744.15	743.85	-0.30
1978/09/25	744.72	744.01	-0.71
1979/04/18	745.23	744.24	-1.00
1979/09/05	743.97	743.79	-0.18
1980/01/21	742.14	742.13	0.00
1980/08/26	744.48	744.06	-0.42
1980/09/26	743.39	743.29	-0.10
1981/05/03	744.00	743.80	-0.20
1981/06/05	744.80	744.29	-0.51
1981/06/21	743.21	743.15	-0.06
1981/08/23	744.03	743.86	-0.17
1982/03/28	744.46	744.05	-0.41
1982/07/31	744.33	743.94	-0.39
1982/08/14	744.16	743.85	-0.31
1982/12/12	745.75	745.28	-0.47
1983/01/04	744.52	743.98	-0.54
1983/04/22	745.00	744.07	-0.93
1983/06/04	743.68	743.59	-0.09
1983/07/09	744.01	743.84	-0.17
1983/12/05	744.64	744.03	-0.61
1984/02/25	744.44	743.98	-0.47
1984/04/03	743.77	743.66	-0.11
1985/03/19	745.45	744.61	-0.84
1985/12/11	744.24	743.87	-0.38
1986/07/19	743.21	743.14	-0.08
1986/10/10	744.22	743.96	-0.27
1987/09/06	747.76	747.18	-0.58
1988/01/01	743.46	743.39	-0.07
1988/02/07	743.03	743.00	-0.03
1988/04/13	742.93	742.88	-0.05
1988/10/26	744.64	744.15	-0.49
1989/08/18	745.04	744.41	-0.63
1989/09/18	744.23	743.86	-0.37
1990/03/16	744.35	743.94	-0.41
1990/05/19	744.72	744.04	-0.68
1990/08/28	744.61	744.27	-0.34
1990/12/10	744.51	744.01	-0.51
1991/04/23	743.75	743.70	-0.05
1991/06/02	743.40	743.29	-0.11
1991/10/09	744.17	743.87	-0.30

1991/11/08	743.27	743.21	-0.06
1991/12/18	742.80	742.76	-0.03
1992/09/21	743.12	743.05	-0.07
1993/01/11	743.74	743.72	-0.03
1993/04/29	744.47	743.99	-0.48
1993/07/06	744.35	743.98	-0.37
1994/03/13	744.21	743.91	-0.30
1994/07/02	744.70	744.03	-0.67
1994/08/24	743.01	742.95	-0.05
1995/01/25	743.87	743.75	-0.12
1995/05/06	743.96	743.79	-0.17
1995/08/24	743.32	743.30	-0.02
1995/11/18	744.02	743.80	-0.22
1996/06/27	743.88	743.76	-0.12
1996/08/05	743.86	743.75	-0.11
1997/03/06	745.51	744.68	-0.83
1998/03/25	743.39	743.37	-0.02
1998/05/15	743.65	743.65	0.00
1998/08/15	744.06	743.87	-0.19
1998/09/14	742.58	742.48	-0.10
1998/10/25	744.15	743.82	-0.33
1999/02/09	744.77	744.08	-0.69
1999/05/06	744.51	744.07	-0.43
2000/04/28	744.57	744.17	-0.40
2001/03/02	744.12	743.84	-0.28
2001/09/06	745.53	744.89	-0.64
2001/09/30	744.11	743.85	-0.26
2001/10/31	745.32	744.44	-0.88
2002/03/15	743.60	743.55	-0.05
2002/05/22	743.76	743.69	-0.07
2002/07/14	743.57	743.48	-0.08
2002/08/29	745.15	744.27	-0.88
2003/05/19	744.21	743.85	-0.36
2003/08/13	742.78	742.70	-0.08
2003/11/29	743.15	743.08	-0.06
2004/03/11	742.88	742.81	-0.07
2004/06/18	743.57	743.51	-0.06
2005/01/18	744.38	743.94	-0.44
2006/03/18	743.21	743.20	-0.01
2006/07/03	742.99	742.88	-0.11
2006/09/29	743.57	743.50	-0.06
2006/10/09	742.99	742.86	-0.13
2007/03/15	744.19	743.89	-0.30
2007/08/31	744.58	744.18	-0.41
2008/03/09	744.50	743.97	-0.52
2008/05/18	742.49	742.45	-0.05
2008/09/23	747.00	746.20	-0.80
Max Elev	747.76	747.18	
StormEvent	1987/09/06	1987/09/06	

Klein Creek, Carol Stream (CBBEL Project No. 09-0321)
Comparison of Peak Water Surface Elevations
at
18:1809 Mainstem at Armstrong Pk
12. Branch# 18; Node ID: D18 ; Station: 3.5770

	(1) V10Base.pek	(2) prop6c3.pek	2-1
Nodes ==>	1809	1809	
1925/01/02	742.02	741.99	-0.03
1949/04/08	744.63	744.17	-0.46
1949/06/21	745.31	744.50	-0.81
1949/07/27	744.36	744.13	-0.23
1949/12/31	745.20	744.31	-0.88
1950/01/31	744.55	744.16	-0.39
1950/05/03	745.54	744.57	-0.97
1950/06/11	745.27	744.38	-0.89
1951/03/09	744.53	744.16	-0.37
1951/05/17	744.82	744.22	-0.60
1951/07/29	744.43	744.13	-0.30
1952/01/25	744.95	744.25	-0.69
1952/03/28	743.92	743.91	-0.01
1953/03/23	744.33	744.11	-0.21
1953/06/16	743.94	743.91	-0.03
1953/07/28	745.27	744.45	-0.82
1954/04/05	745.86	744.95	-0.91
1954/05/08	745.24	744.34	-0.90
1954/08/29	744.53	744.15	-0.38
1954/10/25	746.64	745.61	-1.03
1955/03/09	743.32	743.31	-0.01
1956/05/18	744.60	744.16	-0.44
1957/01/27	743.77	743.71	-0.06
1957/03/04	745.16	744.32	-0.84
1957/07/28	747.20	746.33	-0.87
1958/04/30	744.46	744.14	-0.32
1958/06/19	744.02	744.00	-0.02
1958/07/11	743.47	743.43	-0.03
1959/04/07	743.07	743.08	0.01
1959/07/27	742.68	742.67	-0.01
1960/01/21	744.19	744.07	-0.12
1960/04/04	742.15	742.15	0.00
1961/08/09	744.05	744.03	-0.02
1961/10/06	745.85	744.91	-0.94
1962/04/15	743.13	743.13	0.00
1962/07/08	744.55	744.16	-0.39
1963/05/07	744.06	744.03	-0.03
1964/04/12	743.90	743.88	-0.02
1964/07/25	744.14	744.06	-0.08
1965/03/22	744.16	744.07	-0.09
1966/02/15	743.94	743.90	-0.03
1966/05/18	745.14	744.30	-0.84
1967/04/09	744.11	744.05	-0.06
1967/07/01	744.82	744.22	-0.60
1968/08/24	744.93	744.25	-0.69
1969/04/13	743.47	743.47	0.00
1969/06/15	744.57	744.15	-0.42
1969/08/01	743.01	742.99	-0.02
1969/10/25	745.35	744.41	-0.94
1970/05/20	744.37	744.10	-0.27

1970/12/18	743.41	743.34	-0.06
1971/03/04	743.21	743.12	-0.09
1971/08/28	744.11	744.06	-0.05
1972/03/21	743.78	743.78	0.00
1972/04/27	744.98	744.27	-0.72
1972/09/01	744.86	744.22	-0.64
1972/10/05	745.04	744.27	-0.76
1973/01/08	745.37	744.38	-0.99
1973/05/08	743.83	743.82	-0.01
1974/02/28	744.57	744.16	-0.42
1974/04/21	743.29	743.21	-0.08
1974/05/25	743.68	743.66	-0.02
1975/01/16	744.46	744.13	-0.33
1975/05/05	744.18	744.09	-0.09
1975/09/08	745.11	744.30	-0.81
1976/03/21	744.75	744.21	-0.53
1977/07/05	743.73	743.66	-0.07
1977/08/13	743.54	743.47	-0.07
1977/09/07	743.30	743.21	-0.09
1978/04/02	742.94	742.94	0.00
1978/05/21	743.43	743.42	-0.02
1978/07/09	744.49	744.13	-0.36
1978/09/25	745.04	744.27	-0.76
1979/04/18	745.58	744.46	-1.11
1979/09/05	744.33	744.11	-0.22
1980/01/21	742.53	742.53	0.00
1980/08/26	744.86	744.23	-0.63
1980/09/26	743.72	743.66	-0.06
1981/05/03	744.34	744.09	-0.25
1981/06/05	745.17	744.34	-0.83
1981/06/21	743.55	743.51	-0.04
1981/08/23	744.37	744.11	-0.26
1982/03/28	744.83	744.23	-0.60
1982/07/31	744.70	744.18	-0.52
1982/08/14	744.49	744.13	-0.36
1982/12/12	746.10	745.46	-0.64
1983/01/04	744.86	744.23	-0.63
1983/04/22	745.34	744.34	-1.00
1983/06/04	743.96	743.93	-0.03
1983/07/09	744.35	744.12	-0.24
1983/12/05	744.98	744.26	-0.72
1984/02/25	744.76	744.22	-0.54
1984/04/03	744.10	744.03	-0.06
1985/03/19	745.77	744.81	-0.96
1985/12/11	744.61	744.16	-0.46
1986/07/19	743.52	743.48	-0.03
1986/10/10	744.59	744.15	-0.44
1987/09/06	748.04	747.39	-0.65
1988/01/01	743.82	743.77	-0.04
1988/02/07	743.37	743.36	-0.02
1988/04/13	743.29	743.25	-0.03
1988/10/26	745.02	744.27	-0.75
1989/08/18	745.36	744.42	-0.93
1989/09/18	744.63	744.16	-0.46
1990/03/16	744.68	744.17	-0.51
1990/05/19	745.05	744.28	-0.77
1990/08/28	744.98	744.29	-0.69
1990/12/10	744.86	744.23	-0.63
1991/04/23	744.10	744.05	-0.05
1991/06/02	743.72	743.66	-0.06
1991/10/09	744.53	744.14	-0.39

1991/11/08	743.59	743.57	-0.02
1991/12/18	743.07	743.04	-0.03
1992/09/21	743.45	743.41	-0.03
1993/01/11	744.09	744.04	-0.04
1993/04/29	744.81	744.22	-0.59
1993/07/06	744.70	744.19	-0.51
1994/03/13	744.54	744.15	-0.39
1994/07/02	745.05	744.28	-0.77
1994/08/24	743.35	743.31	-0.03
1995/01/25	744.23	744.08	-0.15
1995/05/06	744.29	744.09	-0.21
1995/08/24	743.66	743.65	-0.01
1995/11/18	744.37	744.10	-0.27
1996/06/27	744.23	744.09	-0.14
1996/08/05	744.21	744.08	-0.13
1997/03/06	745.87	744.90	-0.98
1998/03/25	743.73	743.72	-0.01
1998/05/15	744.03	744.02	-0.01
1998/08/15	744.43	744.14	-0.29
1998/09/14	742.83	742.78	-0.05
1998/10/25	744.51	744.13	-0.38
1999/02/09	745.06	744.29	-0.78
1999/05/06	744.85	744.25	-0.61
2000/04/28	744.90	744.25	-0.65
2001/03/02	744.45	744.13	-0.33
2001/09/06	745.84	744.99	-0.85
2001/09/30	744.47	744.13	-0.34
2001/10/31	745.68	744.52	-1.16
2002/03/15	743.89	743.87	-0.02
2002/05/22	744.13	744.06	-0.07
2002/07/14	743.94	743.88	-0.05
2002/08/29	745.49	744.44	-1.05
2003/05/19	744.55	744.14	-0.41
2003/08/13	743.05	743.01	-0.04
2003/11/29	743.46	743.43	-0.03
2004/03/11	743.21	743.16	-0.05
2004/06/18	743.88	743.85	-0.04
2005/01/18	744.72	744.20	-0.52
2006/03/18	743.56	743.55	-0.01
2006/07/03	743.33	743.26	-0.06
2006/09/29	743.88	743.85	-0.04
2006/10/09	743.29	743.16	-0.13
2007/03/15	744.52	744.15	-0.37
2007/08/31	744.91	744.26	-0.66
2008/03/09	744.83	744.23	-0.60
2008/05/18	742.77	742.75	-0.02
2008/09/23	747.29	746.43	-0.87
Max Elev	748.04	747.39	
StormEvent	1987/09/06	1987/09/06	

Klein Creek, Carol Stream (CBBEL Project No. 09-0321)
Comparison of Peak Water Surface Elevations
at
19:1907 Mainstem at Mitch Lake 1
13. Branch# 19; Node ID: D19 ; Station: 3.7310

	(1) V10Base.pek	(2) prop6c3.pek	2-1
Nodes ==>	1907	1907	
1925/01/02	742.84	742.84	0.00
1949/04/08	745.69	745.48	-0.21
1949/06/21	747.28	746.87	-0.41
1949/07/27	745.36	745.21	-0.15
1949/12/31	746.72	746.31	-0.40
1950/01/31	745.63	745.43	-0.20
1950/05/03	747.46	746.96	-0.51
1950/06/11	746.98	746.60	-0.38
1951/03/09	745.59	745.40	-0.19
1951/05/17	746.20	745.91	-0.29
1951/07/29	745.49	745.32	-0.17
1952/01/25	746.28	745.97	-0.30
1952/03/28	744.74	744.74	-0.01
1953/03/23	745.26	745.15	-0.10
1953/06/16	744.78	744.77	-0.01
1953/07/28	747.16	746.74	-0.41
1954/04/05	748.45	747.91	-0.53
1954/05/08	747.04	746.64	-0.40
1954/08/29	745.69	745.48	-0.21
1954/10/25	749.30	749.10	-0.20
1955/03/09	744.07	744.06	-0.01
1956/05/18	745.68	745.46	-0.22
1957/01/27	744.46	744.44	-0.02
1957/03/04	746.89	746.52	-0.37
1957/07/28	749.75	749.66	-0.08
1958/04/30	745.56	745.38	-0.18
1958/06/19	744.90	744.90	-0.01
1958/07/11	744.19	744.19	0.00
1959/04/07	743.86	743.86	0.00
1959/07/27	743.47	743.47	0.00
1960/01/21	745.18	745.12	-0.07
1960/04/04	743.06	743.06	0.00
1961/08/09	744.98	744.98	-0.01
1961/10/06	748.15	747.60	-0.56
1962/04/15	743.88	743.88	0.00
1962/07/08	745.67	745.45	-0.22
1963/05/07	744.93	744.92	-0.02
1964/04/12	744.76	744.76	0.00
1964/07/25	745.01	744.97	-0.03
1965/03/22	745.03	745.00	-0.03
1966/02/15	744.75	744.74	-0.01
1966/05/18	746.70	746.32	-0.38
1967/04/09	744.97	744.95	-0.02
1967/07/01	746.19	745.90	-0.29
1968/08/24	746.38	746.07	-0.30
1969/04/13	744.30	744.30	0.00
1969/06/15	745.74	745.53	-0.21
1969/08/01	743.73	743.73	0.00
1969/10/25	747.45	747.03	-0.42
1970/05/20	745.40	745.27	-0.14

1970/12/18	744.17	744.16	-0.01
1971/03/04	743.84	743.82	-0.01
1971/08/28	744.94	744.92	-0.02
1972/03/21	744.64	744.64	-0.01
1972/04/27	746.52	746.20	-0.32
1972/09/01	746.28	745.99	-0.29
1972/10/05	746.50	746.16	-0.34
1973/01/08	747.34	746.91	-0.42
1973/05/08	744.67	744.67	0.00
1974/02/28	745.66	745.46	-0.21
1974/04/21	743.99	743.98	-0.01
1974/05/25	744.42	744.41	-0.01
1975/01/16	745.56	745.40	-0.15
1975/05/05	745.07	745.02	-0.04
1975/09/08	746.74	746.39	-0.35
1976/03/21	745.80	745.51	-0.29
1977/07/05	744.47	744.46	-0.01
1977/08/13	744.28	744.27	-0.01
1977/09/07	743.97	743.95	-0.02
1978/04/02	743.73	743.73	0.00
1978/05/21	744.20	744.19	-0.01
1978/07/09	745.58	745.40	-0.18
1978/09/25	746.63	746.29	-0.34
1979/04/18	747.64	747.13	-0.50
1979/09/05	745.38	745.26	-0.13
1980/01/21	743.35	743.35	0.00
1980/08/26	746.26	745.97	-0.29
1980/09/26	744.51	744.50	-0.01
1981/05/03	745.37	745.25	-0.12
1981/06/05	746.91	746.54	-0.37
1981/06/21	744.35	744.34	-0.01
1981/08/23	745.35	745.22	-0.14
1982/03/28	745.94	745.68	-0.26
1982/07/31	745.95	745.69	-0.26
1982/08/14	745.56	745.39	-0.16
1982/12/12	748.83	748.36	-0.47
1983/01/04	746.18	745.89	-0.29
1983/04/22	746.95	746.47	-0.47
1983/06/04	744.84	744.83	-0.01
1983/07/09	745.34	745.21	-0.13
1983/12/05	746.45	746.12	-0.32
1984/02/25	745.90	745.66	-0.24
1984/04/03	744.89	744.87	-0.02
1985/03/19	747.86	747.32	-0.54
1985/12/11	745.80	745.57	-0.23
1986/07/19	744.18	744.18	-0.01
1986/10/10	745.81	745.57	-0.24
1987/09/06	750.12	750.09	-0.03
1988/01/01	744.64	744.62	-0.01
1988/02/07	744.10	744.10	0.00
1988/04/13	744.01	744.00	-0.01
1988/10/26	746.56	746.23	-0.33
1989/08/18	747.24	746.80	-0.43
1989/09/18	745.83	745.59	-0.25
1990/03/16	745.87	745.61	-0.25
1990/05/19	746.65	746.31	-0.34
1990/08/28	746.51	746.20	-0.31
1990/12/10	746.19	745.91	-0.28
1991/04/23	745.01	744.99	-0.02
1991/06/02	744.44	744.43	-0.01
1991/10/09	745.63	745.42	-0.20

1991/11/08	744.34	744.33	0.00
1991/12/18	743.74	743.73	0.00
1992/09/21	744.17	744.17	0.00
1993/01/11	744.96	744.94	-0.01
1993/04/29	746.05	745.77	-0.27
1993/07/06	745.90	745.64	-0.26
1994/03/13	745.56	745.37	-0.19
1994/07/02	746.57	746.24	-0.33
1994/08/24	744.07	744.07	0.00
1995/01/25	745.11	745.04	-0.07
1995/05/06	745.30	745.20	-0.10
1995/08/24	744.44	744.44	0.00
1995/11/18	745.38	745.25	-0.14
1996/06/27	745.25	745.17	-0.08
1996/08/05	745.10	745.04	-0.06
1997/03/06	748.33	747.77	-0.56
1998/03/25	744.54	744.53	0.00
1998/05/15	744.96	744.95	-0.01
1998/08/15	745.39	745.22	-0.16
1998/09/14	743.44	743.44	0.00
1998/10/25	745.64	745.45	-0.19
1999/02/09	746.40	746.03	-0.36
1999/05/06	746.21	745.90	-0.30
2000/04/28	746.28	745.97	-0.31
2001/03/02	745.61	745.44	-0.16
2001/09/06	748.33	747.76	-0.57
2001/09/30	745.61	745.42	-0.19
2001/10/31	747.94	747.42	-0.52
2002/03/15	744.63	744.62	-0.01
2002/05/22	745.04	745.02	-0.02
2002/07/14	744.71	744.69	-0.02
2002/08/29	747.68	747.22	-0.46
2003/05/19	745.67	745.48	-0.19
2003/08/13	743.72	743.72	0.00
2003/11/29	744.23	744.23	0.00
2004/03/11	743.96	743.95	-0.01
2004/06/18	744.59	744.59	-0.01
2005/01/18	745.86	745.62	-0.24
2006/03/18	744.29	744.29	-0.01
2006/07/03	744.02	744.01	-0.01
2006/09/29	744.57	744.56	-0.01
2006/10/09	743.94	743.93	-0.01
2007/03/15	745.58	745.41	-0.16
2007/08/31	746.28	745.97	-0.31
2008/03/09	746.06	745.77	-0.29
2008/05/18	743.46	743.46	0.00
2008/09/23	749.73	749.64	-0.09
Max Elev	750.12	750.09	
StormEvent	1987/09/06	1987/09/06	

Klein Creek, Carol Stream (CBBEL Project No. 09-0321)
Comparison of Peak Water Surface Elevations
at
21:2105 Mainstem US Elk Trail
14. Branch# 21; Node ID: D21 ; Station: 4.2190

	(1) V10Base.pek	(2) prop6c3.pek	2-1
Nodes ==>	2105	2105	
1925/01/02	744.68	744.68	0.00
1949/04/08	746.49	746.49	0.00
1949/06/21	748.42	748.05	-0.37
1949/07/27	746.38	746.38	0.00
1949/12/31	747.51	747.12	-0.39
1950/01/31	746.51	746.51	0.00
1950/05/03	748.57	748.13	-0.44
1950/06/11	747.97	747.58	-0.39
1951/03/09	746.45	746.45	0.00
1951/05/17	746.82	746.73	-0.09
1951/07/29	746.47	746.47	0.00
1952/01/25	747.00	746.85	-0.15
1952/03/28	745.96	745.96	0.00
1953/03/23	746.33	746.33	0.00
1953/06/16	746.08	746.08	0.00
1953/07/28	748.26	747.86	-0.40
1954/04/05	750.06	749.60	-0.46
1954/05/08	747.98	747.59	-0.39
1954/08/29	746.53	746.53	0.00
1954/10/25	751.47	751.31	-0.16
1955/03/09	745.53	745.53	0.00
1956/05/18	746.42	746.42	0.00
1957/01/27	745.83	745.83	0.00
1957/03/04	747.85	747.45	-0.40
1957/07/28	752.32	752.27	-0.05
1958/04/30	746.51	746.51	0.00
1958/06/19	746.17	746.17	0.00
1958/07/11	745.68	745.68	0.00
1959/04/07	745.46	745.46	0.00
1959/07/27	745.17	745.17	0.00
1960/01/21	746.25	746.25	0.00
1960/04/04	744.82	744.82	0.00
1961/08/09	746.16	746.16	0.00
1961/10/06	749.55	749.08	-0.47
1962/04/15	745.42	745.42	0.00
1962/07/08	746.58	746.58	0.00
1963/05/07	746.17	746.16	0.00
1964/04/12	746.04	746.04	0.00
1964/07/25	746.21	746.21	0.00
1965/03/22	746.17	746.17	0.00
1966/02/15	745.97	745.97	0.00
1966/05/18	747.51	747.14	-0.37
1967/04/09	746.10	746.10	0.00
1967/07/01	746.88	746.85	-0.03
1968/08/24	747.13	746.96	-0.17
1969/04/13	745.73	745.73	0.00
1969/06/15	746.52	746.52	0.00
1969/08/01	745.37	745.37	0.00
1969/10/25	748.67	748.27	-0.39
1970/05/20	746.35	746.35	0.00

1970/12/18	745.66	745.66	0.00
1971/03/04	745.41	745.41	0.00
1971/08/28	746.17	746.17	0.00
1972/03/21	745.94	745.94	0.00
1972/04/27	747.32	747.03	-0.29
1972/09/01	747.00	746.89	-0.11
1972/10/05	747.23	746.94	-0.29
1973/01/08	748.42	748.07	-0.36
1973/05/08	745.97	745.97	0.00
1974/02/28	746.49	746.49	0.00
1974/04/21	745.53	745.53	0.00
1974/05/25	745.76	745.76	0.00
1975/01/16	746.43	746.43	0.00
1975/05/05	746.21	746.21	0.00
1975/09/08	747.58	747.22	-0.36
1976/03/21	746.52	746.52	0.00
1977/07/05	745.88	745.88	0.00
1977/08/13	745.78	745.77	0.00
1977/09/07	745.53	745.53	0.00
1978/04/02	745.33	745.33	0.00
1978/05/21	745.66	745.66	0.00
1978/07/09	746.41	746.41	0.00
1978/09/25	747.41	747.08	-0.33
1979/04/18	748.83	748.39	-0.44
1979/09/05	746.38	746.38	0.00
1980/01/21	745.07	745.07	0.00
1980/08/26	746.96	746.87	-0.09
1980/09/26	745.89	745.89	0.00
1981/05/03	746.34	746.34	0.00
1981/06/05	747.91	747.50	-0.41
1981/06/21	745.78	745.78	0.00
1981/08/23	746.35	746.35	0.00
1982/03/28	746.52	746.48	-0.04
1982/07/31	746.67	746.66	-0.01
1982/08/14	746.41	746.41	0.00
1982/12/12	750.64	750.23	-0.41
1983/01/04	746.84	746.76	-0.07
1983/04/22	747.78	747.31	-0.47
1983/06/04	746.10	746.10	0.00
1983/07/09	746.35	746.35	0.00
1983/12/05	747.18	746.92	-0.27
1984/02/25	746.60	746.58	-0.02
1984/04/03	746.13	746.13	0.00
1985/03/19	749.02	748.54	-0.47
1985/12/11	746.57	746.57	0.00
1986/07/19	745.65	745.65	0.00
1986/10/10	746.59	746.58	0.00
1987/09/06	753.10	753.09	-0.01
1988/01/01	745.97	745.97	0.00
1988/02/07	745.61	745.61	0.00
1988/04/13	745.53	745.53	0.00
1988/10/26	747.38	747.08	-0.30
1989/08/18	748.34	747.95	-0.39
1989/09/18	746.62	746.62	0.00
1990/03/16	746.59	746.58	-0.01
1990/05/19	747.47	747.13	-0.34
1990/08/28	747.32	747.04	-0.27
1990/12/10	746.83	746.77	-0.06
1991/04/23	746.16	746.16	0.00
1991/06/02	745.80	745.80	0.00
1991/10/09	746.51	746.51	0.00

1991/11/08	745.75	745.75	0.00
1991/12/18	745.36	745.36	0.00
1992/09/21	745.69	745.69	0.00
1993/01/11	746.07	746.07	0.00
1993/04/29	746.71	746.66	-0.05
1993/07/06	746.62	746.61	-0.01
1994/03/13	746.45	746.45	0.00
1994/07/02	747.37	747.07	-0.30
1994/08/24	745.62	745.62	0.00
1995/01/25	746.21	746.21	0.00
1995/05/06	746.31	746.32	0.00
1995/08/24	745.81	745.81	0.00
1995/11/18	746.37	746.38	0.00
1996/06/27	746.31	746.31	0.00
1996/08/05	746.19	746.19	0.00
1997/03/06	749.90	749.41	-0.49
1998/03/25	745.85	745.85	0.00
1998/05/15	746.11	746.11	0.00
1998/08/15	746.40	746.40	0.00
1998/09/14	745.15	745.15	0.00
1998/10/25	746.47	746.47	0.00
1999/02/09	747.07	746.78	-0.29
1999/05/06	746.84	746.73	-0.11
2000/04/28	746.93	746.75	-0.18
2001/03/02	746.46	746.46	0.00
2001/09/06	749.89	749.38	-0.51
2001/09/30	746.48	746.48	0.00
2001/10/31	749.27	748.82	-0.45
2002/03/15	745.88	745.88	0.00
2002/05/22	746.22	746.22	0.00
2002/07/14	746.03	746.03	0.00
2002/08/29	748.93	748.53	-0.40
2003/05/19	746.46	746.46	0.00
2003/08/13	745.34	745.34	0.00
2003/11/29	745.69	745.69	0.00
2004/03/11	745.53	745.53	0.00
2004/06/18	745.88	745.88	0.00
2005/01/18	746.55	746.53	-0.02
2006/03/18	745.67	745.67	0.00
2006/07/03	745.58	745.58	0.00
2006/09/29	745.84	745.84	0.00
2006/10/09	745.51	745.51	0.00
2007/03/15	746.45	746.45	0.00
2007/08/31	746.95	746.78	-0.17
2008/03/09	746.72	746.67	-0.05
2008/05/18	745.15	745.15	0.00
2008/09/23	752.22	752.16	-0.06
Max Elev	753.10	753.09	
StormEvent	1987/09/06	1987/09/06	

Klein Creek, Carol Stream (CBBEL Project No. 09-0321)
Comparison of Peak Water Surface Elevations
at
123:2308 Mainstem US Fountain Vw Rd
15. Branch# 123; Node ID: D123 ; Station: 4.6070

	(1) V10Base.pek	(2) prop6c3.pek	2-1
Nodes ==>	2308	2308	
1925/01/02	746.44	746.43	0.00
1949/04/08	747.91	747.91	0.00
1949/06/21	749.11	748.95	-0.16
1949/07/27	747.81	747.81	0.00
1949/12/31	748.38	748.31	-0.07
1950/01/31	747.94	747.94	0.00
1950/05/03	749.17	748.96	-0.20
1950/06/11	748.76	748.65	-0.11
1951/03/09	747.86	747.86	0.00
1951/05/17	748.13	748.13	0.00
1951/07/29	747.92	747.92	0.00
1952/01/25	748.27	748.27	0.00
1952/03/28	747.43	747.43	0.00
1953/03/23	747.74	747.74	0.00
1953/06/16	747.57	747.57	0.00
1953/07/28	749.01	748.87	-0.14
1954/04/05	750.50	750.15	-0.35
1954/05/08	748.71	748.61	-0.10
1954/08/29	747.95	747.95	0.00
1954/10/25	751.93	751.76	-0.17
1955/03/09	747.00	746.99	0.00
1956/05/18	747.85	747.85	0.00
1957/01/27	747.34	747.34	0.00
1957/03/04	748.72	748.62	-0.10
1957/07/28	753.26	753.20	-0.06
1958/04/30	747.96	747.96	0.00
1958/06/19	747.66	747.66	0.00
1958/07/11	747.19	747.19	0.00
1959/04/07	746.97	746.97	0.00
1959/07/27	746.72	746.72	0.00
1960/01/21	747.71	747.71	0.00
1960/04/04	746.34	746.34	0.00
1961/08/09	747.64	747.64	0.00
1961/10/06	750.01	749.68	-0.33
1962/04/15	746.89	746.89	0.00
1962/07/08	748.06	748.06	0.00
1963/05/07	747.66	747.66	0.00
1964/04/12	747.52	747.52	0.00
1964/07/25	747.71	747.71	0.00
1965/03/22	747.64	747.63	0.00
1966/02/15	747.44	747.44	0.00
1966/05/18	748.42	748.37	-0.05
1967/04/09	747.55	747.55	0.00
1967/07/01	748.30	748.30	0.00
1968/08/24	748.42	748.42	0.00
1969/04/13	747.22	747.22	0.00
1969/06/15	747.95	747.95	0.00
1969/08/01	746.90	746.90	0.00
1969/10/25	749.30	749.10	-0.21
1970/05/20	747.79	747.79	0.00

1970/12/18	747.16	747.16	0.00
1971/03/04	746.91	746.91	0.00
1971/08/28	747.66	747.66	0.00
1972/03/21	747.41	747.41	0.00
1972/04/27	748.45	748.45	0.00
1972/09/01	748.33	748.33	0.00
1972/10/05	748.30	748.30	0.00
1973/01/08	749.05	748.90	-0.16
1973/05/08	747.45	747.45	0.00
1974/02/28	747.90	747.90	0.00
1974/04/21	747.04	747.04	0.00
1974/05/25	747.22	747.22	0.00
1975/01/16	747.83	747.83	0.00
1975/05/05	747.63	747.63	0.00
1975/09/08	748.54	748.50	-0.04
1976/03/21	747.93	747.93	0.00
1977/07/05	747.40	747.40	0.00
1977/08/13	747.31	747.31	0.00
1977/09/07	747.06	747.06	0.00
1978/04/02	746.82	746.82	0.00
1978/05/21	747.16	747.16	0.00
1978/07/09	747.84	747.84	0.00
1978/09/25	748.41	748.41	0.00
1979/04/18	749.39	749.15	-0.25
1979/09/05	747.84	747.84	0.00
1980/01/21	746.59	746.59	0.00
1980/08/26	748.31	748.31	0.00
1980/09/26	747.40	747.40	0.00
1981/05/03	747.78	747.78	0.00
1981/06/05	748.79	748.69	-0.10
1981/06/21	747.27	747.27	0.00
1981/08/23	747.79	747.79	0.00
1982/03/28	747.89	747.89	0.00
1982/07/31	748.08	748.08	0.00
1982/08/14	747.84	747.84	0.00
1982/12/12	751.05	750.71	-0.34
1983/01/04	748.17	748.17	0.00
1983/04/22	748.51	748.39	-0.12
1983/06/04	747.56	747.55	0.00
1983/07/09	747.80	747.79	0.00
1983/12/05	748.31	748.31	0.00
1984/02/25	747.96	747.96	0.00
1984/04/03	747.56	747.56	0.00
1985/03/19	749.48	749.20	-0.28
1985/12/11	748.01	748.01	0.00
1986/07/19	747.15	747.15	0.00
1986/10/10	748.00	748.00	0.00
1987/09/06	754.59	754.58	-0.01
1988/01/01	747.47	747.47	0.00
1988/02/07	747.11	747.11	0.00
1988/04/13	747.02	747.02	0.00
1988/10/26	748.51	748.51	0.00
1989/08/18	749.06	748.90	-0.16
1989/09/18	748.05	748.05	0.00
1990/03/16	747.97	747.97	0.00
1990/05/19	748.43	748.42	-0.02
1990/08/28	748.48	748.48	0.00
1990/12/10	748.17	748.17	0.00
1991/04/23	747.60	747.60	0.00
1991/06/02	747.29	747.29	0.00
1991/10/09	748.00	748.00	0.00

1991/11/08	747.26	747.26	0.00
1991/12/18	746.87	746.87	0.00
1992/09/21	747.22	747.22	0.00
1993/01/11	747.49	747.49	0.00
1993/04/29	748.05	748.05	0.00
1993/07/06	748.02	748.02	0.00
1994/03/13	747.87	747.87	0.00
1994/07/02	748.46	748.46	0.00
1994/08/24	747.15	747.15	0.00
1995/01/25	747.67	747.67	0.00
1995/05/06	747.76	747.76	0.00
1995/08/24	747.30	747.30	0.00
1995/11/18	747.85	747.85	0.00
1996/06/27	747.76	747.76	0.00
1996/08/05	747.68	747.68	0.00
1997/03/06	750.36	749.99	-0.37
1998/03/25	747.29	747.29	0.00
1998/05/15	747.57	747.57	0.00
1998/08/15	747.88	747.88	0.00
1998/09/14	746.69	746.69	0.00
1998/10/25	747.92	747.92	0.00
1999/02/09	748.13	748.12	-0.01
1999/05/06	748.12	748.12	0.00
2000/04/28	748.14	748.14	0.00
2001/03/02	747.86	747.86	0.00
2001/09/06	750.35	749.97	-0.38
2001/09/30	747.93	747.93	0.00
2001/10/31	749.77	749.48	-0.30
2002/03/15	747.28	747.28	0.00
2002/05/22	747.69	747.69	0.00
2002/07/14	747.53	747.53	0.00
2002/08/29	749.50	749.26	-0.24
2003/05/19	747.93	747.93	0.00
2003/08/13	746.86	746.86	0.00
2003/11/29	747.21	747.21	0.00
2004/03/11	747.04	747.04	0.00
2004/06/18	747.39	747.38	0.00
2005/01/18	747.93	747.93	0.00
2006/03/18	747.14	747.14	0.00
2006/07/03	747.11	747.11	0.00
2006/09/29	747.34	747.34	0.00
2006/10/09	747.03	747.03	0.00
2007/03/15	747.84	747.84	0.00
2007/08/31	748.16	748.16	0.00
2008/03/09	748.05	748.05	0.00
2008/05/18	746.67	746.67	0.00
2008/09/23	753.05	752.99	-0.07
Max Elev	754.59	754.58	
StormEvent	1987/09/06	1987/09/06	

Klein Creek, Carol Stream (CBBEL Project No. 09-0321)
Comparison of Peak Water Surface Elevations
at
F92 Mainstem at Home Base
16. Branch# 99999; Node ID: HOMEBASE; Station: 0.0000

	(1) V10Base.pek	(2) prop6c3.pek	2-1
Nodes ==>	92	92	
1925/01/02	748.00	748.00	0.00
1949/04/08	749.45	749.45	0.00
1949/06/21	751.70	751.67	-0.03
1949/07/27	749.27	749.27	0.00
1949/12/31	750.24	750.22	-0.02
1950/01/31	749.49	749.49	0.00
1950/05/03	751.62	751.57	-0.05
1950/06/11	750.97	750.93	-0.04
1951/03/09	749.36	749.36	0.00
1951/05/17	749.83	749.83	0.00
1951/07/29	749.47	749.47	0.00
1952/01/25	750.14	750.14	-0.01
1952/03/28	748.95	748.95	0.00
1953/03/23	749.21	749.21	0.00
1953/06/16	749.03	749.03	0.00
1953/07/28	751.64	751.63	-0.01
1954/04/05	753.53	753.48	-0.05
1954/05/08	750.89	750.86	-0.03
1954/08/29	749.51	749.51	0.00
1954/10/25	754.28	754.21	-0.07
1955/03/09	748.60	748.60	0.00
1956/05/18	749.33	749.33	0.00
1957/01/27	748.83	748.83	0.00
1957/03/04	750.97	750.95	-0.01
1957/07/28	755.43	755.42	-0.01
1958/04/30	749.53	749.53	0.00
1958/06/19	749.11	749.11	0.00
1958/07/11	748.75	748.75	0.00
1959/04/07	748.60	748.60	0.00
1959/07/27	748.39	748.39	0.00
1960/01/21	749.14	749.14	0.00
1960/04/04	748.12	748.12	0.00
1961/08/09	749.07	749.07	0.00
1961/10/06	753.03	752.94	-0.09
1962/04/15	748.53	748.53	0.00
1962/07/08	749.72	749.72	0.00
1963/05/07	749.11	749.11	0.00
1964/04/12	748.99	748.99	0.00
1964/07/25	749.15	749.15	0.00
1965/03/22	749.10	749.10	0.00
1966/02/15	748.94	748.94	0.00
1966/05/18	750.35	750.34	-0.01
1967/04/09	749.00	749.00	0.00
1967/07/01	750.20	750.20	0.00
1968/08/24	750.47	750.47	0.00
1969/04/13	748.78	748.78	0.00
1969/06/15	749.50	749.50	0.00
1969/08/01	748.54	748.54	0.00
1969/10/25	752.06	752.02	-0.04
1970/05/20	749.24	749.24	0.00

1970/12/18	748.73	748.73	0.00
1971/03/04	748.55	748.55	0.00
1971/08/28	749.10	749.10	0.00
1972/03/21	748.90	748.90	0.00
1972/04/27	750.54	750.54	0.00
1972/09/01	750.27	750.27	0.00
1972/10/05	750.21	750.21	0.00
1973/01/08	751.36	751.30	-0.06
1973/05/08	748.94	748.94	0.00
1974/02/28	749.44	749.44	0.00
1974/04/21	748.65	748.65	0.00
1974/05/25	748.76	748.76	0.00
1975/01/16	749.32	749.32	0.00
1975/05/05	749.07	749.07	0.00
1975/09/08	750.66	750.65	-0.01
1976/03/21	749.48	749.48	0.00
1977/07/05	748.90	748.90	0.00
1977/08/13	748.84	748.84	0.00
1977/09/07	748.60	748.60	0.00
1978/04/02	748.48	748.48	0.00
1978/05/21	748.69	748.69	0.00
1978/07/09	749.32	749.32	0.00
1978/09/25	750.44	750.44	0.00
1979/04/18	751.96	751.89	-0.08
1979/09/05	749.33	749.33	0.00
1980/01/21	748.29	748.29	0.00
1980/08/26	750.23	750.22	0.00
1980/09/26	748.89	748.89	0.00
1981/05/03	749.25	749.25	0.00
1981/06/05	751.15	751.15	0.00
1981/06/21	748.80	748.80	0.00
1981/08/23	749.26	749.26	0.00
1982/03/28	749.42	749.42	0.00
1982/07/31	749.75	749.75	0.00
1982/08/14	749.31	749.32	0.00
1982/12/12	753.78	753.73	-0.05
1983/01/04	749.93	749.93	0.00
1983/04/22	750.40	750.35	-0.04
1983/06/04	749.01	749.01	0.00
1983/07/09	749.27	749.27	0.00
1983/12/05	750.22	750.22	0.00
1984/02/25	749.55	749.55	0.00
1984/04/03	749.03	749.03	0.00
1985/03/19	752.17	752.10	-0.07
1985/12/11	749.61	749.61	0.00
1986/07/19	748.67	748.67	0.00
1986/10/10	749.60	749.60	0.00
1987/09/06	756.42	756.41	-0.01
1988/01/01	748.96	748.96	0.00
1988/02/07	748.70	748.70	0.00
1988/04/13	748.61	748.61	0.00
1988/10/26	750.68	750.68	0.00
1989/08/18	751.69	751.67	-0.02
1989/09/18	749.70	749.70	0.00
1990/03/16	749.56	749.56	0.00
1990/05/19	750.46	750.46	0.00
1990/08/28	750.62	750.62	0.00
1990/12/10	749.93	749.93	0.00
1991/04/23	749.06	749.06	0.00
1991/06/02	748.81	748.81	0.00
1991/10/09	749.59	749.59	0.00

1991/11/08	748.79	748.79	0.00
1991/12/18	748.51	748.51	0.00
1992/09/21	748.78	748.78	0.00
1993/01/11	748.95	748.95	0.00
1993/04/29	749.70	749.70	0.00
1993/07/06	749.64	749.64	0.00
1994/03/13	749.39	749.39	0.00
1994/07/02	750.55	750.55	0.00
1994/08/24	748.73	748.73	0.00
1995/01/25	749.12	749.12	0.00
1995/05/06	749.22	749.22	0.00
1995/08/24	748.81	748.81	0.00
1995/11/18	749.34	749.34	0.00
1996/06/27	749.23	749.23	0.00
1996/08/05	749.10	749.10	0.00
1997/03/06	753.41	753.35	-0.07
1998/03/25	748.82	748.82	0.00
1998/05/15	749.02	749.02	0.00
1998/08/15	749.38	749.38	0.00
1998/09/14	748.39	748.39	0.00
1998/10/25	749.44	749.44	0.00
1999/02/09	749.83	749.83	0.00
1999/05/06	749.82	749.82	0.00
2000/04/28	749.85	749.85	0.00
2001/03/02	749.37	749.37	0.00
2001/09/06	753.46	753.40	-0.06
2001/09/30	749.48	749.47	0.00
2001/10/31	752.71	752.64	-0.07
2002/03/15	748.83	748.83	0.00
2002/05/22	749.14	749.14	0.00
2002/07/14	748.98	748.98	0.00
2002/08/29	752.31	752.26	-0.05
2003/05/19	749.47	749.47	0.00
2003/08/13	748.50	748.50	0.00
2003/11/29	748.75	748.75	0.00
2004/03/11	748.64	748.64	0.00
2004/06/18	748.88	748.88	0.00
2005/01/18	749.47	749.47	0.00
2006/03/18	748.70	748.70	0.00
2006/07/03	748.70	748.70	0.00
2006/09/29	748.84	748.84	0.00
2006/10/09	748.64	748.64	0.00
2007/03/15	749.34	749.34	0.00
2007/08/31	749.92	749.92	0.00
2008/03/09	749.69	749.69	0.00
2008/05/18	748.37	748.37	0.00
2008/09/23	755.23	755.21	-0.02
Max Elev	756.42	756.41	
StormEvent	1987/09/06	1987/09/06	

Klein Creek, Carol Stream (CBBEL Project No. 09-0321)
Comparison of Peak Water Surface Elevations
at
F151 Downstream Carol Pt. Wtl
17. Branch# 99999; Node ID: CPWETLND; Station: 0.0000

	(1) V10Base.pek	(2) prop6c3.pek	2-1
Nodes ==>	151	151	
1925/01/02	757.15	757.15	0.00
1949/04/08	757.52	757.52	0.00
1949/06/21	758.43	758.44	0.00
1949/07/27	757.53	757.53	0.00
1949/12/31	757.54	757.54	0.00
1950/01/31	757.54	757.54	0.00
1950/05/03	758.14	758.13	0.00
1950/06/11	757.85	757.86	0.00
1951/03/09	757.52	757.52	0.00
1951/05/17	757.53	757.53	0.00
1951/07/29	757.55	757.55	0.00
1952/01/25	757.66	757.66	0.00
1952/03/28	757.43	757.43	0.00
1953/03/23	757.50	757.50	0.00
1953/06/16	757.47	757.47	0.00
1953/07/28	758.49	758.49	0.00
1954/04/05	759.41	759.41	0.00
1954/05/08	757.81	757.81	0.00
1954/08/29	757.53	757.53	0.00
1954/10/25	758.87	758.87	0.00
1955/03/09	757.34	757.34	0.00
1956/05/18	757.48	757.48	0.00
1957/01/27	757.40	757.40	0.00
1957/03/04	758.11	758.11	0.00
1957/07/28	760.87	760.87	0.00
1958/04/30	757.55	757.55	0.00
1958/06/19	757.48	757.48	0.00
1958/07/11	757.40	757.40	0.00
1959/04/07	757.34	757.34	0.00
1959/07/27	757.29	757.29	0.00
1960/01/21	757.48	757.48	0.00
1960/04/04	757.20	757.20	0.00
1961/08/09	757.48	757.48	0.00
1961/10/06	758.77	758.78	0.00
1962/04/15	757.33	757.33	0.00
1962/07/08	757.59	757.59	0.00
1963/05/07	757.49	757.49	0.00
1964/04/12	757.44	757.44	0.00
1964/07/25	757.49	757.49	0.00
1965/03/22	757.47	757.47	0.00
1966/02/15	757.43	757.43	0.00
1966/05/18	757.54	757.54	0.00
1967/04/09	757.43	757.43	0.00
1967/07/01	757.71	757.71	0.00
1968/08/24	757.86	757.86	0.00
1969/04/13	757.40	757.40	0.00
1969/06/15	757.51	757.51	0.00
1969/08/01	757.33	757.33	0.00
1969/10/25	758.58	758.58	0.00
1970/05/20	757.47	757.47	0.00

1970/12/18	757.41	757.41	0.00
1971/03/04	757.32	757.32	0.00
1971/08/28	757.50	757.50	0.00
1972/03/21	757.46	757.46	0.00
1972/04/27	758.01	758.01	0.00
1972/09/01	757.80	757.80	0.00
1972/10/05	757.68	757.68	0.00
1973/01/08	757.98	757.98	0.00
1973/05/08	757.44	757.44	0.00
1974/02/28	757.51	757.51	0.00
1974/04/21	757.40	757.40	0.00
1974/05/25	757.37	757.37	0.00
1975/01/16	757.48	757.48	0.00
1975/05/05	757.49	757.49	0.00
1975/09/08	757.77	757.77	0.00
1976/03/21	757.51	757.51	0.00
1977/07/05	757.47	757.47	0.00
1977/08/13	757.43	757.43	0.00
1977/09/07	757.37	757.37	0.00
1978/04/02	757.29	757.29	0.00
1978/05/21	757.36	757.36	0.00
1978/07/09	757.48	757.48	0.00
1978/09/25	757.62	757.62	0.00
1979/04/18	757.97	757.97	0.00
1979/09/05	757.52	757.52	0.00
1980/01/21	757.26	757.26	0.00
1980/08/26	757.71	757.71	0.00
1980/09/26	757.45	757.45	0.00
1981/05/03	757.48	757.48	0.00
1981/06/05	758.36	758.36	0.01
1981/06/21	757.43	757.43	0.00
1981/08/23	757.49	757.49	0.00
1982/03/28	757.52	757.52	0.00
1982/07/31	757.55	757.55	0.00
1982/08/14	757.52	757.52	0.00
1982/12/12	759.26	759.26	0.00
1983/01/04	757.55	757.55	0.00
1983/04/22	757.53	757.53	0.00
1983/06/04	757.46	757.46	0.00
1983/07/09	757.51	757.51	0.00
1983/12/05	757.61	757.61	0.00
1984/02/25	757.51	757.51	0.00
1984/04/03	757.47	757.47	0.00
1985/03/19	758.29	758.28	-0.01
1985/12/11	757.54	757.54	0.00
1986/07/19	757.34	757.34	0.00
1986/10/10	757.53	757.53	0.00
1987/09/06	760.98	760.98	0.00
1988/01/01	757.45	757.45	0.00
1988/02/07	757.38	757.38	0.00
1988/04/13	757.33	757.33	0.00
1988/10/26	758.04	758.04	0.00
1989/08/18	758.48	758.47	0.00
1989/09/18	757.59	757.59	0.00
1990/03/16	757.53	757.53	0.00
1990/05/19	757.67	757.67	0.00
1990/08/28	758.00	758.00	0.00
1990/12/10	757.55	757.55	0.00
1991/04/23	757.46	757.46	0.00
1991/06/02	757.40	757.40	0.00
1991/10/09	757.53	757.53	0.00

1991/11/08	757.40	757.40	0.00
1991/12/18	757.33	757.33	0.00
1992/09/21	757.41	757.41	0.00
1993/01/11	757.45	757.45	0.00
1993/04/29	757.53	757.53	0.00
1993/07/06	757.52	757.52	0.00
1994/03/13	757.51	757.51	0.00
1994/07/02	757.78	757.78	0.00
1994/08/24	757.39	757.39	0.00
1995/01/25	757.46	757.47	0.00
1995/05/06	757.47	757.47	0.00
1995/08/24	757.42	757.42	0.00
1995/11/18	757.49	757.49	0.00
1996/06/27	757.49	757.49	0.00
1996/08/05	757.45	757.45	0.00
1997/03/06	759.07	759.07	0.00
1998/03/25	757.38	757.38	0.00
1998/05/15	757.46	757.46	0.00
1998/08/15	757.51	757.51	0.00
1998/09/14	757.32	757.32	0.00
1998/10/25	757.53	757.53	0.00
1999/02/09	757.53	757.53	0.00
1999/05/06	757.55	757.55	0.00
2000/04/28	757.56	757.56	0.00
2001/03/02	757.50	757.50	0.00
2001/09/06	759.38	759.38	0.00
2001/09/30	757.54	757.54	0.00
2001/10/31	758.82	758.83	0.00
2002/03/15	757.42	757.42	0.00
2002/05/22	757.50	757.50	0.00
2002/07/14	757.48	757.48	0.00
2002/08/29	758.59	758.59	0.00
2003/05/19	757.53	757.53	0.00
2003/08/13	757.32	757.32	0.00
2003/11/29	757.39	757.39	0.00
2004/03/11	757.36	757.36	0.00
2004/06/18	757.43	757.43	0.00
2005/01/18	757.50	757.50	0.00
2006/03/18	757.36	757.36	0.00
2006/07/03	757.41	757.41	0.00
2006/09/29	757.45	757.45	0.00
2006/10/09	757.39	757.39	0.00
2007/03/15	757.48	757.48	0.00
2007/08/31	757.57	757.57	0.00
2008/03/09	757.53	757.53	0.00
2008/05/18	757.31	757.31	0.00
2008/09/23	759.94	759.94	0.00
Max Elev	760.98	760.98	
StormEvent	1987/09/06	1987/09/06	

Klein Creek, Carol Stream (CBBEL Project No. 09-0321)
Comparison of Peak Water Surface Elevations
at
F153 Upstream Carol Pt. Wtl
18. Branch# 99999; Node ID: CPWETLND; Station: 0.0000

	(1) V10Base.pek	(2) prop6c3.pek	2-1
Nodes ==>	153	153	
1925/01/02	758.00	758.00	0.00
1949/04/08	758.23	758.23	0.00
1949/06/21	758.45	758.45	0.00
1949/07/27	758.28	758.28	0.00
1949/12/31	758.24	758.25	0.00
1950/01/31	758.24	758.24	0.00
1950/05/03	758.41	758.41	0.00
1950/06/11	758.35	758.35	0.00
1951/03/09	758.23	758.23	0.00
1951/05/17	758.23	758.23	0.00
1951/07/29	758.28	758.28	0.00
1952/01/25	758.31	758.31	0.00
1952/03/28	758.15	758.15	0.00
1953/03/23	758.22	758.22	0.00
1953/06/16	758.26	758.26	0.00
1953/07/28	758.50	758.50	0.00
1954/04/05	759.42	759.41	0.00
1954/05/08	758.34	758.34	0.00
1954/08/29	758.28	758.28	0.00
1954/10/25	758.87	758.87	0.00
1955/03/09	758.06	758.06	0.00
1956/05/18	758.22	758.22	0.00
1957/01/27	758.13	758.13	0.00
1957/03/04	758.41	758.41	0.00
1957/07/28	760.87	760.87	0.00
1958/04/30	758.35	758.35	0.00
1958/06/19	758.24	758.24	0.00
1958/07/11	758.14	758.14	0.00
1959/04/07	758.06	758.06	0.00
1959/07/27	758.01	758.01	0.00
1960/01/21	758.19	758.19	0.00
1960/04/04	757.89	757.89	0.00
1961/08/09	758.26	758.26	0.00
1961/10/06	758.78	758.78	0.00
1962/04/15	758.05	758.05	0.00
1962/07/08	758.34	758.34	0.00
1963/05/07	758.20	758.20	0.00
1964/04/12	758.15	758.15	0.00
1964/07/25	758.26	758.26	0.00
1965/03/22	758.18	758.18	0.00
1966/02/15	758.14	758.14	0.00
1966/05/18	758.24	758.24	0.00
1967/04/09	758.14	758.14	0.00
1967/07/01	758.32	758.32	0.00
1968/08/24	758.35	758.35	0.00
1969/04/13	758.12	758.12	0.00
1969/06/15	758.21	758.21	0.00
1969/08/01	758.06	758.06	0.00
1969/10/25	758.59	758.59	0.00
1970/05/20	758.19	758.19	0.00

1970/12/18	758.14	758.14	0.00
1971/03/04	758.05	758.05	0.00
1971/08/28	758.26	758.26	0.00
1972/03/21	758.18	758.18	0.00
1972/04/27	758.40	758.40	0.00
1972/09/01	758.37	758.37	0.00
1972/10/05	758.32	758.32	0.00
1973/01/08	758.37	758.37	0.00
1973/05/08	758.18	758.18	0.00
1974/02/28	758.21	758.21	0.00
1974/04/21	758.12	758.12	0.00
1974/05/25	758.11	758.11	0.00
1975/01/16	758.18	758.18	0.00
1975/05/05	758.28	758.28	0.00
1975/09/08	758.33	758.33	0.00
1976/03/21	758.25	758.25	0.00
1977/07/05	758.22	758.23	0.01
1977/08/13	758.16	758.16	0.00
1977/09/07	758.11	758.11	0.00
1978/04/02	758.00	758.00	0.00
1978/05/21	758.09	758.09	0.00
1978/07/09	758.19	758.19	0.00
1978/09/25	758.32	758.32	0.00
1979/04/18	758.35	758.35	0.00
1979/09/05	758.26	758.26	0.00
1980/01/21	757.97	757.97	0.00
1980/08/26	758.33	758.33	0.00
1980/09/26	758.18	758.18	0.00
1981/05/03	758.22	758.22	0.00
1981/06/05	758.44	758.44	0.00
1981/06/21	758.14	758.14	0.00
1981/08/23	758.22	758.22	0.00
1982/03/28	758.24	758.24	0.00
1982/07/31	758.30	758.30	0.00
1982/08/14	758.32	758.32	0.00
1982/12/12	759.26	759.26	0.00
1983/01/04	758.29	758.29	0.00
1983/04/22	758.22	758.22	0.00
1983/06/04	758.22	758.23	0.00
1983/07/09	758.24	758.24	0.00
1983/12/05	758.29	758.29	0.00
1984/02/25	758.21	758.21	0.00
1984/04/03	758.20	758.20	0.00
1985/03/19	758.41	758.41	0.00
1985/12/11	758.24	758.24	0.00
1986/07/19	758.07	758.07	0.00
1986/10/10	758.28	758.28	0.00
1987/09/06	760.98	760.98	0.00
1988/01/01	758.16	758.16	0.00
1988/02/07	758.11	758.11	0.00
1988/04/13	758.05	758.05	0.00
1988/10/26	758.40	758.40	0.00
1989/08/18	758.48	758.48	0.00
1989/09/18	758.32	758.32	0.00
1990/03/16	758.25	758.25	0.00
1990/05/19	758.31	758.31	0.00
1990/08/28	758.40	758.40	0.00
1990/12/10	758.25	758.25	0.00
1991/04/23	758.18	758.18	0.00
1991/06/02	758.14	758.14	0.00
1991/10/09	758.24	758.24	0.00

1991/11/08	758.13	758.13	0.00
1991/12/18	758.04	758.04	0.00
1992/09/21	758.15	758.15	0.00
1993/01/11	758.17	758.17	0.00
1993/04/29	758.22	758.22	0.00
1993/07/06	758.24	758.24	0.00
1994/03/13	758.22	758.22	0.00
1994/07/02	758.33	758.33	0.00
1994/08/24	758.12	758.12	0.00
1995/01/25	758.17	758.17	0.00
1995/05/06	758.17	758.17	0.00
1995/08/24	758.16	758.16	0.00
1995/11/18	758.19	758.19	0.00
1996/06/27	758.25	758.25	0.00
1996/08/05	758.16	758.16	0.00
1997/03/06	759.07	759.07	0.00
1998/03/25	758.10	758.10	0.00
1998/05/15	758.18	758.18	0.00
1998/08/15	758.29	758.29	0.00
1998/09/14	758.05	758.05	0.00
1998/10/25	758.24	758.25	0.00
1999/02/09	758.23	758.23	0.00
1999/05/06	758.26	758.26	0.00
2000/04/28	758.32	758.32	0.00
2001/03/02	758.20	758.20	0.00
2001/09/06	759.38	759.38	0.00
2001/09/30	758.24	758.23	0.00
2001/10/31	758.83	758.83	0.00
2002/03/15	758.14	758.14	0.00
2002/05/22	758.22	758.22	0.00
2002/07/14	758.26	758.26	0.00
2002/08/29	758.60	758.60	0.00
2003/05/19	758.23	758.23	0.00
2003/08/13	758.04	758.04	0.00
2003/11/29	758.13	758.13	0.00
2004/03/11	758.09	758.09	0.00
2004/06/18	758.20	758.20	0.00
2005/01/18	758.20	758.20	0.00
2006/03/18	758.09	758.09	0.00
2006/07/03	758.14	758.14	0.00
2006/09/29	758.21	758.21	0.00
2006/10/09	758.13	758.13	0.00
2007/03/15	758.20	758.20	0.00
2007/08/31	758.33	758.33	0.00
2008/03/09	758.24	758.24	0.00
2008/05/18	758.04	758.04	0.00
2008/09/23	759.94	759.94	0.00
Max Elev	760.98	760.98	
StormEvent	1987/09/06	1987/09/06	

Klein Creek, Carol Stream (CBBEL Project No. 09-0321)
Comparison of Peak Flow Rates
at
68:6820 Upstream of Gary Kehoe
1. Branch# 68; Node ID: D68 ; Station: 0.6060

	(1) V10Base.pek	(2) prop6c3.pek	2-1
Nodes ==>	6820	6820	
1925/01/02	34.38	34.50	0.12
1949/04/08	74.40	74.28	-0.11
1949/06/21	181.24	138.71	-42.53
1949/07/27	146.74	125.79	-20.95
1949/12/31	80.95	80.84	-0.11
1950/01/31	76.37	75.80	-0.57
1950/05/03	144.99	129.24	-15.75
1950/06/11	150.50	127.06	-23.44
1951/03/09	72.20	72.13	-0.07
1951/05/17	54.80	54.93	0.13
1951/07/29	128.65	119.77	-8.88
1952/01/25	92.04	92.04	0.00
1952/03/28	37.36	37.36	0.00
1953/03/23	64.76	64.74	-0.02
1953/06/16	130.70	120.77	-9.93
1953/07/28	185.93	151.28	-34.65
1954/04/05	195.11	145.60	-49.51
1954/05/08	90.98	91.19	0.21
1954/08/29	150.28	127.38	-22.90
1954/10/25	158.32	135.61	-22.71
1955/03/09	29.52	30.10	0.58
1956/05/18	97.53	97.45	-0.07
1957/01/27	37.26	37.07	-0.19
1957/03/04	142.60	125.20	-17.40
1957/07/28	203.57	161.28	-42.29
1958/04/30	176.69	130.97	-45.72
1958/06/19	88.79	88.83	0.04
1958/07/11	60.11	60.66	0.55
1959/04/07	36.92	37.28	0.36
1959/07/27	24.81	25.02	0.22
1960/01/21	90.78	89.64	-1.15
1960/04/04	13.24	13.24	0.00
1961/08/09	123.81	117.76	-6.05
1961/10/06	169.91	137.69	-32.22
1962/04/15	32.73	32.96	0.23
1962/07/08	158.35	128.85	-29.50
1963/05/07	55.51	55.43	-0.07
1964/04/12	38.47	39.09	0.62
1964/07/25	138.86	122.43	-16.43
1965/03/22	41.02	41.49	0.47
1966/02/15	41.30	42.27	0.97
1966/05/18	109.61	109.20	-0.41
1967/04/09	42.74	43.32	0.58
1967/07/01	136.20	121.85	-14.35
1968/08/24	136.32	122.12	-14.20
1969/04/13	40.38	42.91	2.54
1969/06/15	52.99	53.01	0.02
1969/08/01	29.17	29.42	0.25
1969/10/25	165.42	133.84	-31.58
1970/05/20	69.60	68.89	-0.70
1970/12/18	41.05	41.35	0.30
1971/03/04	32.29	32.55	0.26

1971/08/28	135.17	120.96	-14.21
1972/03/21	67.18	67.10	-0.08
1972/04/27	180.07	133.86	-46.21
1972/09/01	183.98	135.04	-48.94
1972/10/05	142.77	126.88	-15.89
1973/01/08	96.29	95.33	-0.96
1973/05/08	85.51	84.92	-0.59
1974/02/28	51.06	50.98	-0.07
1974/04/21	56.13	56.65	0.52
1974/05/25	56.46	57.37	0.91
1975/01/16	46.41	47.44	1.03
1975/05/05	141.90	124.58	-17.32
1975/09/08	102.43	102.74	0.31
1976/03/21	127.34	120.58	-6.76
1977/07/05	76.71	80.47	3.76
1977/08/13	46.35	46.07	-0.28
1977/09/07	68.90	65.22	-3.68
1978/04/02	23.06	23.07	0.01
1978/05/21	38.18	39.51	1.33
1978/07/09	53.58	53.48	-0.09
1978/09/25	163.26	129.55	-33.71
1979/04/18	107.94	108.17	0.23
1979/09/05	82.34	81.91	-0.43
1980/01/21	21.53	21.56	0.03
1980/08/26	153.35	129.84	-23.51
1980/09/26	56.61	56.97	0.36
1981/05/03	101.59	101.96	0.37
1981/06/05	179.43	136.67	-42.76
1981/06/21	44.64	44.65	0.00
1981/08/23	80.59	79.27	-1.33
1982/03/28	64.81	64.79	-0.01
1982/07/31	132.02	121.35	-10.67
1982/08/14	150.36	127.33	-23.03
1982/12/12	200.12	148.43	-51.69
1983/01/04	149.76	127.29	-22.47
1983/04/22	75.73	75.30	-0.43
1983/06/04	93.99	94.07	0.08
1983/07/09	80.03	78.72	-1.31
1983/12/05	108.46	108.49	0.03
1984/02/25	44.44	44.66	0.23
1984/04/03	68.85	69.11	0.26
1985/03/19	108.93	108.78	-0.15
1985/12/11	83.23	82.29	-0.94
1986/07/19	41.81	44.26	2.45
1986/10/10	132.96	122.37	-10.59
1987/09/06	202.15	156.59	-45.56
1988/01/01	48.62	48.99	0.37
1988/02/07	40.66	42.25	1.59
1988/04/13	28.47	28.85	0.38
1988/10/26	153.94	130.06	-23.88
1989/08/18	197.50	147.29	-50.21
1989/09/18	162.55	129.50	-33.05
1990/03/16	97.00	97.39	0.39
1990/05/19	86.81	86.60	-0.22
1990/08/28	192.07	140.77	-51.30
1990/12/10	72.79	72.49	-0.30
1991/04/23	64.75	64.59	-0.15
1991/06/02	44.27	46.01	1.74
1991/10/09	67.31	67.11	-0.20
1991/11/08	66.39	65.75	-0.64
1991/12/18	31.97	32.56	0.59
1992/09/21	103.84	103.73	-0.11
1993/01/11	57.95	58.64	0.69

1993/04/29	50.72	50.59	-0.13
1993/07/06	117.51	116.23	-1.28
1994/03/13	46.80	47.00	0.20
1994/07/02	130.21	120.30	-9.91
1994/08/24	41.04	41.47	0.43
1995/01/25	39.46	39.65	0.19
1995/05/06	43.00	43.74	0.74
1995/08/24	95.15	95.08	-0.07
1995/11/18	58.49	58.52	0.03
1996/06/27	113.16	112.59	-0.57
1996/08/05	76.99	75.59	-1.39
1997/03/06	128.89	123.07	-5.82
1998/03/25	38.91	40.54	1.63
1998/05/15	42.59	43.31	0.72
1998/08/15	151.14	127.36	-23.78
1998/09/14	40.89	40.97	0.08
1998/10/25	64.66	65.68	1.01
1999/02/09	66.34	66.14	-0.20
1999/05/06	85.88	85.83	-0.05
2000/04/28	142.19	125.99	-16.20
2001/03/02	66.28	66.49	0.20
2001/09/06	196.93	150.99	-45.94
2001/09/30	89.91	89.00	-0.91
2001/10/31	177.83	136.75	-41.08
2002/03/15	39.52	39.72	0.20
2002/05/22	68.50	68.72	0.22
2002/07/14	115.39	113.84	-1.55
2002/08/29	189.67	139.56	-50.11
2003/05/19	79.90	79.26	-0.64
2003/08/13	41.24	41.62	0.38
2003/11/29	52.59	51.35	-1.24
2004/03/11	30.02	30.06	0.05
2004/06/18	126.94	119.26	-7.68
2005/01/18	44.58	44.76	0.18
2006/03/18	38.74	39.59	0.86
2006/07/03	57.57	57.82	0.25
2006/09/29	90.15	89.88	-0.27
2006/10/09	60.04	60.09	0.05
2007/03/15	66.41	66.35	-0.07
2007/08/31	149.43	128.60	-20.83
2008/03/09	58.84	59.36	0.52
2008/05/18	34.63	34.94	0.31
2008/09/23	200.51	149.05	-51.46
Max Flow	203.57	161.28	
StormEvent	1957/07/28	1957/07/28	

Klein Creek, Carol Stream (CBBEL Project No. 09-0321)
Comparison of Peak Flow Rates
at
F66 Upstream GK Spillway Weir
2. Branch# 99999; Node ID: WTLNDIFL; Station: 0.0000

	(1) V10Base.pek	(2) prop6c3.pek	2-1
Nodes ==>	66	66	
1925/01/02	0.74	3.03	2.30
1949/04/08	45.12	50.51	5.40
1949/06/21	187.49	149.27	-38.22
1949/07/27	145.50	128.54	-16.96
1949/12/31	52.82	57.48	4.66
1950/01/31	50.11	54.56	4.45
1950/05/03	132.66	120.56	-12.10
1950/06/11	153.93	133.37	-20.56
1951/03/09	43.69	49.43	5.74
1951/05/17	20.14	28.72	8.58
1951/07/29	119.52	114.10	-5.42
1952/01/25	69.54	72.91	3.37
1952/03/28	4.07	10.10	6.02
1953/03/23	35.90	42.71	6.81
1953/06/16	122.01	115.89	-6.12
1953/07/28	259.12	229.95	-29.17
1954/04/05	227.58	181.97	-45.61
1954/05/08	68.42	72.06	3.64
1954/08/29	152.24	132.21	-20.03
1954/10/25	148.51	128.24	-20.27
1955/03/09	1.75	6.16	4.41
1956/05/18	79.00	82.37	3.36
1957/01/27	4.81	11.72	6.91
1957/03/04	136.20	122.28	-13.92
1957/07/28	250.64	217.29	-33.35
1958/04/30	195.90	155.61	-40.29
1958/06/19	67.63	70.90	3.27
1958/07/11	30.08	38.24	8.16
1959/04/07	4.74	12.36	7.61
1959/07/27	0.05	1.75	1.70
1960/01/21	70.28	72.04	1.75
1960/04/04	0.00	0.00	0.00
1961/08/09	113.55	110.66	-2.89
1961/10/06	165.84	137.21	-28.63
1962/04/15	2.89	8.23	5.34
1962/07/08	164.11	138.19	-25.92
1963/05/07	24.80	32.98	8.18
1964/04/12	6.00	16.24	10.24
1964/07/25	134.90	122.35	-12.55
1965/03/22	7.15	16.65	9.50
1966/02/15	7.36	17.80	10.44
1966/05/18	92.47	95.33	2.85
1967/04/09	7.51	17.91	10.40
1967/07/01	131.94	120.54	-11.40
1968/08/24	130.08	119.23	-10.85
1969/04/13	6.79	18.24	11.45
1969/06/15	19.05	27.85	8.80
1969/08/01	1.28	4.42	3.14
1969/10/25	164.99	136.76	-28.23
1970/05/20	43.82	48.89	5.06
1970/12/18	7.48	17.02	9.54
1971/03/04	2.52	7.29	4.77

1971/08/28	131.11	120.68	-10.43
1972/03/21	38.73	45.14	6.41
1972/04/27	195.80	154.68	-41.12
1972/09/01	202.03	157.53	-44.50
1972/10/05	131.82	119.22	-12.60
1973/01/08	72.44	74.60	2.15
1973/05/08	63.23	66.37	3.14
1974/02/28	17.37	26.11	8.74
1974/04/21	26.91	35.60	8.69
1974/05/25	26.93	36.05	9.12
1975/01/16	13.12	23.59	10.47
1975/05/05	136.68	123.12	-13.56
1975/09/08	85.56	89.31	3.74
1976/03/21	114.75	111.54	-3.21
1977/07/05	51.31	60.74	9.43
1977/08/13	12.73	21.94	9.21
1977/09/07	43.32	45.40	2.08
1978/04/02	0.00	0.25	0.25
1978/05/21	5.87	15.83	9.96
1978/07/09	22.74	30.73	7.98
1978/09/25	177.66	145.79	-31.87
1979/04/18	87.55	91.07	3.52
1979/09/05	61.69	64.99	3.30
1980/01/21	0.00	0.00	0.00
1980/08/26	155.72	133.47	-22.25
1980/09/26	26.86	35.54	8.67
1981/05/03	84.80	88.59	3.79
1981/06/05	187.70	148.80	-38.90
1981/06/21	12.07	21.44	9.37
1981/08/23	59.11	61.72	2.61
1982/03/28	33.50	40.66	7.17
1982/07/31	123.19	115.89	-7.30
1982/08/14	150.92	131.06	-19.86
1982/12/12	217.81	170.08	-47.73
1983/01/04	151.32	131.49	-19.83
1983/04/22	46.65	51.69	5.04
1983/06/04	75.46	78.99	3.53
1983/07/09	54.21	57.55	3.34
1983/12/05	89.43	92.65	3.22
1984/02/25	8.42	18.68	10.25
1984/04/03	40.67	47.16	6.49
1985/03/19	83.96	87.09	3.13
1985/12/11	58.02	61.19	3.17
1986/07/19	8.05	21.23	13.18
1986/10/10	122.21	114.82	-7.39
1987/09/06	247.41	210.67	-36.74
1988/01/01	16.10	25.57	9.46
1988/02/07	6.98	17.91	10.93
1988/04/13	1.36	5.07	3.70
1988/10/26	157.94	134.58	-23.36
1989/08/18	224.39	178.41	-45.98
1989/09/18	174.31	143.45	-30.86
1990/03/16	74.91	78.88	3.97
1990/05/19	62.43	66.18	3.75
1990/08/28	216.61	169.96	-46.65
1990/12/10	43.09	48.75	5.66
1991/04/23	37.98	44.43	6.45
1991/06/02	9.79	21.43	11.64
1991/10/09	38.13	44.85	6.71
1991/11/08	41.18	46.83	5.65
1991/12/18	2.64	8.25	5.61
1992/09/21	89.71	92.71	3.01
1993/01/11	26.84	35.55	8.71

1993/04/29	17.52	26.48	8.96
1993/07/06	101.79	103.83	2.04
1994/03/13	11.40	21.36	9.96
1994/07/02	121.34	114.76	-6.58
1994/08/24	7.69	17.70	10.01
1995/01/25	5.66	13.55	7.90
1995/05/06	7.53	17.67	10.14
1995/08/24	78.11	81.44	3.33
1995/11/18	29.13	36.88	7.75
1996/06/27	99.72	102.47	2.75
1996/08/05	53.01	56.28	3.26
1997/03/06	111.74	109.16	-2.58
1998/03/25	5.80	15.86	10.06
1998/05/15	7.89	18.39	10.50
1998/08/15	151.66	131.94	-19.72
1998/09/14	7.81	17.30	9.49
1998/10/25	33.99	42.50	8.51
1999/02/09	32.07	39.14	7.07
1999/05/06	57.77	62.05	4.28
2000/04/28	134.46	122.26	-12.20
2001/03/02	35.37	42.46	7.09
2001/09/06	239.39	197.73	-41.66
2001/09/30	67.51	69.72	2.21
2001/10/31	184.15	147.66	-36.49
2002/03/15	6.66	15.17	8.51
2002/05/22	40.01	46.56	6.56
2002/07/14	103.33	104.56	1.23
2002/08/29	206.05	160.01	-46.04
2003/05/19	56.33	60.06	3.74
2003/08/13	8.00	19.16	11.16
2003/11/29	21.53	29.09	7.56
2004/03/11	1.56	4.96	3.40
2004/06/18	119.35	115.95	-3.40
2005/01/18	9.80	19.36	9.56
2006/03/18	5.80	14.98	9.18
2006/07/03	27.32	35.38	8.06
2006/09/29	71.91	74.86	2.95
2006/10/09	31.94	39.05	7.11
2007/03/15	39.12	45.50	6.38
2007/08/31	143.26	126.22	-17.04
2008/03/09	26.24	34.85	8.61
2008/05/18	4.15	10.97	6.82
2008/09/23	210.35	163.07	-47.28
Max Flow	259.12	229.95	
StormEvent	1953/07/28	1953/07/28	

Klein Creek, Carol Stream (CBBEL Project No. 09-0321)
Comparison of Peak Flow Rates
at
F4 Gary Kehoe Intersection
4. Branch# 99999; Node ID: OFGARYKE; Station: 0.0000

	(1) V10Base.pek	(2) prop6c3.pek	2-1
Nodes ==>	4	4	
1925/01/02	0.00	0.00	0.00
1949/04/08	0.00	0.00	0.00
1949/06/21	0.05	0.00	-0.05
1949/07/27	0.00	0.00	0.00
1949/12/31	0.00	0.00	0.00
1950/01/31	0.00	0.00	0.00
1950/05/03	0.00	0.00	0.00
1950/06/11	0.00	0.00	0.00
1951/03/09	0.00	0.00	0.00
1951/05/17	0.00	0.00	0.00
1951/07/29	0.00	0.00	0.00
1952/01/25	0.00	0.00	0.00
1952/03/28	0.00	0.00	0.00
1953/03/23	0.00	0.00	0.00
1953/06/16	0.00	0.00	0.00
1953/07/28	97.86	0.00	-97.86
1954/04/05	30.51	0.00	-30.51
1954/05/08	0.00	0.00	0.00
1954/08/29	0.00	0.00	0.00
1954/10/25	0.00	0.00	0.00
1955/03/09	0.00	0.00	0.00
1956/05/18	0.00	0.00	0.00
1957/01/27	0.00	0.00	0.00
1957/03/04	0.00	0.00	0.00
1957/07/28	85.76	78.99	-6.77
1958/04/30	0.48	0.00	-0.48
1958/06/19	0.00	0.00	0.00
1958/07/11	0.00	0.00	0.00
1959/04/07	0.00	0.00	0.00
1959/07/27	0.00	0.00	0.00
1960/01/21	0.00	0.00	0.00
1960/04/04	0.00	0.00	0.00
1961/08/09	0.00	0.00	0.00
1961/10/06	0.00	0.00	0.00
1962/04/15	0.00	0.00	0.00
1962/07/08	0.00	0.00	0.00
1963/05/07	0.00	0.00	0.00
1964/04/12	0.00	0.00	0.00
1964/07/25	0.00	0.00	0.00
1965/03/22	0.00	0.00	0.00
1966/02/15	0.00	0.00	0.00
1966/05/18	0.00	0.00	0.00
1967/04/09	0.00	0.00	0.00
1967/07/01	0.00	0.00	0.00
1968/08/24	0.00	0.00	0.00
1969/04/13	0.00	0.00	0.00
1969/06/15	0.00	0.00	0.00
1969/08/01	0.00	0.00	0.00
1969/10/25	0.00	0.00	0.00
1970/05/20	0.00	0.00	0.00
1970/12/18	0.00	0.00	0.00
1971/03/04	0.00	0.00	0.00

1971/08/28	0.00	0.00	0.00
1972/03/21	0.00	0.00	0.00
1972/04/27	0.55	0.00	-0.55
1972/09/01	2.47	0.00	-2.47
1972/10/05	0.00	0.00	0.00
1973/01/08	0.00	0.00	0.00
1973/05/08	0.00	0.00	0.00
1974/02/28	0.00	0.00	0.00
1974/04/21	0.00	0.00	0.00
1974/05/25	0.00	0.00	0.00
1975/01/16	0.00	0.00	0.00
1975/05/05	0.00	0.00	0.00
1975/09/08	0.00	0.00	0.00
1976/03/21	0.00	0.00	0.00
1977/07/05	0.00	0.00	0.00
1977/08/13	0.00	0.00	0.00
1977/09/07	0.00	0.00	0.00
1978/04/02	0.00	0.00	0.00
1978/05/21	0.00	0.00	0.00
1978/07/09	0.00	0.00	0.00
1978/09/25	0.00	0.00	0.00
1979/04/18	0.00	0.00	0.00
1979/09/05	0.00	0.00	0.00
1980/01/21	0.00	0.00	0.00
1980/08/26	0.00	0.00	0.00
1980/09/26	0.00	0.00	0.00
1981/05/03	0.00	0.00	0.00
1981/06/05	0.02	0.00	-0.02
1981/06/21	0.00	0.00	0.00
1981/08/23	0.00	0.00	0.00
1982/03/28	0.00	0.00	0.00
1982/07/31	0.00	0.00	0.00
1982/08/14	0.00	0.00	0.00
1982/12/12	17.96	0.00	-17.96
1983/01/04	0.00	0.00	0.00
1983/04/22	0.00	0.00	0.00
1983/06/04	0.00	0.00	0.00
1983/07/09	0.00	0.00	0.00
1983/12/05	0.00	0.00	0.00
1984/02/25	0.00	0.00	0.00
1984/04/03	0.00	0.00	0.00
1985/03/19	0.00	0.00	0.00
1985/12/11	0.00	0.00	0.00
1986/07/19	0.00	0.00	0.00
1986/10/10	0.00	0.00	0.00
1987/09/06	178.70	194.36	15.66
1988/01/01	0.00	0.00	0.00
1988/02/07	0.00	0.00	0.00
1988/04/13	0.00	0.00	0.00
1988/10/26	0.00	0.00	0.00
1989/08/18	26.06	0.00	-26.06
1989/09/18	0.00	0.00	0.00
1990/03/16	0.00	0.00	0.00
1990/05/19	0.00	0.00	0.00
1990/08/28	13.67	0.00	-13.67
1990/12/10	0.00	0.00	0.00
1991/04/23	0.00	0.00	0.00
1991/06/02	0.00	0.00	0.00
1991/10/09	0.00	0.00	0.00
1991/11/08	0.00	0.00	0.00
1991/12/18	0.00	0.00	0.00
1992/09/21	0.00	0.00	0.00
1993/01/11	0.00	0.00	0.00

1993/04/29	0.00	0.00	0.00
1993/07/06	0.00	0.00	0.00
1994/03/13	0.00	0.00	0.00
1994/07/02	0.00	0.00	0.00
1994/08/24	0.00	0.00	0.00
1995/01/25	0.00	0.00	0.00
1995/05/06	0.00	0.00	0.00
1995/08/24	0.00	0.00	0.00
1995/11/18	0.00	0.00	0.00
1996/06/27	0.00	0.00	0.00
1996/08/05	0.00	0.00	0.00
1997/03/06	0.00	0.00	0.00
1998/03/25	0.00	0.00	0.00
1998/05/15	0.00	0.00	0.00
1998/08/15	0.00	0.00	0.00
1998/09/14	0.00	0.00	0.00
1998/10/25	0.00	0.00	0.00
1999/02/09	0.00	0.00	0.00
1999/05/06	0.00	0.00	0.00
2000/04/28	0.00	0.00	0.00
2001/03/02	0.00	0.00	0.00
2001/09/06	53.05	0.00	-53.05
2001/09/30	0.00	0.00	0.00
2001/10/31	0.00	0.00	0.00
2002/03/15	0.00	0.00	0.00
2002/05/22	0.00	0.00	0.00
2002/07/14	0.00	0.00	0.00
2002/08/29	4.95	0.00	-4.95
2003/05/19	0.00	0.00	0.00
2003/08/13	0.00	0.00	0.00
2003/11/29	0.00	0.00	0.00
2004/03/11	0.00	0.00	0.00
2004/06/18	0.00	0.00	0.00
2005/01/18	0.00	0.00	0.00
2006/03/18	0.00	0.00	0.00
2006/07/03	0.00	0.00	0.00
2006/09/29	0.00	0.00	0.00
2006/10/09	0.00	0.00	0.00
2007/03/15	0.00	0.00	0.00
2007/08/31	0.00	0.00	0.00
2008/03/09	0.00	0.00	0.00
2008/05/18	0.00	0.00	0.00
2008/09/23	48.73	54.21	5.48
Max Flow	178.70	194.36	
StormEvent	1987/09/06	1987/09/06	

Klein Creek, Carol Stream (CBBEL Project No. 09-0321)
Comparison of Peak Flow Rates
at
F51 Gary Kehoe Reservoir
5. Branch# 99999; Node ID: GARYKEHO; Station: 0.0000

	(1) V10Base.pek	(2) prop6c3.pek	2-1
Nodes ==>	51	51	
1925/01/02	0.74	3.03	2.30
1949/04/08	45.12	50.51	5.40
1949/06/21	187.49	193.78	6.29
1949/07/27	145.50	150.71	5.21
1949/12/31	52.82	57.48	4.66
1950/01/31	50.11	54.56	4.45
1950/05/03	132.66	138.03	5.37
1950/06/11	153.93	158.99	5.06
1951/03/09	43.69	49.43	5.74
1951/05/17	20.14	28.72	8.58
1951/07/29	119.52	123.46	3.94
1952/01/25	69.54	72.91	3.37
1952/03/28	4.07	10.10	6.02
1953/03/23	35.90	42.71	6.81
1953/06/16	122.01	127.05	5.04
1953/07/28	259.12	361.61	102.49
1954/04/05	227.58	261.48	33.90
1954/05/08	68.42	72.06	3.64
1954/08/29	152.24	156.68	4.44
1954/10/25	148.51	152.34	3.83
1955/03/09	1.75	6.16	4.41
1956/05/18	79.00	82.37	3.36
1957/01/27	4.81	11.72	6.91
1957/03/04	136.20	139.81	3.61
1957/07/28	250.64	339.20	88.56
1958/04/30	195.90	203.49	7.59
1958/06/19	67.63	70.90	3.27
1958/07/11	30.08	38.24	8.16
1959/04/07	4.74	12.36	7.61
1959/07/27	0.05	1.75	1.70
1960/01/21	70.28	72.04	1.75
1960/04/04	0.00	0.00	0.00
1961/08/09	113.55	116.96	3.41
1961/10/06	165.84	170.41	4.57
1962/04/15	2.89	8.23	5.34
1962/07/08	164.11	168.94	4.83
1963/05/07	24.80	32.98	8.18
1964/04/12	6.00	16.24	10.24
1964/07/25	134.90	139.10	4.20
1965/03/22	7.15	16.65	9.50
1966/02/15	7.36	17.80	10.44
1966/05/18	92.47	95.33	2.85
1967/04/09	7.51	17.91	10.40
1967/07/01	131.94	135.66	3.72
1968/08/24	130.08	133.64	3.56
1969/04/13	6.79	18.24	11.45
1969/06/15	19.05	27.85	8.80
1969/08/01	1.28	4.42	3.14
1969/10/25	164.99	168.18	3.19
1970/05/20	43.82	48.89	5.06
1970/12/18	7.48	17.02	9.54
1971/03/04	2.52	7.29	4.77

1971/08/28	131.11	135.81	4.70
1972/03/21	38.73	45.14	6.41
1972/04/27	195.80	202.69	6.89
1972/09/01	202.03	208.86	6.83
1972/10/05	131.82	135.05	3.23
1973/01/08	72.44	74.60	2.15
1973/05/08	63.23	66.37	3.14
1974/02/28	17.37	26.11	8.74
1974/04/21	26.91	35.60	8.69
1974/05/25	26.93	36.05	9.12
1975/01/16	13.12	23.59	10.47
1975/05/05	136.68	141.04	4.36
1975/09/08	85.56	89.31	3.74
1976/03/21	114.75	119.09	4.34
1977/07/05	51.31	60.74	9.43
1977/08/13	12.73	21.94	9.21
1977/09/07	43.32	45.40	2.08
1978/04/02	0.00	0.25	0.25
1978/05/21	5.87	15.83	9.96
1978/07/09	22.74	30.73	7.98
1978/09/25	177.66	182.67	5.01
1979/04/18	87.55	91.07	3.52
1979/09/05	61.69	64.99	3.30
1980/01/21	0.00	0.00	0.00
1980/08/26	155.72	159.40	3.68
1980/09/26	26.86	35.54	8.67
1981/05/03	84.80	88.59	3.79
1981/06/05	187.70	191.26	3.56
1981/06/21	12.07	21.44	9.37
1981/08/23	59.11	61.72	2.61
1982/03/28	33.50	40.66	7.17
1982/07/31	123.19	127.20	4.01
1982/08/14	150.92	154.96	4.04
1982/12/12	217.81	238.64	20.83
1983/01/04	151.32	155.50	4.18
1983/04/22	46.65	51.69	5.04
1983/06/04	75.46	78.99	3.53
1983/07/09	54.21	57.55	3.34
1983/12/05	89.43	92.65	3.22
1984/02/25	8.42	18.68	10.25
1984/04/03	40.67	47.16	6.49
1985/03/19	83.96	87.09	3.13
1985/12/11	58.02	61.19	3.17
1986/07/19	8.05	21.23	13.18
1986/10/10	122.21	125.48	3.27
1987/09/06	247.41	323.58	76.17
1988/01/01	16.10	25.57	9.46
1988/02/07	6.98	17.91	10.93
1988/04/13	1.36	5.07	3.70
1988/10/26	157.94	161.51	3.57
1989/08/18	224.39	254.89	30.50
1989/09/18	174.31	178.47	4.16
1990/03/16	74.91	78.88	3.97
1990/05/19	62.43	66.18	3.75
1990/08/28	216.61	235.42	18.81
1990/12/10	43.09	48.75	5.66
1991/04/23	37.98	44.43	6.45
1991/06/02	9.79	21.43	11.64
1991/10/09	38.13	44.85	6.71
1991/11/08	41.18	46.83	5.65
1991/12/18	2.64	8.25	5.61
1992/09/21	89.71	92.71	3.01
1993/01/11	26.84	35.55	8.71

1993/04/29	17.52	26.48	8.96
1993/07/06	101.79	105.69	3.90
1994/03/13	11.40	21.36	9.96
1994/07/02	121.34	124.82	3.48
1994/08/24	7.69	17.70	10.01
1995/01/25	5.66	13.55	7.90
1995/05/06	7.53	17.67	10.14
1995/08/24	78.11	81.44	3.33
1995/11/18	29.13	36.88	7.75
1996/06/27	99.72	103.50	3.78
1996/08/05	53.01	56.28	3.26
1997/03/06	111.74	115.56	3.82
1998/03/25	5.80	15.86	10.06
1998/05/15	7.89	18.39	10.50
1998/08/15	151.66	156.50	4.84
1998/09/14	7.81	17.30	9.49
1998/10/25	33.99	42.50	8.51
1999/02/09	32.07	39.14	7.07
1999/05/06	57.77	62.05	4.28
2000/04/28	134.46	139.99	5.53
2001/03/02	35.37	42.46	7.09
2001/09/06	239.39	295.49	56.10
2001/09/30	67.51	69.72	2.21
2001/10/31	184.15	189.84	5.69
2002/03/15	6.66	15.17	8.51
2002/05/22	40.01	46.56	6.56
2002/07/14	103.33	106.43	3.10
2002/08/29	206.05	215.50	9.45
2003/05/19	56.33	60.06	3.74
2003/08/13	8.00	19.16	11.16
2003/11/29	21.53	29.09	7.56
2004/03/11	1.56	4.96	3.40
2004/06/18	119.35	126.79	7.44
2005/01/18	9.80	19.36	9.56
2006/03/18	5.80	14.98	9.18
2006/07/03	27.32	35.38	8.06
2006/09/29	71.91	74.86	2.95
2006/10/09	31.94	39.05	7.11
2007/03/15	39.12	45.50	6.38
2007/08/31	143.26	147.51	4.25
2008/03/09	26.24	34.85	8.61
2008/05/18	4.15	10.97	6.82
2008/09/23	210.35	225.23	14.88
Max Flow	259.12	361.61	
StormEvent	1953/07/28	1953/07/28	

Klein Creek, Carol Stream (CBBEL Project No. 09-0321)
Comparison of Peak Flow Rates
at
54:5401 Downstream of Gary Kehoe
6. Branch# 54; Node ID: U54 ; Station: 0.4680

	(1) V10Base.pek	(2) prop6c3.pek	2-1
Nodes ==>	5401	5401	
1925/01/02	34.65	32.47	-2.17
1949/04/08	54.04	49.28	-4.76
1949/06/21	63.50	60.47	-3.03
1949/07/27	57.30	54.91	-2.39
1949/12/31	56.37	52.15	-4.22
1950/01/31	51.56	46.08	-5.48
1950/05/03	61.43	58.97	-2.46
1950/06/11	59.75	57.57	-2.18
1951/03/09	51.89	47.17	-4.73
1951/05/17	51.43	45.86	-5.58
1951/07/29	55.40	53.08	-2.32
1952/01/25	55.33	52.35	-2.97
1952/03/28	41.37	36.09	-5.28
1953/03/23	50.06	43.53	-6.53
1953/06/16	53.63	52.48	-1.15
1953/07/28	155.26	59.90	-95.36
1954/04/05	92.59	62.49	-30.11
1954/05/08	57.04	54.01	-3.03
1954/08/29	57.89	55.55	-2.33
1954/10/25	67.41	68.55	1.14
1955/03/09	37.13	34.25	-2.88
1956/05/18	52.06	48.77	-3.29
1957/01/27	42.53	35.86	-6.67
1957/03/04	58.35	55.57	-2.78
1957/07/28	154.12	152.55	-1.57
1958/04/30	58.50	55.88	-2.62
1958/06/19	52.25	50.85	-1.40
1958/07/11	49.79	44.47	-5.32
1959/04/07	42.42	36.01	-6.41
1959/07/27	32.34	31.29	-1.05
1960/01/21	51.66	48.17	-3.48
1960/04/04	16.04	16.04	0.00
1961/08/09	55.20	53.33	-1.88
1961/10/06	64.99	62.20	-2.80
1962/04/15	39.45	34.94	-4.51
1962/07/08	58.47	56.13	-2.34
1963/05/07	49.15	41.24	-7.90
1964/04/12	44.13	38.34	-5.79
1964/07/25	54.05	50.95	-3.10
1965/03/22	45.52	39.03	-6.48
1966/02/15	45.77	37.31	-8.46
1966/05/18	55.84	51.32	-4.52
1967/04/09	45.94	39.45	-6.49
1967/07/01	58.60	55.83	-2.77
1968/08/24	59.66	57.00	-2.66
1969/04/13	45.08	37.43	-7.65
1969/06/15	48.43	43.51	-4.91
1969/08/01	36.04	33.39	-2.66
1969/10/25	63.83	60.86	-2.97
1970/05/20	50.43	44.38	-6.05
1970/12/18	45.90	37.08	-8.82
1971/03/04	38.76	34.64	-4.12

1971/08/28	56.09	53.81	-2.28
1972/03/21	50.19	43.67	-6.52
1972/04/27	60.20	57.44	-2.75
1972/09/01	61.03	57.92	-3.11
1972/10/05	60.45	57.68	-2.77
1973/01/08	56.49	54.16	-2.33
1973/05/08	51.33	49.56	-1.77
1974/02/28	48.21	39.50	-8.72
1974/04/21	49.41	41.79	-7.62
1974/05/25	49.42	41.89	-7.53
1975/01/16	47.67	38.83	-8.84
1975/05/05	54.10	51.99	-2.11
1975/09/08	58.02	55.36	-2.66
1976/03/21	56.49	53.74	-2.75
1977/07/05	50.78	46.41	-4.37
1977/08/13	47.62	38.40	-9.22
1977/09/07	50.40	43.72	-6.68
1978/04/02	29.47	29.23	-0.24
1978/05/21	43.96	36.80	-7.16
1978/07/09	48.89	41.55	-7.34
1978/09/25	58.90	56.26	-2.64
1979/04/18	57.73	54.12	-3.62
1979/09/05	54.44	51.09	-3.36
1980/01/21	28.08	28.12	0.03
1980/08/26	60.23	57.47	-2.76
1980/09/26	49.41	42.31	-7.09
1981/05/03	54.55	51.03	-3.52
1981/06/05	61.88	58.82	-3.06
1981/06/21	47.54	38.26	-9.27
1981/08/23	53.29	48.79	-4.50
1982/03/28	49.95	42.82	-7.13
1982/07/31	55.29	53.31	-1.98
1982/08/14	56.90	54.66	-2.24
1982/12/12	83.81	63.08	-20.73
1983/01/04	56.81	54.35	-2.46
1983/04/22	52.69	48.19	-4.49
1983/06/04	51.90	49.59	-2.31
1983/07/09	53.26	49.93	-3.33
1983/12/05	57.59	54.82	-2.77
1984/02/25	46.97	37.56	-9.42
1984/04/03	50.28	44.05	-6.23
1985/03/19	60.15	57.19	-2.96
1985/12/11	53.06	49.05	-4.01
1986/07/19	46.55	38.21	-8.34
1986/10/10	58.38	55.73	-2.65
1987/09/06	251.58	267.46	15.88
1988/01/01	48.05	39.35	-8.70
1988/02/07	45.31	37.34	-7.97
1988/04/13	36.24	33.78	-2.47
1988/10/26	61.90	59.07	-2.82
1989/08/18	89.51	61.01	-28.50
1989/09/18	58.59	55.97	-2.62
1990/03/16	53.79	51.59	-2.20
1990/05/19	57.23	53.13	-4.10
1990/08/28	75.89	59.36	-16.53
1990/12/10	52.39	49.20	-3.19
1991/04/23	50.15	43.53	-6.62
1991/06/02	47.24	38.26	-8.98
1991/10/09	51.12	46.99	-4.12
1991/11/08	50.30	43.99	-6.31
1991/12/18	38.98	34.94	-4.03
1992/09/21	52.51	49.35	-3.15
1993/01/11	49.40	42.13	-7.28

1993/04/29	48.23	41.54	-6.69
1993/07/06	56.67	53.89	-2.78
1994/03/13	47.45	41.18	-6.27
1994/07/02	58.30	55.74	-2.57
1994/08/24	46.15	37.28	-8.87
1995/01/25	43.68	36.29	-7.38
1995/05/06	45.96	40.32	-5.64
1995/08/24	52.02	48.71	-3.30
1995/11/18	49.68	42.06	-7.62
1996/06/27	52.86	49.90	-2.96
1996/08/05	50.86	45.68	-5.17
1997/03/06	61.96	59.46	-2.50
1998/03/25	43.86	36.80	-7.06
1998/05/15	46.38	37.48	-8.90
1998/08/15	57.79	55.72	-2.06
1998/09/14	46.28	37.16	-9.12
1998/10/25	50.94	47.14	-3.79
1999/02/09	52.91	47.81	-5.10
1999/05/06	55.90	52.29	-3.61
2000/04/28	57.63	55.76	-1.87
2001/03/02	50.03	44.88	-5.15
2001/09/06	117.33	63.65	-53.68
2001/09/30	54.68	52.06	-2.62
2001/10/31	63.05	60.39	-2.66
2002/03/15	44.93	36.65	-8.28
2002/05/22	50.25	43.94	-6.31
2002/07/14	54.80	52.78	-2.01
2002/08/29	66.72	59.23	-7.49
2003/05/19	52.19	46.51	-5.68
2003/08/13	46.50	37.68	-8.82
2003/11/29	48.74	40.28	-8.46
2004/03/11	36.70	33.71	-2.99
2004/06/18	53.54	51.47	-2.08
2005/01/18	47.25	40.93	-6.32
2006/03/18	43.86	36.60	-7.26
2006/07/03	49.46	41.75	-7.72
2006/09/29	51.73	48.34	-3.39
2006/10/09	49.88	42.51	-7.37
2007/03/15	50.21	43.74	-6.47
2007/08/31	58.59	56.21	-2.38
2008/03/09	49.33	43.77	-5.56
2008/05/18	41.49	35.68	-5.81
2008/09/23	122.50	128.21	5.71
Max Flow	251.58	267.46	
StormEvent	1987/09/06	1987/09/06	

Klein Creek, Carol Stream (CBBEL Project No. 09-0321)
Comparison of Peak Flow Rates
at
51:5103 Trib 2 at Confluence
7. Branch# 51; Node ID: D51 ; Station: 0.0000

	(1) V10Base.pek	(2) prop6c3.pek	2-1
Nodes ==>	5103	5103	
1925/01/02	34.63	32.45	-2.18
1949/04/08	60.30	56.09	-4.21
1949/06/21	84.10	83.97	-0.13
1949/07/27	65.62	64.26	-1.36
1949/12/31	64.28	60.89	-3.39
1950/01/31	59.41	55.03	-4.38
1950/05/03	81.01	81.17	0.16
1950/06/11	76.42	74.49	-1.93
1951/03/09	60.87	57.15	-3.72
1951/05/17	57.97	52.84	-5.13
1951/07/29	64.25	62.38	-1.86
1952/01/25	66.24	63.70	-2.55
1952/03/28	45.57	39.76	-5.81
1953/03/23	58.05	51.54	-6.51
1953/06/16	64.10	62.08	-2.02
1953/07/28	141.94	98.57	-43.37
1954/04/05	112.29	96.67	-15.62
1954/05/08	67.39	64.07	-3.32
1954/08/29	71.25	69.11	-2.14
1954/10/25	87.70	85.37	-2.33
1955/03/09	39.14	36.30	-2.84
1956/05/18	58.70	55.67	-3.04
1957/01/27	45.27	38.85	-6.43
1957/03/04	73.25	71.05	-2.20
1957/07/28	172.34	160.49	-11.85
1958/04/30	78.54	77.29	-1.26
1958/06/19	58.40	56.69	-1.71
1958/07/11	54.01	48.08	-5.94
1959/04/07	44.08	37.71	-6.37
1959/07/27	33.20	32.06	-1.14
1960/01/21	59.40	55.02	-4.38
1960/04/04	16.67	16.67	0.00
1961/08/09	61.64	60.03	-1.61
1961/10/06	83.10	81.77	-1.33
1962/04/15	41.54	36.97	-4.57
1962/07/08	68.65	66.82	-1.84
1963/05/07	52.58	44.89	-7.70
1964/04/12	46.47	42.03	-4.44
1964/07/25	63.28	60.51	-2.77
1965/03/22	50.11	43.54	-6.56
1966/02/15	50.60	42.45	-8.15
1966/05/18	65.72	61.47	-4.26
1967/04/09	49.18	43.00	-6.18
1967/07/01	66.61	64.39	-2.22
1968/08/24	68.08	66.17	-1.92
1969/04/13	47.72	40.76	-6.97
1969/06/15	53.89	49.32	-4.57
1969/08/01	37.49	35.04	-2.45
1969/10/25	79.92	78.30	-1.62
1970/05/20	55.27	49.12	-6.16
1970/12/18	48.76	40.14	-8.62
1971/03/04	41.28	38.22	-3.06

1971/08/28	61.89	60.65	-1.24
1972/03/21	58.52	52.54	-5.99
1972/04/27	84.26	81.13	-3.13
1972/09/01	81.83	79.04	-2.79
1972/10/05	75.65	73.98	-1.68
1973/01/08	69.07	67.72	-1.36
1973/05/08	59.35	55.61	-3.74
1974/02/28	55.78	46.69	-9.09
1974/04/21	54.10	46.32	-7.78
1974/05/25	51.87	44.72	-7.15
1975/01/16	50.54	43.03	-7.51
1975/05/05	70.73	69.18	-1.55
1975/09/08	67.14	64.51	-2.63
1976/03/21	68.51	66.57	-1.94
1977/07/05	55.71	51.55	-4.17
1977/08/13	50.73	41.58	-9.15
1977/09/07	54.19	46.43	-7.76
1978/04/02	30.54	30.35	-0.19
1978/05/21	45.96	39.06	-6.90
1978/07/09	52.69	45.97	-6.72
1978/09/25	69.29	66.82	-2.48
1979/04/18	67.93	65.75	-2.17
1979/09/05	61.12	56.94	-4.19
1980/01/21	28.74	28.78	0.04
1980/08/26	73.03	70.91	-2.12
1980/09/26	52.74	45.11	-7.63
1981/05/03	62.64	59.27	-3.37
1981/06/05	83.05	80.61	-2.44
1981/06/21	50.28	41.18	-9.09
1981/08/23	59.46	55.78	-3.69
1982/03/28	61.27	54.37	-6.90
1982/07/31	67.07	64.42	-2.65
1982/08/14	69.59	68.02	-1.57
1982/12/12	111.97	96.94	-15.03
1983/01/04	75.93	73.46	-2.47
1983/04/22	59.04	54.78	-4.27
1983/06/04	60.95	58.41	-2.54
1983/07/09	61.32	57.40	-3.92
1983/12/05	68.47	66.39	-2.08
1984/02/25	54.19	45.07	-9.12
1984/04/03	59.91	54.14	-5.78
1985/03/19	76.13	74.64	-1.49
1985/12/11	58.56	54.74	-3.82
1986/07/19	48.61	40.39	-8.22
1986/10/10	68.21	66.20	-2.02
1987/09/06	239.82	266.16	26.34
1988/01/01	51.04	42.74	-8.30
1988/02/07	48.05	41.89	-6.16
1988/04/13	37.53	35.04	-2.49
1988/10/26	75.19	74.53	-0.66
1989/08/18	107.39	91.14	-16.25
1989/09/18	74.34	72.47	-1.86
1990/03/16	65.37	62.82	-2.55
1990/05/19	65.29	62.06	-3.23
1990/08/28	89.95	86.26	-3.69
1990/12/10	59.18	57.06	-2.12
1991/04/23	53.38	46.61	-6.77
1991/06/02	50.19	41.87	-8.32
1991/10/09	55.53	52.61	-2.92
1991/11/08	53.57	47.17	-6.40
1991/12/18	41.14	37.44	-3.70
1992/09/21	58.58	54.45	-4.13
1993/01/11	55.93	48.56	-7.37

1993/04/29	55.29	49.36	-5.93
1993/07/06	66.60	65.04	-1.56
1994/03/13	54.32	48.34	-5.98
1994/07/02	67.36	65.25	-2.11
1994/08/24	48.31	39.83	-8.48
1995/01/25	47.97	40.99	-6.98
1995/05/06	49.00	44.51	-4.49
1995/08/24	57.50	53.32	-4.18
1995/11/18	53.20	45.56	-7.64
1996/06/27	63.08	60.90	-2.18
1996/08/05	55.75	49.50	-6.25
1997/03/06	80.51	78.90	-1.61
1998/03/25	46.30	39.95	-6.35
1998/05/15	49.78	41.22	-8.56
1998/08/15	66.14	65.56	-0.58
1998/09/14	47.75	39.26	-8.49
1998/10/25	55.26	51.79	-3.47
1999/02/09	62.15	57.65	-4.50
1999/05/06	65.30	62.24	-3.06
2000/04/28	72.73	74.08	1.35
2001/03/02	58.80	52.03	-6.77
2001/09/06	141.14	101.33	-39.81
2001/09/30	62.38	59.69	-2.69
2001/10/31	85.54	85.70	0.17
2002/03/15	47.52	39.54	-7.99
2002/05/22	56.09	49.88	-6.22
2002/07/14	60.23	59.42	-0.81
2002/08/29	86.45	82.84	-3.61
2003/05/19	57.20	51.69	-5.51
2003/08/13	47.94	39.64	-8.31
2003/11/29	51.44	43.06	-8.38
2004/03/11	38.91	35.96	-2.96
2004/06/18	61.90	60.89	-1.01
2005/01/18	53.22	47.73	-5.49
2006/03/18	46.49	41.01	-5.47
2006/07/03	52.58	44.75	-7.83
2006/09/29	57.16	54.32	-2.84
2006/10/09	52.91	45.56	-7.36
2007/03/15	57.56	51.06	-6.49
2007/08/31	75.50	74.35	-1.16
2008/03/09	57.79	51.79	-5.99
2008/05/18	42.84	37.41	-5.43
2008/09/23	131.27	140.55	9.28
Max Flow	239.82	266.16	
StormEvent	1987/09/06	1987/09/06	

Klein Creek, Carol Stream (CBBEL Project No. 09-0321)
Comparison of Peak Flow Rates
at
12:1207 Mainstem US North Ave
8. Branch# 12; Node ID: D12 ; Station: 2.1190

	(1) V10Base.pek	(2) prop6c3.pek	2-1
Nodes ==>	1207	1207	
1925/01/02	54.24	52.19	-2.05
1949/04/08	222.00	205.58	-16.42
1949/06/21	415.46	380.70	-34.76
1949/07/27	238.00	224.41	-13.59
1949/12/31	286.48	247.74	-38.74
1950/01/31	248.84	237.01	-11.83
1950/05/03	420.04	419.51	-0.53
1950/06/11	353.30	320.42	-32.88
1951/03/09	263.36	250.24	-13.12
1951/05/17	239.74	211.42	-28.32
1951/07/29	236.01	223.41	-12.60
1952/01/25	277.04	262.51	-14.53
1952/03/28	167.34	158.90	-8.44
1953/03/23	219.20	207.68	-11.52
1953/06/16	216.06	214.96	-1.10
1953/07/28	452.58	440.47	-12.11
1954/04/05	504.23	477.50	-26.73
1954/05/08	309.24	260.10	-49.14
1954/08/29	267.26	263.79	-3.47
1954/10/25	484.16	496.83	12.67
1955/03/09	112.90	112.71	-0.19
1956/05/18	217.83	199.25	-18.58
1957/01/27	147.19	137.90	-9.29
1957/03/04	342.26	318.57	-23.69
1957/07/28	651.27	594.86	-56.41
1958/04/30	333.96	327.41	-6.55
1958/06/19	189.42	182.80	-6.62
1958/07/11	142.60	137.75	-4.85
1959/04/07	105.55	102.03	-3.52
1959/07/27	77.03	76.44	-0.59
1960/01/21	175.76	173.11	-2.65
1960/04/04	48.65	48.64	-0.01
1961/08/09	196.42	192.43	-3.99
1961/10/06	435.89	379.11	-56.78
1962/04/15	106.30	107.38	1.08
1962/07/08	257.49	246.12	-11.37
1963/05/07	166.04	155.39	-10.65
1964/04/12	155.77	151.65	-4.12
1964/07/25	190.30	187.13	-3.17
1965/03/22	184.14	179.42	-4.72
1966/02/15	169.82	158.09	-11.73
1966/05/18	263.40	246.24	-17.16
1967/04/09	172.26	167.28	-4.98
1967/07/01	237.39	224.95	-12.44
1968/08/24	248.61	233.79	-14.82
1969/04/13	132.38	130.12	-2.26
1969/06/15	210.15	195.59	-14.56
1969/08/01	98.50	97.74	-0.76
1969/10/25	367.81	331.11	-36.70
1970/05/20	187.55	175.87	-11.68
1970/12/18	127.45	118.75	-8.70
1971/03/04	126.23	125.39	-0.84

1971/08/28	191.11	184.43	-6.68
1972/03/21	202.31	194.78	-7.53
1972/04/27	392.71	379.26	-13.45
1972/09/01	368.72	355.90	-12.82
1972/10/05	324.02	312.90	-11.12
1973/01/08	337.20	294.44	-42.76
1973/05/08	190.59	186.06	-4.53
1974/02/28	219.77	209.88	-9.89
1974/04/21	148.87	144.49	-4.38
1974/05/25	143.24	138.69	-4.55
1975/01/16	201.78	185.49	-16.29
1975/05/05	277.00	270.58	-6.42
1975/09/08	276.45	246.07	-30.38
1976/03/21	285.23	278.75	-6.48
1977/07/05	165.15	159.10	-6.05
1977/08/13	133.57	122.48	-11.09
1977/09/07	124.08	118.09	-5.99
1978/04/02	87.66	87.66	0.00
1978/05/21	119.92	115.97	-3.95
1978/07/09	202.86	185.67	-17.19
1978/09/25	252.62	246.18	-6.44
1979/04/18	332.20	339.96	7.76
1979/09/05	201.87	193.56	-8.31
1980/01/21	67.01	66.94	-0.07
1980/08/26	297.54	286.52	-11.02
1980/09/26	150.00	136.20	-13.80
1981/05/03	211.81	207.15	-4.66
1981/06/05	393.39	373.58	-19.81
1981/06/21	130.50	125.66	-4.84
1981/08/23	214.18	208.37	-5.81
1982/03/28	291.72	273.42	-18.30
1982/07/31	257.17	247.23	-9.94
1982/08/14	263.63	257.52	-6.11
1982/12/12	542.20	501.48	-40.72
1983/01/04	319.21	309.12	-10.09
1983/04/22	282.99	255.41	-27.58
1983/06/04	225.06	220.67	-4.39
1983/07/09	229.44	222.62	-6.82
1983/12/05	274.66	264.28	-10.38
1984/02/25	254.85	223.59	-31.26
1984/04/03	225.64	215.87	-9.77
1985/03/19	423.49	406.64	-16.85
1985/12/11	213.93	210.43	-3.50
1986/07/19	130.89	130.16	-0.73
1986/10/10	260.29	253.31	-6.98
1987/09/06	673.09	668.88	-4.21
1988/01/01	147.35	139.30	-8.05
1988/02/07	138.41	138.31	-0.10
1988/04/13	109.47	106.03	-3.44
1988/10/26	304.85	294.05	-10.80
1989/08/18	432.04	413.88	-18.16
1989/09/18	293.01	286.57	-6.44
1990/03/16	280.27	272.41	-7.86
1990/05/19	262.55	231.78	-30.77
1990/08/28	385.49	377.24	-8.25
1990/12/10	251.41	226.42	-24.99
1991/04/23	179.08	171.02	-8.06
1991/06/02	155.58	143.73	-11.85
1991/10/09	202.64	192.15	-10.49
1991/11/08	139.01	131.49	-7.52
1991/12/18	112.07	112.10	0.03
1992/09/21	150.39	149.88	-0.51
1993/01/11	198.65	190.93	-7.72

1993/04/29	257.06	227.33	-29.73
1993/07/06	260.15	255.68	-4.47
1994/03/13	233.96	216.45	-17.51
1994/07/02	259.44	241.65	-17.79
1994/08/24	120.13	114.92	-5.21
1995/01/25	180.32	172.30	-8.02
1995/05/06	185.53	176.86	-8.67
1995/08/24	156.38	155.85	-0.53
1995/11/18	184.96	173.25	-11.71
1996/06/27	211.48	210.34	-1.14
1996/08/05	172.32	166.61	-5.71
1997/03/06	440.14	381.17	-58.97
1998/03/25	142.51	141.38	-1.13
1998/05/15	157.36	153.26	-4.10
1998/08/15	240.19	237.05	-3.14
1998/09/14	96.38	92.05	-4.33
1998/10/25	191.74	178.93	-12.81
1999/02/09	288.17	243.46	-44.71
1999/05/06	278.07	254.89	-23.18
2000/04/28	324.57	317.67	-6.90
2001/03/02	213.52	209.57	-3.95
2001/09/06	518.87	487.81	-31.06
2001/09/30	220.92	214.51	-6.41
2001/10/31	432.43	404.42	-28.01
2002/03/15	174.35	170.78	-3.57
2002/05/22	184.11	170.78	-13.33
2002/07/14	189.08	185.39	-3.69
2002/08/29	383.29	365.41	-17.88
2003/05/19	202.00	187.03	-14.97
2003/08/13	106.41	104.37	-2.04
2003/11/29	130.58	123.92	-6.66
2004/03/11	110.19	108.32	-1.87
2004/06/18	185.25	189.81	4.56
2005/01/18	235.47	207.97	-27.50
2006/03/18	143.34	140.95	-2.39
2006/07/03	130.53	124.19	-6.34
2006/09/29	162.61	160.75	-1.86
2006/10/09	127.15	121.23	-5.92
2007/03/15	217.90	207.74	-10.16
2007/08/31	333.05	319.14	-13.91
2008/03/09	248.45	230.83	-17.62
2008/05/18	92.27	88.14	-4.12
2008/09/23	533.03	535.90	2.87
Max Flow	673.09	668.88	
StormEvent	1987/09/06	1987/09/06	

Klein Creek, Carol Stream (CBBEL Project No. 09-0321)
Comparison of Peak Flow Rates
at
13:1306 Mainstem US Kuhn
9. Branch# 13; Node ID: D13 ; Station: 2.3280

	(1) V10Base.pek	(2) prop6c3.pek	2-1
Nodes ==>	1306	1306	
1925/01/02	54.85	52.83	-2.02
1949/04/08	206.87	181.80	-25.07
1949/06/21	334.68	288.26	-46.42
1949/07/27	197.23	184.06	-13.17
1949/12/31	262.72	221.38	-41.34
1950/01/31	214.02	198.76	-15.26
1950/05/03	344.09	348.34	4.25
1950/06/11	297.47	254.33	-43.14
1951/03/09	224.09	208.28	-15.81
1951/05/17	222.00	190.26	-31.74
1951/07/29	201.42	191.15	-10.27
1952/01/25	236.62	211.95	-24.67
1952/03/28	151.76	146.86	-4.90
1953/03/23	190.21	180.06	-10.15
1953/06/16	176.81	171.11	-5.70
1953/07/28	345.52	311.68	-33.84
1954/04/05	394.45	337.03	-57.42
1954/05/08	276.47	238.00	-38.47
1954/08/29	206.62	199.08	-7.54
1954/10/25	416.11	441.39	25.28
1955/03/09	103.96	103.35	-0.61
1956/05/18	204.23	180.69	-23.54
1957/01/27	140.19	131.35	-8.84
1957/03/04	280.49	240.34	-40.15
1957/07/28	489.31	494.08	4.77
1958/04/30	256.34	239.12	-17.22
1958/06/19	165.77	159.07	-6.70
1958/07/11	127.85	121.76	-6.09
1959/04/07	98.71	93.77	-4.93
1959/07/27	73.21	72.69	-0.52
1960/01/21	159.67	155.51	-4.16
1960/04/04	45.85	45.84	0.00
1961/08/09	166.93	160.67	-6.26
1961/10/06	361.47	325.31	-36.16
1962/04/15	98.75	95.78	-2.97
1962/07/08	209.23	192.07	-17.16
1963/05/07	158.45	149.36	-9.09
1964/04/12	147.59	142.58	-5.01
1964/07/25	158.64	152.34	-6.30
1965/03/22	170.11	163.64	-6.47
1966/02/15	150.73	143.29	-7.44
1966/05/18	250.69	220.13	-30.56
1967/04/09	162.94	158.18	-4.76
1967/07/01	216.06	195.85	-20.21
1968/08/24	221.92	203.28	-18.64
1969/04/13	122.30	117.04	-5.26
1969/06/15	197.76	178.27	-19.49
1969/08/01	93.90	91.75	-2.15
1969/10/25	309.57	259.34	-50.23
1970/05/20	178.75	166.14	-12.61
1970/12/18	119.40	109.36	-10.04
1971/03/04	110.96	109.47	-1.49

1971/08/28	166.15	154.40	-11.75
1972/03/21	164.01	152.37	-11.64
1972/04/27	285.24	265.14	-20.10
1972/09/01	275.34	263.36	-11.98
1972/10/05	265.25	247.76	-17.49
1973/01/08	290.40	245.82	-44.58
1973/05/08	158.68	152.21	-6.47
1974/02/28	199.02	179.01	-20.01
1974/04/21	127.54	121.79	-5.75
1974/05/25	135.47	130.41	-5.06
1975/01/16	188.84	170.79	-18.05
1975/05/05	214.38	201.76	-12.62
1975/09/08	250.97	211.64	-39.33
1976/03/21	226.86	216.49	-10.37
1977/07/05	146.82	137.25	-9.57
1977/08/13	126.38	112.91	-13.47
1977/09/07	109.73	103.09	-6.64
1978/04/02	81.46	81.46	0.00
1978/05/21	115.00	109.13	-5.87
1978/07/09	191.92	172.23	-19.69
1978/09/25	238.84	208.11	-30.73
1979/04/18	293.85	305.76	11.91
1979/09/05	178.65	170.25	-8.40
1980/01/21	63.87	63.79	-0.08
1980/08/26	243.23	228.78	-14.45
1980/09/26	139.75	126.80	-12.95
1981/05/03	178.96	170.67	-8.29
1981/06/05	307.26	275.82	-31.44
1981/06/21	123.25	118.66	-4.59
1981/08/23	193.15	185.15	-8.00
1982/03/28	244.36	219.30	-25.06
1982/07/31	212.19	193.06	-19.13
1982/08/14	211.62	197.32	-14.30
1982/12/12	418.79	377.09	-41.70
1983/01/04	237.41	220.51	-16.90
1983/04/22	267.67	247.23	-20.44
1983/06/04	183.35	178.42	-4.93
1983/07/09	196.99	189.20	-7.79
1983/12/05	231.42	215.07	-16.35
1984/02/25	226.34	193.14	-33.20
1984/04/03	184.81	168.64	-16.17
1985/03/19	348.90	362.90	14.00
1985/12/11	194.11	182.33	-11.78
1986/07/19	125.80	118.22	-7.58
1986/10/10	217.93	209.23	-8.70
1987/09/06	656.61	654.11	-2.50
1988/01/01	138.64	133.09	-5.55
1988/02/07	118.07	116.64	-1.43
1988/04/13	105.01	100.89	-4.12
1988/10/26	258.07	239.43	-18.64
1989/08/18	329.66	297.26	-32.40
1989/09/18	220.94	209.02	-11.92
1990/03/16	219.67	210.94	-8.73
1990/05/19	243.16	202.46	-40.70
1990/08/28	295.44	278.28	-17.16
1990/12/10	226.49	198.49	-28.00
1991/04/23	165.49	157.95	-7.54
1991/06/02	142.24	128.40	-13.84
1991/10/09	192.36	177.35	-15.01
1991/11/08	130.96	123.23	-7.73
1991/12/18	103.06	100.79	-2.27
1992/09/21	123.17	121.10	-2.07
1993/01/11	168.75	160.55	-8.20

1993/04/29	227.91	195.92	-31.99
1993/07/06	220.23	204.59	-15.64
1994/03/13	207.10	187.43	-19.67
1994/07/02	233.91	208.14	-25.77
1994/08/24	113.18	106.94	-6.24
1995/01/25	168.43	159.99	-8.44
1995/05/06	176.31	166.47	-9.84
1995/08/24	136.87	130.24	-6.63
1995/11/18	178.21	165.04	-13.17
1996/06/27	174.32	167.01	-7.31
1996/08/05	166.83	159.58	-7.25
1997/03/06	358.77	321.27	-37.50
1998/03/25	133.84	132.56	-1.28
1998/05/15	148.68	147.51	-1.17
1998/08/15	202.53	194.24	-8.29
1998/09/14	91.24	84.34	-6.89
1998/10/25	185.65	167.99	-17.66
1999/02/09	256.90	219.36	-37.54
1999/05/06	243.94	215.57	-28.37
2000/04/28	264.38	248.57	-15.81
2001/03/02	191.77	173.17	-18.60
2001/09/06	401.37	344.78	-56.59
2001/09/30	192.30	185.16	-7.14
2001/10/31	340.04	299.91	-40.13
2002/03/15	157.16	152.81	-4.35
2002/05/22	168.17	157.00	-11.17
2002/07/14	162.87	154.26	-8.61
2002/08/29	296.74	275.97	-20.77
2003/05/19	194.06	173.81	-20.25
2003/08/13	101.61	95.32	-6.29
2003/11/29	123.82	117.19	-6.63
2004/03/11	104.15	101.67	-2.48
2004/06/18	150.81	149.64	-1.17
2005/01/18	215.19	184.66	-30.53
2006/03/18	125.62	120.76	-4.86
2006/07/03	117.60	110.69	-6.91
2006/09/29	149.83	143.97	-5.86
2006/10/09	115.99	109.18	-6.81
2007/03/15	198.85	184.29	-14.56
2007/08/31	267.30	249.16	-18.14
2008/03/09	225.46	194.71	-30.75
2008/05/18	87.03	82.61	-4.42
2008/09/23	509.42	513.69	4.27
Max Flow	656.61	654.11	
StormEvent	1987/09/06	1987/09/06	

Klein Creek, Carol Stream (CBBEL Project No. 09-0321)
Comparison of Peak Flow Rates
at
15:1502 Mainstem US of Thunderbird
10. Branch# 15; Node ID: D15 ; Station: 2.9780

	(1) V10Base.pek	(2) prop6c3.pek	2-1
Nodes ==>	1502	1502	
1925/01/02	55.13	53.05	-2.08
1949/04/08	194.30	163.79	-30.51
1949/06/21	267.86	201.71	-66.15
1949/07/27	171.38	158.75	-12.63
1949/12/31	241.39	180.16	-61.23
1950/01/31	189.48	166.69	-22.79
1950/05/03	276.39	202.10	-74.29
1950/06/11	256.44	190.69	-65.75
1951/03/09	190.29	169.45	-20.84
1951/05/17	207.86	169.91	-37.95
1951/07/29	177.30	163.94	-13.36
1952/01/25	219.79	175.96	-43.83
1952/03/28	139.71	138.22	-1.49
1953/03/23	172.72	158.95	-13.77
1953/06/16	146.22	139.08	-7.14
1953/07/28	261.08	186.09	-74.99
1954/04/05	309.50	233.98	-75.52
1954/05/08	248.23	183.27	-64.96
1954/08/29	185.98	163.52	-22.46
1954/10/25	404.62	293.50	-111.12
1955/03/09	99.88	99.31	-0.56
1956/05/18	193.60	163.73	-29.87
1957/01/27	134.64	126.72	-7.92
1957/03/04	244.16	187.14	-57.02
1957/07/28	482.25	371.09	-111.16
1958/04/30	178.63	164.12	-14.51
1958/06/19	150.29	143.41	-6.88
1958/07/11	119.07	112.78	-6.29
1959/04/07	92.32	88.88	-3.45
1959/07/27	70.18	69.93	-0.24
1960/01/21	155.38	150.63	-4.75
1960/04/04	44.08	44.07	0.00
1961/08/09	148.42	147.72	-0.70
1961/10/06	309.45	230.68	-78.77
1962/04/15	93.14	89.90	-3.24
1962/07/08	184.28	166.96	-17.32
1963/05/07	151.89	145.32	-6.57
1964/04/12	141.99	137.77	-4.22
1964/07/25	154.84	149.72	-5.12
1965/03/22	159.37	152.59	-6.78
1966/02/15	140.30	137.00	-3.30
1966/05/18	238.30	175.84	-62.46
1967/04/09	155.59	151.05	-4.54
1967/07/01	203.46	173.39	-30.07
1968/08/24	214.72	175.64	-39.08
1969/04/13	114.95	110.99	-3.96
1969/06/15	187.41	162.13	-25.28
1969/08/01	90.89	88.55	-2.33
1969/10/25	262.79	194.10	-68.69
1970/05/20	171.26	156.62	-14.64
1970/12/18	112.59	101.98	-10.61
1971/03/04	103.05	98.44	-4.61

1971/08/28	155.88	146.62	-9.26
1972/03/21	136.59	126.87	-9.72
1972/04/27	218.74	180.94	-37.80
1972/09/01	206.50	176.82	-29.68
1972/10/05	228.28	181.69	-46.59
1973/01/08	256.09	187.37	-68.72
1973/05/08	134.52	133.78	-0.74
1974/02/28	185.45	160.73	-24.72
1974/04/21	111.65	104.02	-7.63
1974/05/25	128.26	124.00	-4.26
1975/01/16	179.69	159.80	-19.89
1975/05/05	159.97	152.38	-7.59
1975/09/08	234.51	181.68	-52.83
1976/03/21	203.23	173.35	-29.88
1977/07/05	133.50	124.11	-9.39
1977/08/13	121.55	111.77	-9.78
1977/09/07	107.47	99.62	-7.85
1978/04/02	77.33	77.32	0.00
1978/05/21	110.70	106.15	-4.55
1978/07/09	182.61	160.54	-22.07
1978/09/25	231.07	174.43	-56.64
1979/04/18	280.83	190.44	-90.39
1979/09/05	169.43	157.05	-12.38
1980/01/21	61.30	61.20	-0.10
1980/08/26	207.13	176.81	-30.32
1980/09/26	132.61	123.17	-9.44
1981/05/03	171.21	156.95	-14.26
1981/06/05	239.72	186.74	-52.98
1981/06/21	117.98	113.37	-4.61
1981/08/23	176.92	163.48	-13.44
1982/03/28	203.58	170.93	-32.65
1982/07/31	198.63	168.35	-30.28
1982/08/14	185.54	160.95	-24.59
1982/12/12	337.16	282.18	-54.98
1983/01/04	214.05	170.60	-43.45
1983/04/22	253.78	177.48	-76.30
1983/06/04	148.93	142.78	-6.15
1983/07/09	175.72	161.96	-13.76
1983/12/05	222.00	175.54	-46.46
1984/02/25	205.10	167.05	-38.05
1984/04/03	156.87	146.82	-10.05
1985/03/19	305.00	213.81	-91.19
1985/12/11	188.39	163.85	-24.54
1986/07/19	122.12	114.95	-7.17
1986/10/10	188.73	169.79	-18.94
1987/09/06	640.33	519.92	-120.41
1988/01/01	133.43	128.51	-4.92
1988/02/07	109.71	105.01	-4.70
1988/04/13	100.77	96.55	-4.22
1988/10/26	222.76	184.11	-38.65
1989/08/18	262.25	192.15	-70.10
1989/09/18	187.38	164.79	-22.59
1990/03/16	199.17	167.00	-32.17
1990/05/19	230.63	175.86	-54.77
1990/08/28	219.25	184.07	-35.18
1990/12/10	213.11	173.71	-39.40
1991/04/23	154.32	149.26	-5.06
1991/06/02	133.35	122.82	-10.53
1991/10/09	186.96	163.98	-22.98
1991/11/08	125.51	119.23	-6.28
1991/12/18	96.98	93.94	-3.04
1992/09/21	117.45	111.04	-6.41
1993/01/11	151.07	149.62	-1.45

1993/04/29	207.49	168.48	-39.01
1993/07/06	200.03	172.05	-27.98
1994/03/13	187.33	163.19	-24.14
1994/07/02	228.13	177.97	-50.16
1994/08/24	108.72	103.20	-5.52
1995/01/25	160.64	151.99	-8.65
1995/05/06	168.03	156.23	-11.80
1995/08/24	129.88	123.83	-6.05
1995/11/18	173.20	157.86	-15.34
1996/06/27	164.67	154.47	-10.20
1996/08/05	161.81	153.88	-7.93
1997/03/06	313.73	229.54	-84.19
1998/03/25	127.37	126.00	-1.37
1998/05/15	143.01	142.29	-0.72
1998/08/15	180.08	167.13	-12.95
1998/09/14	88.11	81.17	-6.94
1998/10/25	181.86	159.38	-22.48
1999/02/09	236.41	178.69	-57.72
1999/05/06	212.60	177.32	-35.28
2000/04/28	217.86	181.89	-35.97
2001/03/02	180.51	159.04	-21.47
2001/09/06	308.55	237.27	-71.28
2001/09/30	182.30	162.51	-19.79
2001/10/31	289.00	200.39	-88.61
2002/03/15	143.08	138.26	-4.82
2002/05/22	155.96	148.50	-7.46
2002/07/14	145.84	136.52	-9.32
2002/08/29	267.97	193.47	-74.50
2003/05/19	187.36	161.65	-25.71
2003/08/13	98.10	91.35	-6.76
2003/11/29	118.41	112.68	-5.73
2004/03/11	100.59	96.32	-4.26
2004/06/18	144.61	138.15	-6.46
2005/01/18	201.04	166.88	-34.16
2006/03/18	117.54	115.79	-1.75
2006/07/03	110.71	100.99	-9.72
2006/09/29	144.40	138.25	-6.15
2006/10/09	110.05	99.98	-10.07
2007/03/15	185.76	162.07	-23.69
2007/08/31	219.07	182.31	-36.76
2008/03/09	208.58	168.32	-40.26
2008/05/18	82.12	77.99	-4.12
2008/09/23	495.87	382.54	-113.33
Max Flow	640.33	519.92	
StormEvent	1987/09/06	1987/09/06	

Klein Creek, Carol Stream (CBBEL Project No. 09-0321)
Comparison of Peak Flow Rates
at
17:1704 Mainstem US Illini Drive
11. Branch# 17; Node ID: D17 ; Station: 3.4070

	(1) V10Base.pek	(2) prop6c3.pek	2-1
Nodes ==>	1704	1704	
1925/01/02	21.04	21.07	0.03
1949/04/08	141.91	116.31	-25.60
1949/06/21	194.89	124.96	-69.93
1949/07/27	128.84	115.34	-13.50
1949/12/31	183.93	121.77	-62.16
1950/01/31	139.52	117.31	-22.21
1950/05/03	214.34	123.89	-90.45
1950/06/11	187.69	122.55	-65.14
1951/03/09	136.07	115.33	-20.74
1951/05/17	157.90	118.28	-39.62
1951/07/29	133.97	116.52	-17.45
1952/01/25	166.57	122.90	-43.67
1952/03/28	103.80	103.74	-0.06
1953/03/23	124.64	115.59	-9.05
1953/06/16	105.32	104.56	-0.76
1953/07/28	193.11	124.80	-68.31
1954/04/05	250.20	139.17	-111.03
1954/05/08	191.08	121.32	-69.76
1954/08/29	139.39	115.86	-23.53
1954/10/25	325.06	207.88	-117.18
1955/03/09	74.11	74.00	-0.11
1956/05/18	138.64	114.41	-24.23
1957/01/27	93.75	92.68	-1.07
1957/03/04	184.74	124.18	-60.56
1957/07/28	397.06	285.32	-111.74
1958/04/30	136.50	117.06	-19.44
1958/06/19	110.99	110.17	-0.82
1958/07/11	79.06	78.80	-0.26
1959/04/07	65.05	65.09	0.04
1959/07/27	48.63	48.47	-0.16
1960/01/21	120.32	114.58	-5.74
1960/04/04	31.06	31.03	-0.03
1961/08/09	111.79	111.32	-0.47
1961/10/06	242.61	147.99	-94.62
1962/04/15	67.00	67.05	0.05
1962/07/08	142.28	118.09	-24.19
1963/05/07	112.92	111.43	-1.49
1964/04/12	104.08	103.52	-0.56
1964/07/25	115.84	113.33	-2.51
1965/03/22	115.46	112.74	-2.72
1966/02/15	104.25	103.53	-0.72
1966/05/18	180.27	121.90	-58.37
1967/04/09	112.64	111.17	-1.47
1967/07/01	160.33	120.72	-39.61
1968/08/24	168.87	122.50	-46.37
1969/04/13	83.42	83.24	-0.18
1969/06/15	141.03	116.11	-24.92
1969/08/01	59.63	59.41	-0.22
1969/10/25	198.62	125.63	-72.99
1970/05/20	128.47	115.27	-13.20
1970/12/18	78.30	77.85	-0.45
1971/03/04	66.45	65.41	-1.04

1971/08/28	114.56	112.67	-1.89
1972/03/21	98.57	98.19	-0.38
1972/04/27	172.75	122.79	-49.96
1972/09/01	163.59	120.99	-42.60
1972/10/05	172.94	119.65	-53.29
1973/01/08	204.39	123.74	-80.65
1973/05/08	99.68	99.39	-0.29
1974/02/28	140.86	117.90	-22.96
1974/04/21	70.66	70.32	-0.34
1974/05/25	89.73	89.44	-0.29
1975/01/16	135.20	116.82	-18.38
1975/05/05	117.56	113.07	-4.49
1975/09/08	179.07	121.78	-57.29
1976/03/21	149.45	117.05	-32.40
1977/07/05	92.58	91.26	-1.32
1977/08/13	83.57	82.53	-1.04
1977/09/07	71.64	70.50	-1.14
1978/04/02	59.06	59.06	0.00
1978/05/21	80.15	79.86	-0.29
1978/07/09	135.28	115.24	-20.04
1978/09/25	172.83	120.09	-52.74
1979/04/18	219.39	127.62	-91.77
1979/09/05	126.67	115.03	-11.64
1980/01/21	43.35	43.22	-0.13
1980/08/26	162.49	120.47	-42.02
1980/09/26	93.56	92.44	-1.12
1981/05/03	126.17	114.72	-11.45
1981/06/05	186.32	124.60	-61.72
1981/06/21	86.01	85.38	-0.64
1981/08/23	127.18	114.85	-12.33
1982/03/28	157.86	120.90	-36.96
1982/07/31	150.54	117.88	-32.66
1982/08/14	134.28	115.70	-18.58
1982/12/12	269.64	180.49	-89.15
1983/01/04	159.80	119.49	-40.31
1983/04/22	195.39	121.26	-74.13
1983/06/04	107.36	106.71	-0.65
1983/07/09	126.38	114.78	-11.60
1983/12/05	168.36	120.15	-48.21
1984/02/25	151.98	120.70	-31.28
1984/04/03	112.86	110.91	-1.95
1985/03/19	234.72	139.17	-95.55
1985/12/11	144.49	117.41	-27.08
1986/07/19	80.79	80.33	-0.46
1986/10/10	142.55	116.74	-25.81
1987/09/06	532.03	416.67	-115.36
1988/01/01	99.47	98.34	-1.13
1988/02/07	76.10	75.98	-0.11
1988/04/13	72.38	71.88	-0.50
1988/10/26	175.36	123.28	-52.08
1989/08/18	196.31	123.60	-72.71
1989/09/18	146.19	117.77	-28.42
1990/03/16	146.73	117.84	-28.89
1990/05/19	174.19	120.40	-53.79
1990/08/28	172.21	122.33	-49.88
1990/12/10	160.43	119.52	-40.91
1991/04/23	113.66	112.01	-1.65
1991/06/02	91.34	90.07	-1.27
1991/10/09	139.43	117.42	-22.01
1991/11/08	85.65	85.25	-0.39
1991/12/18	60.15	59.86	-0.29
1992/09/21	78.25	77.98	-0.27
1993/01/11	112.27	111.10	-1.17

1993/04/29	155.99	119.78	-36.21
1993/07/06	147.25	116.26	-30.99
1994/03/13	136.94	117.29	-19.65
1994/07/02	175.10	122.25	-52.85
1994/08/24	74.81	74.54	-0.27
1995/01/25	120.11	114.65	-5.46
1995/05/06	123.67	114.15	-9.52
1995/08/24	89.81	89.72	-0.09
1995/11/18	128.89	116.10	-12.79
1996/06/27	120.70	113.64	-7.06
1996/08/05	118.96	114.00	-4.96
1997/03/06	247.69	153.93	-93.76
1998/03/25	94.14	93.99	-0.15
1998/05/15	112.17	111.56	-0.61
1998/08/15	131.56	115.78	-15.78
1998/09/14	48.47	48.06	-0.42
1998/10/25	137.81	116.56	-21.25
1999/02/09	168.81	117.90	-50.91
1999/05/06	160.13	119.53	-40.60
2000/04/28	161.34	118.20	-43.14
2001/03/02	136.50	117.49	-19.01
2001/09/06	245.60	143.55	-102.05
2001/09/30	136.08	115.94	-20.14
2001/10/31	231.38	127.84	-103.54
2002/03/15	99.71	99.41	-0.31
2002/05/22	116.03	113.20	-2.83
2002/07/14	104.11	102.43	-1.68
2002/08/29	215.46	125.85	-89.61
2003/05/19	138.41	115.98	-22.43
2003/08/13	59.71	59.35	-0.36
2003/11/29	80.93	80.90	-0.03
2004/03/11	69.91	69.34	-0.57
2004/06/18	97.96	97.51	-0.45
2005/01/18	148.59	117.86	-30.73
2006/03/18	84.53	84.51	-0.01
2006/07/03	72.86	71.87	-0.98
2006/09/29	97.86	97.40	-0.46
2006/10/09	68.85	68.38	-0.47
2007/03/15	136.16	117.04	-19.12
2007/08/31	162.14	118.63	-43.51
2008/03/09	157.20	120.18	-37.02
2008/05/18	47.66	47.35	-0.31
2008/09/23	405.33	291.08	-114.25
Max Flow	532.03	416.67	
StormEvent	1987/09/06	1987/09/06	

Klein Creek, Carol Stream (CBBEL Project No. 09-0321)
Comparison of Peak Flow Rates
at
18:1809 Mainstem at Armstrong Pk
12. Branch# 18; Node ID: D18 ; Station: 3.5770

	(1) V10Base.pek	(2) prop6c3.pek	2-1
Nodes ==>	1809	1809	
1925/01/02	21.05	21.09	0.04
1949/04/08	129.92	129.52	-0.40
1949/06/21	187.41	189.51	2.10
1949/07/27	119.44	117.53	-1.91
1949/12/31	162.28	165.93	3.65
1950/01/31	129.21	126.93	-2.28
1950/05/03	187.26	192.13	4.87
1950/06/11	176.23	178.54	2.31
1951/03/09	127.25	125.55	-1.70
1951/05/17	147.18	148.74	1.56
1951/07/29	124.30	122.30	-2.00
1952/01/25	152.52	152.02	-0.50
1952/03/28	95.68	95.40	-0.28
1953/03/23	116.79	115.03	-1.76
1953/06/16	99.24	98.78	-0.47
1953/07/28	183.14	184.58	1.44
1954/04/05	219.83	226.21	6.38
1954/05/08	174.38	179.75	5.37
1954/08/29	131.10	129.49	-1.61
1954/10/25	285.88	281.06	-4.82
1955/03/09	68.76	68.48	-0.28
1956/05/18	128.56	128.09	-0.47
1957/01/27	84.68	83.81	-0.87
1957/03/04	173.54	175.11	1.57
1957/07/28	385.87	383.55	-2.32
1958/04/30	126.86	124.80	-2.06
1958/06/19	104.66	104.21	-0.45
1958/07/11	74.86	74.66	-0.20
1959/04/07	61.71	61.71	0.00
1959/07/27	45.88	45.88	0.00
1960/01/21	113.28	112.74	-0.54
1960/04/04	30.02	30.02	0.00
1961/08/09	105.55	105.80	0.25
1961/10/06	209.04	215.50	6.46
1962/04/15	63.62	63.60	-0.02
1962/07/08	130.66	128.18	-2.48
1963/05/07	105.83	104.97	-0.86
1964/04/12	98.29	97.95	-0.35
1964/07/25	108.06	106.95	-1.11
1965/03/22	108.82	107.67	-1.15
1966/02/15	96.90	96.47	-0.43
1966/05/18	163.15	166.61	3.46
1967/04/09	105.44	104.66	-0.78
1967/07/01	148.77	148.73	-0.04
1968/08/24	155.49	156.28	0.79
1969/04/13	79.16	78.99	-0.17
1969/06/15	132.31	131.42	-0.89
1969/08/01	56.42	56.40	-0.02
1969/10/25	193.52	195.87	2.35
1970/05/20	120.41	119.66	-0.75
1970/12/18	73.94	73.51	-0.43
1971/03/04	60.34	60.16	-0.18

1971/08/28	105.56	104.83	-0.73
1972/03/21	92.85	92.34	-0.51
1972/04/27	160.81	161.89	1.08
1972/09/01	152.11	152.88	0.77
1972/10/05	155.87	159.13	3.26
1973/01/08	184.69	191.15	6.46
1973/05/08	94.11	93.80	-0.32
1974/02/28	130.01	128.17	-1.84
1974/04/21	67.03	66.82	-0.21
1974/05/25	82.73	82.47	-0.25
1975/01/16	125.19	125.39	0.20
1975/05/05	109.84	108.51	-1.33
1975/09/08	166.48	169.67	3.19
1976/03/21	131.49	130.03	-1.46
1977/07/05	86.27	85.59	-0.68
1977/08/13	78.83	78.18	-0.65
1977/09/07	65.47	64.59	-0.88
1978/04/02	56.29	56.29	0.00
1978/05/21	74.44	74.05	-0.39
1978/07/09	126.25	125.38	-0.87
1978/09/25	162.12	165.36	3.24
1979/04/18	193.18	198.87	5.69
1979/09/05	120.51	119.53	-0.98
1980/01/21	41.00	41.00	0.00
1980/08/26	150.87	151.58	0.71
1980/09/26	87.98	87.31	-0.67
1981/05/03	119.77	119.22	-0.55
1981/06/05	175.08	176.33	1.25
1981/06/21	81.08	80.63	-0.45
1981/08/23	119.13	117.76	-1.37
1982/03/28	132.33	136.70	4.37
1982/07/31	139.85	139.04	-0.81
1982/08/14	124.90	124.82	-0.08
1982/12/12	234.20	238.55	4.35
1983/01/04	148.18	148.30	0.12
1983/04/22	168.47	172.54	4.07
1983/06/04	101.89	101.46	-0.43
1983/07/09	118.80	117.31	-1.49
1983/12/05	156.48	158.14	1.66
1984/02/25	137.20	137.33	0.13
1984/04/03	104.01	103.10	-0.91
1985/03/19	195.45	203.66	8.21
1985/12/11	134.55	133.47	-1.08
1986/07/19	73.40	72.88	-0.52
1986/10/10	134.56	133.72	-0.84
1987/09/06	533.70	531.30	-2.40
1988/01/01	93.29	92.67	-0.62
1988/02/07	71.37	71.29	-0.08
1988/04/13	67.28	66.90	-0.38
1988/10/26	161.79	163.30	1.51
1989/08/18	183.66	187.03	3.37
1989/09/18	135.85	134.39	-1.46
1990/03/16	136.10	135.28	-0.82
1990/05/19	163.66	166.31	2.65
1990/08/28	160.29	162.00	1.71
1990/12/10	148.07	148.80	0.73
1991/04/23	107.80	107.07	-0.73
1991/06/02	84.32	83.69	-0.62
1991/10/09	128.70	126.65	-2.05
1991/11/08	79.98	79.70	-0.28
1991/12/18	56.60	56.60	-0.01
1992/09/21	74.13	73.95	-0.18
1993/01/11	103.96	103.48	-0.48

1993/04/29	142.83	142.68	-0.15
1993/07/06	137.96	136.68	-1.28
1994/03/13	126.48	124.43	-2.05
1994/07/02	161.52	163.30	1.78
1994/08/24	70.35	70.13	-0.21
1995/01/25	110.76	109.03	-1.73
1995/05/06	117.29	116.59	-0.70
1995/08/24	83.58	83.17	-0.41
1995/11/18	120.19	118.84	-1.35
1996/06/27	116.05	115.42	-0.63
1996/08/05	109.93	108.70	-1.23
1997/03/06	216.15	221.92	5.77
1998/03/25	87.89	87.74	-0.15
1998/05/15	105.47	104.91	-0.56
1998/08/15	120.22	117.85	-2.37
1998/09/14	44.75	44.73	-0.03
1998/10/25	128.45	127.54	-0.91
1999/02/09	152.42	153.73	1.31
1999/05/06	146.46	148.16	1.70
2000/04/28	149.90	150.95	1.05
2001/03/02	128.47	127.63	-0.84
2001/09/06	215.76	221.38	5.62
2001/09/30	128.19	126.62	-1.57
2001/10/31	203.48	209.79	6.31
2002/03/15	90.27	89.68	-0.59
2002/05/22	109.12	108.39	-0.73
2002/07/14	95.80	94.97	-0.83
2002/08/29	196.44	202.78	6.34
2003/05/19	127.38	128.52	1.14
2003/08/13	55.95	55.90	-0.06
2003/11/29	75.85	75.74	-0.11
2004/03/11	65.80	65.40	-0.41
2004/06/18	88.96	88.56	-0.40
2005/01/18	135.04	135.53	0.49
2006/03/18	77.36	77.12	-0.24
2006/07/03	68.09	67.70	-0.40
2006/09/29	87.80	87.24	-0.57
2006/10/09	65.25	64.89	-0.37
2007/03/15	126.27	125.91	-0.36
2007/08/31	150.82	151.48	0.66
2008/03/09	143.77	142.73	-1.04
2008/05/18	45.49	45.49	0.00
2008/09/23	379.40	376.37	-3.03
Max Flow	533.70	531.30	
StormEvent	1987/09/06	1987/09/06	

Klein Creek, Carol Stream (CBBEL Project No. 09-0321)
Comparison of Peak Flow Rates
at
19:1907 Mainstem at Mitch Lake 1
13. Branch# 19; Node ID: D19 ; Station: 3.7310

	(1) V10Base.pek	(2) prop6c3.pek	2-1
Nodes ==>	1907	1907	
1925/01/02	21.09	21.11	0.02
1949/04/08	129.86	129.50	-0.36
1949/06/21	187.25	189.50	2.25
1949/07/27	119.32	117.50	-1.82
1949/12/31	162.11	165.90	3.79
1950/01/31	129.07	126.90	-2.17
1950/05/03	187.14	192.09	4.95
1950/06/11	176.05	178.51	2.46
1951/03/09	127.15	125.53	-1.62
1951/05/17	147.07	148.75	1.68
1951/07/29	124.15	122.27	-1.88
1952/01/25	152.32	151.97	-0.35
1952/03/28	95.56	95.28	-0.28
1953/03/23	116.67	114.98	-1.69
1953/06/16	99.15	98.70	-0.45
1953/07/28	182.93	184.54	1.61
1954/04/05	219.73	226.07	6.34
1954/05/08	174.33	179.73	5.40
1954/08/29	130.99	129.47	-1.52
1954/10/25	285.99	281.01	-4.98
1955/03/09	68.70	68.41	-0.28
1956/05/18	128.49	128.07	-0.42
1957/01/27	84.56	83.71	-0.85
1957/03/04	173.35	175.08	1.73
1957/07/28	386.58	383.99	-2.59
1958/04/30	126.72	124.77	-1.95
1958/06/19	104.57	104.12	-0.45
1958/07/11	74.82	74.63	-0.20
1959/04/07	61.68	61.68	0.00
1959/07/27	45.86	45.86	0.00
1960/01/21	113.15	112.69	-0.46
1960/04/04	30.02	30.01	0.00
1961/08/09	105.59	105.83	0.24
1961/10/06	208.89	215.44	6.55
1962/04/15	59.72	59.82	0.10
1962/07/08	130.48	128.14	-2.34
1963/05/07	105.73	104.87	-0.86
1964/04/12	98.23	97.88	-0.35
1964/07/25	107.92	106.83	-1.09
1965/03/22	108.72	107.58	-1.14
1966/02/15	96.81	96.38	-0.42
1966/05/18	163.06	166.59	3.53
1967/04/09	105.34	104.57	-0.77
1967/07/01	148.61	148.69	0.08
1968/08/24	155.32	156.24	0.92
1969/04/13	79.13	78.96	-0.17
1969/06/15	132.18	131.39	-0.79
1969/08/01	56.40	56.38	-0.02
1969/10/25	193.45	195.84	2.39
1970/05/20	120.29	119.62	-0.67
1970/12/18	73.90	73.48	-0.42
1971/03/04	60.31	60.08	-0.23

1971/08/28	105.43	104.72	-0.71
1972/03/21	92.77	92.25	-0.51
1972/04/27	160.68	161.86	1.18
1972/09/01	151.95	152.84	0.89
1972/10/05	155.74	159.10	3.36
1973/01/08	184.56	191.12	6.56
1973/05/08	94.04	93.72	-0.32
1974/02/28	129.88	128.14	-1.74
1974/04/21	67.01	66.80	-0.20
1974/05/25	82.65	82.40	-0.25
1975/01/16	125.33	125.46	0.13
1975/05/05	109.75	108.44	-1.31
1975/09/08	166.45	169.66	3.21
1976/03/21	131.36	130.00	-1.36
1977/07/05	86.19	85.52	-0.67
1977/08/13	78.80	78.13	-0.67
1977/09/07	65.39	64.53	-0.86
1978/04/02	56.27	56.27	0.00
1978/05/21	74.37	73.98	-0.39
1978/07/09	126.17	125.37	-0.80
1978/09/25	161.93	165.36	3.43
1979/04/18	193.09	198.83	5.74
1979/09/05	120.43	119.50	-0.93
1980/01/21	40.98	40.98	0.00
1980/08/26	150.70	151.54	0.84
1980/09/26	87.92	87.26	-0.65
1981/05/03	119.68	119.19	-0.49
1981/06/05	174.93	176.30	1.37
1981/06/21	81.04	80.59	-0.45
1981/08/23	119.02	117.74	-1.28
1982/03/28	132.08	136.69	4.61
1982/07/31	139.71	139.02	-0.69
1982/08/14	124.72	124.76	0.04
1982/12/12	234.10	238.36	4.26
1983/01/04	148.03	148.26	0.23
1983/04/22	168.30	172.51	4.21
1983/06/04	101.81	101.39	-0.42
1983/07/09	118.70	117.28	-1.42
1983/12/05	156.37	158.11	1.74
1984/02/25	137.01	137.27	0.26
1984/04/03	103.90	102.99	-0.91
1985/03/19	195.28	203.34	8.06
1985/12/11	134.35	133.43	-0.92
1986/07/19	73.30	72.79	-0.51
1986/10/10	134.47	133.69	-0.78
1987/09/06	534.85	532.40	-2.45
1988/01/01	93.25	92.64	-0.61
1988/02/07	71.34	71.26	-0.07
1988/04/13	67.23	66.86	-0.37
1988/10/26	161.59	163.25	1.66
1989/08/18	183.57	187.02	3.45
1989/09/18	135.68	134.36	-1.32
1990/03/16	135.90	135.23	-0.67
1990/05/19	163.56	166.29	2.73
1990/08/28	160.13	161.96	1.83
1990/12/10	147.92	148.76	0.84
1991/04/23	107.74	107.00	-0.74
1991/06/02	84.26	83.64	-0.62
1991/10/09	128.49	126.61	-1.88
1991/11/08	79.91	79.64	-0.27
1991/12/18	56.58	56.58	0.00
1992/09/21	74.10	73.92	-0.18
1993/01/11	103.79	103.45	-0.34

1993/04/29	142.66	142.64	-0.02
1993/07/06	137.82	136.64	-1.18
1994/03/13	126.32	124.39	-1.93
1994/07/02	161.32	163.26	1.94
1994/08/24	70.31	70.10	-0.21
1995/01/25	110.62	108.98	-1.64
1995/05/06	117.21	116.59	-0.62
1995/08/24	83.45	83.05	-0.40
1995/11/18	120.02	118.80	-1.22
1996/06/27	115.99	115.40	-0.59
1996/08/05	109.76	108.64	-1.12
1997/03/06	215.97	221.84	5.87
1998/03/25	87.84	87.69	-0.15
1998/05/15	105.37	104.85	-0.52
1998/08/15	120.07	117.82	-2.25
1998/09/14	44.74	44.71	-0.02
1998/10/25	128.25	127.49	-0.76
1999/02/09	152.18	153.72	1.54
1999/05/06	146.38	148.14	1.76
2000/04/28	149.82	150.93	1.11
2001/03/02	128.36	127.60	-0.76
2001/09/06	215.61	221.22	5.61
2001/09/30	128.06	126.60	-1.46
2001/10/31	203.38	209.75	6.37
2002/03/15	90.11	89.54	-0.57
2002/05/22	109.13	108.41	-0.72
2002/07/14	95.69	94.88	-0.82
2002/08/29	196.40	202.75	6.35
2003/05/19	127.10	128.56	1.46
2003/08/13	55.92	55.87	-0.06
2003/11/29	75.79	75.70	-0.09
2004/03/11	65.78	65.38	-0.40
2004/06/18	88.86	88.50	-0.36
2005/01/18	134.92	135.53	0.61
2006/03/18	77.27	77.03	-0.24
2006/07/03	68.06	67.66	-0.40
2006/09/29	87.66	87.11	-0.55
2006/10/09	65.23	64.86	-0.37
2007/03/15	126.08	125.85	-0.23
2007/08/31	150.66	151.44	0.78
2008/03/09	143.59	142.68	-0.91
2008/05/18	45.48	45.48	0.00
2008/09/23	380.15	376.91	-3.24
Max Flow	534.85	532.40	
StormEvent	1987/09/06	1987/09/06	

Klein Creek, Carol Stream (CBBEL Project No. 09-0321)
Comparison of Peak Flow Rates
at
21:2105 Mainstem US Elk Trail
14. Branch# 21; Node ID: D21 ; Station: 4.2190

	(1) V10Base.pek	(2) prop6c3.pek	2-1
Nodes ==>	2105	2105	
1925/01/02	23.66	23.61	-0.06
1949/04/08	128.90	128.77	-0.13
1949/06/21	187.09	190.02	2.93
1949/07/27	120.73	120.50	-0.23
1949/12/31	154.90	159.30	4.40
1950/01/31	130.28	130.26	-0.02
1950/05/03	184.33	189.94	5.61
1950/06/11	173.43	177.15	3.72
1951/03/09	125.75	125.76	0.01
1951/05/17	144.23	146.03	1.80
1951/07/29	127.70	127.69	-0.01
1952/01/25	151.17	155.25	4.08
1952/03/28	92.69	92.63	-0.07
1953/03/23	116.83	116.78	-0.05
1953/06/16	100.38	100.35	-0.03
1953/07/28	184.55	191.49	6.94
1954/04/05	221.98	227.03	5.05
1954/05/08	171.27	175.11	3.84
1954/08/29	132.05	131.99	-0.06
1954/10/25	276.13	271.10	-5.03
1955/03/09	66.19	66.18	-0.01
1956/05/18	123.49	123.51	0.02
1957/01/27	84.07	84.08	0.01
1957/03/04	172.48	175.90	3.42
1957/07/28	383.41	380.76	-2.65
1958/04/30	130.25	130.27	0.02
1958/06/19	106.19	106.19	0.00
1958/07/11	74.94	74.93	-0.01
1959/04/07	61.86	61.89	0.03
1959/07/27	46.68	46.68	0.00
1960/01/21	111.94	111.95	0.01
1960/04/04	29.46	29.46	0.00
1961/08/09	105.90	105.90	0.00
1961/10/06	205.10	211.09	5.99
1962/04/15	59.76	59.77	0.01
1962/07/08	135.28	135.23	-0.05
1963/05/07	106.16	106.09	-0.07
1964/04/12	97.75	97.81	0.06
1964/07/25	108.92	109.06	0.14
1965/03/22	106.79	106.76	-0.03
1966/02/15	93.47	93.48	0.01
1966/05/18	157.81	162.22	4.41
1967/04/09	101.76	101.78	0.02
1967/07/01	154.13	155.43	1.30
1968/08/24	159.16	164.22	5.06
1969/04/13	78.15	78.15	0.00
1969/06/15	130.82	130.77	-0.05
1969/08/01	56.91	56.91	-0.01
1969/10/25	192.86	196.61	3.75
1970/05/20	118.30	118.29	-0.01
1970/12/18	73.44	73.45	0.01
1971/03/04	59.48	59.43	-0.05

1971/08/28	106.77	106.74	-0.03
1972/03/21	91.39	91.37	-0.02
1972/04/27	161.24	168.72	7.48
1972/09/01	155.43	158.63	3.20
1972/10/05	152.67	157.99	5.32
1973/01/08	182.02	186.55	4.53
1973/05/08	93.46	93.46	0.00
1974/02/28	128.95	128.98	0.03
1974/04/21	66.18	66.24	0.05
1974/05/25	79.69	79.69	0.00
1975/01/16	124.19	124.12	-0.07
1975/05/05	109.16	109.14	-0.02
1975/09/08	164.04	169.06	5.02
1976/03/21	130.88	130.90	0.02
1977/07/05	87.41	87.47	0.06
1977/08/13	80.65	80.60	-0.05
1977/09/07	66.33	66.33	0.00
1978/04/02	54.65	54.65	0.00
1978/05/21	73.80	73.78	-0.03
1978/07/09	122.65	122.61	-0.04
1978/09/25	158.38	165.76	7.38
1979/04/18	190.26	195.89	5.63
1979/09/05	121.06	121.06	0.00
1980/01/21	41.14	41.13	0.00
1980/08/26	155.03	157.07	2.04
1980/09/26	88.29	88.29	0.00
1981/05/03	118.06	118.10	0.04
1981/06/05	175.89	180.64	4.75
1981/06/21	80.61	80.62	0.01
1981/08/23	118.96	118.83	-0.13
1982/03/28	128.17	128.16	-0.01
1982/07/31	141.07	141.13	0.06
1982/08/14	122.90	122.99	0.09
1982/12/12	232.85	237.84	4.99
1983/01/04	146.30	148.69	2.39
1983/04/22	159.53	164.20	4.67
1983/06/04	101.80	101.75	-0.05
1983/07/09	118.71	118.64	-0.07
1983/12/05	152.78	159.84	7.06
1984/02/25	134.01	135.08	1.07
1984/04/03	104.02	103.80	-0.22
1985/03/19	193.80	199.25	5.45
1985/12/11	134.71	134.71	0.00
1986/07/19	73.20	73.17	-0.03
1986/10/10	135.67	135.53	-0.14
1987/09/06	512.74	510.31	-2.43
1988/01/01	93.35	93.33	-0.01
1988/02/07	70.53	70.55	0.02
1988/04/13	65.79	65.79	0.00
1988/10/26	163.70	172.25	8.55
1989/08/18	186.19	188.31	2.12
1989/09/18	138.11	138.12	0.01
1990/03/16	134.71	135.06	0.35
1990/05/19	159.16	165.43	6.27
1990/08/28	162.31	170.50	8.19
1990/12/10	146.25	148.98	2.73
1991/04/23	105.49	105.48	-0.01
1991/06/02	82.44	82.45	0.01
1991/10/09	130.41	130.41	0.00
1991/11/08	79.03	79.15	0.13
1991/12/18	56.38	56.38	0.00
1992/09/21	75.36	75.36	0.00
1993/01/11	100.10	100.14	0.04

1993/04/29	139.45	141.43	1.98
1993/07/06	136.58	137.29	0.71
1994/03/13	125.89	125.84	-0.05
1994/07/02	160.37	168.34	7.97
1994/08/24	71.32	71.38	0.06
1995/01/25	108.80	108.85	0.05
1995/05/06	115.92	115.99	0.07
1995/08/24	82.53	82.63	0.10
1995/11/18	120.32	120.36	0.04
1996/06/27	115.60	115.60	0.00
1996/08/05	107.83	107.84	0.01
1997/03/06	217.01	221.90	4.89
1998/03/25	85.34	85.37	0.03
1998/05/15	102.82	102.78	-0.04
1998/08/15	121.89	121.86	-0.03
1998/09/14	45.27	45.27	0.00
1998/10/25	127.53	127.66	0.13
1999/02/09	144.85	146.73	1.88
1999/05/06	143.87	146.20	2.33
2000/04/28	143.48	147.73	4.25
2001/03/02	126.77	126.77	0.00
2001/09/06	218.49	222.69	4.20
2001/09/30	127.94	127.95	0.01
2001/10/31	201.29	207.05	5.76
2002/03/15	87.06	87.06	0.00
2002/05/22	109.44	109.42	-0.02
2002/07/14	97.16	97.13	-0.03
2002/08/29	196.96	200.95	3.99
2003/05/19	126.89	126.83	-0.06
2003/08/13	55.43	55.41	-0.02
2003/11/29	75.69	75.69	0.00
2004/03/11	65.92	65.93	0.01
2004/06/18	87.34	87.30	-0.04
2005/01/18	130.43	131.65	1.22
2006/03/18	74.18	74.17	-0.01
2006/07/03	68.81	68.81	0.00
2006/09/29	84.82	84.82	0.00
2006/10/09	65.10	65.04	-0.05
2007/03/15	125.79	125.81	0.02
2007/08/31	145.35	149.89	4.54
2008/03/09	139.75	142.07	2.32
2008/05/18	45.41	45.45	0.04
2008/09/23	368.09	365.02	-3.07
Max Flow	512.74	510.31	
StormEvent	1987/09/06	1987/09/06	

Klein Creek, Carol Stream (CBBEL Project No. 09-0321)
Comparison of Peak Flow Rates
at
123:2308 Mainstem US Fountain Vw Rd
15. Branch# 123; Node ID: D123 ; Station: 4.6070

	(1) V10Base.pek	(2) prop6c3.pek	2-1
Nodes ==>	2308	2308	
1925/01/02	33.13	33.00	-0.14
1949/04/08	120.86	120.77	-0.09
1949/06/21	185.95	188.14	2.19
1949/07/27	113.47	113.43	-0.04
1949/12/31	148.85	149.70	0.85
1950/01/31	122.58	122.59	0.01
1950/05/03	182.46	185.18	2.72
1950/06/11	169.25	171.71	2.46
1951/03/09	116.97	116.98	0.01
1951/05/17	136.20	136.14	-0.06
1951/07/29	121.77	121.74	-0.03
1952/01/25	146.83	146.66	-0.17
1952/03/28	88.74	88.69	-0.05
1953/03/23	109.23	109.26	0.03
1953/06/16	97.89	97.86	-0.03
1953/07/28	186.91	188.85	1.94
1954/04/05	226.95	228.24	1.29
1954/05/08	167.81	170.33	2.52
1954/08/29	123.83	123.81	-0.02
1954/10/25	265.48	265.50	0.02
1955/03/09	61.99	61.95	-0.03
1956/05/18	116.01	116.02	0.01
1957/01/27	82.76	82.77	0.00
1957/03/04	171.46	173.39	1.93
1957/07/28	386.59	387.17	0.58
1958/04/30	124.05	124.12	0.07
1958/06/19	103.49	103.51	0.02
1958/07/11	73.56	73.54	-0.01
1959/04/07	60.69	60.75	0.06
1959/07/27	46.81	46.81	0.00
1960/01/21	106.97	106.96	-0.01
1960/04/04	28.43	28.43	0.00
1961/08/09	102.30	102.29	-0.01
1961/10/06	201.15	205.25	4.10
1962/04/15	55.91	55.89	-0.02
1962/07/08	131.58	131.51	-0.07
1963/05/07	103.99	103.92	-0.07
1964/04/12	94.65	94.71	0.06
1964/07/25	106.79	106.92	0.13
1965/03/22	102.10	102.07	-0.03
1966/02/15	89.20	89.24	0.03
1966/05/18	152.80	154.00	1.20
1967/04/09	96.42	96.43	0.00
1967/07/01	148.74	148.73	-0.01
1968/08/24	158.18	158.14	-0.04
1969/04/13	75.13	75.16	0.03
1969/06/15	123.29	123.23	-0.06
1969/08/01	56.49	56.49	-0.01
1969/10/25	191.99	194.40	2.41
1970/05/20	112.09	112.07	-0.02
1970/12/18	71.34	71.35	0.01
1971/03/04	56.93	56.95	0.02

1971/08/28	104.06	104.05	-0.01
1972/03/21	87.61	87.59	-0.02
1972/04/27	160.35	160.30	-0.05
1972/09/01	151.11	151.18	0.07
1972/10/05	149.14	149.19	0.05
1973/01/08	176.73	179.69	2.96
1973/05/08	90.11	90.11	0.00
1974/02/28	119.95	119.97	0.02
1974/04/21	64.47	64.43	-0.04
1974/05/25	75.39	75.40	0.00
1975/01/16	115.08	115.05	-0.03
1975/05/05	101.84	101.83	-0.01
1975/09/08	163.41	164.26	0.85
1976/03/21	122.13	122.15	0.02
1977/07/05	86.78	86.84	0.06
1977/08/13	80.85	80.81	-0.03
1977/09/07	65.72	65.72	0.00
1978/04/02	52.13	52.13	0.00
1978/05/21	71.50	71.58	0.08
1978/07/09	115.38	115.34	-0.04
1978/09/25	157.14	157.08	-0.06
1979/04/18	186.20	189.41	3.21
1979/09/05	115.48	115.48	0.00
1980/01/21	40.60	40.59	0.00
1980/08/26	149.80	149.78	-0.02
1980/09/26	86.44	86.44	0.00
1981/05/03	111.37	111.39	0.02
1981/06/05	177.18	178.65	1.47
1981/06/21	78.19	78.16	-0.03
1981/08/23	112.65	112.62	-0.03
1982/03/28	119.01	118.99	-0.02
1982/07/31	132.94	132.92	-0.02
1982/08/14	115.48	115.51	0.03
1982/12/12	237.39	240.93	3.54
1983/01/04	139.54	139.51	-0.03
1983/04/22	151.00	153.69	2.69
1983/06/04	96.90	96.84	-0.06
1983/07/09	112.70	112.65	-0.05
1983/12/05	149.69	149.75	0.06
1984/02/25	124.21	124.27	0.06
1984/04/03	97.43	97.37	-0.05
1985/03/19	189.72	193.37	3.65
1985/12/11	128.10	128.11	0.01
1986/07/19	71.25	71.24	-0.01
1986/10/10	126.91	126.87	-0.04
1987/09/06	496.57	495.46	-1.11
1988/01/01	91.60	91.58	-0.02
1988/02/07	68.74	68.75	0.01
1988/04/13	63.55	63.55	0.00
1988/10/26	165.02	165.05	0.03
1989/08/18	186.94	189.17	2.23
1989/09/18	130.84	130.83	-0.01
1990/03/16	125.10	125.10	0.00
1990/05/19	157.59	157.78	0.19
1990/08/28	162.88	162.86	-0.02
1990/12/10	139.63	139.75	0.12
1991/04/23	100.11	100.08	-0.03
1991/06/02	79.44	79.43	-0.01
1991/10/09	126.96	126.97	0.01
1991/11/08	77.64	77.66	0.02
1991/12/18	55.03	55.02	-0.01
1992/09/21	75.10	75.11	0.02
1993/01/11	92.70	92.70	0.00

1993/04/29	130.86	130.88	0.02
1993/07/06	128.56	128.55	-0.01
1994/03/13	117.70	117.68	-0.02
1994/07/02	161.07	161.12	0.05
1994/08/24	71.22	71.25	0.03
1995/01/25	104.16	104.24	0.08
1995/05/06	110.24	110.30	0.06
1995/08/24	80.53	80.53	0.00
1995/11/18	116.68	116.70	0.02
1996/06/27	110.26	110.26	0.00
1996/08/05	104.87	104.88	0.01
1997/03/06	217.19	219.05	1.86
1998/03/25	79.87	79.89	0.03
1998/05/15	98.09	98.06	-0.03
1998/08/15	118.25	118.24	-0.01
1998/09/14	45.36	45.37	0.01
1998/10/25	121.29	121.41	0.12
1999/02/09	135.71	135.96	0.25
1999/05/06	135.65	135.65	0.00
2000/04/28	136.93	136.92	-0.01
2001/03/02	117.07	117.06	-0.01
2001/09/06	222.69	223.97	1.28
2001/09/30	122.04	122.02	-0.02
2001/10/31	198.78	202.17	3.39
2002/03/15	78.73	78.73	-0.01
2002/05/22	105.68	105.64	-0.04
2002/07/14	94.88	94.88	0.00
2002/08/29	194.37	197.44	3.07
2003/05/19	122.16	122.10	-0.06
2003/08/13	54.53	54.51	-0.02
2003/11/29	74.66	74.70	0.03
2004/03/11	64.32	64.31	-0.01
2004/06/18	85.64	85.60	-0.04
2005/01/18	122.00	122.00	0.00
2006/03/18	70.64	70.63	-0.01
2006/07/03	68.78	68.77	-0.01
2006/09/29	82.78	82.81	0.03
2006/10/09	64.03	63.98	-0.05
2007/03/15	115.60	115.61	0.01
2007/08/31	139.04	139.05	0.01
2008/03/09	130.68	130.68	0.00
2008/05/18	44.69	44.74	0.05
2008/09/23	360.41	359.84	-0.57
Max Flow	496.57	495.46	
StormEvent	1987/09/06	1987/09/06	

Klein Creek, Carol Stream (CBBEL Project No. 09-0321)
Comparison of Peak Flow Rates
at
F92 Mainstem at Home Base
16. Branch# 99999; Node ID: HOMEBASE; Station: 0.0000

	(1) V10Base.pek	(2) prop6c3.pek	2-1
Nodes ==>	92	92	
1925/01/02	22.12	22.12	0.00
1949/04/08	108.13	108.10	-0.03
1949/06/21	170.69	171.66	0.97
1949/07/27	98.03	98.03	-0.01
1949/12/31	130.46	130.45	-0.01
1950/01/31	109.56	109.57	0.01
1950/05/03	168.48	169.54	1.06
1950/06/11	150.07	151.51	1.44
1951/03/09	104.04	104.12	0.08
1951/05/17	117.65	117.60	-0.05
1951/07/29	110.47	110.47	0.00
1952/01/25	129.73	129.59	-0.14
1952/03/28	80.95	80.91	-0.05
1953/03/23	98.59	98.60	0.01
1953/06/16	86.96	86.94	-0.02
1953/07/28	171.64	171.90	0.26
1954/04/05	204.96	206.41	1.45
1954/05/08	149.10	150.31	1.21
1954/08/29	107.16	107.15	-0.01
1954/10/25	256.34	258.02	1.68
1955/03/09	55.31	55.30	0.00
1956/05/18	100.07	100.09	0.02
1957/01/27	71.37	71.37	0.00
1957/03/04	154.58	154.68	0.10
1957/07/28	360.43	361.69	1.26
1958/04/30	109.86	109.88	0.02
1958/06/19	92.52	92.52	0.00
1958/07/11	65.66	65.62	-0.04
1959/04/07	55.30	55.34	0.04
1959/07/27	41.91	41.91	0.00
1960/01/21	93.01	92.99	-0.02
1960/04/04	27.38	27.37	0.00
1961/08/09	89.37	89.38	0.00
1961/10/06	191.17	192.88	1.71
1962/04/15	50.40	50.39	0.00
1962/07/08	116.00	116.02	0.02
1963/05/07	92.51	92.50	-0.01
1964/04/12	83.72	83.75	0.03
1964/07/25	93.20	93.19	-0.01
1965/03/22	92.41	92.39	-0.02
1966/02/15	79.84	79.85	0.00
1966/05/18	130.76	131.12	0.36
1967/04/09	84.39	84.40	0.01
1967/07/01	131.98	131.94	-0.04
1968/08/24	140.59	140.55	-0.04
1969/04/13	67.61	67.60	-0.01
1969/06/15	106.82	106.85	0.03
1969/08/01	51.02	51.01	-0.01
1969/10/25	177.88	178.81	0.93
1970/05/20	96.27	96.27	0.00
1970/12/18	63.81	63.79	-0.02
1971/03/04	51.85	51.88	0.02

1971/08/28	90.65	90.64	-0.01
1972/03/21	76.96	76.93	-0.03
1972/04/27	143.69	143.57	-0.12
1972/09/01	134.56	134.54	-0.02
1972/10/05	133.21	133.29	0.08
1973/01/08	157.45	158.79	1.34
1973/05/08	79.87	79.89	0.03
1974/02/28	106.44	106.47	0.03
1974/04/21	58.71	58.71	0.00
1974/05/25	66.13	66.12	-0.01
1975/01/16	100.67	100.67	0.00
1975/05/05	89.03	89.01	-0.01
1975/09/08	142.00	141.99	-0.01
1976/03/21	106.55	106.54	-0.01
1977/07/05	76.52	76.57	0.06
1977/08/13	71.85	71.80	-0.05
1977/09/07	54.83	54.83	0.00
1978/04/02	47.73	47.73	0.00
1978/05/21	61.62	61.58	-0.04
1978/07/09	99.82	99.68	-0.14
1978/09/25	138.35	138.19	-0.16
1979/04/18	169.44	170.83	1.39
1979/09/05	101.78	101.80	0.02
1980/01/21	36.29	36.29	0.00
1980/08/26	132.75	132.90	0.15
1980/09/26	75.70	75.72	0.02
1981/05/03	98.28	98.29	0.01
1981/06/05	160.60	160.69	0.09
1981/06/21	69.30	69.30	0.00
1981/08/23	99.26	99.28	0.03
1982/03/28	106.81	106.74	-0.07
1982/07/31	116.23	116.24	0.01
1982/08/14	100.24	100.26	0.02
1982/12/12	216.50	217.59	1.09
1983/01/04	121.00	120.99	-0.01
1983/04/22	129.86	131.48	1.62
1983/06/04	85.63	85.69	0.06
1983/07/09	101.88	101.87	-0.01
1983/12/05	130.60	130.61	0.01
1984/02/25	112.56	112.57	0.01
1984/04/03	86.72	86.71	-0.01
1985/03/19	178.59	180.30	1.71
1985/12/11	112.60	112.56	-0.04
1986/07/19	59.70	59.69	-0.01
1986/10/10	111.08	111.09	0.01
1987/09/06	402.06	401.80	-0.26
1988/01/01	81.48	81.45	-0.03
1988/02/07	62.23	62.25	0.02
1988/04/13	55.99	55.98	-0.02
1988/10/26	147.11	147.16	0.05
1989/08/18	174.15	174.26	0.11
1989/09/18	115.22	115.26	0.04
1990/03/16	110.21	110.19	-0.02
1990/05/19	137.95	137.98	0.03
1990/08/28	146.11	146.17	0.06
1990/12/10	121.20	121.18	-0.02
1991/04/23	89.03	89.07	0.05
1991/06/02	70.14	70.13	0.00
1991/10/09	110.44	110.55	0.11
1991/11/08	68.31	68.34	0.02
1991/12/18	49.39	49.39	0.00
1992/09/21	67.43	67.44	0.01
1993/01/11	80.61	80.62	0.01

1993/04/29	113.77	113.80	0.03
1993/07/06	112.00	111.95	-0.05
1994/03/13	106.79	106.77	-0.02
1994/07/02	140.15	140.20	0.05
1994/08/24	63.83	63.87	0.04
1995/01/25	92.35	92.42	0.07
1995/05/06	96.70	96.76	0.07
1995/08/24	69.86	69.90	0.04
1995/11/18	99.89	99.87	-0.01
1996/06/27	99.57	99.58	0.01
1996/08/05	89.90	89.91	0.01
1997/03/06	197.89	199.64	1.75
1998/03/25	70.89	70.91	0.02
1998/05/15	85.54	85.52	-0.02
1998/08/15	103.60	103.58	-0.02
1998/09/14	41.87	41.87	0.00
1998/10/25	102.86	103.04	0.18
1999/02/09	115.34	115.62	0.28
1999/05/06	120.57	120.50	-0.07
2000/04/28	118.22	118.25	0.03
2001/03/02	103.47	103.47	0.00
2001/09/06	205.50	206.81	1.31
2001/09/30	109.54	109.59	0.05
2001/10/31	184.75	186.22	1.47
2002/03/15	71.22	71.22	-0.01
2002/05/22	94.35	94.37	0.03
2002/07/14	82.72	82.68	-0.04
2002/08/29	179.18	180.63	1.45
2003/05/19	106.96	106.91	-0.05
2003/08/13	48.87	48.85	-0.02
2003/11/29	65.75	65.82	0.07
2004/03/11	57.85	57.84	-0.01
2004/06/18	75.08	75.02	-0.06
2005/01/18	106.03	106.02	-0.01
2006/03/18	61.82	61.81	0.00
2006/07/03	61.72	61.73	0.01
2006/09/29	71.90	71.92	0.02
2006/10/09	57.71	57.67	-0.04
2007/03/15	102.81	102.82	0.01
2007/08/31	120.40	120.36	-0.04
2008/03/09	113.18	113.22	0.04
2008/05/18	40.96	41.00	0.04
2008/09/23	338.39	338.61	0.22
Max Flow	402.06	401.80	
StormEvent	1987/09/06	1987/09/06	

Klein Creek, Carol Stream (CBBEL Project No. 09-0321)
Comparison of Peak Flow Rates
at
F151 Downstream Carol Pt. Wtl
17. Branch# 99999; Node ID: CPWETLND; Station: 0.0000

	(1) V10Base.pek	(2) prop6c3.pek	2-1
Nodes ==>	151	151	
1925/01/02	11.90	11.90	0.01
1949/04/08	59.97	59.96	-0.01
1949/06/21	137.52	137.60	0.08
1949/07/27	63.38	63.36	-0.02
1949/12/31	72.33	72.35	0.01
1950/01/31	66.48	66.68	0.19
1950/05/03	121.15	121.16	0.01
1950/06/11	103.41	103.59	0.18
1951/03/09	61.35	61.42	0.07
1951/05/17	69.98	69.95	-0.02
1951/07/29	72.60	72.57	-0.03
1952/01/25	89.35	89.10	-0.25
1952/03/28	44.19	44.17	-0.02
1953/03/23	56.84	56.88	0.03
1953/06/16	50.04	50.03	-0.01
1953/07/28	141.75	141.81	0.06
1954/04/05	181.22	181.10	-0.12
1954/05/08	101.30	101.21	-0.09
1954/08/29	62.64	62.66	0.02
1954/10/25	153.57	153.66	0.09
1955/03/09	30.04	30.04	0.00
1956/05/18	52.80	52.77	-0.03
1957/01/27	38.58	38.59	0.01
1957/03/04	119.99	119.87	-0.12
1957/07/28	243.82	243.90	0.08
1958/04/30	75.25	75.12	-0.13
1958/06/19	53.13	53.12	-0.01
1958/07/11	39.13	39.13	0.01
1959/04/07	29.98	29.99	0.01
1959/07/27	24.46	24.46	0.00
1960/01/21	52.57	52.57	0.00
1960/04/04	15.48	15.48	0.00
1961/08/09	51.54	51.53	-0.01
1961/10/06	151.03	151.02	-0.01
1962/04/15	28.58	28.59	0.00
1962/07/08	81.00	80.98	-0.02
1963/05/07	53.69	53.63	-0.06
1964/04/12	44.37	44.39	0.01
1964/07/25	54.81	54.78	-0.03
1965/03/22	51.32	51.26	-0.06
1966/02/15	43.34	43.32	-0.02
1966/05/18	71.63	71.45	-0.17
1967/04/09	43.41	43.40	-0.01
1967/07/01	93.93	93.96	0.04
1968/08/24	104.59	104.55	-0.04
1969/04/13	38.10	38.15	0.05
1969/06/15	58.39	58.42	0.03
1969/08/01	29.46	29.46	-0.01
1969/10/25	144.88	144.64	-0.24
1970/05/20	50.64	50.65	0.01
1970/12/18	40.30	40.23	-0.07
1971/03/04	28.42	28.42	0.00

1971/08/28	56.69	56.71	0.02
1972/03/21	48.40	48.40	0.00
1972/04/27	115.31	115.29	-0.02
1972/09/01	102.22	102.28	0.06
1972/10/05	91.57	91.78	0.21
1973/01/08	111.20	111.06	-0.14
1973/05/08	45.35	45.30	-0.05
1974/02/28	57.97	58.01	0.05
1974/04/21	38.11	38.06	-0.05
1974/05/25	35.02	35.05	0.03
1975/01/16	52.80	52.73	-0.07
1975/05/05	54.59	54.57	-0.02
1975/09/08	99.05	99.02	-0.03
1976/03/21	58.29	58.30	0.01
1977/07/05	50.11	50.22	0.10
1977/08/13	43.07	43.07	0.00
1977/09/07	33.84	33.82	-0.03
1978/04/02	24.50	24.50	0.00
1978/05/21	32.53	32.55	0.02
1978/07/09	53.00	52.91	-0.09
1978/09/25	84.63	84.63	0.00
1979/04/18	108.64	108.68	0.04
1979/09/05	59.89	59.91	0.02
1980/01/21	21.10	21.10	0.00
1980/08/26	94.68	94.81	0.13
1980/09/26	47.16	47.13	-0.02
1981/05/03	53.01	53.03	0.02
1981/06/05	132.98	133.24	0.26
1981/06/21	42.61	42.65	0.04
1981/08/23	54.03	54.03	-0.01
1982/03/28	62.35	62.35	0.00
1982/07/31	73.87	73.92	0.05
1982/08/14	59.97	60.10	0.13
1982/12/12	175.86	175.98	0.12
1983/01/04	73.22	73.81	0.58
1983/04/22	62.62	62.60	-0.02
1983/06/04	49.60	49.59	-0.01
1983/07/09	58.18	58.17	-0.01
1983/12/05	83.63	83.65	0.02
1984/02/25	60.04	60.27	0.23
1984/04/03	51.83	51.86	0.03
1985/03/19	127.74	127.11	-0.63
1985/12/11	69.83	69.80	-0.03
1986/07/19	30.41	30.39	-0.02
1986/10/10	63.47	63.42	-0.04
1987/09/06	242.61	242.31	-0.30
1988/01/01	46.56	46.51	-0.06
1988/02/07	35.51	35.53	0.02
1988/04/13	29.36	29.35	-0.01
1988/10/26	116.60	116.74	0.14
1989/08/18	141.66	141.62	-0.04
1989/09/18	81.64	81.67	0.02
1990/03/16	63.10	63.13	0.02
1990/05/19	89.94	89.83	-0.11
1990/08/28	114.89	114.94	0.05
1990/12/10	72.28	72.33	0.05
1991/04/23	49.00	49.06	0.06
1991/06/02	39.59	39.53	-0.06
1991/10/09	65.18	65.50	0.32
1991/11/08	38.07	38.08	0.01
1991/12/18	28.80	28.80	0.00
1992/09/21	40.47	40.48	0.01
1993/01/11	46.46	46.48	0.02

1993/04/29	63.84	63.82	-0.02
1993/07/06	61.22	61.24	0.02
1994/03/13	60.00	59.93	-0.07
1994/07/02	99.22	99.43	0.22
1994/08/24	37.76	37.74	-0.02
1995/01/25	49.66	49.71	0.05
1995/05/06	50.94	50.94	0.00
1995/08/24	41.29	41.31	0.02
1995/11/18	55.02	55.02	0.00
1996/06/27	53.68	53.67	-0.01
1996/08/05	46.60	46.56	-0.04
1997/03/06	162.23	161.95	-0.28
1998/03/25	35.17	35.16	-0.01
1998/05/15	48.99	48.97	-0.03
1998/08/15	58.96	58.94	-0.02
1998/09/14	27.57	27.57	0.00
1998/10/25	63.36	63.97	0.61
1999/02/09	69.61	69.40	-0.20
1999/05/06	73.50	73.28	-0.22
2000/04/28	75.73	75.82	0.09
2001/03/02	55.94	55.95	0.01
2001/09/06	182.94	182.80	-0.14
2001/09/30	69.50	69.82	0.32
2001/10/31	152.83	153.02	0.19
2002/03/15	42.09	42.08	-0.01
2002/05/22	56.34	56.31	-0.03
2002/07/14	52.81	52.79	-0.02
2002/08/29	138.90	138.90	0.00
2003/05/19	62.71	62.50	-0.21
2003/08/13	28.33	28.31	-0.02
2003/11/29	37.01	36.96	-0.05
2004/03/11	32.97	32.97	0.00
2004/06/18	43.84	43.75	-0.09
2005/01/18	56.38	56.38	0.00
2006/03/18	33.46	33.44	-0.03
2006/07/03	40.19	40.20	0.01
2006/09/29	47.32	47.38	0.05
2006/10/09	38.01	37.97	-0.05
2007/03/15	53.57	53.60	0.03
2007/08/31	77.38	77.33	-0.05
2008/03/09	65.13	65.28	0.15
2008/05/18	27.01	27.01	0.00
2008/09/23	200.00	200.18	0.18
Max Flow	243.82	243.90	
StormEvent	1957/07/28	1957/07/28	

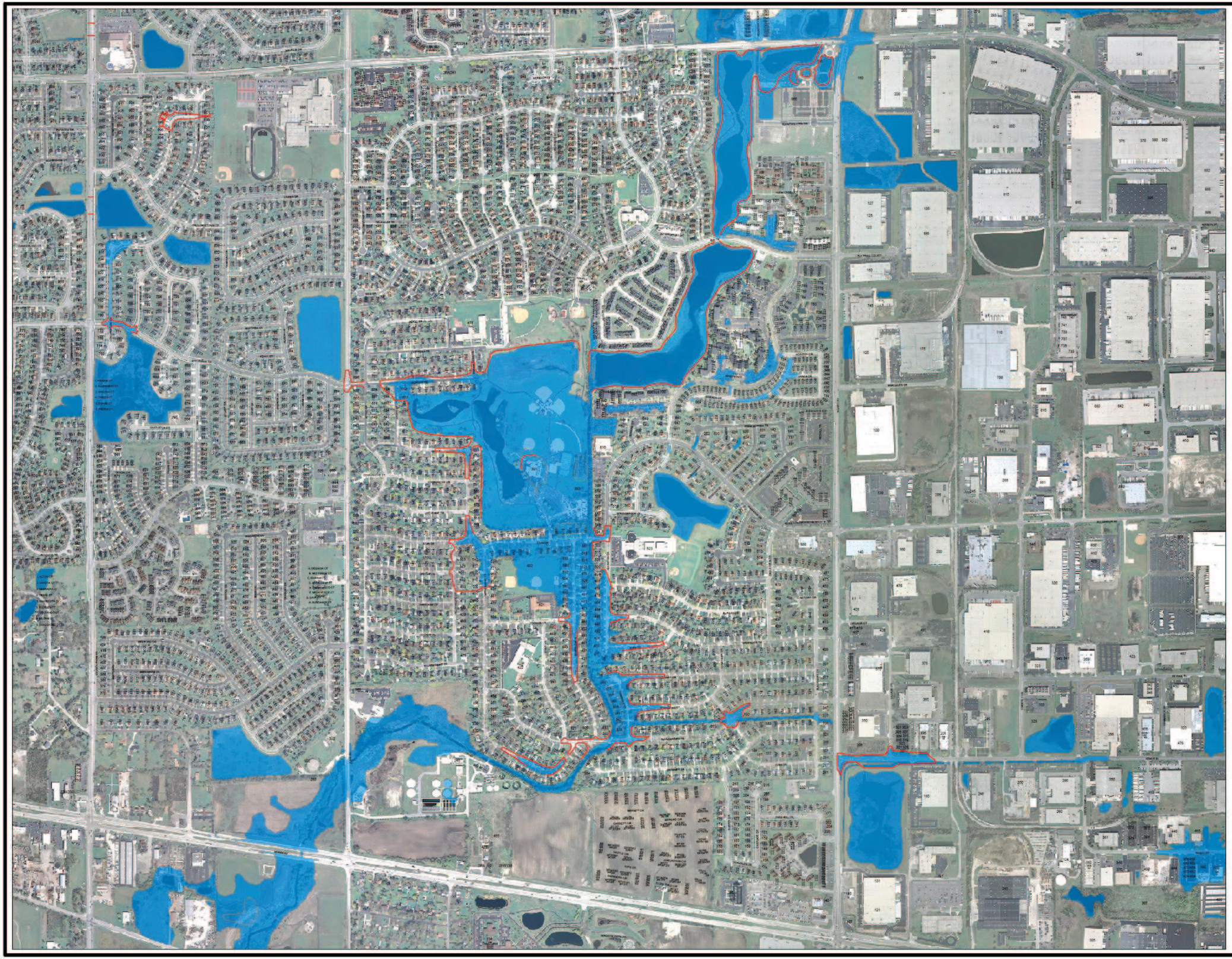
Klein Creek, Carol Stream (CBBEL Project No. 09-0321)
Comparison of Peak Flow Rates
at
F153 Upstream Carol Pt. Wtl
18. Branch# 99999; Node ID: CPWETLND; Station: 0.0000

	(1) V10Base.pek	(2) prop6c3.pek	2-1
Nodes ==>	153	153	
1925/01/02	24.54	24.53	-0.01
1949/04/08	48.32	48.31	0.00
1949/06/21	76.63	76.68	0.06
1949/07/27	54.28	54.28	0.00
1949/12/31	49.86	49.95	0.09
1950/01/31	48.90	48.90	-0.01
1950/05/03	71.17	71.33	0.16
1950/06/11	62.57	62.74	0.17
1951/03/09	48.69	48.71	0.02
1951/05/17	48.10	48.17	0.08
1951/07/29	54.21	54.21	0.00
1952/01/25	57.55	57.55	0.01
1952/03/28	39.23	39.05	-0.18
1953/03/23	46.58	46.59	0.01
1953/06/16	51.34	51.41	0.07
1953/07/28	81.08	81.12	0.04
1954/04/05	90.66	90.43	-0.23
1954/05/08	61.86	61.78	-0.08
1954/08/29	53.90	53.85	-0.05
1954/10/25	81.09	81.02	-0.06
1955/03/09	30.05	30.05	0.00
1956/05/18	47.31	47.31	0.00
1957/01/27	37.27	37.23	-0.04
1957/03/04	70.77	70.90	0.12
1957/07/28	83.78	84.09	0.31
1958/04/30	63.24	63.31	0.06
1958/06/19	48.97	48.89	-0.08
1958/07/11	38.09	38.15	0.05
1959/04/07	30.35	30.35	0.00
1959/07/27	25.88	25.88	0.00
1960/01/21	43.72	43.77	0.05
1960/04/04	15.80	15.80	0.00
1961/08/09	52.12	52.12	0.00
1961/10/06	81.95	82.10	0.16
1962/04/15	29.07	29.06	-0.01
1962/07/08	62.19	62.19	0.00
1963/05/07	44.26	44.27	0.01
1964/04/12	39.32	39.35	0.03
1964/07/25	51.44	51.36	-0.08
1965/03/22	42.64	42.62	-0.02
1966/02/15	38.44	38.43	-0.01
1966/05/18	49.51	49.47	-0.04
1967/04/09	38.50	38.50	0.00
1967/07/01	59.45	59.45	0.00
1968/08/24	63.72	63.80	0.08
1969/04/13	36.28	36.29	0.01
1969/06/15	45.84	45.81	-0.03
1969/08/01	30.15	30.14	0.00
1969/10/25	78.35	78.30	-0.05
1970/05/20	43.83	43.82	-0.01
1970/12/18	37.65	37.63	-0.02
1971/03/04	28.94	28.95	0.00

1971/08/28	51.76	51.91	0.16
1972/03/21	42.85	42.85	0.00
1972/04/27	70.39	70.29	-0.10
1972/09/01	65.56	65.56	0.00
1972/10/05	59.79	59.72	-0.08
1973/01/08	65.67	65.50	-0.17
1973/05/08	42.31	42.31	0.00
1974/02/28	45.23	45.24	0.01
1974/04/21	36.37	36.37	0.00
1974/05/25	35.27	35.30	0.03
1975/01/16	42.52	42.53	0.01
1975/05/05	54.01	54.00	-0.02
1975/09/08	61.14	61.13	-0.01
1976/03/21	50.54	50.50	-0.04
1977/07/05	47.45	48.10	0.65
1977/08/13	39.82	39.78	-0.04
1977/09/07	34.69	34.70	0.01
1978/04/02	25.01	25.01	0.00
1978/05/21	32.94	32.94	0.00
1978/07/09	43.13	43.08	-0.05
1978/09/25	58.78	58.65	-0.13
1979/04/18	62.86	62.84	-0.02
1979/09/05	51.35	51.26	-0.09
1980/01/21	22.34	22.34	0.00
1980/08/26	59.82	59.82	0.01
1980/09/26	42.36	42.39	0.03
1981/05/03	46.76	46.68	-0.08
1981/06/05	75.60	75.63	0.03
1981/06/21	38.36	38.36	0.00
1981/08/23	46.51	46.57	0.06
1982/03/28	49.22	49.10	-0.13
1982/07/31	56.12	56.19	0.07
1982/08/14	58.88	58.96	0.08
1982/12/12	88.81	88.84	0.03
1983/01/04	55.56	55.52	-0.04
1983/04/22	46.58	46.66	0.07
1983/06/04	47.49	47.52	0.03
1983/07/09	49.71	49.62	-0.09
1983/12/05	55.28	55.37	0.08
1984/02/25	46.05	46.06	0.01
1984/04/03	44.46	44.52	0.06
1985/03/19	71.27	71.12	-0.15
1985/12/11	48.85	48.95	0.10
1986/07/19	30.71	30.71	0.00
1986/10/10	53.64	53.63	-0.01
1987/09/06	95.20	95.44	0.24
1988/01/01	39.81	39.81	0.00
1988/02/07	34.70	34.72	0.02
1988/04/13	29.58	29.58	0.00
1988/10/26	69.50	69.67	0.16
1989/08/18	78.99	79.05	0.06
1989/09/18	58.68	58.56	-0.12
1990/03/16	51.01	51.09	0.08
1990/05/19	58.23	58.13	-0.10
1990/08/28	69.26	69.25	-0.01
1990/12/10	50.65	50.61	-0.03
1991/04/23	42.40	42.44	0.04
1991/06/02	38.37	38.49	0.12
1991/10/09	48.97	48.94	-0.03
1991/11/08	37.20	37.19	-0.01
1991/12/18	28.76	28.76	0.00
1992/09/21	39.43	39.42	-0.01
1993/01/11	41.30	41.32	0.02

1993/04/29	47.06	47.06	0.01
1993/07/06	48.78	48.86	0.08
1994/03/13	46.38	46.36	-0.01
1994/07/02	61.01	61.03	0.03
1994/08/24	36.43	36.45	0.02
1995/01/25	41.39	41.41	0.02
1995/05/06	41.67	41.66	-0.01
1995/08/24	39.97	40.06	0.10
1995/11/18	43.88	43.87	-0.01
1996/06/27	50.16	50.20	0.04
1996/08/05	39.83	39.85	0.02
1997/03/06	80.57	80.52	-0.05
1998/03/25	33.75	33.81	0.06
1998/05/15	42.02	42.00	-0.03
1998/08/15	55.41	55.52	0.11
1998/09/14	29.05	29.04	0.00
1998/10/25	49.55	49.91	0.36
1999/02/09	48.13	48.12	-0.01
1999/05/06	51.24	51.26	0.01
2000/04/28	59.25	59.45	0.20
2001/03/02	44.80	44.83	0.03
2001/09/06	93.60	93.38	-0.22
2001/09/30	48.74	48.69	-0.06
2001/10/31	82.22	82.36	0.13
2002/03/15	38.39	38.39	0.00
2002/05/22	46.70	46.73	0.03
2002/07/14	52.03	52.21	0.18
2002/08/29	76.16	76.13	-0.03
2003/05/19	47.76	47.60	-0.15
2003/08/13	28.81	28.80	-0.02
2003/11/29	36.90	36.90	0.01
2004/03/11	32.91	32.91	0.00
2004/06/18	44.06	44.17	0.11
2005/01/18	45.06	45.06	-0.01
2006/03/18	33.13	33.13	-0.01
2006/07/03	38.15	38.15	0.00
2006/09/29	45.72	45.79	0.08
2006/10/09	37.38	37.39	0.01
2007/03/15	44.00	44.07	0.06
2007/08/31	60.66	60.51	-0.15
2008/03/09	49.21	49.27	0.06
2008/05/18	28.26	28.26	0.00
2008/09/23	78.38	78.93	0.55
Max Flow	95.20	95.44	
StormEvent	1987/09/06	1987/09/06	

Appendix 5



VILLAGE OF CAROL STREAM

Observed High Water Mark Location Map
September 13-14, 2008

Observed High Water Mark Locations

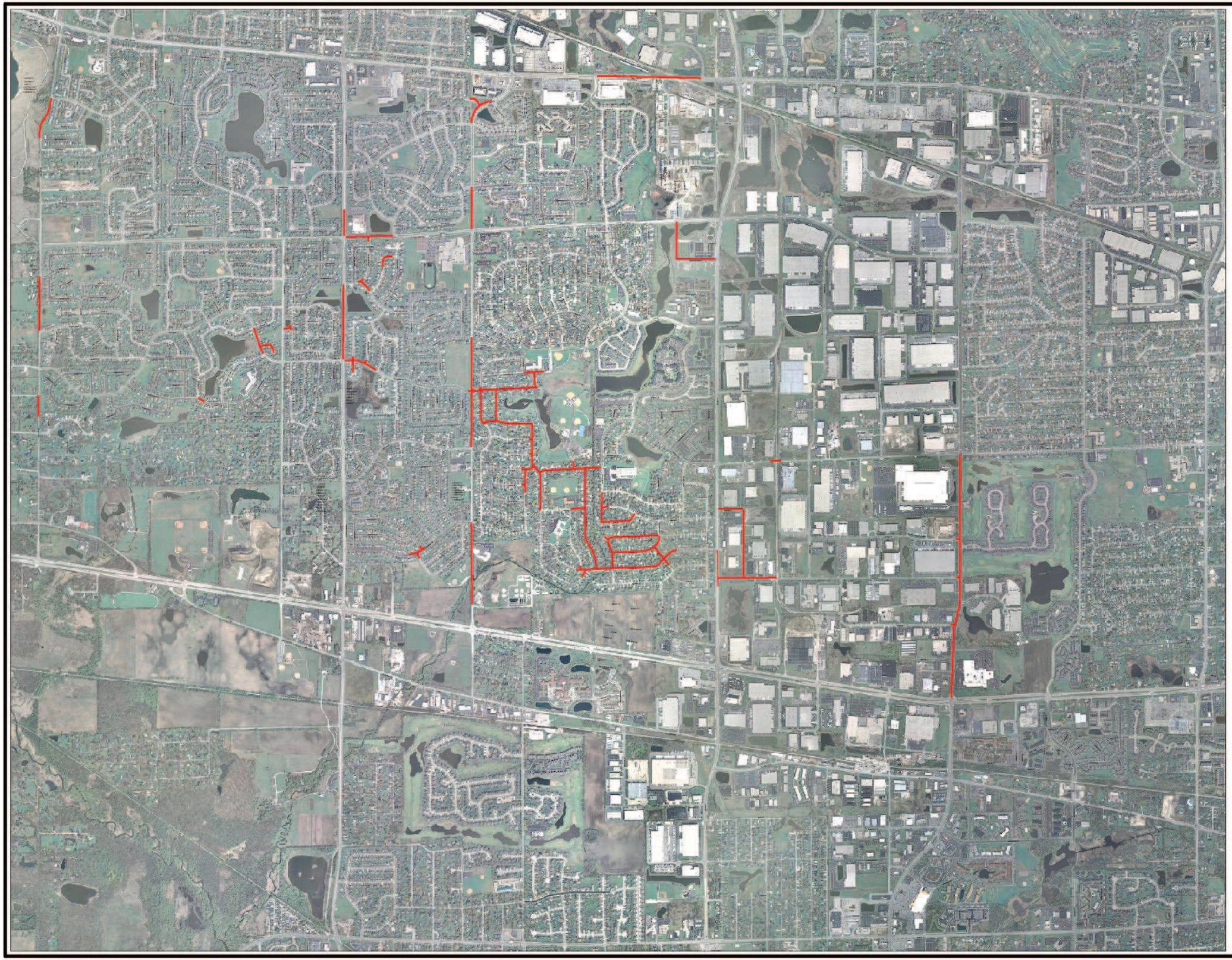
DuPage County Regulatory Flood Plain

N
W E
S

1 inch equals 300 feet

Prepared By:
Engineering Services Department
October 21, 2008

Appendix 6



VILLAGE OF CAROL STREAM

Map Of Road Closure Locations Due To Street Flooding September 13-14, 2008

Road Closure

N
W E
S

1 inch equals 600 feet

Prepared By:
Engineering Services Department
October 22, 2008

Appendix 7

ENGINEER'S OPINION OF PROBABLE COST
DATE: AUGUST 18, 2010
LAST REVISED: SEPTEMBER 2, 2010

Gary-Kehoe Instersection Improvements

ALTERNATE 2				
ITEM	UNIT	UNIT COST	**QUANTITY**	**TOTAL COST**
TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	$ 50.00	**50**	$ 2,500.00
TRENCH BACKFILL	CY	$ 40.00	**50**	$ 2,000.00
TOPSOIL FURNISH AND PLACE, 4"	SY	$ 10.00	**1,000**	$ 10,000.00
SEEDING, CLASS 1	ACRE	$ 4,000.00	**0.2**	$ 800.00
EROSION CONTROL BLANKET	SY	$ 5.00	**1,000**	$ 5,000.00
60" FLARED END SECTION WITH GRATE	EACH	$ 2,000.00	**1**	$ 2,000.00
PERIMETER EROSION BARRIER	FOOT	$ 3.00	**200**	$ 600.00
STONE DUMPED RIPRAP, CLASS A3	SY	$ 50.00	**40**	$ 2,000.00
COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	$ 40.00	**30**	$ 1,200.00
PAVEMENT PATCHING (FULL DEPTH)	SY	$ 80.00	**50**	$ 4,000.00
STORM SEWER, CLASS A, TYPE 1 60"	FOOT	$ 150.00	**200**	$ 30,000.00
MANHOLES, TYPE A, 8'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	$ 10,000.00	**1**	$ 10,000.00
TRAFFIC CONTROL AND PROTECTION	L. SUM	$ 3,000.00	**1**	$ 3,000.00
CONSTRUCTION LAYOUT	L. SUM	$ 6,000.00	**1**	$ 6,000.00
STABILIZED CONSTRUCTION ENTRANCE	SQ YD	$ 30.00	**120**	$ 3,600.00
SIDEWALK REMOVAL AND REPLACEMENT	SF	$ 8.00	**50**	$ 400.00
			SUB-TOTAL	$ 83,100.00
	20%		CONTINGENCY	$ 16,620.00
			CONSTRUCTION TOTAL	$ 99,720.00
	7.50%		DESIGN	$ 7,479.00
	7.50%		CONSTRUCTION ENG	$ 7,479.00
	7.50%		PERMITTING	$ 7,479.00
			TOTAL COST	**$ 122,157.00**

Upstream Storage - Location 1

ALTERNATE 3				
ITEM	UNIT	UNIT COST	**QUANTITY**	**TOTAL COST**
TREE REMOVAL (6 TO 15 UNITS DIAMETER)	L. SUM	$ 5,000.00	**1**	$ 5,000.00
EARTH EXCAVATION	CY	$ 15.00	**340,413**	$ 5,106,200.00
TOPSOIL FURNISH AND PLACE, 4"	SY	$ 10.00	**116,644**	$ 1,166,440.00
SEEDING, CLASS 1	ACRE	$ 4,000.00	**24.1**	$ 96,400.00
EROSION CONTROL BLANKET	SY	$ 5.00	**116,644**	$ 583,220.00
PERIMETER EROSION BARRIER	FOOT	$ 3.00	**1,000**	$ 3,000.00
PAVEMENT REMOVAL	SY	$ 10.00	**2,000**	$ 20,000.00
TRAFFIC CONTROL AND PROTECTION	L. SUM	$ 3,000.00	**1**	$ 3,000.00
CONSTRUCTION LAYOUT	L. SUM	$ 6,000.00	**1**	$ 6,000.00
STABILIZED CONSTRUCTION ENTRANCE	SQ YD	$ 30.00	**120**	$ 3,600.00
DEWATERING	L. SUM	$ 50,000.00	**1**	$ 50,000.00
CONTROL STRUCTURE MODIFICATION	L. SUM	$ 10,000.00	**1**	$ 10,000.00
			SUB-TOTAL	$ 6,992,860.00
	20%		CONTINGENCY	$ 1,398,572.00
			CONSTRUCTION TOTAL	$ 8,391,432.00
	7.50%		DESIGN	$ 629,357.40
	7.50%		CONSTRUCTION ENG	$ 629,357.40
	7.50%		PERMITTING	$ 629,357.40
			LAND ACQUISITION	$ 8,950,500.00
			TOTAL COST	**$ 19,230,004.20**

Upstream Storage - Location 2, Option A

ALTERNATE 4A				
ITEM	UNIT	UNIT COST	**QUANTITY**	**TOTAL COST**
TREE REMOVAL (6 TO 15 UNITS DIAMETER)	L. SUM	$ 5,000.00	**1**	$ 5,000.00
EARTH EXCAVATION	CY	$ 15.00	**145,200**	$ 2,178,000.00
TRENCH BACKFILL	CY	$ 40.00	**528**	$ 21,136.00
TOPSOIL FURNISH AND PLACE, 4"	SY	$ 10.00	**67,760**	$ 677,600.00
SEEDING, CLASS 1	ACRE	$ 4,000.00	**14.0**	$ 56,000.00
EROSION CONTROL BLANKET	SY	$ 5.00	**67,760**	$ 338,800.00
PERIMETER EROSION BARRIER	FOOT	$ 3.00	**1,000**	$ 3,000.00
STONE DUMPED RIPRAP, CLASS A3	SY	$ 50.00	**100**	$ 5,000.00
CONCRETE WEIR	SY	$ 50.00	**1111**	$ 55,555.56
COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	$ 40.00	**40**	$ 1,600.00
PAVEMENT PATCHING (FULL DEPTH)	SY	$ 80.00	**133**	$ 10,666.67
STORM SEWER, CLASS A, TYPE 1 72"	FOOT	$ 100.00	**200**	$ 20,000.00
STORM SEWER, CLASS A, TYPE 1 12"	FOOT	$ 40.00	**200**	$ 8,000.00
72" FES WITH GRATE	EACH	$ 3,500.00	**2**	$ 7,000.00
BUILDING DEMOLITION	L. SUM	$ 500,000.00	**1**	$ 500,000.00
PAVEMENT REMOVAL	SY	$ 10.00	**1,160**	$ 11,600.00
TRAFFIC CONTROL AND PROTECTION	L. SUM	$ 3,000.00	**1**	$ 3,000.00
CONSTRUCTION LAYOUT	L. SUM	$ 6,000.00	**1**	$ 6,000.00
STABILIZED CONSTRUCTION ENTRANCE	SQ YD	$ 30.00	**120**	$ 3,600.00
PUMP STATION	L. SUM	$ 250,000.00	**0**	$ -
12" FES	EACH	$ 750.00	**2**	$ 1,500.00
			SUB-TOTAL	$ 3,913,058.22
	20%		CONTINGENCY	$ 782,611.64
			CONSTRUCTION TOTAL	$ 4,695,669.87
	7.50%		DESIGN	$ 352,175.24
	7.50%		CONSTRUCTION ENG	$ 352,175.24
	7.50%		PERMITTING	$ 352,175.24
			LAND ACQUISITION	$ 9,377,280.00
			TOTAL COST	**$ 15,129,475.59**

Upstream Storage - Location 2, Option C

ALTERNATE 4C				
ITEM	UNIT	UNIT COST	QUANTITY	TOTAL COST
TREE REMOVAL (6 TO 15 UNITS DIAMETER)	L. SUM	$ 5,000.00	1	$ 5,000.00
EARTH EXCAVATION	CY	$ 15.00	379,133	$ 5,687,000.00
TRENCH BACKFILL	CY	$ 40.00	528	$ 21,136.00
TOPSOIL FURNISH AND PLACE, 4"	SY	$ 10.00	67,760	$ 677,600.00
SEEDING, CLASS 1	ACRE	$ 4,000.00	14.0	$ 56,000.00
EROSION CONTROL BLANKET	SY	$ 5.00	67,760	$ 338,800.00
PERIMETER EROSION BARRIER	FOOT	$ 3.00	1,000	$ 3,000.00
STONE DUMPED RIPRAP, CLASS A3	SY	$ 50.00	100	$ 5,000.00
CONCRETE WEIR	SY	$ 50.00	1111	$ 55,555.56
COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	$ 40.00	40	$ 1,600.00
PAVEMENT PATCHING (FULL DEPTH)	SY	$ 80.00	133	$ 10,666.67
STORM SEWER, CLASS A, TYPE 1 72"	FOOT	$ 100.00	200	$ 20,000.00
STORM SEWER, CLASS A, TYPE 1 12"	FOOT	$ 40.00	200	$ 8,000.00
72" FES WITH GRATE	EACH	$ 3,500.00	2	$ 7,000.00
BUILDING DEMOLITION	L. SUM	$ 500,000.00	1	$ 500,000.00
PAVEMENT REMOVAL	SY	$ 10.00	1,160	$ 11,600.00
TRAFFIC CONTROL AND PROTECTION	L. SUM	$ 3,000.00	1	$ 3,000.00
CONSTRUCTION LAYOUT	L. SUM	$ 6,000.00	1	$ 6,000.00
STABILIZED CONSTRUCTION ENTRANCE	SQ YD	$ 30.00	120	$ 3,600.00
PUMP STATION	L. SUM	$ 250,000.00	1	$ 250,000.00
12" FES	EACH	$ 750.00	2	$ 1,500.00
			SUB-TOTAL	$ 7,672,058.22

20%	CONTINGENCY	$ 1,534,411.64
	CONSTRUCTION TOTAL	$ 9,206,469.87
7.50%	DESIGN	$ 690,485.24
7.50%	CONSTRUCTION ENG	$ 690,485.24
7.50%	PERMITTING	$ 690,485.24
	LAND ACQUISITION	$ 9,377,280.00
	TOTAL COST	**$ 20,655,205.59**

Elk Trail

ALTERNATE 5				
ITEM	UNIT	UNIT COST	QUANTITY	TOTAL COST
TREE REMOVAL (6 TO 15 UNITS DIAMETER)	L. SUM	$ 5,000.00	2	$ 10,000.00
OUTLET CONTROL STRUCTURE MODIFICATIONS	L. SUM	$ 50,000.00	1	$ 50,000.00
TRAFFIC CONTROL AND PROTECTION	L. SUM	$ 10,000.00	1	$ 10,000.00
CONSTRUCTION LAYOUT	L. SUM	$ 6,000.00	1	$ 6,000.00
STABILIZED CONSTRUCTION ENTRANCE	SQ YD	$ 30.00	100	$ 3,000.00
PERIMETER EROSION BARRIER	FOOT	$ 3.00	100	$ 300.00
IN STREAM BARRIER FILTER	FOOT	$ 25.00	300	$ 7,500.00
SEEDING, CLASS 1	ACRE	$ 4,000.00	0.1	$ 400.00
EROSION CONTROL BLANKET	SY	$ 5.00	485	$ 2,425.00
			SUB-TOTAL	$ 66,000.00

20%	CONTINGENCY	$ 13,200.00
	CONSTRUCTION TOTAL	$ 79,200.00
7.50%	DESIGN	$ 5,940.00
7.50%	CONSTRUCTION ENG	$ 5,940.00
	PERMITTING	$ 20,000.00
	TOTAL COST	**$ 111,080.00**

Armstrong Park, Alternative A

ALTERNATE 6A				
ITEM	UNIT	UNIT COST	QUANTITY	TOTAL COST
TREE REMOVAL (6 TO 15 UNITS DIAMETER)	L. SUM	$ 5,000.00	1	$ 5,000.00
EARTH EXCAVATION	CY	$ 15.00	190,000	$ 2,850,000.00
TOPSOIL FURNISH AND PLACE, 4"	SY	$ 10.00	90,000	$ 900,000.00
SEEDING, CLASS 1	ACRE	$ 4,000.00	20.0	$ 80,000.00
EROSION CONTROL BLANKET	SY	$ 5.00	90,000	$ 450,000.00
STONE DUMPED RIPRAP, CLASS A3	SY	$ 50.00	400	$ 20,000.00
FILTER FABRIC	SY	$ 1.00	400	$ 400.00
BOX CULVERT, 4' x 8'	FOOT	$ 750.00	850	$ 637,500.00
HEADWALL	EACH	$ 5,000.00	2	$ 10,000.00
CONTROL STRUCTURE	EACH	$ 10,000.00	2	$ 20,000.00
STORM SEWER RCP 12"	FOOT	$ 40.00	250	$ 10,000.00
12" FES	EACH	$ 350.00	4	$ 1,400.00
BERM	CY	$ 5.00	8,000	$ 40,000.00
STABILIZED CONSTRUCTION ENTRANCE	SY	$ 30.00	120	$ 3,600.00
CONSTRUCTION LAYOUT	L. SUM	$ 150,000.00	1	$ 150,000.00
TRAFFIC CONTROL AND PROTECTION	L. SUM	$ 300,000.00	1	$ 300,000.00
			SUB-TOTAL	$ 5,477,900.00

20%	CONTINGENCY	$ 1,095,580.00
	CONSTRUCTION TOTAL	$ 6,573,480.00
7.50%	DESIGN	$ 493,011.00
7.50%	CONSTRUCTION ENG	$ 493,011.00
7.50%	PERMITTING	$ 493,011.00
	TOTAL COST	**$ 8,052,513.00**

Armstrong Park, Alternative B

ALTERNATE 6B				
ITEM	UNIT	UNIT COST	QUANTITY	TOTAL COST
TREE REMOVAL (6 TO 15 UNITS DIAMETER)	L. SUM	$ 25,000.00	1	$ 25,000.00
EARTH EXCAVATION	CY	$ 15.00	181,000	$ 2,715,000.00
TOPSOIL FURNISH AND PLACE, 4"	SY	$ 10.00	80,000	$ 800,000.00
SEEDING, CLASS 1	ACRE	$ 4,000.00	17.5	$ 70,000.00
EROSION CONTROL BLANKET	SY	$ 5.00	80,000	$ 400,000.00
PUMP STATION	L.SUM	$1,710,000.00	1	$ 1,710,000.00
STORM SEWER RCP 60"	FOOT	$ 90.00	350	$ 31,500.00
60" FES WITH GRATE	EACH	$ 3,000.00	3	$ 9,000.00
BERM	CY	$5.00	50,000	$ 250,000.00
STABILIZED CONSTRUCTION ENTRANCE	SY	$ 30.00	120	$ 3,600.00
CONSTRUCTION LAYOUT	L. SUM	$ 150,000.00	1	$ 150,000.00
TRAFFIC CONTROL AND PROTECTION	L. SUM	$ 300,000.00	1	$ 300,000.00
STONE DUMPED RIPRAP, CLASS A3	SY	$50.00	150	$ 7,500.00
FILTER FABRIC	SY	$1.00	150	$ 150.00
			SUB-TOTAL	$ 6,471,750.00

20%	CONTINGENCY	$ 1,294,350.00
	CONSTRUCTION TOTAL	$ 7,766,100.00
7.50%	DESIGN	$ 582,457.50
7.50%	CONSTRUCTION ENG	$ 582,457.50
7.50%	PERMITTING	$ 582,457.50
	TOTAL COST	**$ 9,513,472.50**

Armstrong Park, Alternative C

ALTERNATE 6C				
ITEM	UNIT	UNIT COST	QUANTITY	TOTAL COST
TREE REMOVAL (6 TO 15 UNITS DIAMETER)	L. SUM	$ 25,000.00	1	$ 25,000.00
EARTH EXCAVATION	CY	$ 15.00	181,000	$ 2,715,000.00
TOPSOIL FURNISH AND PLACE, 4"	SY	$ 10.00	85,000	$ 850,000.00
SEEDING, CLASS 1	ACRE	$ 4,000.00	18.0	$ 72,000.00
EROSION CONTROL BLANKET	SY	$ 5.00	85,000	$ 425,000.00
PUMP STATION	L.SUM	$1,710,000.00	1	$ 1,710,000.00
STORM SEWER RCP 60"	FOOT	$ 90.00	2,900	$ 261,000.00
60" FES WITH GRATE	EACH	$ 3,000.00	3	$ 9,000.00
BUILDING DEMOLITION	L. SUM	$ 200,000.00	1	$ 200,000.00
BERM	CY	$5.00	50,000	$ 250,000.00
STABILIZED CONSTRUCTION ENTRANCE	SY	$ 30.00	120	$ 3,600.00
CONSTRUCTION LAYOUT	L. SUM	$ 150,000.00	1	$ 150,000.00
TRAFFIC CONTROL AND PROTECTION	L. SUM	$ 300,000.00	1	$ 300,000.00
STONE DUMPED RIPRAP, CLASS A3	SY	$50.00	150	$ 7,500.00
FILTER FABRIC	SY	$1.00	150	$ 150.00
TRENCH BACKFILL	CY	$35.00	7,500	$ 262,500.00
CLASS D PATCHES, 6"	SY	$40.00	2,000	$ 80,000.00
MANHOLES 7' DIA	EACH	$6,000.00	5	$ 30,000.00
			SUB-TOTAL	$ 7,350,750.00

20%	CONTINGENCY	$ 1,470,150.00
	CONSTRUCTION TOTAL	$ 8,820,900.00
7.50%	DESIGN	$ 661,567.50
7.50%	CONSTRUCTION ENG	$ 661,567.50
7.50%	PERMITTING	$ 661,567.50
	LAND ACQUISITION	$ 272,124.00
	TOTAL COST	**$ 11,077,726.50**

Appendix 8

Klein Creek Watershed

ALTERNATIVES ANALYSIS

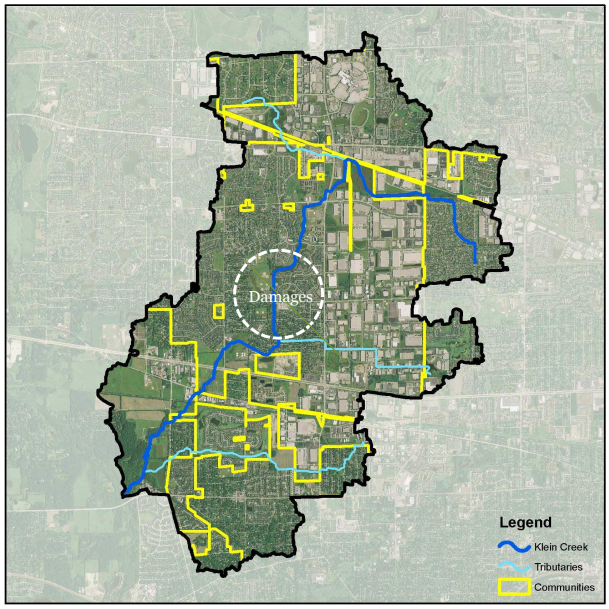
DUPAGE COUNTY STORMWATER COMMITTEE

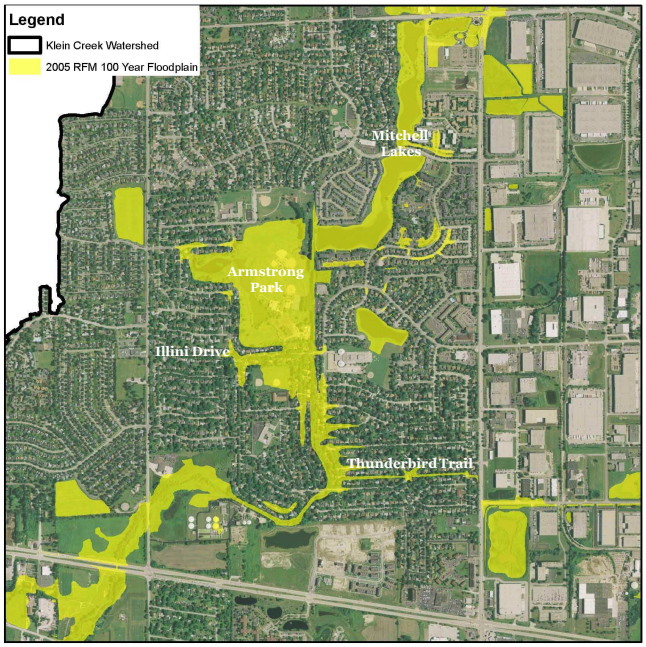
SEPTEMBER 7, 2010

WBK

Watershed Characteristics

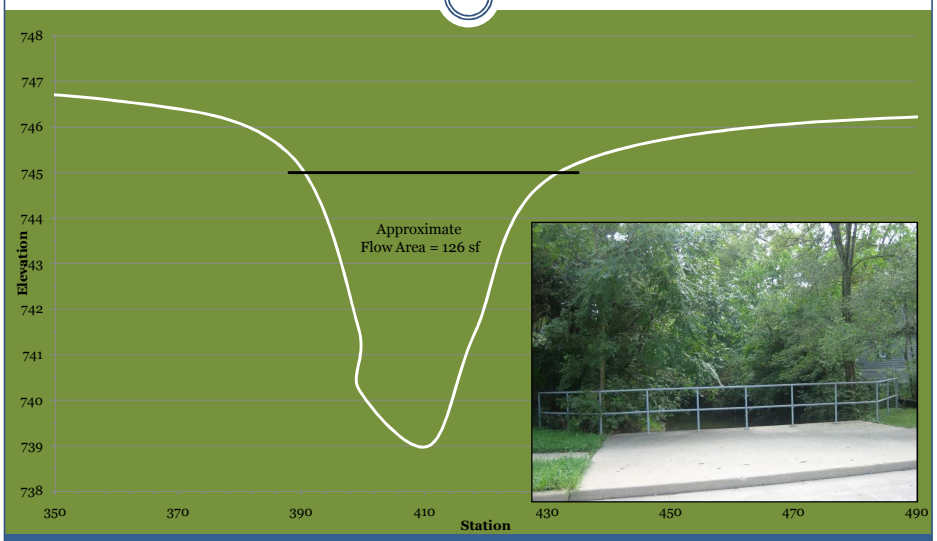
- Total Watershed Area of 12.7 square miles
  - Carol Stream: 5.8 sq. mi.
  - Unincorporated DuPage Co.: 3.3 sq. mi.
  - Bloomingdale: 1.7 sq. mi.
  - Glendale Heights: 1.2 sq. mi.
  - Winfield: 0.7 sq. mi.
- Tributaries:
  - Tributary 1 -Klein Creek Golf Course
  - Tributary 2 -Thunderbird Trail Creek
  - Tributary 3 –from Mallard Lake



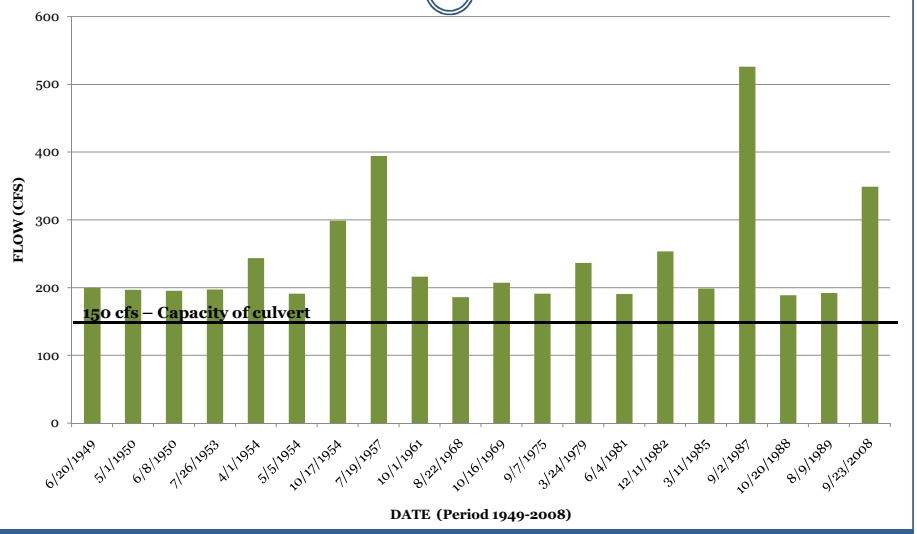


Floodplain Limits

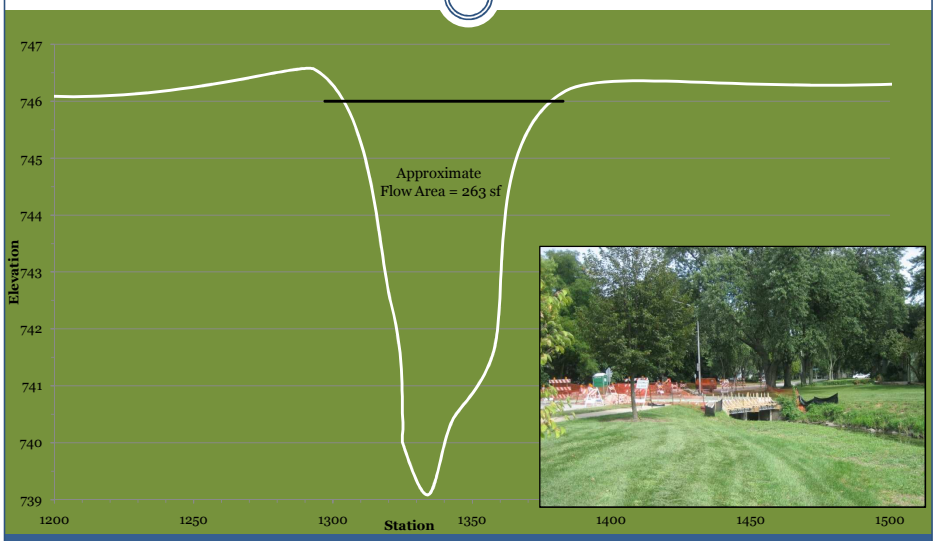
Klein Creek Section @ Illini Drive



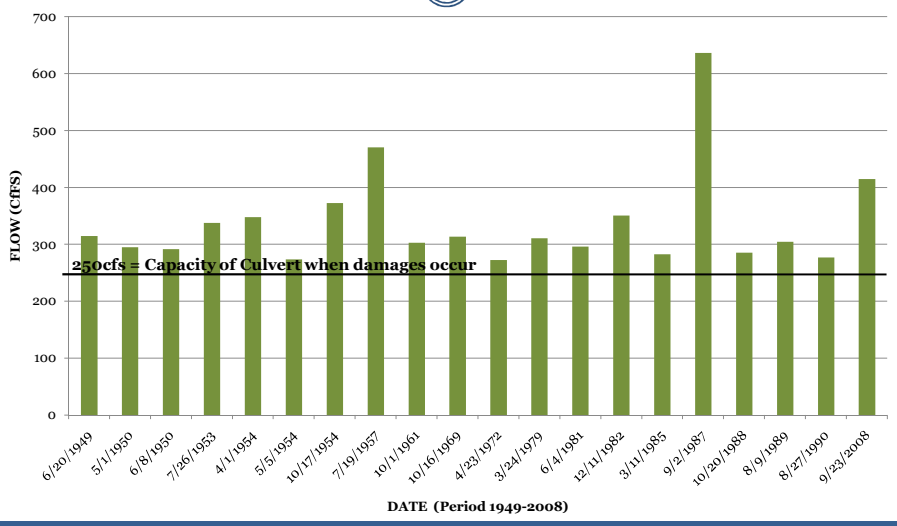
Storm Events @ Illini Drive



Klein Creek Section @ Thunderbird Trail

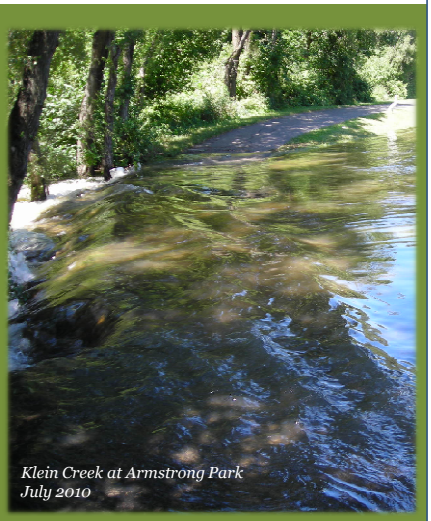


Storm Events @ Thunderbird Trail



Alternatives

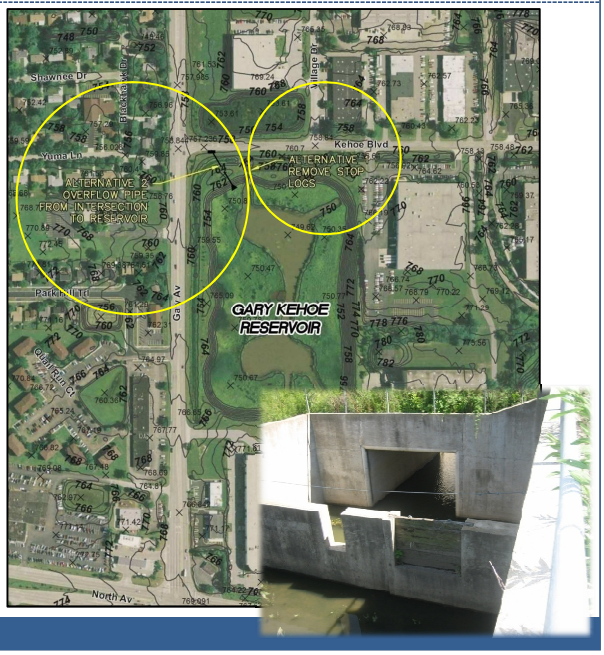
- **Gary Kehoe Reservoir**
  - Removal of Stop Logs
  - Intersection Drainage Improvements
- **Additional Upstream Storage**
  - 2 Locations, 3 Alternatives
- **Elk Trail**
  - Modification of Control Structure
- **Armstrong Park**
  - Gravity Storage Reservoir
  - Pump Storage Reservoir
  - Siphon
- **Combinations**



Klein Creek at Armstrong Park
July 2010

Gary –Kehoe Reservoir

- 150 acre-foot reservoir
- Tributary Area of approximately 1.2 square miles
- Part of Tributary 2 (Thunderbird Trail Creek)
- 2 Alternatives



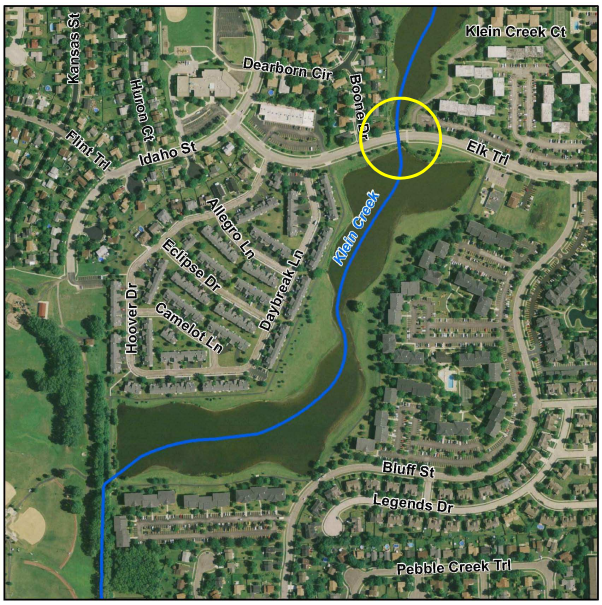
Additional Upstream Storage

Location 1:
- Potential Volume Provided: Gravity Reservoir = 200 AF

Location 2:
- Potential Volume Provided: Gravity Reservoir = 100 AF
OR
Pumped Reservoir = 235 AF

Elk Trail

- Located in Mitchell Lakes chain of basins
- Modification of existing structure to optimize storage in more frequent events



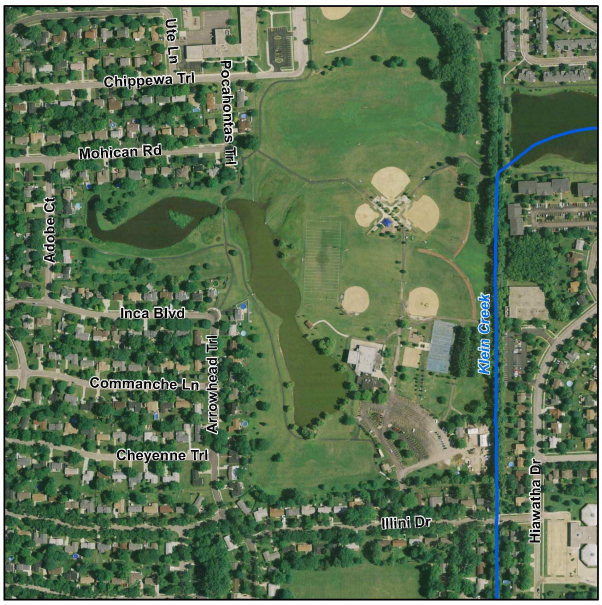
Elk Trail Concept Modifications

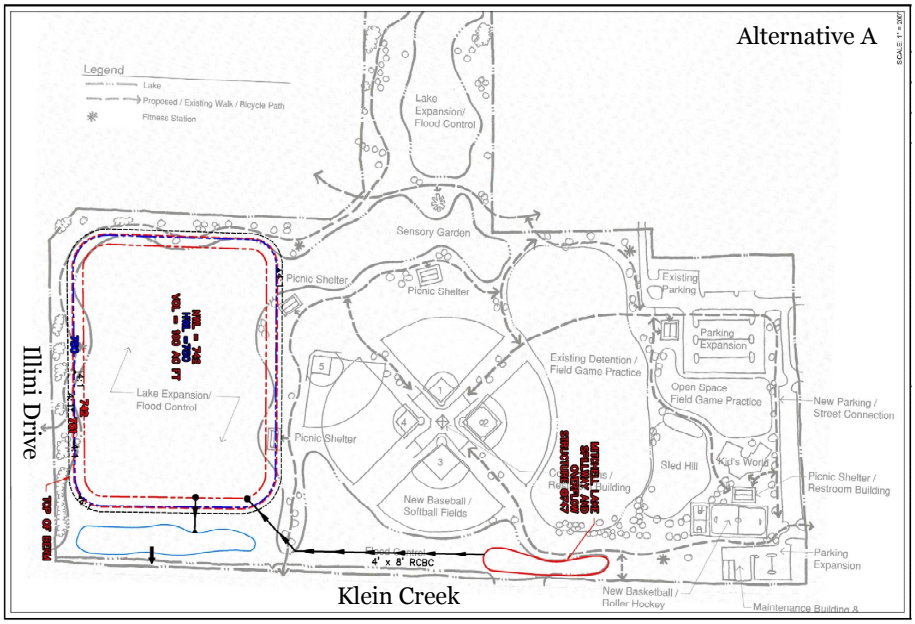
Create 1.5 foot opening at a higher elevation.

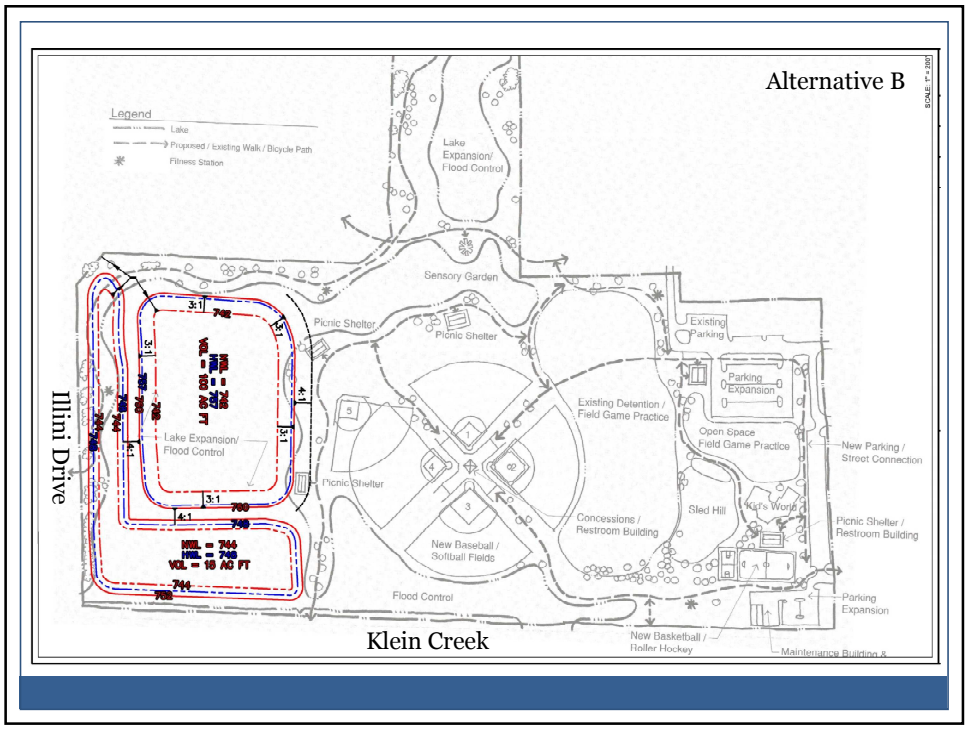
Reduce existing 2.5 foot opening to a 1 foot opening.

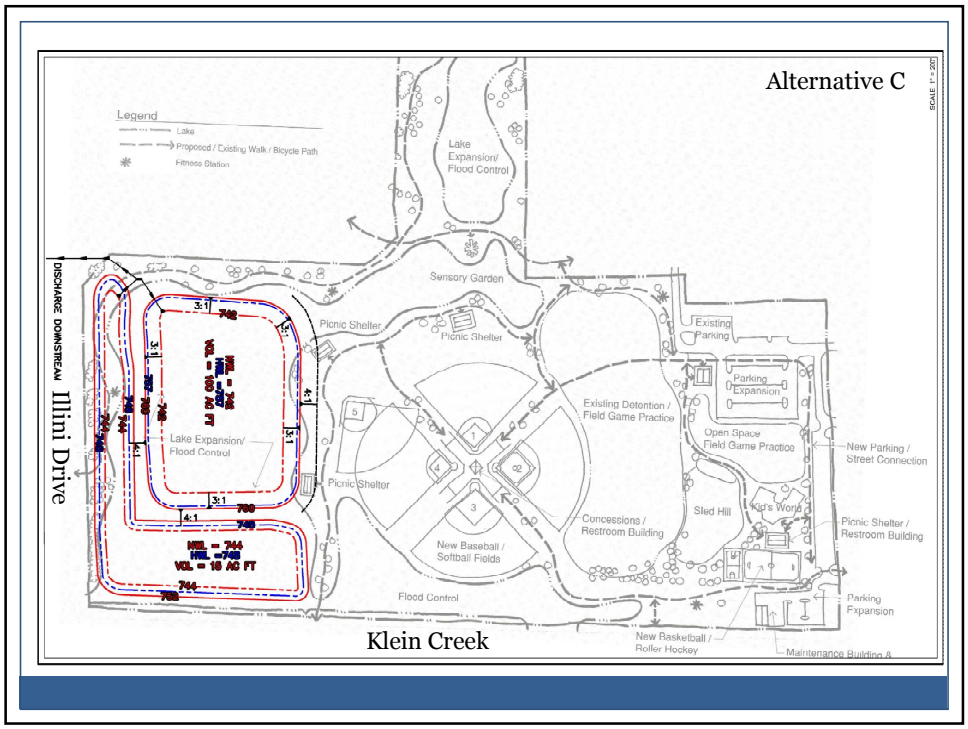
Armstrong Park

- Operated and maintained by the Carol Stream Park District
- Approximately 70 acres in size
- Existing dry bottom detention basin and Lake George






Alternative B
Legend
Lake
Proposed / Existing Walk / Bicycle Path
Fitness Station
Lake Expansion/ Flood Control
Sensory Garden
Picnic Shelter
Picnic Shelter
Existing Parking
Parking Expansion
Existing Detention / Field Game Practice
Open Space Field Game Practice
New Parking / Street Connection
Lake Expansion/ Flood Control
Picnic Shelter
Sled Hill
Kid's World
Picnic Shelter / Restroom Building
Concessions / Restroom Building
New Baseball / Softball Fields
Flood Control
Parking Expansion
New Basketball / Roller Hockey
Maintenance Building &
Illini Drive
Klein Creek
3:1
4:1
742
744
746
748
750
NWL = 744
HWL = 748
VOL = 18 AC FT

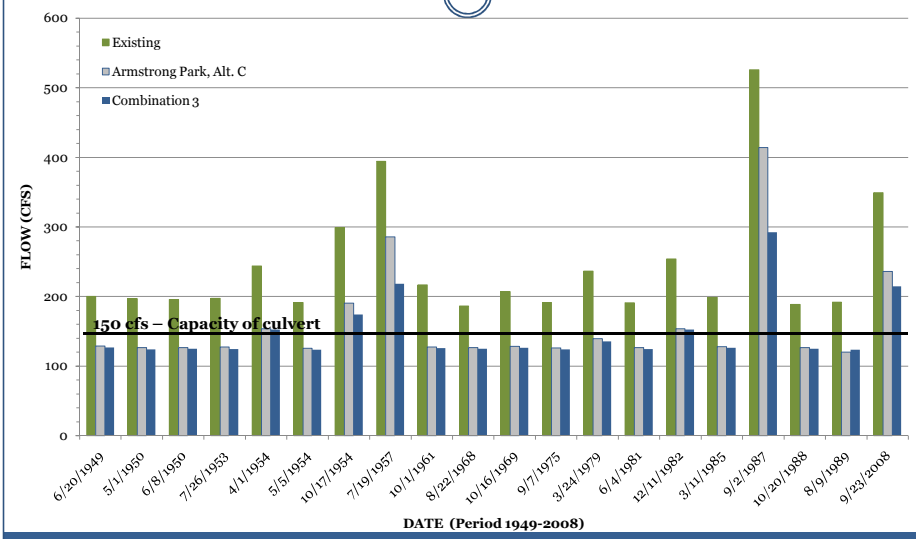

Alternative C
Legend
Lake
Proposed / Existing Walk / Bicycle Path
Fitness Station
Lake Expansion/ Flood Control
Sensory Garden
Picnic Shelter
Picnic Shelter
Existing Parking
Parking Expansion
Existing Detention / Field Game Practice
Open Space Field Game Practice
New Parking / Street Connection
Lake Expansion/ Flood Control
Picnic Shelter
Sled Hill
Kid's World
Picnic Shelter / Restroom Building
Concessions / Restroom Building
New Baseball / Softball Fields
Flood Control
Parking Expansion
New Basketball / Roller Hockey
Maintenance Building &
DISCHARGE DOWNSTREAM
Illini Drive
Klein Creek
3:1
4:1
742
744
746
748
750
NWL = 744
HWL = 748
VOL = 18 AC FT

Combinations of Alternatives

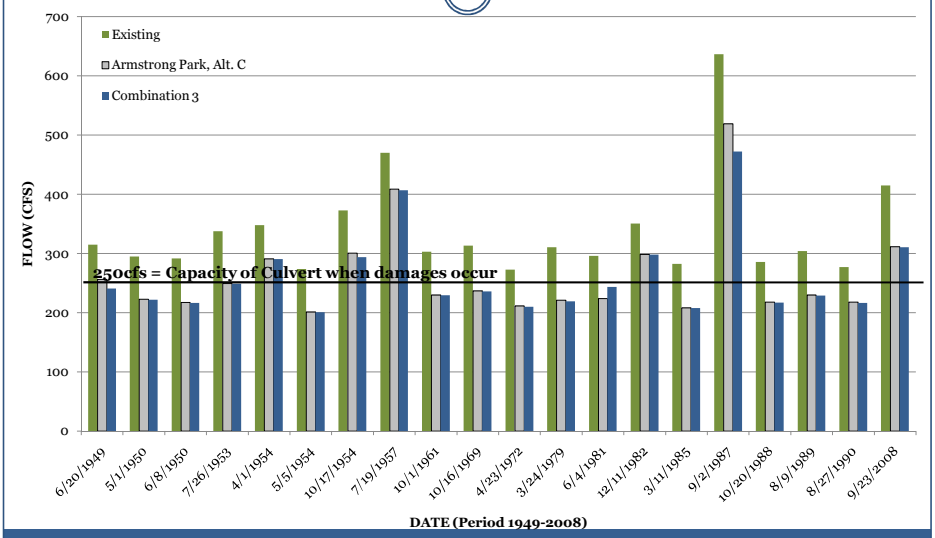
- Combination 1:
  - Gary Kehoe Improvements
  - Upstream Location 2, Alt. C
  - Armstrong Park – Alt. A
- Combination 2:
  - Gary Kehoe Improvements
  - Upstream Location 2, Alt. C
  - Armstrong Park – Alt. B
- Combination 3:
  - Gary Kehoe Improvements
  - Upstream Location 2, Alt. C
  - Armstrong Park – Alt. C

Armstrong Park , July 25, 2010

Storm Events @ Illini Drive



Storm Events @ Thunderbird Trail



Alternative Comparison

ALTERNATIVE	PROJECT COST[1]	BUYOUT COST	TOTAL NUMBER OF STRUCTURES DAMAGED	NO. OF STRUCTURES ELIGIBLE FOR BUYOUT	RESIDUAL DAMAGES	DAMAGE REDUCTION	TOTAL PROJECT COST/PERCENT DAMAGE REDUCTION
Baseline	--	--	48	10	100%	--	-
Buyout Only	--	$1.3 M	48	10	64%	36%	$36,000/1%
Armstrong Park, Alt. A	$5.5	$1.0 M	39	8	63%	37%	$176,000/1%
Armstrong Park, Alt. B	$6.5	$1.2 M	41	8	62%	38%	$203,000/1%
Armstrong Park, Alt. C	$7.7	$0.9 M	34	7	41%	59%	$146,000/1%
Upstream Storage, Location 2	$16.9	$0.8 M	31	5	50%	50%	$354,000/1%
Combination 1 Gary-Kehoe Improvements Upstream Storage, Location 2 Armstrong Park, Alt. A	$22.4	$0.5 M	27	4	36%	64%	$358,000/1%
Combination 2 Gary-Kehoe Improvements Upstream Storage, Location 2 Armstrong Park, Alt. B	$23.4	$0.4 M	23	3	20%	80%	$298,000/1%
Combination 3 Gary-Kehoe Improvements Upstream Storage, Location 2 Armstrong Park, Alt. C	$24.5	$0.3 M	19	2	14%	86%	$288,000/1%

[1]The cost does not include engineering fees, permitting costs and contingency for alternatives.

Un-Quantified Damage Comparison

DAMAGES	Buyout Only	Armstrong Park, Alt. A	Armstrong Park, Alt. B	Armstrong Park, Alt. C	Upstream Storage, Location 2	Combination 1	Combination 2	Combination 3
Sanitary Back-up	P	P	S	G	P	M	G	G
Water Borne Disease and Pollution	P	P	S	G	P	M	G	G
Traffic Disruption	P	P	S	G	P	M	G	G
Property Access Denied	P	M	S	G	M	G	G	G
Business/Employee Time Lost	P	M	S	G	M	S	G	G
Emergency Services Disruption	P	M	S	G	M	S	G	G
Probably Utility Outage	P	M	S	G	M	S	G	G

G – Good Level of Benefit; S – Some Benefit; M – Minimal Benefit; P – Poor Level of Benefit

Damage Comparison – Alternatives for further Consideration

ALTERNATIVE	TOTAL NUMBER OF STRUCTURES DAMAGED	NO. OF STRUCTURES ELIGIBLE FOR BUYOUT	RESIDUAL DAMAGES	DAMAGE REDUCTION	UN-QUANTIFIED DAMAGE BENEFITS
Baseline	48	10	100%	--	--
Buyout Only	48	10	64%	36%	POOR
Armstrong Park, Alt. C	34	7	41%	59%	GOOD
Combination 3 Gary-Kehoe Improvements Upstream Storage, Location 2 Armstrong Park, Alt. C	19	2	14%	86%	GOOD

Next Steps

- September 2010: Alternatives Analysis to Stormwater Committee
- October 2010: Finalize Watershed Plan
- November 2010: Public Comment Period
- December 2010: Adoption by Stormwater Committee and County Board

WBK

Appendix 9

Refer to hard copy of Addendum for electronic FEQ model files.