FLOODPLAIN ANALYSIS
AND
TWO-DIMENSIONAL MODELING

TECHNICAL DATA NOTEBOOK

FOR

MOON VALLEY COPORATE CENTER
PHOENIX, AZ

September, 2003

Prepared for:

Phoenix Scottish Rite
77 Columbus, Suite 215
Phoenix, Arizona 85012

Registered Professional Engineer (Civil)
CERTIFICATE NO.
28857
W. SCOTT
OGDEN
Date Signed 9/16/03
ARIZONA, U.S.A.

Prepared by:

JE FULLER
HYDROLOGY & GEOMORPHOLOGY, INC.

6101 South Rural Road, Suite 110
Tempe, AZ 85283

Phone: (480) 752-2124
Fax: (480) 839-2193

City of Phoenix
STREET TRANSPORTATION DEPARTMENT

FLOOD CONTROL DISTRICT
RECEIVED
OCT 17 '03

CH & GM	FINANCE
PIO	PLANS
ADMIN	C & M
REG	P & PM
ENG	FLE
CONTRACTS	
ROUTING	TMM

October 6, 2003

Andrea L. Ryon, P.E., Director
Michael Baker Jr., Inc.
3601 Eisenhower Avenue
Suite 600
Alexandria, Virginia 22304-6425

Case No. 03-09-0448R
Community: City of Phoenix, AZ
Community No: 040051

316-ACK.FRQ

Dear Ms. Ryon:

RE: LETTER OF MAP REVISION (LOMR) MOON VALLEY CORPORATE CENTER, 14001 NORTH 7TH STREET, PHOENIX, ARIZONA 85022, FLOOD INSURANCE RATE MAP 04013C1655J

Please find additional information for a Letter of Map Revision (LOMR) for the Moon Valley Corporate Center. Pertinent information about the request is listed below.

ITEMS

1- Floodplain Analysis and Two-Dimensional Model Study for Moon Valley Corporate Center.
2- FEMA MT-2 Forms
   a- Overview & Concurrence Form
   b- Riverine Hydrology & Hydraulics Form
3- Exhibits
4- General Documentation and Correspondence
5- Survey Field Notes
6- Hydrologic Analysis Supporting Documentation
7- Grading & Drainage Plans for MVCC.
8- North Branch Ground Photos

Should you have further questions in this regard, please do not hesitate to contact Mr. W. Scott Ogden, P.E., JE Fuller/Hydrology & Geomorphology, Inc., 6801 South Rural Road, Suite 110, Tempe, Arizona 85283, telephone 480-752-2124 Ext.12, fax number 480-839-2193. If you have any other questions, please contact this office at (602)-262-4960.

Sincerely,

Hasan Mushtaq, Ph.D., P.E., C.F.M.
Floodplain Manager

HM/DW/aff/03-09-0448R.doc

Attachments

c: Mr. W. Scott Ogden, P. E.
Ms. Terri Miller, Executive Consultant
Mr. Tim Murphy, P.E., C.F.M.

JE FULLER
HYDROLOGY & GEOMORPHOLOGY, INC.

6101 South Rural Road, Suite 110
Tempe, AZ 85283
1-877-752-2124 (toll free)
480-752-2124 (voice)
480-839-2193 (fax)
www.jefuller.com

October 13, 2003

TRANSMITTAL

Mr. Tim Murhpy, P.E.
Flood Control District of Maricopa County
2801 West Durango
Phoenix, Arizona 85009

Attached are the following materials provided by JEFuller/ Hydrology & Geomorphology, Inc.:

- 1 copy of report titled *Floodplain Analysis and Two-Dimensional Modeling Technical Data Notebook for Moon Valley Corporate Center, Phoenix, Arizona.*

Comments:

Tim – The enclosed report is provided to you at the request of Hasan Mushtaq and Michael Cano of the City of Phoenix Floodplain Management. If you have any questions about the purpose of receiving this report, please contact them. If you have any questions regarding the content or technical aspects of the report, please do not hesitate to call me (480-752-2124 Ext. 12).

Thanks.

W. Scott Ogden

W. Scott Ogden, P.E.
JE Fuller/Hydrology & Geomorphology, Inc.

FLOOD CONTROL DISTRICT
RECEIVED
OCT 17 '03

CH & GW	FINANCE
PO	LANDS
ADMIN	C & M
RED	P & PM
ENG	FLE
CONTRACTS	
ROUTING	

cc: Michael Cano – City of Phoenix (w/out enclosures)
John Amidon – Phoenix Scottish Rite (w/out enclosures)

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ARIZONA, U.S.A.

Prepared by:

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6101 South Rural Road, Suite 110, Tempe, Arizona 85283

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Appendix C: Survey Field Notes

Appendix D: Hydrologic Analysis Supporting Documentation

- **Copy of ACDC-ADMS Hydrology Workmap**
- **Summary of HEC-1 Modeling Parameters**
- **HEC-1 Model Output**

Appendix E: Hydraulic Analysis Supporting Documentation

- **Copies of Grading and Drainage Plan for *10th Place and Redfield Road***
- **Table E-1-E – Existing Conditions Base Floodplain Grid Element Data**
- **Table E-1-P – Proposed Conditions Base Floodplain Grid Element Data**
- **Table E-2-E – Existing Conditions Channel Data**
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- **Wall Opening Rating Curves and Supporting Information**
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Appendix F: Grading and Drainage Plans for MVCC

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Plate I: **Existing Condition Flood Depth Map**

Plate II: **Proposed Condition Flood Depth Map**

Plate III: **Proposed Floodplain Delineation Map**

SECTION 1: INTRODUCTION

1.1 General

The Moon Valley Corporate Center, herein referred to as MVCC, is a proposed office condominium development of approximately five acres located within the City of Phoenix. The development of the site will include the construction of six new office condominiums and the attendant parking lot and landscape improvements.

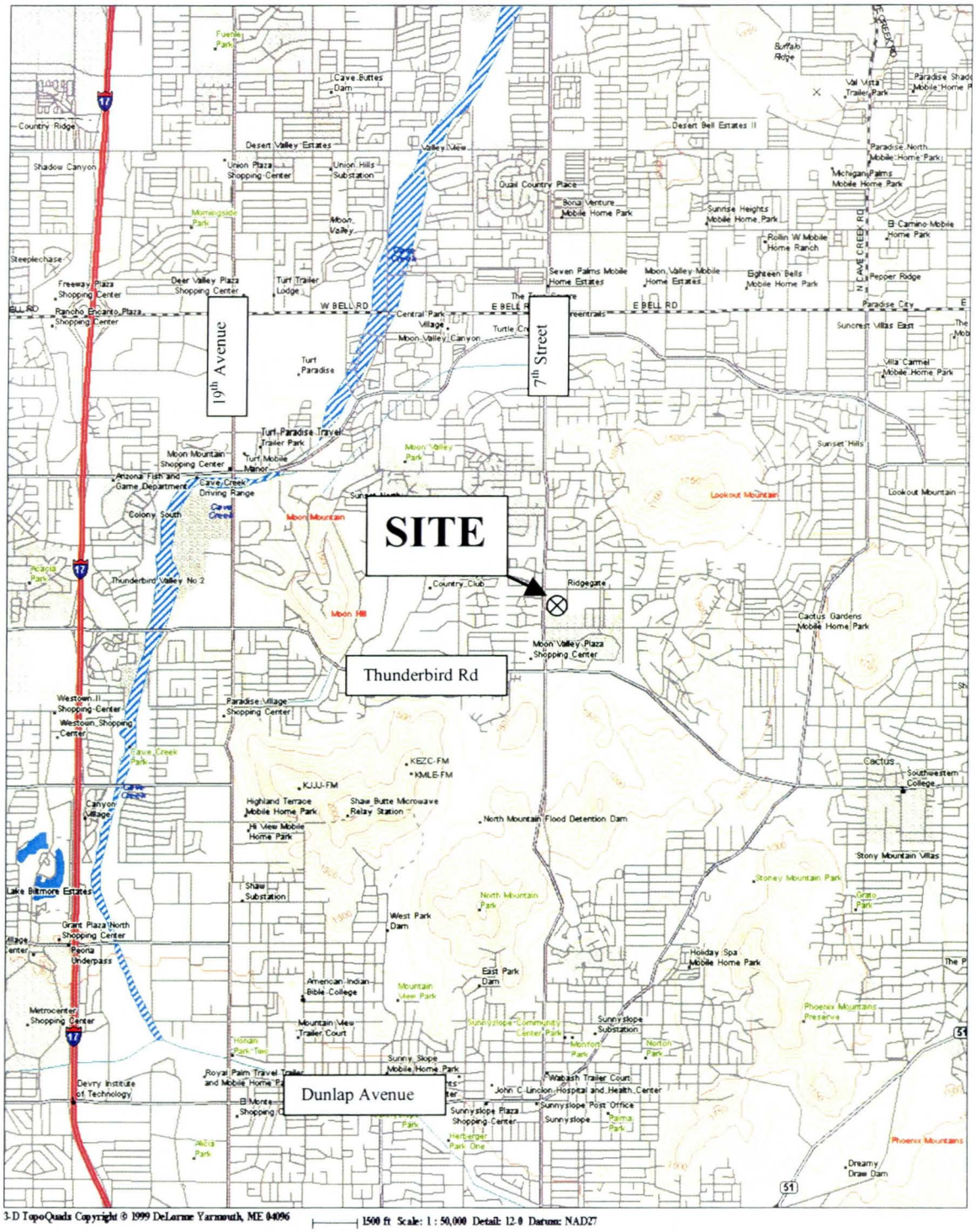
1.2 Location

The project is located in a portion of the Southeast ¼ of Section 9, Township 3 North, Range 3 East, Gila and Salt River Base and Meridian, is approximately 5 acres in size, and is located along the east side of 7th Street approximately 0.5 miles north of Thunderbird Road. The property is "L" shaped and is generally bounded on the north by a commercial plant nursery, on the east by single family development, on the south by other commercial development and a commercial storage building, and on the west by 7th Street. A vicinity map showing the location of the site is provided in Figure 1-1.

1.3 Hydrologic Setting

MVCC is located within the upper watershed of Moon Valley Wash and is situated on the middle slopes of the southern portion of the piedmont below Lookout Mountain. The land generally slopes westerly between one and three percent. The area surrounding MVCC is nearly fully developed with the majority of development being single family homes. Street patterns are typical grid with north-south, east-west orientations.

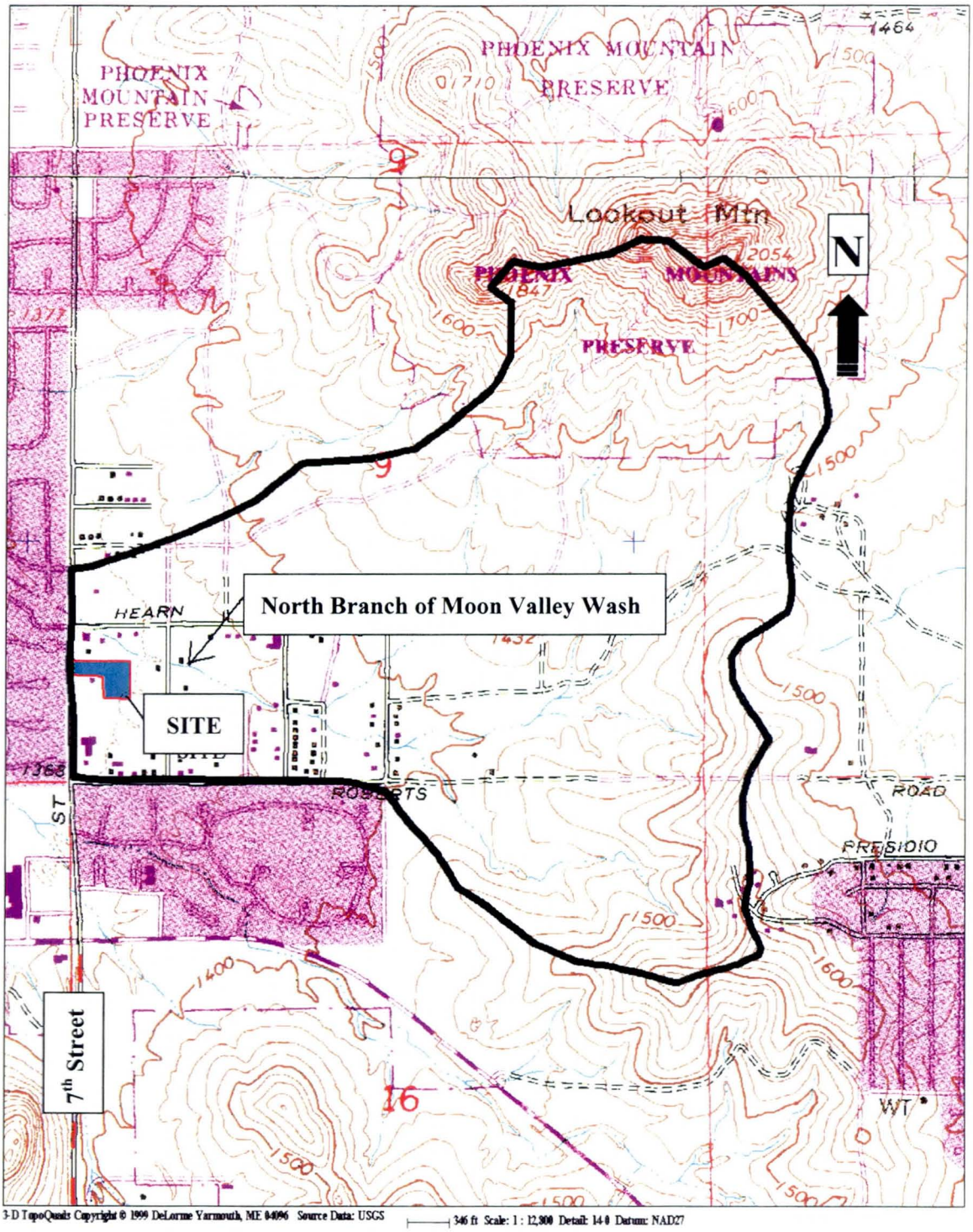
The North Branch of Moon Valley Wash, herein referred to as the North Branch, is located north of MVCC and drains west-northwesterly in the reach bounded by 7th Street and 11th Place. Figure 1-2 illustrates the location of MVCC with respect to the wash. The primary source of runoff tributary to North Branch is generated by a small valley area formed by the southern face of Lookout Mountain and the adjacent intermittent hills extending in a semicircle south and then eastward. Runoff from this area concentrates in a well defined wash that traverses through residential developments and the Point Golf Club's Lookout Mountain golf course. Collected runoff is conveyed to the mouth of the valley area at approximately the 11th Place alignment. At this location, the wash becomes less incised and significantly decreases in capacity.



3-D TopoQuads Copyright © 1999 DeLorme Yarmouth, ME 04096 — 1500 ft Scale: 1 : 50,000 Detail: 12-0 Datum: NAD27

Figure 1-1

Project Vicinity Map



3-D TopoQuads Copyright © 1999 DeLorme Yarmouth, ME 04096 Source Data: USGS 3.46 ft Scale: 1 : 12,800 Detail: 14-0 Datum: NAD27

Figure 1-2

SITE Location Map

Development along the wash from 11th Place westward has also encroached into the wash, restricting conveyance even further. Roadway crossings of North Branch between 7th Street and 11th Place are all at-grade crossings.

1.4 FEMA Flood Insurance Study Designation

A portion of MVCC is currently delineated to lie within a Zone AE flood hazard area as shown on FEMA FIRM Panel 04013C1655-H, dated July 19, 2001. Copies of the FIRMettes produced from the FEMA website, are provided in Appendix A. The current floodplains were first delineated as part of a flood insurance study (FIS) conducted by the U.S. Army Corps of Engineers (USACOE) in 1989. The base topographic mapping used by the USACOE was prepared and compiled in 1975.

1.5 Project History

The Phoenix Scottish Rite initially retained JE Fuller/ Hydrology & Geomorphology, Inc. (JEF) to conduct floodplain related analyses and pursue a Conditional Letter of Map Revision (CLOMR) from FEMA for the construction of a proposed large-box meeting facility on the subject property. Those proposed improvements included the attendant parking lot and landscaping, and a building with a basement. The presence of an existing floodplain across the site obviated the need to quantify offsite peak discharges entering the site. During the initial analyses and data review, issues pertaining to the current FIS study were raised. Those issues and concerns were later documented in a memorandum prepared by JEF [1]. The memorandum concluded that the existing FIS data and modeling were either in error or in need of significant revisions. Given the complexity of the floodplain and the potential for breakout flows that may not return to the North Branch, it was determined that the only effective way to model the floodplain would be by using a two-dimensional (2D), unsteady state hydraulic routing model. The FLO-2D model [2] was selected as the tool for modeling the floodplain and an initial existing condition analysis was performed. Those results of those analyses were summarized in a report prepared by JEF in March 2001 entitled; *Floodplain Analysis and Two-Dimensional Model Study for Phoenix Scottish Rite Property, Phoenix, Arizona* (Existing Conditions Report).

---

[1] Memorandum by JEF dated April 10, 2003 and written to Hasan Mushtaq, City of Phoenix. Copies are provided in Appendix B.

[2] The FLO-2D model was developed by Dr. Jimmy S. O'Brien of FLO-2D Software, Inc.

Since that time, Phoenix Scottish Rite has developed a new site plan for the subject property with onsite drainage facilities that are designed to intercept the offsite 100-year discharges, pass them through the site, and redistribute them back to the historic outfall locations determined by the existing conditions FLO-2D analysis. Subsequent meetings with FEMA and the City of Phoenix were also conducted and it was agreed that a re-delineation of the North Branch flood hazard upstream of 7th Street would be required to address CLOMR issues.

This report summarizes the existing and proposed condition floodplain modeling results and provides support information for the CLOMR application package.

1.6 Purpose of Report

The purpose of this technical data notebook is threefold:

1. To provide technical documentation and support for the Conditional Letter of Map Revision (CLOMR) submittal to FEMA.
2. To consolidate and replace the two predecessor reports for this project [3] with a single document that reflects the revisions to the watershed since the original analysis, the additional datum verification work, and the additional scope of the FLO-2D model.
3. Provide a drainage report that substantiates the design of onsite facilities to handle the offsite discharges associated with MVCC.

1.7 Assumptions and Limitations

The modeling results presented herein are predicated by some basic assumptions and limitations regarding the watershed conditions and modeling capabilities. Some of those include, but are not limited to the following:

- The two-dimensional model used to analyze the North Branch flooding requires the input of hydrographs. The watershed hydrology used as input to the model was derived using HEC-1 modeling performed as part of the ACDC Area Drainage Master Study (ACDC ADMS)(See Section 4). It is assumed that the ACDC ADMS

[3] *Floodplain Analysis and Two-Dimensional Model Study for Phoenix Scottish Rite Property, Phoenix, Arizona* (JEF, 2001) and *Post-Development Floodplain Analysis and Two-Dimensional Model Study for Moon Valley Corporate Center, Phoenix, Arizona* (JEF, 2003).

hydrology results adequately represent the runoff hydrograph characteristics of the watershed tributary to the FLO-2D model. Detailed hydrology modeling for the watershed was beyond the scope of work.

- The two-dimensional modeling is based on a grid, and is therefore limited in its accuracy to the grid resolution. The modeling results may not exactly reflect the hydraulic conditions at a specific point, but in general, adequately represent the hydraulic condition across the floodplain.
- No sediment transport or other moveable bed modeling techniques were employed in the modeling. It is assumed that each grid's elevation is fixed and that no significant erosion or deposition occurs that could substantially alter the grid's geometry. Sediment transport modeling was beyond the scope of work for this project.
- All elevations reported herein are subject to the mapping accuracy from which the base geometry data was compiled. Although visual field checks and inspections were performed at some locations, all locations were not field verified.
- With the exception of the proposed onsite improvements and Grid Elements 928-930, 721, 722, 765-767, 810-812, 855-857, 900-902, 945-947, 990-992, 1035-1037, 1080-1082, 1125-1127, 1170,1172, 1215-1217, the topography of the floodplain area modeled is as represented by the 1-foot topographic mapping addressed in Section 3. The background aerial photography is 2003 orthophotography obtained from the Flood Control District of Maricopa County.

SECTION 2: FEMA FORMS

The following pages contain the appropriate FEMA MT-2 forms prepared for the CLOMR analysis.

FEDERAL EMERGENCY MANAGEMENT AGENCY

OVERVIEW & CONCURRENCE FORM

O.M.B No. 3067-0148
Expires September 30, 2005

PAPERWORK BURDEN DISCLOSURE NOTICE

Public reporting burden for this form is estimated to average 1 hour per response. The burden estimate includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the needed data, and completing, reviewing, and submitting the form. You are not required to respond to this collection of information unless a valid OMB control number appears in the upper right corner of this form. Send comments regarding the accuracy of the burden estimate and any suggestions for reducing this burden to: Information Collections Management, Federal Emergency Management Agency, 500 C Street, SW, Washington DC 20472, Paperwork Reduction Project (3067-0148). Submission of the form is required to obtain or retain benefits under the National Flood Insurance Program. **Please do not send your completed survey to the above address.**

A. REQUESTED RESPONSE FROM FEMA

This request is for a (check one):

☒ CLOMR: A letter from FEMA commenting on whether a proposed project, if built as proposed, would justify a map revision, or proposed hydrology changes (See 44 CFR Ch. 1, Parts 60, 65 & 72).

☐ LOMR: A letter from FEMA officially revising the current NFIP map to show the changes to floodplains, regulatory floodway or flood elevations. (See Parts 60 & 65 of the NFIP Regulations.)

B. OVERVIEW

1. The NFIP map panel(s) affected for all impacted communities is (are):

Community No.	Community Name	State	Map No.	Panel No.	Effective Date
Ex: 480301	City of Katy	TX	480301	0005D	02/08/83
480287	Harris County	TX	48201C	0220G	09/28/90
040051	City of Phoenix	AZ	04013C	1655J	07/19/01
040051	City of Phoenx	AZ	04013C	1660G	07/19/01

2. Flooding Source: North Branch of Moon Valley Wash

3. Project Name/Identifier: Moon Valley Corporate Center

4. FEMA zone designations affected: AE (choices: A, AH, AO, A1-A30, A99, AE, AR, V, V1-V30, VE, B, C, D, X)

5. Basis for Request and Type of Revision:

a. The basis for this revision request is (check all that apply)

☒ Physical Change ☒ Improved Methodology/Data

☐ Regulatory Floodway Revision ☒ Other (Attach Description)

Note: A photograph and narrative description of the area of concern is not required, but is very helpful during review.

b. The area of revision encompasses the following types of flooding and structures (check all that apply)

Types of Flooding: ☒ Riverine ☐ Coastal ☐ Shallow Flooding (e.g., Zones AO and AH)

☐ Alluvial fan ☐ Lakes ☐ Other (Attach Description)

Structures: ☐ Channelization ☐ Levee/Floodwall ☐ Bridge/Culvert

☐ Dam ☒ Fill ☒ Other, Attach Description

C. REVIEW FEE

Has the review fee for the appropriate request category been included? ☒ Yes Fee amount: $3,200

☐ No, Attach Explanation

Please see the FEMA Web site at http://www.fema.gov/mit/tsd/frm_fees.htm **for Fee Amounts and Exemptions.**

D. SIGNATURE

All documents submitted in support of this request are correct to the best of my knowledge. I understand that any false statement may be punishable by fine or imprisonment under Title 18 of the United States Code, Section 1001.

Name: W. Scott Ogden, P.E.	Company: JE Fuller/ Hydrology & Geomorphology, Inc.	
Mailing Address: 6101 South Rural Road, Suite 110 Tempe, AZ 85283	Daytime Telephone No.: 480-752-2124 ext 12	Fax No.: 480-839-2193
	E-Mail Address: scott@jefuller.com	
Signature of Requester (required): W. Scott Ogden		Date: 09/12/03

As the community official responsible for floodplain management, I hereby acknowledge that we have received and reviewed this Letter of Map Revision (LOMR) or conditional LOMR request. Based upon the community's review, we find the completed or proposed project meets or is designed to meet all of the community floodplain management requirements, including the requirement that no fill be placed in the regulatory floodway, and that all necessary Federal, State, and local permits have been, or in the case of a conditional LOMR, will be obtained. In addition, we have determined that the land and any existing or proposed structures to be removed from the SFHA are or will be reasonably safe from flooding as defined in 44CFR 65.2(c), and that we have available upon request by FEMA, all analyses and documentation used to make this determination.

Community Official's Name and Title:		Telephone No.:
Community Name:	Community Official's Signature (required):	Date:

CERTIFICATION BY REGISTERED PROFESSIONAL ENGINEER AND/OR LAND SURVEYOR

This certification is to be signed and sealed by a licensed land surveyor, registered professional engineer, or architect authorized by law to certify elevation information. All documents submitted in support of this request are correct to the best of my knowledge. I understand that any false statement may be punishable by fine or imprisonment under Title 18 of the United States Code, Section 1001.

Certifier's Name: W. Scott Ogden, P.E.	License No.: AZ - 28857	Expiration Date: 03/31/04
Company Name: JE Fuller/ Hydrology & Geomorphology, Inc.	Telephone No.: 480-752-2124 ext. 12	Fax No.: 480-839-2193
Signature: W. Scott Ogden		Date: 9/17/03

Ensure the forms that are appropriate to your revision request are included in your submittal.

Form Name and (Number)	Required if ...
☒ Riverine Hydrology and Hydraulics Form (Form 2)	New or revised discharges or water-surface elevations
☐ Riverine Structures Form (Form 3)	Channel is modified, addition/revision of bridge/culverts, addition/revision of levee/floodwall, addition/revision of dam
☐ Coastal Analysis Form (Form 4)	New or revised coastal elevations
☐ Coastal Structures Form (Form 5)	Addition/revision of coastal structure
☐ Alluvial Fan Flooding Form (Form 6)	Flood control measures on alluvial fans

Seal (Optional)

FEDERAL EMERGENCY MANAGEMENT AGENCY

RIVERINE HYDROLOGY & HYDRAULICS FORM

O.M.B No. 3067-0148
Expires September 30, 2005

PAPERWORK REDUCTION ACT

Public reporting burden for this form is estimated to average 3 hours per response. The burden estimate includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the needed data, and completing, reviewing, and submitting the form. You are not required to respond to this collection of information unless a valid OMB control number appears in the upper right corner of this form. Send comments regarding the accuracy of the burden estimate and any suggestions for reducing this burden to: Information Collections Management, Federal Emergency Management Agency, 500 C Street, SW, Washington DC 20472, Paperwork Reduction Project (3067-0148). Submission of the form is required to obtain or retain benefits under the National Flood Insurance Program. **Please do not send your completed survey to the above address.**

Flooding Source: North Branch of Moon Valley Wash
Note: Fill out one form for each flooding source studied

A. HYDROLOGY

1. Reason for New Hydrologic Analysis (check all that apply)

☒ Not revised (skip to section 2) ☐ No existing analysis ☐ Improved data
☐ Alternative methodology ☐ Proposed Conditions (CLOMR) ☐ Changed physical condition of watershed

2. Comparison of Representative 1%-Annual-Chance Discharges

Location	Drainage Area (Sq. Mi.)	FIS (cfs)	Revised (cfs)

3. Methodology for New Hydrologic Analysis (check all that apply)

☐ Statistical Analysis of Gage Records ☐ Precipitation/Runoff Model [TR-20, HEC-1, HEC-HMS etc.]
☐ Regional Regression Equations ☐ Other (please attach description)

Please enclose all relevant models in digital format, maps, computations (including computation of parameters) and documentation to support the new analysis. The document, "Numerical Models Accepted by FEMA for NFIP Usage" lists the models accepted by FEMA. This document can be found at: http://www.fema.gov/mit/tsd/en_modl.htm.

4. Review/Approval of Analysis

If your community requires a regional, state, or federal agency to review the hydrologic analysis, please attach evidence of approval/review.

5. Impacts of Sediment Transport on Hydrology

Was sediment transport considered? ☐ Yes ☐ No If yes, then fill out Section F (Sediment Transport) of Form 3. If No, then attach your explanation for why sediment transport was not considered.

B. HYDRAULICS

1. Reach to be Revised

	Description	Cross Section	Water-Surface Elevations (ft.) Effective	Proposed/Revised
Downstream Limit	DS of Ex culvert 7th St	10310	1363.45	1363.45
Upstream Limit	US of 11th Place	12810	1387.80	1388.00

2. Hydraulic Method Used

Hydraulic Analysis FLO-2D [HEC-2 , HEC-RAS, Other (Attach description)]

B. HYDRAULICS (CONTINUED)

3. Pre-Submittal Review of Hydraulic Models

FEMA has developed two review programs, CHECK-2 and CHECK-RAS, to aid in the review of HEC-2 and HEC-RAS hydraulic models, respectively. These review programs verify that the hydraulic estimates and assumptions in the model data are in accordance with NFIP requirements, and that the data are comparable with the assumptions and limitations of HEC-2/HEC-RAS. CHECK-2 and CHECK-RAS identify areas of potential error or concern. These tools do not replace engineering judgment. CHECK-2 and CHECK-RAS can be downloaded from http://www.fema.gov/mit/tsd/frm_soft.htm. We recommend that you review your HEC-2 and HEC-RAS models with CHECK-2 and CHECK-RAS. If you disagree with a message, please attach an explanation of why the message is not valid in this case. Review of your submittal and resolution of valid modeling discrepancies will result in reduced review time.

HEC-2/HEC-RAS models reviewed with CHECK-2/CHECK-RAS? ☐ Yes ☐ No

4. Models Submitted

Duplicate Effective Model*	Natural File Name: North.out	Floodway File Name:
Corrected Effective Model*	Natural File Name:	Floodway File Name:
Existing or Pre-Project Conditions Model	Natural File Name: ExConditons	Floodway File Name: N/A
Revised or Post-Project Conditions Model	Natural File Name: PropConditions	Floodway File Name: N/A
Other - (attach description)	Natural File Name:	Floodway File Name:

*Not required for revisions to approximate 1%-annual-chance floodplains (Zone A) – for details, refer to the corresponding section of the instructions.

The document "Numerical Models Accepted by FEMA for NFIP Usage" lists the models accepted by FEMA. This document can be found at: http://www.fema.gov/mit/tsd/en_modl.htm.

C. MAPPING REQUIREMENTS

A **certified topographic map** must be submitted showing the following information (where applicable): the boundaries of the effective, existing, and proposed conditions 1%-annual-chance floodplain (for approximate Zone A revisions) or the boundaries of the 1%- and 0.2%-annual-chance floodplains and regulatory floodway (for detailed Zone AE, AO, and AH revisions); location and alignment of all cross sections with stationing control indicated; stream, road, and other alignments (e.g., dams, levees, etc.); current community easements and boundaries; boundaries of the requester's property; certification of a registered professional engineer registered in the subject State; location and description of reference marks; and the referenced vertical datum (NGVD, NAVD, etc.).

Note that the boundaries of the existing or proposed conditions floodplains and regulatory floodway to be shown on the revised FIRM and/or FBFM must tie-in with the effective floodplain and regulatory floodway boundaries. Please attach **a copy of the effective FIRM and/or FBFM,** annotated to show the boundaries of the revised 1%- and 0.2%-annual-chance floodplains and regulatory floodway that tie-in with the boundaries of the effective 1%- and 0.2%-annual-chance floodplain and regulatory floodway at the upstream and downstream limits of the area of revision.

D. COMMON REGULATORY REQUIREMENTS

1. For CLOMR requests, do Base Flood Elevations (BFEs) increase? ☒ Yes ☐ No

For CLOMR requests, if either of the following is true, please submit evidence of compliance with Section 65.12 of the NFIP regulations:
- The proposed project encroaches upon a regulatory floodway and would result in increases above 0.00 foot.
- The proposed project encroaches upon a SFHA with BFEs established and would result in increases above 1.00 foot.

2. Does the request involve the placement or proposed placement of fill? ☒ Yes ☐ No

If Yes, the community must be able to certify that the area to be removed from the special flood hazard area, to include any structures or proposed structures, meets all of the standards of the local floodplain ordinances, and is reasonably safe from flooding in accordance with the NFIP regulations set forth at 44 CFR 60.3(a)(3), 65.5(a)(4), and 65.6(a)(14). Please see the MT-2 instructions for more information.

3. For LOMR requests, is the regulatory floodway being revised? ☐ Yes ☐ No

If Yes, attach evidence of regulatory floodway revision notification. As per Paragraph 65.7(b)(1) of the NFIP Regulations, notification is required for requests involving revisions to the regulatory floodway. (Not required for revisions to approximate 1%-annual-chance floodplains [studied Zone A designation] unless a regulatory floodway is being added. Elements and examples of regulatory floodway revision notification can be found in the MT-2 Form 2 Instructions.)

4. For LOMR requests, does this request require property owner notification and acceptance of BFE increases? ☐ Yes ☐ No

If Yes, please attach proof of property owner notification and acceptance (if available). Elements of and examples of property owner notification can be found in the MT-2 Form 2 Instructions.

SECTION 3: MAPPING AND SURVEY INFORMATION

3.1 Mapping

New topographic mapping and orthophotography were obtained for an area bounded by Roberts Road on the south, Hearn Road on the north, 12th Street alignment on the east, and 7th Street on the west. One-foot contour maps, compiled to a scale of 1-inch equals 40-feet, were developed along with 0.5-foot pixel resolution orthophotography. The flight date for the new mapping was September 29, 2000. The project bench elevation is a City of Phoenix brass cap in a hand-hole located at the intersection of Roberts Road and 7th Street. The bench mark is also on NGVD 29 datum. The mapping was developed to assist in preparing the FLO-2D model that would depict the current floodplain geometry and development conditions for MVCC and North Branch, and that would be tied to the same bench elevation as current FIS Study.

Other mapping used in this study for hydrologic analyses and reference includes the following:

- January 1991 two-foot contour interval mapping compiled to a horizontal scale of one-inch equals 400-feet. That mapping was prepared for use in the ACDC Area Drainage Master Study conducted by the Flood Control District of Maricopa County.
- The Sunnyslope USGS 7.5 Minute Quadrangle, 1982.

3.2 Surveying

Control surveys were performed coincident with the mapping effort. Additionally, the culvert structure at 7th Street and Hearn Road, along with a profile of 7th Street, were field surveyed for use in the hydraulic analysis.

Upon completion of the project mapping and discovery of the potential elevation errors in the 1975 FIS mapping, additional surveying was conducted using GPS techniques to verify the correlation of the project datum to Elevation Reference Marks (ERM) published by FEMA on the corresponding FIRM panels. The results of that survey concluded that the project mapping and the FEMA ERMs were on the same datum.

Copies of the pertinent survey notes and correspondence are included in Appendix C.

SECTION 4: HYDROLOGY

4.1 General

The development of new hydrology was not included in the scope of work for this project. However, because the entire watershed is not being modeled, FLO-2D requires runoff hydrographs as input parameters for all flows entering the modeling grid network. In order to implement a FLO-2D model for this application, hydrographs at the major points of concentration along the modeling perimeter have to be developed as input parameters. The model itself will handle the rainfall/runoff process within the network grid area. Exhibit 1, included near the back of this report, indicates the limits of the FLO-2D grid network modeling area and the four points at which major flows enter the modeling network. Separate hydrographs will need to be developed at each of the four locations for input into the FLO-2D model.

At the time of this report, digital or paper copies of the hydrologic analysis or modeling performed to obtain the current FIS peak discharges were unavailable. According to the FIS Report [FEMA, 1984] and the HEC-2 data files recovered from the City of Phoenix records (which are presumably the same HEC-2 files as those used to map the current FIS floodplain), the peak discharge used for the subject reach of the North Branch is 970 cfs. However, in the sources obtained, the flow is not documented in the form of a hydrograph and also does not specifically address the runoff entering at all the points indicated on Exhibit 1. Therefore, it is necessary to perform some simplified hydrologic analyses and modeling to generate the appropriate inflow hydrographs for the FLO-2D model.

4.2 HEC-1 Modeling

4.2.1 Source HEC-1 Models

A search of the available data and archives from FEMA, the Flood Control District of Maricopa County (herein referred to as The District), and the City of Phoenix failed to produce the original hydrologic modeling used to establish the current FIS peak discharges. In the process of searching for the FIS data, it was discovered that in the early 1990's, the District had performed regional hydrologic modeling for the watershed of Moon Valley Wash in the ACDC ADMS, Phase I [KHE,1993] study. The watershed of interest to the Scottish Rite development and the North Branch is included in the ACDC ADMS modeling area.

Digital 100-year HEC-1 models prepared for the ACDC ADMS for the portion of watershed including the North Branch were obtained from the District, along with photocopies of the hydrology workmaps for the region. According to the ACDC ADMS report, the entire watershed was modeled using the methodology set forth in the Flood Control District of Maricopa County's (District) *Drainage Design Manual for Maricopa County, Volume I, Hydrology* [FCDMC, 1995], which is herein referred to as County Hydrology Manual.

4.2.2 Parameter Estimation

The HEC-1 modeling parameters for this study are either imported directly from the data supplied in the ACDC ADMS models or are newly developed using the County Hydrology Manual methodology. Summaries of the modeling parameters are provided in Appendix D.

Subbasin Delineation – The ACDC ADMS hydrologic modeling identified three major subbasins that encompass the watershed. Those subbasins are identified as Subbasins 200, 201, and 202. According to the ACDC ADMS report, Subbasins 201 and 202 were subsequently combined and are referenced in the HEC-1 modeling as Subbasin 202S. A copy of the hydrology workmap from the ACDC ADMS study, depicting each of these subbasins, is provided in Appendix D.

Exhibit 1 indicates the delineation of subbasins tributary to each of the four major inflow locations of the FLO-2D modeling. The base mapping for Exhibit 1 was developed by scanning a portion of the map in Appendix D. Subbasin flow paths and routing paths are also shown on Exhibit 1.

Precipitation – The total watershed tributary to the North Branch at 7th Street is less than one square mile. It is likely that a 100-year, 6-hour storm will develop the largest peak discharges for that size watershed, therefore, the 6-hour duration storm is selected to model the watershed. Precipitation values, area reduction, and distribution patterns were all selected using the County Hydrology Manual.

Rainfall Losses – Rainfall losses are simulated in the ACDC ADMS modeling using the Green and Ampt methodology presented in the County Hydrology Manual. For the purposes of this study, the rainfall loss parameters developed for Subbasins 200 and

202S are used without change. Each subbasin delineated by this study is assigned the same Green and Ampt values of the parent ACDC ADMS subbasin of which it is a part.

Unit Hydrographs – The unit hydrographs for this study are developed using the District's Drainage Design Menu System (DDMS). The subbasin area, flow path length and flow path slope, are all measured from Exhibit 1.

Program Version – All hydrology modeling for this study is performed using the U.S. Army Corps of Engineers HEC-1 computer program, version 4.0.1E, May 1991.

4.3 HEC-1 Modeling Results

The results of the HEC-1 modeling for each of the four locations indicated on Exhibit 1 are summarized in Table 4-1. Output from the HEC-1 model is provided in Appendix D. When compared to the current FIS discharge for the subject reach of North Branch, the peak discharge estimate for Subbasin S202A is approximately 15 percent higher (i.e. 970 cfs compared to 1,123 cfs). It is desired that the FLO-2D model inflow hydrograph at grid element 553 be comparable to the current FIS peak discharge. Accordingly, each ordinate of the hydrograph for Subbasin S202A will be multiplied by a ratio of 0.8638, which is the current FIS discharge (970 cfs) divided by the HEC-1 model discharge (1,123 cfs). The JR record in the HEC-1 model is used to provide the ratio-reduced flows for input to the FLO-2D model. The hydrographs for input to the

Table 4-1
Summary of HEC-1 modeling results

FLO-2D Grid Element	HEC-1 Model Operation	Basin Area	HEC-1 Peak Discharge		Time to Peak
			JR=1.00	JR=0.8638	
		sq. miles	cfs	cfs	hours
(1)	(2)	(3)	(4)	(5)	(6)
553	S202A	0.613	1,123	970	4.25
1227	S202B	0.008	25	22	4.00
1300	S202C	0.044	102	89	4.00
---	S201A	0.021	44	38	4.00
---	S201B	0.134	358	310	4.00
1371	C201	0.155	371	320	4.00

other locations will not be reduced and are taken directly from the HEC-1 model.

SECTION 5: TWO-DIMENSIONAL MODELING

5.1 Methodology

The complexities of development in the floodplain and the potential for flows to be diverted from the North Branch channel corridor limits the applicability of traditional floodplain models like HECRAS and HEC-2. However, two-dimensional modeling techniques can be used to evaluate the flooding conditions in this complex floodplain.

The model selected for use in this study is the FLO-2D [4] model. The constitutive equations governing the model's numerical solutions are the continuity equation and the two-dimensional equations of motion (dynamic wave equation). Depending on the modeling application and physical processes expected in the flood routing, one of two routing equations may be selected by the user. These equations, from simplest to most complex, are the diffusive wave and full dynamic wave. Because of the extreme variance in topography and presence of low points that may not physically outfall to any adjacent grid elements, the full dynamic wave solution was selected for this project.

The differential form of the governing equations used by the FLO-2D model is solved with a central, finite difference numerical integration method. The computations involve calculating the discharge across each of the eight(8) flow directions for each grid, while checking volume conservation. Selection of the incremental time-step is critical to the accuracy and numerical stability of the model computations. There are several time-step criteria that can be set by the user to facilitate efficiency in the modeling computations, however, if the tolerances and numerical stability criteria are not met, the model will automatically decrement the time step until those parameters are satisfied.

5.2 Existing Drainage Conditions

The North Branch enters the model boundary at grid element 553, and has adequate capacity at this location to convey the entire 100-year flow of 970 cfs. The main channel capacity of North Branch steadily decreases as the wash continues from east to west, and flows break-out from the main stem wash and continue via separate flow corridors to 7th Street. Seventh Street then re-collects the break-out flows and conveys them back (northerly) toward the

[4] FLO-2D model, version 2001.06 created March, 2002 and running October, 2002 updates.

North Branch mainstem. Most of the flows breaking out over the left bank are conveyed within the roadway corridors and an alley between 10th Place and 11th Street, and concentrated into the Roberts Road corridor. West of 10th Place, flows exceeding the capacity of Roberts Road spill northwesterly towards the North Branch mainstem. The overbank areas of the North Branch are mostly developed with single family residential lots. Typically, each lot will have perimeter and/or interior walls and other obstructions to flow such as parked vehicles, landscaping, and so forth. These obstructions, along with the buildings themselves, form significant obstacles to the movement of floodwater through these areas. However, they do not inhibit flood waters from entering the properties and therefore imposing a flood hazard.

There are five at-grade road crossings are four hydraulically significant structures in the North Branch that will require hydraulic modeling. The at-grade crossings are located at 11th Place, 11th Street, 10th Place, 8th Street, and Hearn Road. Three of the hydraulically significant structures are locations where a masonry wall along a property boundary spans the wash using a lintel-plate and trash racks as support. The fourth hydraulically significant structure is a 5 barrel, 50-inch by 31-inch corrugated metal pipe-arch (CMPA) culvert crossing under 7th Street.

Floodplain flows currently enter the site at three primary locations, grid elements 478, 523, and 658. The flows from grid elements 478 and 523 are currently concentrated in a small detention basin area that is partially located on the MVCC property. A berm located on the north side of the basin directs most of these flows westerly along the Arizona Public Service (APS) access road bordering the site on the south. Ultimately those flows are discharged to 7th Street. The flows from grid element 658 enter the site via open horse corrals that serve as a drainage-way from 8th Place to the MVCC eastern boundary. The majority of flows enter the MVCC property at this location. Flows entering the site are conveyed as shallow sheet flow and are discharged to the nursery property on the north and 7th Street on the south.

5.3 Proposed Drainage Conditions

Proposed conditions for this report assume that the improvements for the MVCC property are fully constructed and that there are no other modifications or changes for the rest of the FLO-2D area. The proposed improvements for MVCC are depicted on the Grading and Drainage Plans prepared by Gervasio & Associates, Inc. Copies of those plans are provided in Appendix F.

The MVCC drainage system is comprised of a combination of channels, detention basins, retaining walls, and lintel openings that are located along the perimeter of the site. Offsite and

onsite flows are collected in these areas, routed around the site, and discharged to the historic downstream locations. There are three primary retention areas located at the southeast, northeast, and northwest corners of the site. All three basins are interconnected by linear retention areas and depressed swales, which serve to intercept and direct runoff into the larger basins. The combination of basins and swales serve to both satisfy the onsite retention requirements and to route offsite flows around the site. Lintel openings in the perimeter walls are located to allow historic offsite flows to enter the site unhindered, and discharge the flows back to historic flow patterns. The interior parking lot and drive areas are graded to direct runoff to the perimeter system. Pads are set a minimum of one-foot above the 100-year flood elevations and the finished floors are elevated eight-inches above the pad grades.

5.4 Modeling Parameters

The following are brief overviews of some of the key data input aspects of the model used in this analysis.

5.4.1 Floodplain Grid Network

General – The foundation of the model is a network of square, contiguous grid elements that are used to approximate the floodplain. Each element is assigned an elevation and a roughness (Manning's n) value. The model allows flow to pass in any or all of eight (8) directions along each element. Four are comprised of the square sides and the other four are the diagonals at each corner. The grid element size is primarily dictated by the resolution required to adequately model the floodplain. The selection of the grid size is also moderated by computational speed and project budget. The smaller the grid element is, the "better" the model resolution becomes. However, the smaller grid element significantly increases both computational time and the amount of data input and manipulation. The grid resolution selected for this project is 50-feet and was based on budgetary constraints and a desire to maintain grid elements large enough to encompass a typical urban street. A total of 1,373 elements are used in the model for this project. Plates I, II, and III all indicate the grid element network, with each grid element numbered. The base mapping for each of the Plates is the project's one-foot contour mapping and 2003 orthophotography obtained from the Flood Control District of Maricopa County.

Various Manning's n values are used to approximate the surface roughness for each grid element. Table 5.1 summarizes the Manning's n values used in the model. See Tables E-1-E and E-1-P in Appendix E for a listing the values assigned to each element

Table 5.1

Summary of Manning's n values used in the FLO-2D models

Manning's n Value	Description
0.035	Generally open ground with little or minor obstructions.
0.060	Lightly developed areas with no fencing.
0.075	Moderately developed areas with buildings, fences, and obstructions typical to a single family lot in the area.
0.080	Moderately dense plant storage area within nursery.
0.100	Very dense plant storage area within nursery.

Existing Conditions – The existing condition floodplain grid network was developed using the one-foot mapping data, with one exception. A new nine-lot subdivision was constructed at the intersection of 10th Place and Redfield Road (10th&Redfield) that is not reflected in the project mapping. FEMA has recently issued a Letter of Map Revision (LOMR) for the 10th&Redfield subdivision[5]. The grid elevations for elements representing the 10th&Redfield subdivision were manually adjusted to fit the as-built grading plans for that project. Copies of those plans are provided in a pocket in Appendix E. Average n-values were assigned to all of the elements based on their land use or ground cover. The elevations for each element were also checked and adjusted as needed to better represent the natural ground surface. Table E-1-E in Appendix E summarizes the base floodplain grid element data for the existing condition model.

Proposed Conditions – The elevation and Manning's n values for certain grid elements in the existing condition *FPLAIN.DAT* were manually revised to reflect the proposed MVCC improvements Table E-1-P in Appendix E summarizes the base floodplain grid element data for the proposed condition model.

[5] FEMA LOMR (Case # 03-09-0508P) was issued May 28, 2003.

5.4.2 Channels

The program has a channel/floodplain interface subroutine that simulates the runoff as it overflows the channel and also the return of overflow to the channel as the water surface recedes. Channels are input to the model on an element by element basis and are typically lumped together on a reach by reach basis. The user has a choice of selecting either rectangular, trapezoidal, or variable area cross sections. The channel cross section is assigned to a single grid element containing a channel segment. The cross section can be even larger than a single grid element and may encompass several elements. The program converts the section to three power function formulas that describe the channel area, wetted perimeter, and top width geometries as a function of the depth. The program even allows for a two-stage approximation of natural sections where the first stage might be the main channel, and the second stage describes the floodplain. Typical data parameters would include bottom width, side slopes, channel depth below the grid element elevation, left and right bank elevations, channel length, Manning's n-value, and for natural sections, the power equation coefficients for area, wetter perimeter, and top width versus depth.

Existing Conditions – Channel cross-sections for the North Branch were obtained using AutoCAD Land Development Desktop 2i®, by cutting one cross-section for each grid element that the wash passes through, from the DTM. Those sections were then plotted and approximated by a trapezoidal section. The bottom width, left and right bank side slopes, and channel depth were each measured from the cross-section plot and coded into the model accordingly. It is important to note that the channel invert elevation for the element is set by subtracting the channel depth from floodplain elevation. Therefore, it is very critical that actual cross-sections of the wash be visually inspected to so that a correct channel depth is coded. Table E-2-E in Appendix E summarizes the general cross-section data input to FLO-2D for the North Branch. Photographs of reaches of the North Branch are included in Appendix G.

Proposed Conditions – The proposed drainage improvements for MVCC include a system of channels and retention basins that will serve to collect offsite flows along the perimeter boundaries and convey them to the historic outfall locations (see the Grading and Drainage Plans in Appendix F). A portion of this system is modeled using

the channel feature of FLO-2D. Table E-2-P in Appendix E summarizes the general cross-section data input to FLO-2D for the North Branch and the MVCC channels.

5.2.3 Streets

The program allows the user to input streets into the model to analyze the impacts they may have on the floodplain flows. Streets are assigned to a grid element and are approximated as a rectangular section x-feet wide and the curb-height deep. The program has a street/floodplain interface subroutine similar to that used for the channels, which simulates the runoff as it overflows the street and also the return of overflow to the street as the water surface recedes. The model assumes that a street segment begins at the center of the grid element and extends radially in one or all of the eight directions. Accordingly, if a major four-way intersection was located within one of the grid elements, then the model would be coded with 4 segments for that grid element. Each segment can be coded with differing widths. Parameters input to the FLO-2D model include street width, curb height, Manning's n-value, and the number of street segments in each grid element. For this project, all of the streets were coded with 32-foot widths, 0.33-foot curbs, and a Manning's n-value of 0.018. The northbound and southbound lanes of 7th Street were each coded as a single street.

5.4.4 Culverts and Bridges

The program allows for the input of culverts and/or bridges to model the backwater impacts of structures on the floodplain. Discharge versus depth, and area versus depth data for each structure are entered as rating curves. The model then converts the rating curves to power relationships based on the depth of flow. The user can enter up to two relationships for each structure.

Rating curves for the three wall openings were developed by analyzing the openings as open channel flow and as orifice flow. Open channel flow will occur until the water surface reaches the bottom of the lintel plate. At that point, the flow control will transition to a pressure flow condition controlled by the orifice opening. Haestad Methods FlowMaster® version 6.1 is used to develop the rating curve for each opening by first modeling the channel section as open channel flow for depths up to the lintel plate, then as a pressure flow through the orifice once the water surface seals the opening and begins to pond against the wall. The two data sets are then blended to generate an

overall rating curve for the opening. The resulting rating curves and output from the FlowMaster models are provided for each of the wall openings in Appendix E.

The rating curve for the 7th Street CMPA culvert is generated using the empirical relations developed by the Federal Highway Administration [USDOT,1985] in the *Hydraulic Design of Highway Culverts* (HDS No. 5), as implemented by the HY-8 computer program, version 6.0. The HY-8 output and resulting rating curve are provided in Appendix E.

5.4.5 Area Reduction and Width Reduction Factors

The FLO-2D model gives the user the ability to model buildings, fences, retaining walls, and other barriers to flow, by coding area reduction factors (ARF) and/or width reduction factors (WRF) for each grid element. The ARF is used to specify the percentage of the grid element that is "blocked" or unavailable for flood routing. The WRF can be coded to reduce the width along one to four boundaries of the grid element, and is used to simulate obstructions (i.e. – f ences, walls, buildings, and so forth) that impede flow across the grid element boundary. Table E-3-E in Appendix E summarizes the ARF and WRF values coded for the Existing Condition FLO-2D model. Table E-3-P in Appendix E summarizes the ARF and WRF values coded for the Proposed Condition FLO-2D model.

5.4.6 Estimation of Offsite Peak Discharges

The FLO-2D model output can be formatted to develop a cross-section comprised of grid elements for the purpose of estimating a composite peak discharge from that cross section. The user specifies the flow direction of interest for each desired cross-section location.

This tool is used to estimate the peak discharges entering and exiting MVCC for both the existing and proposed condition models. Discharge cross sections are also defined at various other locations in the model to assist reporting the boundary conditions of the proposed floodplain delineations. The discharges are reported in the *CROSSMAX.OUT* files provided on the data CD at the back of this report.

5.5 Special Problems / Solutions

Seventh Street Culverts – The culverts at 7th Street and Hearn Road present a FLO-2D modeling challenge because a fictitious channel had to be coded through grid elements 1264 and 1276 to provide a continuous channel system to the outfall at element 1276. In reality, the culverts at this location drain to a channel that is just downstream of element 1276; however, modeling logic dictates that the "bridges" module be used for culvert crossings of channels. The bridge module does not allow for a "bridge" (or culvert) to span more than one grid element. Therefore, it is necessary to code an artificial "channel" into grid elements 1264 and 1276, and then code identical "bridge" structures over each channel to simulate the complete culvert crossing.

Masonry Fence Modeling – Many of the fences in the modeling area are constructed of either wooden slats or four-inch interlocking masonry blocks that form 12-foot wide panels between eight-inch pilaster columns (sometimes referred to as a Dewey Fence). These fences do not have the structural integrity to withstand hydraulic loading much greater than about 1.5 feet and are not a waterproof barrier. The fences do, however, obstruct the free movement of flood flows during the flooding and can cause significant backwater conditions. In order to compensate for this, each WRF value coded to represent a non-structural fence or wall was adjusted to be approximately 10 percent less than a value that would represent a full structural wall. This will allow for some flows to pass through the wall. For example; a wall that if structural would block 100 percent of the flows in a given direction, would be coded to block 90 percent of the flows.

5.6 FLO-2D Model Results

5.6.1 Existing Condition

The existing condition maximum water surface elevations calculated for each grid element are summarized in Table E-4-E, in Appendix E. Also provide in Appendix E is a printout of the existing conditions *BASE.OUT* file. Other FLO-2D model input and output data files are provided on the data CD at the back of this TDN. Plate I provides a graphical depiction of the maximum flooding depths for the modeled area.

The North Branch channel capacity is less than the peak discharges entering from the east, forcing a significant portion of the flood flow into the overbank areas. The modeling results indicate that flows begin to split south from the North Branch between the 11th Place, 11th Street and 10th Place street crossings, with the most significant break-

out occurring between 11th Street and 10th Place. A significant portion of runoff also flows into a low area in the right (northern) overbank area between 11th Street and 10th Place.

Most of the flood flows are concentrated in the North Branch and roadway corridors. In most of the overbank and off-roadway areas, flooding depths are generally less than one-foot. Areas immediately upstream of walls or other significant barriers to flow are inundated to depths of 1.5 to 3.0 feet. Flow velocities are generally less than five feet per second, with the exception of some roadway corridors.

The peak discharges entering the site on the east and south boundaries respectively are 130.3 and 93.0 cfs. The peak discharges exiting the site on the west and northern boundaries respectively are 172.2 and 65.2 cfs. See the *CROSSMAX.OUT* file on the data CD for more detailed break-downs of peak discharges at each location. Existing condition flow depths across the site average less than 0.5 feet.

5.4.2 Proposed Condition

The proposed condition maximum water surface elevations calculated for each grid element are summarized in Table E-4-P, in Appendix E. Also provide in Appendix E is a printout of the proposed conditions *BASE.OUT* file. Other FLO-2D model input and output data files are provided on the data CD at the back of this TDN. Plate II provides a graphical depiction of the maximum flooding depths for the modeled area and Plate III presents the proposed floodplain re-delineation for the North Branch, between 7th Street and the upper limit of the existing FIS delineations. Plate III also includes base flood elevation (BFE) delineations as well as the individual grid elements' base elevations and maximum floodplain elevations.

Annotated copies of the relative portions of FIRM Panels 04013C1655 and 04013C1660 are provided in Appendix H. It should be noted that the upstream limit of the delineated floodplain is revised somewhat from what is currently shown on FIRM Panel 04013C1660. The current FIS floodplain is incorrectly registered to the actual location of the North Branch (see Plate III for more detail). The upstream limit of study location chosen by JEF is actually a confluence of two washes that drain distinctly different subbasins, and should be analyzed as such. Accordingly, the "Limit of Detailed Study" is revised to match the limits of the FLO-2D analysis.

The proposed MVCC improvements negligibly impact the flood conditions surrounding the site, and in most cases improve them. Table E-5 in Appendix E, summarizes the existing versus proposed condition maximum water surface elevations for each grid element. The areas highlighted in blue are grid elements representing the MVCC property. The green highlighted elements are the elements generally bounding the site perimeter within 100 feet. With the exception of onsite elements, the largest increase in BFE for any element within the modeling area is 0.15 feet, and most of the increases are less than 0.05 feet. These changes are well within the tolerances and acceptable limits of this analysis.

The peak discharge entering the site on the east boundary is 150.9 cfs. No flows will enter the site directly from the south, and the 8.3 cfs reported for grid element 432 is already accounted for in the number for the east boundary flows. The peak discharges exiting the site on the west and northern boundaries respectively are 187.8 and 51.0 cfs. The increase in flows being discharged to 7th Street is acceptable to the City of Phoenix. See the *CROSSMAX.OUT* file on the data CD for more detailed break-downs of peak discharges at each location.

There are several locations where 100-year flows continue beyond the proposed floodplain delineation boundaries. The flow depths downstream of these locations typically average less than 0.5 feet in depth and do not present an unusual flood hazard. The City of Phoenix has elected to manage these areas using local drainage policies and guidelines, and does not wish to delineate these as special flood hazard areas. Estimates of the 100-year discharge exiting the delineation boundary at each of those locations are indicated on Plate III.

5.7 Conclusions and Recommendations

All analyses summarized in this technical data notebook address the 100-year flood event. The FLO-2D model results indicate that a significant quantity of the North Branch flows are forced into the left and right overbanks, with some of the flows in the left overbank not returning to the main channel until they reach 7th Street. A portion of the break-out flows enter MVCC along the eastern and southern boundaries, with the majority of flows entering through the open lot with horse corrals modeled by grid element number 658.

For existing conditions, the flows are conveyed across the undeveloped MVCC parcel at shallow depths that average less than 0.5 feet and exit the site north to the nursery property and west to 7th Street. The proposed drainage improvements for the MVCC, as indicated on the Grading and Drainage plans prepared by Gervasio & Associates, Inc. (see Appendix F), will adequately accept the offsite flows approaching the site in a 100-year flood, and safely convey them to the historic discharge locations downstream. Specific proposed condition peak discharges exiting from each element along the northern and western perimeter of the site are somewhat different in magnitude and timing when compared to the existing condition model results, with more flows exiting to 7th Street and less to the nursery. The proposed condition flood depths along the perimeter of the site are nearly identical to existing conditions with a maximum increase of 0.15 feet and most less than 0.05 feet. These differences are well within the accuracy limits of the topographic mapping and hydrology and are considered acceptable.

The FLO-2D modeling results provide a better estimation of the floodplain conditions for North Branch, than the current FIS mapping. Also, the proposed floodplain delineation depicted on Plate III is a better representation of the special flood hazard areas and updates the floodplain delineations to reflect development along the subject reach of North Branch. The updated delineations and BFEs also correct the apparent bust in topographic mapping.

EXHIBITS

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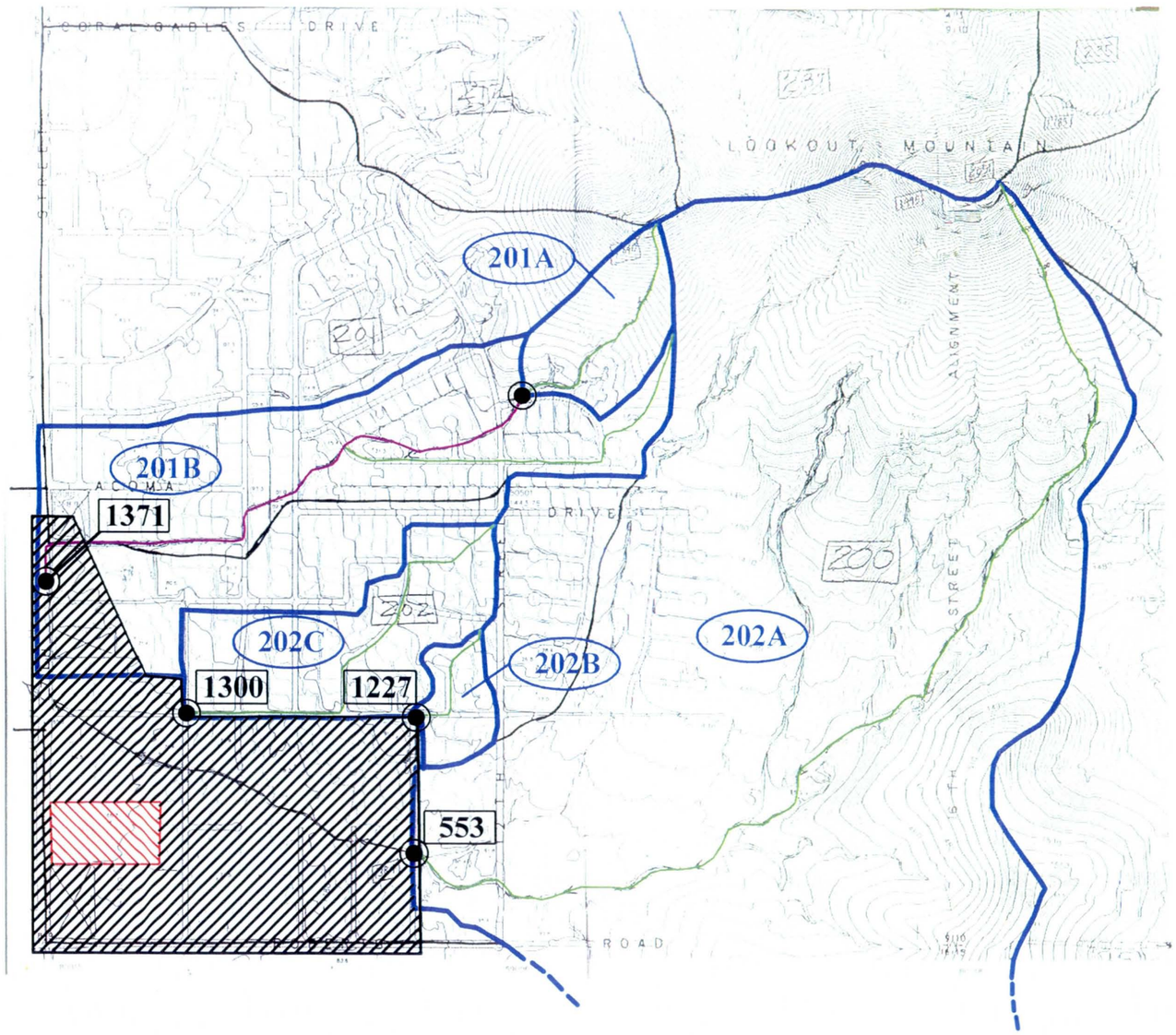

GRAPHIC SCALE

800 0 400 800 1600 3200

(IN FEET)
1 inch = 800 ft.

FLOODPLAIN ANALYSIS
AND
TWO-DIMENSIONAL MODELING
TECHNICAL DATA NOTEBOOK

FOR

MOON VALLEY CORPORATE
CENTER
PHOENIX, ARIZONA

LEGEND

- 202A — SUBBASIN ID
- SUBBASIN BOUNDARY
- TC FLOWPATH
- ROUTING FLOWPATH
- 1300 — FLO-2D GRID ELEMENT
- FLO-2D MODELING AREA
- SITE

EXHIBIT 1

SUBBASIN DELINEATION MAP FOR
FLO-2D MAJOR INFLOW LOCATIONS

JE FULLER
HYDROLOGY & GEOMORPHOLOGY, INC.

6101 S. RURAL ROAD, STE 110
TEMPE, ARIZONA 85283
480-752-2124

2881 N. SILVER SPUR DRIVE
TUCSON, ARIZONA 85745
520-623-3112

Appendix A

References

Federal Emergency Management Agency (FEMA), June 1984, *Flood Insurance Study, City of Phoenix, Maricopa County, Arizona.*

Flood Control District of Maricopa, 1995, *Drainage Design Manual for Maricopa County, Volume I, Hydrology.*

JE Fuller/ Hydrology & Geomorphology, Inc., 2001, *Floodplain Analysis and Two-Dimensional Model Study for Phoenix Scottish Rite Property, Phoenix, Arizona.*

JE Fuller/ Hydrology & Geomorphology, Inc., 2003, *Post-Development Floodplain Analysis and Two-Dimensional Model Study for Moon Valley Corporate Center, Phoenix, Arizona.*

Kaminski Hubbard Engineering, Inc., 1993, *Arizona Canal Diversion Channel Area Drainage Master Study, Phase I,* Vol. 1.7, Hydrology Report.

Obrien, Jimmy S., 1999, *FLO-2D Users Manual.*

Ponce, V.M., 1989, *Engineering Hydrology, Principles and Practices,* Prentice Hall, Inc., Upper Saddle River, New Jersey.

U.S. Army Corps of Engineers, 1990, *HEC-1 Flood Hydrograph Package User's Manual.*

U.S. Department of Transportation, Federal Highway Administration, 1985, *Hydraulic Design of Highway Culverts,* Hydraulic Design Series No. 5, FHWA-IP-85-15.

Appendix B

General Documentation and Correspondence

JE FULLER
HYDROLOGY & GEOMORPHOLOGY, INC
6101 South Rural Road, Suite 110, Tempe, Arizona 85283

JE Fuller/ Hydrology & Geomorphology, Inc.

Jon Fuller, P.E., R.G., P.H., C.F.M.	Pat Deschamps, P.E., L.S.	6101 S. Rural Rd., Suite 110
Brian Iserman, P.E.	Tamara J. Norton, E.I.T.	Tempe, Arizona 85283
John Wallace, P.E.	Brooks Dillard, B.A.	1-877-752-2124 (toll free)
Ted Lehman, P.E.	Mike Kellogg, M.S.	480-752-2124 (voice)
W. Scott Ogden, P.E.	Nick Headley, A.A.S.	480-839-2193 (fax)
Jeffrey A. Despain, P.E.	Annette Griffin, A.A.S.	www.jefuller.com

July 29, 2003

Mr. Irwan Razak
Michael Baker Jr., Inc.
3601 Eisenhower Avenue
Alexandria, Virginia 22304-6425

RE: Moon Valley Corporate Center
FEMA Case No. 03-09-0448R

Dear Mr. Razak:

On behalf of our client, Phoenix Scottish Rite, we would like to officially request an extension of this case per our phone conversation on July 28, 2003. The project has been delayed due to development issues, unforeseen physical changes that have occurred in the delineation reach, and the result of necessary revisions to the hydraulic analyses. In particular, a recently approved LOMR for the subject reach of wash was only recently brought to our attention by the City of Phoenix. Our modeling and re-delineation will extend through that subdivision, so we had to incorporate the physical changes to properly depict the "existing conditions."

We intend to submit a full CLOMR package as requested by the letter from your office dated February 19, 2003 and anticipate a submittal date of late August or early September, 2003.

If there are any questions regarding this extension request, please do not hesitate to contact me at the number above (Extension 12) or by email using scott@jefuller.com. Thank you for your attention to this matter.

Sincerely,
JE Fuller/Hydrology & Geomorphology, Inc.

W. Scott Ogden

W. Scott Ogden, P.E.
Project Manager

cc: Dr. Hasan Mushtaq – City of Phoenix
Mr. John Amidon – Phoenix Scottish Rite

Memorandum **JE Fuller/ Hydrology & Geomorphology, Inc.**

DATE: April 10, 2003

TO: Hasan Mushtaq, Ph.D., P.E.
City of Phoenix
Street Transportation Department
200 West Washington Street, 5th Floor
Phoenix, Arizona 85003-1611

FROM: W. Scott Ogden, P.E.

RE: Moon Valley Corporate Center CLOMR
North Branch of Moon Valley Wash

CC: John Amidon (Phoenix Scottish Rite)
file

Registered Professional Engineer (Civil) CERTIFICATE NO. 28857 W. SCOTT OGDEN Date Signed 4/10/03 ARIZONA, U.S.A.

At your request, we are providing the following memorandum to summarize review comments and concerns expressed by JE Fuller/ Hydrology & Geomorphology, Inc. (JEF) regarding the current FEMA FIS delineation of the North Branch of Moon Valley Wash (herein referred to as the North Branch). These comments specifically address the reach of North Branch that extends east of the 7th Street culvert crossing to the upstream limit. Our review does not include the portions of North Branch downstream of 7th Street. All of these comments are the result of detailed floodplain engineering and analyses work that was performed by JEF in conjunction with the development of a five acre parcel located along the east side of 7th Street approximately 600 feet south of Hearn Road. The parcel is currently owned by the Phoenix Scottish Rite and is situated in the left overbank fringe of the North Branch floodplain. The Phoenix Scottish Rite is proposing to develop the site as an office condominium complex under the name of Moon Valley Corporate Center (MVCC). These comments summarize several significant errors or discrepancies discovered by JEF that pertain to the current FIS modeling, delineation, and mapping of the subject reach of North Branch.

Base Mapping and Topography

In August 2000, JEF was retained by the Phoenix Scottish Rite to assist them in pursuing a CLOMR for the development of their property. Part of the drainage design process included obtaining new one-foot contour interval topographic mapping for the site and the North Branch study area. The intent was to use the mapping for pursuing a CLOMR for the site. A mapping contractor was retained and the site was flown in September 2000. Topographic mapping with one-foot contour intervals was prepared using aerial photogrammetry and 0.5 foot pixel digital orthophotos were also provided. The current FIS delineations are derived from work-study maps that are based on 1975 vintage two-foot contour interval mapping. The 2000 mapping is tied to City of Phoenix datum, and both the 1975 and 2000 mapping are reportedly on NGVD 29. When we first received the mapping, we noted that the ground elevations appeared to be approximately one to two feet higher than those shown on the current FIS work-study maps. We also noted that the Scottish Rite Property (now Moon Valley Corporate Center) elevations were

approximately 1-foot higher than the base flood elevations (BFE) shown on the FEMA FIRM panel[1]. In an attempt to resolve the apparent datum difference, a level loop survey was performed[2] between the FEMA elevation reference mark (ERM) #960 and a City of Phoenix brass cap in a hand-hole (BCHH) located at the intersection of Roberts Road and 7th Street[3]. The results of that survey indicated that the 2000 mapping datum was approximately 0.36 feet lower than the FEMA datum. It should be noted that the level loop survey notes provided to JEF were not the actual field notes and were not sealed by an Arizona R.L.S. or P.E. They also contained several minor mathematic mistakes and had several handwritten numbers that were difficult to discern. Accordingly, the applicability of that survey data is questionable. It doe indicate, however, that the project mapping is relatively close to the FEMA datum and somewhat substantiates the elevations differences noted.

During our discussions of the mapping issues, you requested that JEF tie into at least two of the FIRM Panel ERMs to officially verify that the 2000 mapping was equal to FEMA NGVD 29 datum. In response, JEF contracted with another surveyor to re-survey ERM #960 as well as the other two ERMs shown on the FIRM panel, and tie them back to the project mapping datum. The second survey[4] was performed using GPS equipment and the results are certified by an Arizona R.L.S. to be within plus or minus 0.10 foot accuracy. All three reference marks indicated on the FEMA FIRM panel were surveyed along with the BCHH at Roberts and 7th Street (project datum) and six other City of Phoenix monuments. The GPS survey was conducted using datum elevations provided by the City of Phoenix. The results of that survey indicate that the City of Phoenix datum elevations acquired at ERM #959, #960, and #1124 are all within 0.10 feet of elevations published on the FEMA FIRM panel. The survey results also indicate that the project datum for the 2000 mapping is nearly equal to the City of Phoenix datum, which makes it within 0.10 feet of the published FEMA datum.

In conclusion, the accuracy represented by the GPS survey is sufficient to safely assert that the 2000 mapping datum is equal to FEMA datum. This also implies that the 1975 base mapping elevations are in error by an average of one foot or more, with the 1975 mapping being lower than the FEMA datum. This elevation inaccuracy could mean that the FEMA published BFE data are also too low by at least one foot or more. It is unknown as to how far downstream this mapping discrepancy may extend.

For your reference, I am providing herewith copies of two maps exhibiting the effect of the datum differences. The first is a plot of a scanned image of the FIS work-study map digitally overlain with the 2000 topographic mapping. The scanned work-study map depicts the 1975 topography, HEC-2 cross section plan locations, and the floodplain

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[1] FEMA FIRM Panel No. 04013C1655-J, dated July 19, 2001

[2] Survey was performed by Gervasio & Associates, Inc under contract to the Phoenix Scottish Rite. The un-sealed survey results were provided to JEF via a letter dated August 11, 2000 signed by Paul Tschiderer.

[3] BCHH is also included as a control point in the 2000 mapping control

[4] Tri-Core Engineering, Inc., April 1, 2003 GPS survey using RTK and 3 minute observation times

delineation boundaries. The plot also shows the location of the proposed MVCC improvements. The second is a comparative plot of the effective FIS HEC-2 GR data and cross sections along the same alignments cut from a digital terrain model developed from the 2000 topographic mapping data.

Effective FIS Hydrology

The Effective FIS Q100 for the subject reach of the North Branch is 970 cfs and the tributary watershed area is approximately 0.7 square miles. The current FIS hydrology is dated and in our opinion, should be updated to reflect development in the watershed and the significant changes that have occurred in the last 15 years. The extent of the change to the FIS 100-year peak discharge is unknown at this time.

Effective FIS HEC-2 Model

The effective FIS delineations for the North Branch are based on a 1989 HEC-2 model developed by the U.S. Army Corps of Engineers. The cross section data for that model were obtained using the 1975 topographic mapping as a base map. The North Branch is hydraulically complex throughout its length and especially in the reach upstream of the 7th Street culvert. The main channel is well defined, but relatively small and heavily vegetated with a bankfull capacity range of about 200-400 cfs. The overbanks have been heavily encroached upon by development and there is a significant potential for breakout flows in the left overbank to not return to the North Branch until they are intercepted at 7th Street and conveyed back to the culverts. Examination of historic aerial photographs clearly indicates evidence of the breakouts to the south (left overbank). Those photographs also demonstrate that the left overbank flow paths are separate from the main channel until they are captured at 7th Street. The North Branch floodplain is further complicated by fences, walls, buildings, and streets that all impact the drainage patterns. It is our opinion that the flooding patterns are clearly too complex to be adequately modeled using one-dimensional programs without significant assumptions and judgment.

Our review of the effective HEC-2 modeling resulted in the following comments and concerns. Please see the maps provided for location and identification of the cross sections referenced:

1. *Cross Section Orientation* – the orientation of cross sections 10553, 10800, 11140, and 11415, are not perpendicular to the primary watercourse and errantly depict a cross section that artificially "contains" the runoff.
2. *Left Overbank Continuity and Island Modeling* – the current FIS delineation clearly depicts an island of divided flow that begins at cross section 12000 and ends at cross section 10553. According to the mapping, there is no other connection of the left overbank flows to the main channel anywhere in between. Table 1 summarizes the 100-year discharges reported by the Effective HEC-2 model for the left and right overbanks and channel, between the two sections bounding the island split. At cross sections 12000 and 11810, most of the 100-year discharge is reported to be in the left overbank. In the next downstream cross section, the left overbank flow is reduced by nearly 590 cfs. The mapping, however, clearly depicts a "dry" island separating the

left overbank from the main channel. Proceeding downstream, the left overbank flows continue to be reduced.

In our opinion, this modeling is incorrect and does not adequately depict the flooding potential. First, if a majority of the flows at cross sections 11810 and 12000 are in the left overbank and a "dry island" is suspected to separate the overbank and main channel flows, then each branch of the split should be analyzed as separate reaches by doing an energy balance trial and error solution. Otherwise, the overbank discharges should be continuous with little change until the flows merge back with the main channel. The problem in this reach is that once flows get out into the left overbank, they do not return to the main channel until they are intercepted by 7th Street. Modeling this with HEC-2 or HEC-RAS is extremely difficult and requires a great deal of assumptions and engineering judgment. This is especially true given the density of development in the left overbank.

Table 1

Summary of Effective FIS HEC-2 Flow Distribution

Cross Section ID	Left OB cfs	Channel cfs	Right OB cfs
12000	564	380	26
11810	858	112	0
11415	274	574	122
11140	125	392	453
10800	47	426	497
10553	93	420	457

Floodplain Recommendations

It is our recommendation that the North Branch floodplain should be re-studied and re-delineated. In particular, the reach east of the 7th Street culvert should be re-analyzed to better account for the left overbank flows. The base flood elevations should also be adjusted in the reach to account for the topographic mapping discrepancy. As you know, we have developed a FLO-2D model of the North Branch for both the existing and proposed MVCC conditions. I believe the model results could be used to re-delineate the floodplain for the reach east of 7th Street since a hydraulic control is established by the 7th Street culverts and 7th Street itself. The model will also provide discharges that could be used to continue the re-delineation downstream if desired.

Our client (Phoenix Scottish Rite) is anxious to see this floodplain issue resolved and to the point where they can continue forward with their project. They are willing to work with the City to accomplish that end. They have already provided complete mapping that could be used for the re-study and paid for comprehensive existing and post-developed condition FLO-2D modeling. Those resources are available to the City upon request. JEF is also available to assist the City in any way we can, and we would be happy to present these findings jointly with the City to FEMA.

NATIONAL FLOOD INSURANCE PROGRAM
FEMA MAP COORDINATION CONTRACTOR

February 19, 2003

Hasan Mushtaq, Ph.D., P.E., C.F.M.
Floodplain Manager
Street Transportation Department
City of Phoenix
200 West Washington Street, Fifth Floor
Phoenix, AZ 85003-1611

IN REPLY REFER TO:
Case No.: 03-09-0448R
Community: City of Phoenix, AZ
Community No.: 040051

316-ACK.FRQ

Dear Dr. Mushtaq:

This responds to your request dated January 23, 2003, that the Federal Emergency Management Agency (FEMA) issue a conditional revision to the Flood Insurance Rate Map (FIRM) for Maricopa County, Arizona and Incorporated Areas. Pertinent information about the request is listed below.

Identifier:	Moon Valley Corporate Center
Flooding Source:	Moon Valley Wash
FIRM Panel(s) Affected:	04013C1655 J

Effective September 1, 2002, FEMA revised the fee schedule for reviewing and processing requests for conditional and final modifications to published flood information and maps. A copy of the notice summarizing the current fee schedule, which was published in the *Federal Register*, is enclosed for your information. In accordance with this schedule, the fee for your request is $4,000. The amount you submitted, $800, is not sufficient. The balance, $3,200, must be submitted before we can continue processing your request. Payment of this fee must be made in the form of a check or money order, payable in U.S. funds to the National Flood Insurance Program (NFIP), or a credit card payment. For identification purposes, the case number referenced above must be included on the check or money order. We will not perform a detailed technical review of your request until we receive this payment.

Payment must be forwarded to one of the addresses listed below.

Using U.S. Postal Service:
Federal Emergency Management Agency
Fee-Charge System Administrator
P.O. Box 3173
Merrifield, VA 22116-3173

Using overnight service:
FEMA Fee-Charge System Administrator
c/o Dewberry & Davis
METS Division, Stop 19A
8401 Arlington Boulevard
Fairfax, VA 22031

We have completed an inventory of the items that you submitted. The items identified below are required before we can begin a detailed review of your request.

1. The following application/certification forms (copies enclosed), which were omitted from your previous submittal, must be provided:

   a. Form 1, entitled "Overview & Concurrence Form"
   b. Form 2, entitled "Riverine Hydrology & Hydraulics Form"

2. Please submit a work map, certified by a registered professional engineer, that shows the revised floodplain boundary delineations of the flood having a 1-percent chance of being equaled or exceeded in any given year (base flood) and how they tie into the base floodplain boundary delineations shown on the effective FIRM at the upstream and downstream ends of the revised reach.

All required items (except the fee balance) are to be submitted to us at the address shown at the bottom of the first page. If all required items are not submitted within 90 days of the date of this letter, we will treat any subsequent request as an original submittal, and it will be subject to all submittal/payment procedures.

If you are unable to meet the 90-day deadline for submittal of required items, and would like FEMA to continue processing your request, you must request an extension of the deadline. This request must be submitted to us in writing and must provide (1) the reason why the data cannot be submitted within the requested timeframe, and (2) a new date for the submittal of the data. FEMA receives a very large volume of requests and cannot maintain inactive requests for an indefinite period of time. Therefore, the fees will be forfeited for any request for which neither the requested data nor a written extension request is received within 90 days.

When you write us about your request, please include the case number referenced above in your letter.

If you have general questions about your request, FEMA policy, or the NFIP, please call the FEMA Map Assistance Center, toll free, at 1-877-FEMA MAP (1-877-336-2627). If you have specific questions concerning your request, please call the Revisions Coordinator for your State, Pernille Buch-Pedersen, who may be reached at (703) 317-6224.

Sincerely,

Andrea L. Ryon

Andrea L. Ryon, P.E., Director
Engineering Division
Michael Baker Jr., Inc.

Enclosures

cc: Ms. Shanna Yager
Flood Control District of Maricopa County

Ms. Terri Miller
Executive Consultant
Mitigation Section
Arizona Division of Emergency
Management

City of Phoenix
STREET TRANSPORTATION DEPARTMENT

January 23, 2003

Michael Baker Jr., Inc.
3601 Eisenhower Avenue
Suite 600
Alexandria, Virginia 22304-6425

Community: City of Phoenix, AZ
Community No: 040051

Gentlemen:

RE: CONDITIONAL LETTER OF MAP REVISION BASED ON FILL (CLOMR-F) FOR MOON VALLEY CORPORATE CENTER, 14001 NORTH 7TH STREET, PHOENIX, ARIZONA 85022, FLOOD INSURANCE RATE MAP 04013C1660G

Enclosed is the information for a Conditional Letter of Map Revision (CLOMR-F) for the Moon Valley Corporate Center. Pertinent information about the request is listed below. .

ITEMS

1- Check in the amount of $800
2- Floodplain Analysis and Two-Dimensional Model Study for Phoenix Scottish Rite Property, Phoenix, Arizona dated March 2001.
3- Post-Development Floodplain Analysis and Two-Dimensional Model Study for Moon Valley Corporate Center, Phoenix, Arizona, dated January 2003.
4- Property Information Form
5- Elevation Form
6- Community Acknowledgement Form
7- Exhibit A, FEMA 100-yr. SFHA Map
8- Copy of the Flood Insurance Rate Map 04013C1655J
9- Preliminary Grading and Drainage Plans

Should you have further questions in this regard, please do not hesitate to contact Mr. W. Scott Ogden, P. E., JE Fuller/Hydrology & Geomorphology, Inc., 6801 South Rural Road, Suite 110, Tempe, Arizona 85283, telephone 480-752-2124 Ext.12, fax number 480-839-2193. If you have any other questions, please contact this office at (602)-262-4960.

Sincerely,

Hasan Mushtaq, Ph.D., P.E., C.F.M.
Floodplain Manager

Attachments

c: Mr. Ogden, P. E., JE Fuller/Hydrology & Geomorphology, Inc.

200 West Washington Street, Fifth Floor, Phoenix, Arizona 85003 1611 602-262-6284 FAX: 602-495-2016
Recycled Paper

JE Fuller/ Hydrology & Geomorphology, Inc.

Jon Fuller, P.E., P.H., C.F.M.	Pat Deschamps, P.E., L.S.	6101 S. Rural Rd., Suite 110
Brian Iserman, P.E.	Tamara J. Norton, E.I.T.	Tempe, Arizona 85283
John Wallace, P.E.	Brooks Dillard, B.A.	480-752-2124 (voice)
Ted Lehman, P.E.	Mike Kellogg, M.S.	480-839-2193 (fax)
W. Scott Ogden, P.E.	Nick Headley	www.jefuller.com
Jeff Despain, P.E.	Annette Griffin, A.A.S.	

January 10, 2003

Hasan Mushtaq, Ph.D., P.E.
City of Phoenix
Street Transportation Department
Floodplain Management
200 West Washington Street, 5th Floor
Phoenix, Arizona 85003-1611

RE: Moon Valley Corporate Center
CLOMR-F Application Package

Dear Dr. Mushtaq:

Per our previous discussions, please fine enclosed herewith, the following items that comprise our CLOMR-F application package:

- *Floodplain Analysis and Two-Dimensional Model Study for Phoenix Scottish Rite Property, Phoenix, Arizona*, dated March 2001.
- *Post-Development Floodplain Analysis and Two-Dimensional Model Study for Moon Valley Corporate Center, Phoenix, Arizona*, dated January, 2003.
- Fully completed FEMA MT-1, Forms 1 and 2
- Partially completed FEMA MT-1, Form 3
- Exhibit A to accompany MT-1 Form 2
- Copy of the recorded Plat Map for the subject parcel
- Annotated copy of FEMA FIRM Panel No. 04013C1655-J
- Half-sized set of the Preliminary Grading and Drainage Plans from Gervasio & Associates, Inc.

Our intent is to ultimately pursue a Letter of Map Revision based on Fill. The two reports provided demonstrate the existing and post-developed conditions for the North Branch of Moon Valley Wash floodplain. The post-development analyses documented in the January 2003 report, demonstrates that the drainage system proposed by the Moon Valley Corporate Center will not adversely impact the existing conditions drainage, and that all buildings within the MVCC are protected from flooding.

I am forwarding 2 duplicate packages for your review and comment. Should you find the package acceptable, please complete the City's portion of MT-1, Form 3 and forward the appropriate portions of the package to FEMA. Alternately, you can complete Form 3 and return it to me, and I will forward the information to FEMA. I will send the review fee to FEMA under separate cover, once I know the application package is forwarded to FEMA.

If questions arise during your review, please do not hesitate to contact me. I will be out of town beginning January 14th and will be back in the office on January 20th. I would also be happy to come down to your office and review the modeling results with you as well. I look forward to hearing from you soon.

Sincerely,

JE Fuller/Hydrology & Geomorphology, Inc.

W. Scott Ogden

W. Scott Ogden, P.E.
Project Manager

Enclosures

cc: John Amidon, Phoenix Scottish Rite

Appendix C

Survey Field Notes

TRI-CORE
ENGINEERING

Civil Engineering
Flood Control
Transportation
Water / Wastewater
Land Development
Construction Administration
Surveying
GPS/Conventional

April 1, 2003

Job Number 5115.0001

Mr. Scott Ogden, PE
JE Fuller/Hydrology & Geomorphology, Inc.
6101 South Rural Road, Suite 110
Tempe, AZ 85283

RE: FEMA ELEVATION CHECKS – 7TH STREET & ROBERTS ROAD PROJECT

Dear Scott;

Attached are the results of our GPS elevation check to the requested FEMA Reference Marks RM 959, RM 960 and RM 1124. For calculation purposes we used five of the nine City of Phoenix benchmarks that were located. We have related the City of Phoenix datum to your Project Bench on the brass disc at that intersection described.

The equipment used was a Trimble 4800 GPS unit and using RTK with a three minute observation times and our results are within 0.10 ft. of the published Reference Marks that you requested to be checked and that the accuracy of our data is within 0.10 ft. plus or minus.

Sincerely,
TRI-CORE ENGINEERING

Thomas J. Brown, R.L.S.
Survey Manager

REGISTERED LAND SURVEYOR
CERTIFICATE NO.
37173
THOMAS J.
BROWN
Date Signed 4-01-03
ARIZONA, U.S.A.

2255 N. 44th Street, Suite 255 • Phoenix, AZ 85008 Telephone (602) 681-9272 • Fax (602) 681-9339

Points

Project : Je fuller

User name	DaveB	**Date & Time**	4:25:10 PM 3/31/03
Coordinate System	Default	**Zone**	Default
Project Datum	WGS 1984		
Vertical Datum	City of Phoenix	**Geoid Model**	Not selected
Coordinate Units	International feet		
Distance Units	International feet		
Height Units	International feet		

Point listing

Name	Northing	Easting	Elevation		Feature Code	
10	10000.000	10000.000	1532.354		BASE	
11	9940.886	6806.509	1316.929		BCHH	
12	7220.500	4405.836	1298.920		BCF	
13	4598.192	2967.341	1282.908		BCF	
14	7300.602	6814.572	1301.769	+0.10	BCHH	19TH AVE & T. BIRD
15	6005.725	11156.508	1321.742		BCF	
16	6026.752	14466.708	1347.169	~~+0.03~~ -0.03	BCF	CENTRAL & T. BIRD
17	6035.372	17314.809	1378.517		BCHH	
18	7352.419	17237.699	1368.349		BCHH	PROJECT BENCH
19	17862.908	6797.979	1353.422	-0.05	BCHH	19TH AVE & BELL
20	-3302.206	-3687.509	1240.466	-0.05	BCHH	35TH AVE & PEORIA
21	7199.824	-3586.645	1271.791	+0.02	BCHH	35TH AVE & T. BIRD
14a	7300.602	6814.572	1301.667		cop datum	
16a	6026.752	14466.708	1347.201		cop datum	
19a	17862.908	6797.979	1353.470		cop datum	
20a	-3302.206	-3687.509	1240.510		cop datum	
21a	7199.824	-3586.645	1271.770		cop datum	

REGISTERED LAND SURVEYOR
CERTIFICATE NO.
37173
THOMAS J.
BROWN
Date Signed 4-01-03
ARIZONA, U.S.A.

Thomas J Brown

Back to top

(18) BCHH @ 7th St & Roberts – C.O.P. DATUM 1368.35
PROJECT DATUM 1368.32

(11) BCHH 19th Ave Acoma Dr West – C.O.P. DATUM 1316.93
FEMA RM 1124 NGVD '29 1316.88

(12) BCF Bridge on T-Bird over Cave Creek C.O.P. DATUM 1298.92
FEMA RM 960 NGVD '29 1298.82

(13) BCF Sweetwater & 25th Ave C.O.P. DATUM 1282.91
FEMA RM 959 NGVD '29 1282.83

1	951033.149	457474.703	1400.501	START
100	951240.600	457961.130	1412.120	PK HEARN & 12TH
101	951098.455	454887.867	1364.886	PK 7TH&E.PIPING
105	947680.245	458151.374	1421.601	BC THUND&POINT G
106	947765.624	455012.506	1388.562	PK 7TH ST
200	951281.591	454985.318	1361.351	PIPE
201	951287.796	454985.237	1361.332	PIPE
202	951294.305	454985.212	1361.368	PIPE
203	951300.811	454985.172	1361.344	PIPE
204	951306.683	454985.227	1361.296	PIPE
205	951272.965	454992.599	1366.916	WING WALL
206	951273.817	454984.645	1366.995	WING WALL
207	951312.116	454984.921	1366.836	WING WALL
208	951312.144	454992.827	1366.696	WING WALL
209	951374.655	454872.561	1365.864	WING WALL
210	951370.514	454891.612	1365.825	WING WALL
211	951331.212	454891.299	1365.777	WING WALL
212	951330.918	454889.493	1365.779	WING WALL
213	951337.081	454890.787	1360.811	PIPE
214	951343.674	454890.835	1360.867	PIPE
215	951350.404	454890.835	1360.655	PIPE
216	951356.605	454890.888	1360.801	PIPE
217	951363.994	454890.894	1360.831	PIPE
218	951377.272	454940.782	1365.645	CROWN 7TH ST
219	951330.003	454940.705	1365.746	CROWN 7TH ST
220	951284.808	454940.511	1365.803	CROWN 7TH ST
221	951233.640	454937.419	1365.338	CROWN 7TH ST
222	951233.340	454990.509	1364.770	CROWN HEARN
223	951233.805	455026.070	1364.444	CROWN HEARN
224	951233.864	455088.763	1363.625	CROWN HEARN
225	951233.808	455118.746	1363.241	CROWN HEARN
226	951233.930	455133.239	1363.528	CROWN HEARN
227	951234.742	455224.282	1365.249	CROWN HEARN
228	951114.316	455286.160	1364.372	OPENING
229	951110.697	455286.246	1363.836	OPENING
230	951104.931	455286.417	1364.121	OPENING
231	951094.561	455286.228	1364.550	OPENING
232	950750.709	455754.175	1372.021	CROWN 8TH PL
233	950786.640	455754.169	1371.299	CROWN 8TH PL
234	950839.972	455754.044	1369.781	CROWN 8TH PL
235	950898.202	455754.098	1369.024	CROWN 8TH PL
236	950910.272	455754.099	1368.867	CROWN 8TH PL
237	950918.696	455754.225	1368.959	CROWN 8TH PL
238	950970.752	455754.325	1369.634	CROWN 8TH PL
239	951037.592	455754.209	1371.662	CROWN 8TH PL
240	950618.626	456413.047	1377.400	10TH PL
241	950649.285	456413.512	1375.688	10TH PL
242	950659.684	456413.154	1375.491	10TH PL
243	950670.064	456413.316	1375.455	10TH PL
244	950680.089	456413.290	1375.559	10TH PL
245	950725.497	456413.741	1377.433	10TH PL
246	950758.398	456413.787	1378.415	10TH PL

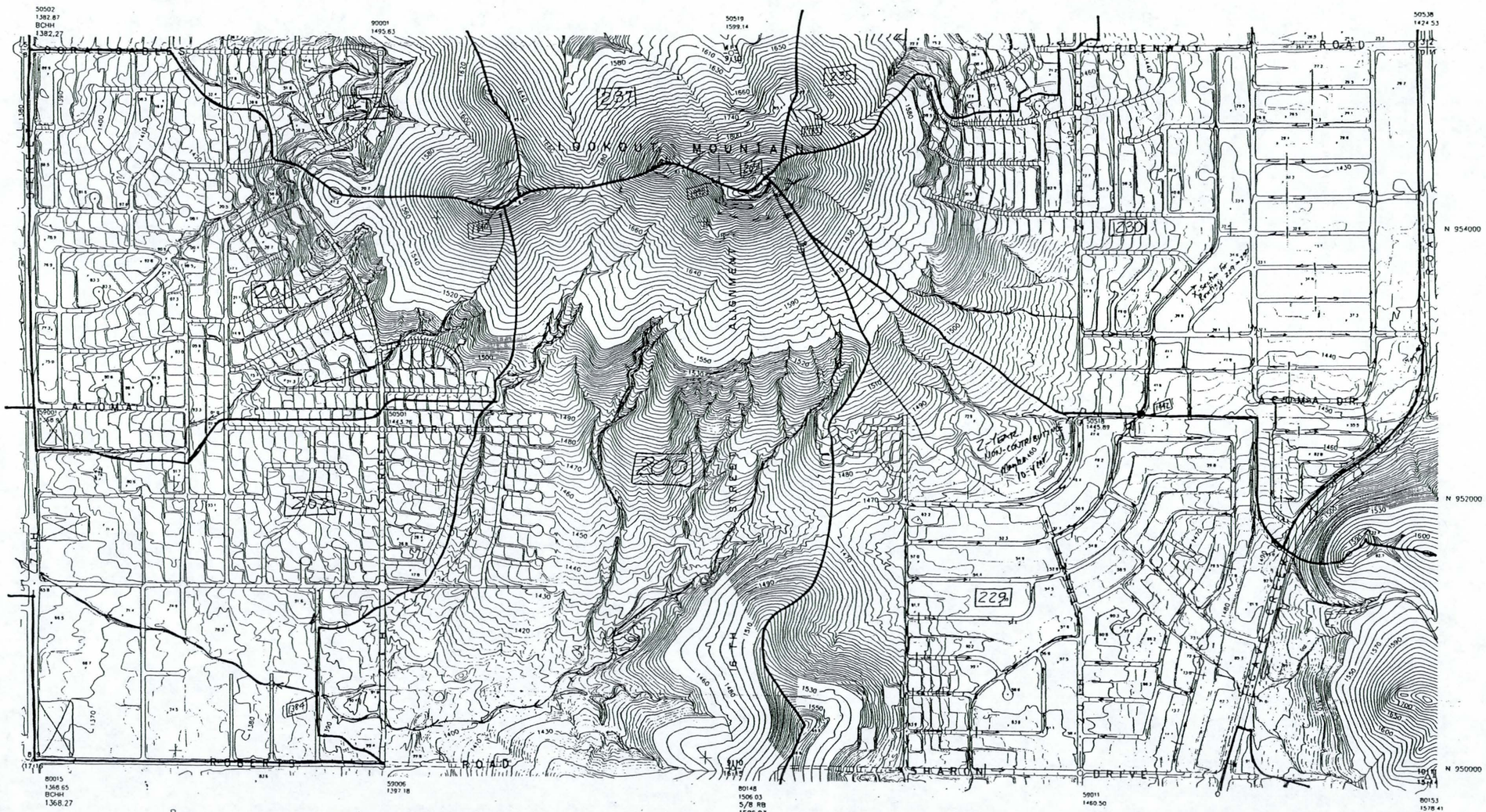
247	950806.697	456413.580	1379.048	10TH PL
248	950601.782	456732.067	1381.681	11TH ST
249	950583.975	456731.185	1380.711	11TH ST
250	950517.077	456730.555	1379.699	11TH ST
251	950511.620	456730.577	1379.613	11TH ST
252	950507.083	456730.756	1379.690	11TH ST
253	950458.683	456730.337	1380.371	11TH ST
254	950365.021	456729.679	1382.477	11TH ST
255	950506.494	457071.943	1384.624	11TH PL
256	950441.592	457071.886	1383.970	11TH PL
257	950430.908	457071.789	1383.869	11TH PL
258	950421.098	457071.680	1383.979	11TH PL
259	950365.220	457070.948	1384.590	11TH PL
260	950306.734	457071.331	1385.456	11TH PL
700	951797.899	457568.623	1427.949	BC ROWLANDS&12TH
701	949919.701	457565.021	1397.130	BC ROBERTS&12TH
702	950977.092	456413.233	1379.650	BC 10TH&REDFIELD
703	950577.465	456412.994	1379.641	BC FRIESS&10TH P
704	950576.900	457071.739	1385.842	11TH PL&FRIESS
800	949905.949	456172.954	1377.700	PK ROBERTS
801	949913.676	454930.275	1368.627	WATER CAP
802	949498.006	454909.153	1368.330	MH COVER
803	951885.882	454993.646	1365.740	MH COVER SEW
804	951897.754	456250.727	1391.378	PK ROWLAND&10TH
805	950967.924	456399.290	1379.292	SEW MH COVER

Appendix D

Hydrologic Analysis Supporting Documentation

JE FULLER
HYDROLOGY & GEOMORPHOLOGY, INC.
6101 South Rural Road, Suite 110, Tempe, Arizona 85283

201/202 were combined



Location	Existing Condition	Q peak	Area (mi²)
200	100yr-24hr	552 cfs	0.58
202	"	682 cfs	0.61
HC202	"	1221 cfs	1.19

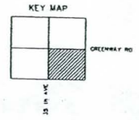
KAMINSKI HUBBARD engineering, inc.

SURVEYING • CIVIL • HYDROLOGY
4550 N. BLACK CANYON HWY., SUITE C
PHOENIX, ARIZONA 85017
(602) 242-5588

PHOTOGRAMMETRIC SURVEY CERTIFICATION

I, Daniel L. Kaminski, of KAMINSKI-HUBBARD Engineering, Inc., Arizona Registered Land Surveyor #16559, Certify That The Survey Control Used To Complete Photogrammetric Maps For This Project Is Correct And Accurate Within Contract Specifications.

KEY MAP



INDEX

NORTH

0 200' 400' 800'

FLOOD CONTROL DISTRICT
OF
MARICOPA COUNTY

ARIZONA CANAL DIVERSION CHANNEL
AREA DRAINAGE MASTER STUDY
PHASE 1

DRN:	DATE:	SCALE:	JOB NO.	SHEET
DES:	DATE:	1" = 400' HORIZ.	0146	01
CHD:	DATE:	1" = — VERT.		

SEC 9 10 T3N R3E

```
MV100_6.M1O                          Name of output file
DDM MCUHP1 North Branch of Moon Valley Wash - 100yr,6hr Model
1                                    1=single storm, 2=multiple storm
0.50                                 storm size (sq. miles)
1                                    rain: 1=6hr, 2=2hr, 3=24hr, 4=manual
3.00                                 point rainfall depth
202c                            <*****  basin name *************************
0.044                                basin area (square miles)
0.44                                 flow path length (miles)
0.053                                basin roughness - Kb
136.0        HE=1430.0               basin slope (ft./mile)
1           LE=1370.0                loss method: 1=Green-Ampt, 2 = init & uniform
0.104 0.261 6.29 0.169 40.3          IA, DTHETA, PSIF, XKSAT, RTIMP
1                                    UA-record: 1=urban, 2=natural, 3=manual input
1                                    Continue? 1 = next subbasin, 2 = stop
201a                            <*****  basin name *************************
0.021                                basin area (square miles)
0.28                                 flow path length (miles)
0.167                                basin roughness - Kb
315.0        HE=1840.0               basin slope (ft./mile)
1           LE=1460.0                loss method: 1=Green-Ampt, 2 = init & uniform
0.250 0.250 4.30 0.400 50.0          IA, DTHETA, PSIF, XKSAT, RTIMP
3                                    UA-record: 1=urban, 2=natural, 3=manual input
1                                    Continue? 1 = next subbasin, 2 = stop
201b                            <*****  basin name *************************
0.134                                basin area (square miles)
0.71                                 flow path length (miles)
0.029                                basin roughness - Kb
132.0        HE=1460.0               basin slope (ft./mile)
1           LE=1366.0                loss method: 1=Green-Ampt, 2 = init & uniform
0.104 0.261 6.29 0.169 40.3          IA, DTHETA, PSIF, XKSAT, RTIMP
1                                    UA-record: 1=urban, 2=natural, 3=manual input
1                                    Continue? 1 = next subbasin, 2 = stop
202b                            <*****  basin name *************************
0.008                                basin area (square miles)
0.13                                 flow path length (miles)
0.053                                basin roughness - Kb
169.0        HE=1420.0               basin slope (ft./mile)
1           LE=1398.0                loss method: 1=Green-Ampt, 2 = init & uniform
0.104 0.261 6.29 0.169 40.3          IA, DTHETA, PSIF, XKSAT, RTIMP
1                                    UA-record: 1=urban, 2=natural, 3=manual input
2                                    Continue? 1 = next subbasin, 2 = stop
```

Summary of MCUHP1 Input Parameters

Input File: MV100_6.M1I
Output File: MV100_6.M1O

SUBBASIN	AREA sq.miles	IA ins.	DTHETA	PSIF	XKSAT adj.	RTIMP %	Tc	R
202c	0.044	0.104	0.261	6.29	0.169	40.3	0.19	0.18
201a	0.021	0.250	0.250	4.30	0.400	50.0	0.22	0.22
201b	0.134	0.104	0.261	6.29	0.169	40.3	0.18	0.13
202b	0.008	0.104	0.261	6.29	0.169	40.3	0.10	0.08

```
1*************************************
 *                                   *
 *   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
 *              MAY   1991           *
 *           VERSION 4.0.1E          *
 *     Lahey F77L-EM/32 version 5.01     *
 *       Dodson & Associates, Inc.       *
 *  RUN DATE  01/23/01  TIME  11:48:51   *
 *************************************
```

```
*************************************
*                                   *
*    U.S. ARMY CORPS OF ENGINEERS   *
*    HYDROLOGIC ENGINEERING CENTER  *
*          609 SECOND STREET        *
*       DAVIS, CALIFORNIA 95616     *
*           (916) 551-1748          *
*                                   *
*************************************
```

```
X     X  XXXXXXX   XXXXX          X
X     X  X        X    X         XX
X     X  X        X              X
XXXXXXX  XXXX     X       XXXXX  X
X     X  X        X              X
X     X  X        X    X         X
X     X  XXXXXXX   XXXXX         XXX
```

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

```
1                                   HEC-1 INPUT                                   PAGE  1

  LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

    1           ID   SCOTTISH RITE PROJECT
    2           ID     BY: JE FULLER/HYDROLOGY & GEOMORPHOLOGY, INC.
    3           ID   NORTH BRANCH MOON VALLEY WASH
    4           ID   FILENAME:  MV100-6.IH1        MODIFIED: 01/16/01 wso
    5           ID   MODIFICATIONS BY JEF,INC. FOR INPUT TO FLO-2D MODEL
    6           ID   100-YR, 6-HR MODEL
    7           ID   SEE ORIGINAL ACDC ADMS NOTES IN FOLLOWING:
                *
                *  ID     ACDC AREA DRAINAGE MASTER STUDY
                *  ID     FILENAME:  MV100-24.DAT        KHE JOB NO. 0146
                *  ID     MOON VALLEY WASH WATERSHED
                *  ID     100-YEAR 24-HOUR DURATION STORM
                *  ID     SCS TYPE-II DISTRIBUTION WAS USED TO FIND TC & R
                *  ID     THIS BASIN USED RAINFALL REDUCTION FACTOR OF .970
                *  ID     *FILE REVISED BY D.L.B. ON 08-29-91 TO INCORPORATE SUB-BASINS 211 AND
                *  ID     *212.  ALSO ADDED WAS FLOW DIVERSION OUT OF THE WATERSHED INTO CAVE
                *  ID     *CREEK WASH THROUGH 84-IN. PIPE ALONG CORAL GABLES DR.
                *  ID     **FILE REVISED BY D.L.B. ON 10-16-91 TO INCORPORATE FCDMC COMMENTS.
                *  ID     ***FILE REVISED BY D.L.B. ON 11-22-91 TO ADDRESS FCDMC LATEST REVISION
                *  ID     ***TO THE MCUHP1 PROGRAM WITH GREEN & AMPT CHANGES AND TO CORRECT THE
                *  ID     ***TOTAL SIMULATION TIME.
                *
                *
    8           ID   SUBBASIN 202S IS SUBDIVIDED TO OBTAIN HYDROGRAPHS FOR FLO-2D NODES 553, 1227,
    9           ID   1294 AND 1300.  RAINFALL LOSS PARAMETERS FOR SUBBASIN 202S ARE MAINTAINED IN
   10           ID   JEF SUBBASINS 201B, 202B AND 202C.  SUBBASIN 201A PARAMETERS ESTIMATED FOR A
   11           ID   TYPICAL DESERT MOUNTAIN HILLSIDE.
                *
                *
                *DIAGRAM
   12           IT       5                    300
   13           IO       1
                *
                *
                *  BEGIN MODELING BY JEF,INC.
                *
   14           JR    FLOW    1.00  0.8638
                *
                *

   15           KK   S202A
   16           KM   RUNOFF GENERATED ON SUB-BASIN 200 PLUS 19.3 ACRES OF SUBBASIN 202
   17           BA    .613
   18           KM   6-HOUR RAINFALL USING FCDMC PATTERN NO.1
   19           KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .993
   20           IN      15
   21           KM   RAINFALL DEPTH OF 3.00 WAS SPACIALLY REDUCED AS SHOWN BY THE PB RECORD
   22           PB   2.980
   23           KM   THE FOLLOWING PC RECORD USED A 6-HR FCDMC PATTERN NO.1 STORM
   24           PC    .000    .008    .016    .025    .033    .041    .050    .058    .066    .074
   25           PC    .087    .099    .118    .138    .216    .377    .834    .911    .931    .950
   26           PC    .962    .972    .983    .991   1.000
   27           LG    .147    .364   5.670    .210  10.790
   28           UC    .417    .237
   29           UA       0       3       5       8      12      20      43      75      90      96
1                                   HEC-1 INPUT                                   PAGE  2
```

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  30          UA     100
              *
              *

  31          KK   S202B
  32          KM   SUB-BASIN 202b
  33          KM   6-HOUR RAINFALL, PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
  34          KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .993
  35          KM     L =  .13  Kb = .053  Adj. Slope =  169.0
  36          BA    .008
  37          LG    .104    .261   6.290    .169  40.300
  38          UC    .096    .084
  39          UA       0       5      16      30      65      77      84      90      94      97
  40          UA     100
              *

  41          KK   S202C
  42          KM   SUB-BASIN 202c
  43          KM   6-HOUR RAINFALL, PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
  44          KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .993
  45          KM     L =  .44  Kb = .053  Adj. Slope =  136.0
  46          BA    .044
  47          LG    .104    .261   6.290    .169  40.300
  48          UC    .192    .182
  49          UA       0       5      16      30      65      77      84      90      94      97
  50          UA     100
              *

  51          KK   S201A
  52          KM   SUB-BASIN 201a
  53          KM   6-HOUR RAINFALL, PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
  54          KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .993
  55          KM     L =  .28  Kb = .167  Adj. Slope =  315.0
  56          BA    .021
  57          LG    .250    .250   4.300    .400  50.000
  58          UC    .217    .221
              *

  59          KK   R201A
  60          KM   ROUTE HYDROGRAPH FROM SUBBASIN 201A THROUGH 201B
  61          RK    3770    0.01   0.025       0       0      32     0.5
              *

  62          KK   S201B
  63          KM   SUB-BASIN 201b
  64          KM   6-HOUR RAINFALL, PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
  65          KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .993
  66          KM     L =  .71  Kb = .029  Adj. Slope =  132.0
  67          BA    .134
  68          LG    .104    .261   6.290    .169  40.300
  69          UC    .179    .131
  70          UA       0       5      16      30      65      77      84      90      94      97
  71          UA     100
              *
1                                                HEC-1 INPUT                                          PAGE  3
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  72          KK    C201
  73          KM   COMBINE ROUTED HYDROGRAPH FROM SUBBASIN 201A AND HYDROGRAPH FROM 201B
  74          HC       2
  75          ZZ
1
              SCHEMATIC DIAGRAM OF STREAM NETWORK
 INPUT
  LINE      (V) ROUTING          (--->) DIVERSION OR PUMP FLOW

   NO.      (.) CONNECTOR        (<---) RETURN OF DIVERTED OR PUMPED FLOW

   15       S202A
                .
                .
   31           .       S202B
                .          .
                .          .
   41           .          .       S202C
                .          .          .
                .          .          .
   51           .          .          .       S201A
                .          .          .           V
                .          .          .           V
   59           .          .          .       R201A
                .          .          .           .
                .          .          .           .
   62           .          .          .           .       S201B
                .          .          .           .          .
                .          .          .           .          .
   72           .          .          .       C201............

 (***) RUNOFF ALSO COMPUTED AT THIS LOCATION
1*************************************                                    ************************************
 *                                   *                                    *                                  *
```

```
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *                                    *   U.S. ARMY CORPS OF ENGINEERS     *
*              MAY   1991               *                                    *   HYDROLOGIC ENGINEERING CENTER    *
*            VERSION 4.0.1E             *                                    *         609 SECOND STREET          *
*     Lahey F77L-EM/32 version 5.01     *                                    *      DAVIS, CALIFORNIA 95616       *
*       Dodson & Associates, Inc.       *                                    *          (916) 551-1748            *
*  RUN DATE  01/23/01  TIME  11:48:51   *                                    *                                    *
****************************************                                    ****************************************


                        SCOTTISH RITE PROJECT
                          BY: JE FULLER/HYDROLOGY & GEOMORPHOLOGY, INC.
                        NORTH BRANCH MOON VALLEY WASH
                        FILENAME:  MV100-6.IH1        MODIFIED: 01/16/01 wso
                        MODIFICATIONS BY JEF,INC. FOR INPUT TO FLO-2D MODEL
                        100-YR, 6-HR MODEL
                        SEE ORIGINAL ACDC ADMS NOTES IN FOLLOWING:
                        SUBBASIN 202S IS SUBDIVIDED TO OBTAIN HYDROGRAPHS FOR FLO-2D NODES 553, 1227,
                        1294 AND 1300.  RAINFALL LOSS PARAMETERS FOR SUBBASIN 202S ARE MAINTAINED IN
                        JEF SUBBASINS 201B, 202B AND 202C.  SUBBASIN 201A PARAMETERS ESTIMATED FOR A
                        TYPICAL DESERT MOUNTAIN HILLSIDE.

 13 IO          OUTPUT CONTROL VARIABLES
                      IPRNT           1  PRINT CONTROL
                      IPLOT           0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE

    IT          HYDROGRAPH TIME DATA
                       NMIN           5  MINUTES IN COMPUTATION INTERVAL
                      IDATE      1    0  STARTING DATE
                      ITIME        0000  STARTING TIME
                         NQ         300  NUMBER OF HYDROGRAPH ORDINATES
                     NDDATE      2    0  ENDING DATE
                     NDTIME        0055  ENDING TIME
                      ICENT          19  CENTURY MARK

                  COMPUTATION INTERVAL    0.08 HOURS
                       TOTAL TIME BASE   24.92 HOURS

         ENGLISH UNITS
              DRAINAGE AREA          SQUARE MILES
              PRECIPITATION DEPTH    INCHES
              LENGTH, ELEVATION      FEET
              FLOW                   CUBIC FEET PER SECOND
              STORAGE VOLUME         ACRE-FEET
              SURFACE AREA           ACRES
              TEMPERATURE            DEGREES FAHRENHEIT

    JP          MULTI-PLAN OPTION
                      NPLAN           1  NUMBER OF PLANS

    JR          MULTI-RATIO OPTION
                    RATIOS OF RUNOFF
                  1.00      0.86


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


           **************
           *            *
 15 KK     *     S202A  *
           *            *
           **************
                        RUNOFF GENERATED ON SUB-BASIN 200 PLUS 19.3 ACRES OF SUBBASIN 202
                        6-HOUR RAINFALL USING FCDMC PATTERN NO.1
                        THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .993
                        RAINFALL DEPTH OF 3.00 WAS SPACIALLY REDUCED AS SHOWN BY THE PB RECORD
                        THE FOLLOWING PC RECORD USED A 6-HR FCDMC PATTERN NO.1 STORM

 20 IN          TIME DATA FOR INPUT TIME SERIES
                      JXMIN          15  TIME INTERVAL IN MINUTES
                     JXDATE      1    0  STARTING DATE
                     JXTIME           0  STARTING TIME

              SUBBASIN RUNOFF DATA

 17 BA          SUBBASIN CHARACTERISTICS
                      TAREA        0.61  SUBBASIN AREA

                PRECIPITATION DATA

 23 PB                STORM        2.98  BASIN TOTAL PRECIPITATION

 23 PI            INCREMENTAL PRECIPITATION PATTERN
                    0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                    0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                    0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                    0.00      0.00      0.00      0.01      0.01      0.01      0.01      0.01      0.01      0.03
                    0.03      0.03      0.05      0.05      0.05      0.15      0.15      0.15      0.03      0.03
                    0.03      0.01      0.01      0.01      0.01      0.01      0.01      0.00      0.00      0.00
                    0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
```

```
                0.00       0.00

27 LG          GREEN AND AMPT LOSS RATE
                    STRTL        0.15  STARTING LOSS
                      DTH        0.36  MOISTURE DEFICIT
                     PSIF        5.67  WETTING FRONT SUCTION
                    XKSAT        0.21  HYDRAULIC CONDUCTIVITY
                    RTIMP       10.79  PERCENT IMPERVIOUS AREA

28 UC          CLARK UNITGRAPH
                       TC        0.42  TIME OF CONCENTRATION
                        R        0.24  STORAGE COEFFICIENT

29 UA          ACCUMULATED-AREA VS. TIME,  11 ORDINATES
                     0.0       3.0       5.0       8.0      12.0      20.0      43.0      75.0      90.0      96.0
                   100.0

                                                  ***

                                              UNIT HYDROGRAPH PARAMETERS
                                        CLARK   TC=  0.42 HR,        R=  0.24 HR
                                       SNYDER   TP=  0.36 HR,       CP=  0.89

                                              UNIT HYDROGRAPH
                                        19 END-OF-PERIOD ORDINATES
            35.      110.      346.      796.      963.      747.      524.      367.      257.      180.
           126.       89.       62.       44.       31.       21.       15.       11.        7.
```

****

HYDROGRAPH AT STATION S202A

****

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1		0000	1	0.00	0.00	0.00	0.	*	1		1230	151	0.00	0.00	0.00	0.
1		0005	2	0.01	0.01	0.00	0.	*	1		1235	152	0.00	0.00	0.00	0.
1		0010	3	0.01	0.01	0.00	0.	*	1		1240	153	0.00	0.00	0.00	0.
1		0015	4	0.01	0.01	0.00	0.	*	1		1245	154	0.00	0.00	0.00	0.
1		0020	5	0.01	0.01	0.00	1.	*	1		1250	155	0.00	0.00	0.00	0.
1		0025	6	0.01	0.01	0.00	2.	*	1		1255	156	0.00	0.00	0.00	0.
1		0030	7	0.01	0.01	0.00	3.	*	1		1300	157	0.00	0.00	0.00	0.
1		0035	8	0.01	0.01	0.00	3.	*	1		1305	158	0.00	0.00	0.00	0.
1		0040	9	0.01	0.01	0.00	3.	*	1		1310	159	0.00	0.00	0.00	0.
1		0045	10	0.01	0.01	0.00	4.	*	1		1315	160	0.00	0.00	0.00	0.
1		0050	11	0.01	0.01	0.00	4.	*	1		1320	161	0.00	0.00	0.00	0.
1		0055	12	0.01	0.01	0.00	4.	*	1		1325	162	0.00	0.00	0.00	0.
1		0100	13	0.01	0.01	0.00	4.	*	1		1330	163	0.00	0.00	0.00	0.
1		0105	14	0.01	0.01	0.00	4.	*	1		1335	164	0.00	0.00	0.00	0.
1		0110	15	0.01	0.01	0.00	4.	*	1		1340	165	0.00	0.00	0.00	0.
1		0115	16	0.01	0.01	0.00	4.	*	1		1345	166	0.00	0.00	0.00	0.
1		0120	17	0.01	0.01	0.00	4.	*	1		1350	167	0.00	0.00	0.00	0.
1		0125	18	0.01	0.01	0.00	4.	*	1		1355	168	0.00	0.00	0.00	0.
1		0130	19	0.01	0.01	0.00	4.	*	1		1400	169	0.00	0.00	0.00	0.
1		0135	20	0.01	0.01	0.00	4.	*	1		1405	170	0.00	0.00	0.00	0.
1		0140	21	0.01	0.01	0.00	4.	*	1		1410	171	0.00	0.00	0.00	0.
1		0145	22	0.01	0.01	0.00	4.	*	1		1415	172	0.00	0.00	0.00	0.
1		0150	23	0.01	0.01	0.00	4.	*	1		1420	173	0.00	0.00	0.00	0.
1		0155	24	0.01	0.01	0.00	4.	*	1		1425	174	0.00	0.00	0.00	0.
1		0200	25	0.01	0.01	0.00	4.	*	1		1430	175	0.00	0.00	0.00	0.
1		0205	26	0.01	0.01	0.00	4.	*	1		1435	176	0.00	0.00	0.00	0.
1		0210	27	0.01	0.01	0.00	4.	*	1		1440	177	0.00	0.00	0.00	0.
1		0215	28	0.01	0.01	0.00	4.	*	1		1445	178	0.00	0.00	0.00	0.
1		0220	29	0.01	0.01	0.00	4.	*	1		1450	179	0.00	0.00	0.00	0.
1		0225	30	0.01	0.01	0.00	4.	*	1		1455	180	0.00	0.00	0.00	0.
1		0230	31	0.01	0.01	0.00	4.	*	1		1500	181	0.00	0.00	0.00	0.
1		0235	32	0.01	0.01	0.00	5.	*	1		1505	182	0.00	0.00	0.00	0.
1		0240	33	0.01	0.01	0.00	5.	*	1		1510	183	0.00	0.00	0.00	0.
1		0245	34	0.01	0.01	0.00	6.	*	1		1515	184	0.00	0.00	0.00	0.
1		0250	35	0.02	0.02	0.00	6.	*	1		1520	185	0.00	0.00	0.00	0.
1		0255	36	0.02	0.02	0.00	6.	*	1		1525	186	0.00	0.00	0.00	0.
1		0300	37	0.02	0.02	0.00	6.	*	1		1530	187	0.00	0.00	0.00	0.
1		0305	38	0.02	0.02	0.00	7.	*	1		1535	188	0.00	0.00	0.00	0.
1		0310	39	0.02	0.02	0.00	8.	*	1		1540	189	0.00	0.00	0.00	0.
1		0315	40	0.02	0.02	0.00	8.	*	1		1545	190	0.00	0.00	0.00	0.
1		0320	41	0.08	0.07	0.01	9.	*	1		1550	191	0.00	0.00	0.00	0.
1		0325	42	0.08	0.07	0.01	10.	*	1		1555	192	0.00	0.00	0.00	0.
1		0330	43	0.08	0.07	0.01	13.	*	1		1600	193	0.00	0.00	0.00	0.
1		0335	44	0.16	0.08	0.08	20.	*	1		1605	194	0.00	0.00	0.00	0.
1		0340	45	0.16	0.07	0.09	35.	*	1		1610	195	0.00	0.00	0.00	0.
1		0345	46	0.16	0.06	0.10	67.	*	1		1615	196	0.00	0.00	0.00	0.
1		0350	47	0.45	0.06	0.40	145.	*	1		1620	197	0.00	0.00	0.00	0.
1		0355	48	0.45	0.05	0.40	262.	*	1		1625	198	0.00	0.00	0.00	0.
1		0400	49	0.45	0.05	0.40	436.	*	1		1630	199	0.00	0.00	0.00	0.
1		0405	50	0.08	0.05	0.03	713.	*	1		1635	200	0.00	0.00	0.00	0.
1		0410	51	0.08	0.05	0.03	999.	*	1		1640	201	0.00	0.00	0.00	0.
1		0415	52	0.08	0.05	0.03	1123.	*	1		1645	202	0.00	0.00	0.00	0.
1		0420	53	0.02	0.02	0.00	1004.	*	1		1650	203	0.00	0.00	0.00	0.
1		0425	54	0.02	0.02	0.00	767.	*	1		1655	204	0.00	0.00	0.00	0.
1		0430	55	0.02	0.02	0.00	569.	*	1		1700	205	0.00	0.00	0.00	0.
1		0435	56	0.02	0.02	0.00	415.	*	1		1705	206	0.00	0.00	0.00	0.
1		0440	57	0.02	0.02	0.00	296.	*	1		1710	207	0.00	0.00	0.00	0.
1		0445	58	0.02	0.02	0.00	210.	*	1		1715	208	0.00	0.00	0.00	0.
1		0450	59	0.01	0.01	0.00	150.	*	1		1720	209	0.00	0.00	0.00	0.

1	0455	60	0.01	0.01	0.00	108.	*	1	1725	210	0.00	0.00	0.00	0.
1	0500	61	0.01	0.01	0.00	78.	*	1	1730	211	0.00	0.00	0.00	0.
1	0505	62	0.01	0.01	0.00	57.	*	1	1735	212	0.00	0.00	0.00	0.
1	0510	63	0.01	0.01	0.00	41.	*	1	1740	213	0.00	0.00	0.00	0.
1	0515	64	0.01	0.01	0.00	30.	*	1	1745	214	0.00	0.00	0.00	0.
1	0520	65	0.01	0.01	0.00	22.	*	1	1750	215	0.00	0.00	0.00	0.
1	0525	66	0.01	0.01	0.00	15.	*	1	1755	216	0.00	0.00	0.00	0.
1	0530	67	0.01	0.01	0.00	10.	*	1	1800	217	0.00	0.00	0.00	0.
1	0535	68	0.01	0.01	0.00	7.	*	1	1805	218	0.00	0.00	0.00	0.
1	0540	69	0.01	0.01	0.00	6.	*	1	1810	219	0.00	0.00	0.00	0.
1	0545	70	0.01	0.01	0.00	6.	*	1	1815	220	0.00	0.00	0.00	0.
1	0550	71	0.01	0.01	0.00	5.	*	1	1820	221	0.00	0.00	0.00	0.
1	0555	72	0.01	0.01	0.00	5.	*	1	1825	222	0.00	0.00	0.00	0.
1	0600	73	0.01	0.01	0.00	5.	*	1	1830	223	0.00	0.00	0.00	0.
1	0605	74	0.00	0.00	0.00	5.	*	1	1835	224	0.00	0.00	0.00	0.
1	0610	75	0.00	0.00	0.00	4.	*	1	1840	225	0.00	0.00	0.00	0.
1	0615	76	0.00	0.00	0.00	4.	*	1	1845	226	0.00	0.00	0.00	0.
1	0620	77	0.00	0.00	0.00	3.	*	1	1850	227	0.00	0.00	0.00	0.
1	0625	78	0.00	0.00	0.00	2.	*	1	1855	228	0.00	0.00	0.00	0.
1	0630	79	0.00	0.00	0.00	2.	*	1	1900	229	0.00	0.00	0.00	0.
1	0635	80	0.00	0.00	0.00	1.	*	1	1905	230	0.00	0.00	0.00	0.
1	0640	81	0.00	0.00	0.00	1.	*	1	1910	231	0.00	0.00	0.00	0.
1	0645	82	0.00	0.00	0.00	1.	*	1	1915	232	0.00	0.00	0.00	0.
1	0650	83	0.00	0.00	0.00	0.	*	1	1920	233	0.00	0.00	0.00	0.
1	0655	84	0.00	0.00	0.00	0.	*	1	1925	234	0.00	0.00	0.00	0.
1	0700	85	0.00	0.00	0.00	0.	*	1	1930	235	0.00	0.00	0.00	0.
1	0705	86	0.00	0.00	0.00	0.	*	1	1935	236	0.00	0.00	0.00	0.
1	0710	87	0.00	0.00	0.00	0.	*	1	1940	237	0.00	0.00	0.00	0.
1	0715	88	0.00	0.00	0.00	0.	*	1	1945	238	0.00	0.00	0.00	0.
1	0720	89	0.00	0.00	0.00	0.	*	1	1950	239	0.00	0.00	0.00	0.
1	0725	90	0.00	0.00	0.00	0.	*	1	1955	240	0.00	0.00	0.00	0.
1	0730	91	0.00	0.00	0.00	0.	*	1	2000	241	0.00	0.00	0.00	0.
1	0735	92	0.00	0.00	0.00	0.	*	1	2005	242	0.00	0.00	0.00	0.
1	0740	93	0.00	0.00	0.00	0.	*	1	2010	243	0.00	0.00	0.00	0.
1	0745	94	0.00	0.00	0.00	0.	*	1	2015	244	0.00	0.00	0.00	0.
1	0750	95	0.00	0.00	0.00	0.	*	1	2020	245	0.00	0.00	0.00	0.
1	0755	96	0.00	0.00	0.00	0.	*	1	2025	246	0.00	0.00	0.00	0.
1	0800	97	0.00	0.00	0.00	0.	*	1	2030	247	0.00	0.00	0.00	0.
1	0805	98	0.00	0.00	0.00	0.	*	1	2035	248	0.00	0.00	0.00	0.
1	0810	99	0.00	0.00	0.00	0.	*	1	2040	249	0.00	0.00	0.00	0.
1	0815	100	0.00	0.00	0.00	0.	*	1	2045	250	0.00	0.00	0.00	0.
1	0820	101	0.00	0.00	0.00	0.	*	1	2050	251	0.00	0.00	0.00	0.
1	0825	102	0.00	0.00	0.00	0.	*	1	2055	252	0.00	0.00	0.00	0.
1	0830	103	0.00	0.00	0.00	0.	*	1	2100	253	0.00	0.00	0.00	0.
1	0835	104	0.00	0.00	0.00	0.	*	1	2105	254	0.00	0.00	0.00	0.
1	0840	105	0.00	0.00	0.00	0.	*	1	2110	255	0.00	0.00	0.00	0.
1	0845	106	0.00	0.00	0.00	0.	*	1	2115	256	0.00	0.00	0.00	0.
1	0850	107	0.00	0.00	0.00	0.	*	1	2120	257	0.00	0.00	0.00	0.
1	0855	108	0.00	0.00	0.00	0.	*	1	2125	258	0.00	0.00	0.00	0.
1	0900	109	0.00	0.00	0.00	0.	*	1	2130	259	0.00	0.00	0.00	0.
1	0905	110	0.00	0.00	0.00	0.	*	1	2135	260	0.00	0.00	0.00	0.
1	0910	111	0.00	0.00	0.00	0.	*	1	2140	261	0.00	0.00	0.00	0.
1	0915	112	0.00	0.00	0.00	0.	*	1	2145	262	0.00	0.00	0.00	0.
1	0920	113	0.00	0.00	0.00	0.	*	1	2150	263	0.00	0.00	0.00	0.
1	0925	114	0.00	0.00	0.00	0.	*	1	2155	264	0.00	0.00	0.00	0.
1	0930	115	0.00	0.00	0.00	0.	*	1	2200	265	0.00	0.00	0.00	0.
1	0935	116	0.00	0.00	0.00	0.	*	1	2205	266	0.00	0.00	0.00	0.
1	0940	117	0.00	0.00	0.00	0.	*	1	2210	267	0.00	0.00	0.00	0.
1	0945	118	0.00	0.00	0.00	0.	*	1	2215	268	0.00	0.00	0.00	0.
1	0950	119	0.00	0.00	0.00	0.	*	1	2220	269	0.00	0.00	0.00	0.
1	0955	120	0.00	0.00	0.00	0.	*	1	2225	270	0.00	0.00	0.00	0.
1	1000	121	0.00	0.00	0.00	0.	*	1	2230	271	0.00	0.00	0.00	0.
1	1005	122	0.00	0.00	0.00	0.	*	1	2235	272	0.00	0.00	0.00	0.
1	1010	123	0.00	0.00	0.00	0.	*	1	2240	273	0.00	0.00	0.00	0.
1	1015	124	0.00	0.00	0.00	0.	*	1	2245	274	0.00	0.00	0.00	0.
1	1020	125	0.00	0.00	0.00	0.	*	1	2250	275	0.00	0.00	0.00	0.
1	1025	126	0.00	0.00	0.00	0.	*	1	2255	276	0.00	0.00	0.00	0.
1	1030	127	0.00	0.00	0.00	0.	*	1	2300	277	0.00	0.00	0.00	0.
1	1035	128	0.00	0.00	0.00	0.	*	1	2305	278	0.00	0.00	0.00	0.
1	1040	129	0.00	0.00	0.00	0.	*	1	2310	279	0.00	0.00	0.00	0.
1	1045	130	0.00	0.00	0.00	0.	*	1	2315	280	0.00	0.00	0.00	0.
1	1050	131	0.00	0.00	0.00	0.	*	1	2320	281	0.00	0.00	0.00	0.
1	1055	132	0.00	0.00	0.00	0.	*	1	2325	282	0.00	0.00	0.00	0.
1	1100	133	0.00	0.00	0.00	0.	*	1	2330	283	0.00	0.00	0.00	0.
1	1105	134	0.00	0.00	0.00	0.	*	1	2335	284	0.00	0.00	0.00	0.
1	1110	135	0.00	0.00	0.00	0.	*	1	2340	285	0.00	0.00	0.00	0.
1	1115	136	0.00	0.00	0.00	0.	*	1	2345	286	0.00	0.00	0.00	0.
1	1120	137	0.00	0.00	0.00	0.	*	1	2350	287	0.00	0.00	0.00	0.
1	1125	138	0.00	0.00	0.00	0.	*	1	2355	288	0.00	0.00	0.00	0.
1	1130	139	0.00	0.00	0.00	0.	*	2	0000	289	0.00	0.00	0.00	0.
1	1135	140	0.00	0.00	0.00	0.	*	2	0005	290	0.00	0.00	0.00	0.
1	1140	141	0.00	0.00	0.00	0.	*	2	0010	291	0.00	0.00	0.00	0.
1	1145	142	0.00	0.00	0.00	0.	*	2	0015	292	0.00	0.00	0.00	0.
1	1150	143	0.00	0.00	0.00	0.	*	2	0020	293	0.00	0.00	0.00	0.
1	1155	144	0.00	0.00	0.00	0.	*	2	0025	294	0.00	0.00	0.00	0.
1	1200	145	0.00	0.00	0.00	0.	*	2	0030	295	0.00	0.00	0.00	0.
1	1205	146	0.00	0.00	0.00	0.	*	2	0035	296	0.00	0.00	0.00	0.
1	1210	147	0.00	0.00	0.00	0.	*	2	0040	297	0.00	0.00	0.00	0.
1	1215	148	0.00	0.00	0.00	0.	*	2	0045	298	0.00	0.00	0.00	0.
1	1220	149	0.00	0.00	0.00	0.	*	2	0050	299	0.00	0.00	0.00	0.
1	1225	150	0.00	0.00	0.00	0.	*	2	0055	300	0.00	0.00	0.00	0.
							*							

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TOTAL RAINFALL = 2.98, TOTAL LOSS = 1.33, TOTAL EXCESS = 1.65

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 1123.	4.25		109.	27.	26.	26.
		(INCHES)	1.647	1.649	1.649	1.649
		(AC-FT)	54.	54.	54.	54.

CUMULATIVE AREA = 0.61 SQ MI

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HYDROGRAPH AT STATION S202A
PLAN 1, RATIO = 1.00

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	4.	*	1		1230	151	0.	*	1		1845	226	0.
1		0005	2	0.	*	1		0620	77	3.	*	1		1235	152	0.	*	1		1850	227	0.
1		0010	3	0.	*	1		0625	78	2.	*	1		1240	153	0.	*	1		1855	228	0.
1		0015	4	0.	*	1		0630	79	2.	*	1		1245	154	0.	*	1		1900	229	0.
1		0020	5	1.	*	1		0635	80	1.	*	1		1250	155	0.	*	1		1905	230	0.
1		0025	6	2.	*	1		0640	81	1.	*	1		1255	156	0.	*	1		1910	231	0.
1		0030	7	3.	*	1		0645	82	1.	*	1		1300	157	0.	*	1		1915	232	0.
1		0035	8	3.	*	1		0650	83	0.	*	1		1305	158	0.	*	1		1920	233	0.
1		0040	9	3.	*	1		0655	84	0.	*	1		1310	159	0.	*	1		1925	234	0.
1		0045	10	4.	*	1		0700	85	0.	*	1		1315	160	0.	*	1		1930	235	0.
1		0050	11	4.	*	1		0705	86	0.	*	1		1320	161	0.	*	1		1935	236	0.
1		0055	12	4.	*	1		0710	87	0.	*	1		1325	162	0.	*	1		1940	237	0.
1		0100	13	4.	*	1		0715	88	0.	*	1		1330	163	0.	*	1		1945	238	0.
1		0105	14	4.	*	1		0720	89	0.	*	1		1335	164	0.	*	1		1950	239	0.
1		0110	15	4.	*	1		0725	90	0.	*	1		1340	165	0.	*	1		1955	240	0.
1		0115	16	4.	*	1		0730	91	0.	*	1		1345	166	0.	*	1		2000	241	0.
1		0120	17	4.	*	1		0735	92	0.	*	1		1350	167	0.	*	1		2005	242	0.
1		0125	18	4.	*	1		0740	93	0.	*	1		1355	168	0.	*	1		2010	243	0.
1		0130	19	4.	*	1		0745	94	0.	*	1		1400	169	0.	*	1		2015	244	0.
1		0135	20	4.	*	1		0750	95	0.	*	1		1405	170	0.	*	1		2020	245	0.
1		0140	21	4.	*	1		0755	96	0.	*	1		1410	171	0.	*	1		2025	246	0.
1		0145	22	4.	*	1		0800	97	0.	*	1		1415	172	0.	*	1		2030	247	0.
1		0150	23	4.	*	1		0805	98	0.	*	1		1420	173	0.	*	1		2035	248	0.
1		0155	24	4.	*	1		0810	99	0.	*	1		1425	174	0.	*	1		2040	249	0.
1		0200	25	4.	*	1		0815	100	0.	*	1		1430	175	0.	*	1		2045	250	0.
1		0205	26	4.	*	1		0820	101	0.	*	1		1435	176	0.	*	1		2050	251	0.
1		0210	27	4.	*	1		0825	102	0.	*	1		1440	177	0.	*	1		2055	252	0.
1		0215	28	4.	*	1		0830	103	0.	*	1		1445	178	0.	*	1		2100	253	0.
1		0220	29	4.	*	1		0835	104	0.	*	1		1450	179	0.	*	1		2105	254	0.
1		0225	30	4.	*	1		0840	105	0.	*	1		1455	180	0.	*	1		2110	255	0.
1		0230	31	4.	*	1		0845	106	0.	*	1		1500	181	0.	*	1		2115	256	0.
1		0235	32	5.	*	1		0850	107	0.	*	1		1505	182	0.	*	1		2120	257	0.
1		0240	33	5.	*	1		0855	108	0.	*	1		1510	183	0.	*	1		2125	258	0.
1		0245	34	6.	*	1		0900	109	0.	*	1		1515	184	0.	*	1		2130	259	0.
1		0250	35	6.	*	1		0905	110	0.	*	1		1520	185	0.	*	1		2135	260	0.
1		0255	36	6.	*	1		0910	111	0.	*	1		1525	186	0.	*	1		2140	261	0.
1		0300	37	6.	*	1		0915	112	0.	*	1		1530	187	0.	*	1		2145	262	0.
1		0305	38	7.	*	1		0920	113	0.	*	1		1535	188	0.	*	1		2150	263	0.
1		0310	39	8.	*	1		0925	114	0.	*	1		1540	189	0.	*	1		2155	264	0.
1		0315	40	8.	*	1		0930	115	0.	*	1		1545	190	0.	*	1		2200	265	0.
1		0320	41	9.	*	1		0935	116	0.	*	1		1550	191	0.	*	1		2205	266	0.
1		0325	42	10.	*	1		0940	117	0.	*	1		1555	192	0.	*	1		2210	267	0.
1		0330	43	13.	*	1		0945	118	0.	*	1		1600	193	0.	*	1		2215	268	0.
1		0335	44	20.	*	1		0950	119	0.	*	1		1605	194	0.	*	1		2220	269	0.
1		0340	45	35.	*	1		0955	120	0.	*	1		1610	195	0.	*	1		2225	270	0.
1		0345	46	67.	*	1		1000	121	0.	*	1		1615	196	0.	*	1		2230	271	0.
1		0350	47	145.	*	1		1005	122	0.	*	1		1620	197	0.	*	1		2235	272	0.
1		0355	48	262.	*	1		1010	123	0.	*	1		1625	198	0.	*	1		2240	273	0.
1		0400	49	436.	*	1		1015	124	0.	*	1		1630	199	0.	*	1		2245	274	0.
1		0405	50	713.	*	1		1020	125	0.	*	1		1635	200	0.	*	1		2250	275	0.
1		0410	51	999.	*	1		1025	126	0.	*	1		1640	201	0.	*	1		2255	276	0.
1		0415	52	1123.	*	1		1030	127	0.	*	1		1645	202	0.	*	1		2300	277	0.
1		0420	53	1004.	*	1		1035	128	0.	*	1		1650	203	0.	*	1		2305	278	0.
1		0425	54	767.	*	1		1040	129	0.	*	1		1655	204	0.	*	1		2310	279	0.
1		0430	55	569.	*	1		1045	130	0.	*	1		1700	205	0.	*	1		2315	280	0.
1		0435	56	415.	*	1		1050	131	0.	*	1		1705	206	0.	*	1		2320	281	0.
1		0440	57	296.	*	1		1055	132	0.	*	1		1710	207	0.	*	1		2325	282	0.
1		0445	58	210.	*	1		1100	133	0.	*	1		1715	208	0.	*	1		2330	283	0.
1		0450	59	150.	*	1		1105	134	0.	*	1		1720	209	0.	*	1		2335	284	0.
1		0455	60	108.	*	1		1110	135	0.	*	1		1725	210	0.	*	1		2340	285	0.
1		0500	61	78.	*	1		1115	136	0.	*	1		1730	211	0.	*	1		2345	286	0.
1		0505	62	57.	*	1		1120	137	0.	*	1		1735	212	0.	*	1		2350	287	0.
1		0510	63	41.	*	1		1125	138	0.	*	1		1740	213	0.	*	1		2355	288	0.
1		0515	64	30.	*	1		1130	139	0.	*	1		1745	214	0.	*	2		0000	289	0.
1		0520	65	22.	*	1		1135	140	0.	*	1		1750	215	0.	*	2		0005	290	0.
1		0525	66	15.	*	1		1140	141	0.	*	1		1755	216	0.	*	2		0010	291	0.
1		0530	67	10.	*	1		1145	142	0.	*	1		1800	217	0.	*	2		0015	292	0.
1		0535	68	7.	*	1		1150	143	0.	*	1		1805	218	0.	*	2		0020	293	0.
1		0540	69	6.	*	1		1155	144	0.	*	1		1810	219	0.	*	2		0025	294	0.
1		0545	70	6.	*	1		1200	145	0.	*	1		1815	220	0.	*	2		0030	295	0.
1		0550	71	5.	*	1		1205	146	0.	*	1		1820	221	0.	*	2		0035	296	0.
1		0555	72	5.	*	1		1210	147	0.	*	1		1825	222	0.	*	2		0040	297	0.
1		0600	73	5.	*	1		1215	148	0.	*	1		1830	223	0.	*	2		0045	298	0.
1		0605	74	5.	*	1		1220	149	0.	*	1		1835	224	0.	*	2		0050	299	0.

1	0610	75	4.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 1123.	4.25		109.	27.	26.	26.
		(INCHES)	1.647	1.649	1.649	1.649
		(AC-FT)	54.	54.	54.	54.

CUMULATIVE AREA = 0.61 SQ MI

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HYDROGRAPH AT STATION S202A
PLAN 1, RATIO = 0.86

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	4.	*	1		1230	151	0.	*	1		1845	226	0.
1		0005	2	0.	*	1		0620	77	3.	*	1		1235	152	0.	*	1		1850	227	0.
1		0010	3	0.	*	1		0625	78	2.	*	1		1240	153	0.	*	1		1855	228	0.
1		0015	4	0.	*	1		0630	79	1.	*	1		1245	154	0.	*	1		1900	229	0.
1		0020	5	1.	*	1		0635	80	1.	*	1		1250	155	0.	*	1		1905	230	0.
1		0025	6	2.	*	1		0640	81	1.	*	1		1255	156	0.	*	1		1910	231	0.
1		0030	7	2.	*	1		0645	82	0.	*	1		1300	157	0.	*	1		1915	232	0.
1		0035	8	3.	*	1		0650	83	0.	*	1		1305	158	0.	*	1		1920	233	0.
1		0040	9	3.	*	1		0655	84	0.	*	1		1310	159	0.	*	1		1925	234	0.
1		0045	10	3.	*	1		0700	85	0.	*	1		1315	160	0.	*	1		1930	235	0.
1		0050	11	3.	*	1		0705	86	0.	*	1		1320	161	0.	*	1		1935	236	0.
1		0055	12	3.	*	1		0710	87	0.	*	1		1325	162	0.	*	1		1940	237	0.
1		0100	13	4.	*	1		0715	88	0.	*	1		1330	163	0.	*	1		1945	238	0.
1		0105	14	4.	*	1		0720	89	0.	*	1		1335	164	0.	*	1		1950	239	0.
1		0110	15	4.	*	1		0725	90	0.	*	1		1340	165	0.	*	1		1955	240	0.
1		0115	16	4.	*	1		0730	91	0.	*	1		1345	166	0.	*	1		2000	241	0.
1		0120	17	4.	*	1		0735	92	0.	*	1		1350	167	0.	*	1		2005	242	0.
1		0125	18	4.	*	1		0740	93	0.	*	1		1355	168	0.	*	1		2010	243	0.
1		0130	19	4.	*	1		0745	94	0.	*	1		1400	169	0.	*	1		2015	244	0.
1		0135	20	4.	*	1		0750	95	0.	*	1		1405	170	0.	*	1		2020	245	0.
1		0140	21	4.	*	1		0755	96	0.	*	1		1410	171	0.	*	1		2025	246	0.
1		0145	22	4.	*	1		0800	97	0.	*	1		1415	172	0.	*	1		2030	247	0.
1		0150	23	4.	*	1		0805	98	0.	*	1		1420	173	0.	*	1		2035	248	0.
1		0155	24	4.	*	1		0810	99	0.	*	1		1425	174	0.	*	1		2040	249	0.
1		0200	25	4.	*	1		0815	100	0.	*	1		1430	175	0.	*	1		2045	250	0.
1		0205	26	4.	*	1		0820	101	0.	*	1		1435	176	0.	*	1		2050	251	0.
1		0210	27	4.	*	1		0825	102	0.	*	1		1440	177	0.	*	1		2055	252	0.
1		0215	28	4.	*	1		0830	103	0.	*	1		1445	178	0.	*	1		2100	253	0.
1		0220	29	4.	*	1		0835	104	0.	*	1		1450	179	0.	*	1		2105	254	0.
1		0225	30	4.	*	1		0840	105	0.	*	1		1455	180	0.	*	1		2110	255	0.
1		0230	31	4.	*	1		0845	106	0.	*	1		1500	181	0.	*	1		2115	256	0.
1		0235	32	4.	*	1		0850	107	0.	*	1		1505	182	0.	*	1		2120	257	0.
1		0240	33	5.	*	1		0855	108	0.	*	1		1510	183	0.	*	1		2125	258	0.
1		0245	34	5.	*	1		0900	109	0.	*	1		1515	184	0.	*	1		2130	259	0.
1		0250	35	5.	*	1		0905	110	0.	*	1		1520	185	0.	*	1		2135	260	0.
1		0255	36	5.	*	1		0910	111	0.	*	1		1525	186	0.	*	1		2140	261	0.
1		0300	37	5.	*	1		0915	112	0.	*	1		1530	187	0.	*	1		2145	262	0.
1		0305	38	6.	*	1		0920	113	0.	*	1		1535	188	0.	*	1		2150	263	0.
1		0310	39	7.	*	1		0925	114	0.	*	1		1540	189	0.	*	1		2155	264	0.
1		0315	40	7.	*	1		0930	115	0.	*	1		1545	190	0.	*	1		2200	265	0.
1		0320	41	8.	*	1		0935	116	0.	*	1		1550	191	0.	*	1		2205	266	0.
1		0325	42	9.	*	1		0940	117	0.	*	1		1555	192	0.	*	1		2210	267	0.
1		0330	43	11.	*	1		0945	118	0.	*	1		1600	193	0.	*	1		2215	268	0.
1		0335	44	18.	*	1		0950	119	0.	*	1		1605	194	0.	*	1		2220	269	0.
1		0340	45	30.	*	1		0955	120	0.	*	1		1610	195	0.	*	1		2225	270	0.
1		0345	46	58.	*	1		1000	121	0.	*	1		1615	196	0.	*	1		2230	271	0.
1		0350	47	125.	*	1		1005	122	0.	*	1		1620	197	0.	*	1		2235	272	0.
1		0355	48	226.	*	1		1010	123	0.	*	1		1625	198	0.	*	1		2240	273	0.
1		0400	49	376.	*	1		1015	124	0.	*	1		1630	199	0.	*	1		2245	274	0.
1		0405	50	616.	*	1		1020	125	0.	*	1		1635	200	0.	*	1		2250	275	0.
1		0410	51	863.	*	1		1025	126	0.	*	1		1640	201	0.	*	1		2255	276	0.
1		0415	52	970.	*	1		1030	127	0.	*	1		1645	202	0.	*	1		2300	277	0.
1		0420	53	867.	*	1		1035	128	0.	*	1		1650	203	0.	*	1		2305	278	0.
1		0425	54	663.	*	1		1040	129	0.	*	1		1655	204	0.	*	1		2310	279	0.
1		0430	55	491.	*	1		1045	130	0.	*	1		1700	205	0.	*	1		2315	280	0.
1		0435	56	359.	*	1		1050	131	0.	*	1		1705	206	0.	*	1		2320	281	0.
1		0440	57	256.	*	1		1055	132	0.	*	1		1710	207	0.	*	1		2325	282	0.
1		0445	58	182.	*	1		1100	133	0.	*	1		1715	208	0.	*	1		2330	283	0.
1		0450	59	130.	*	1		1105	134	0.	*	1		1720	209	0.	*	1		2335	284	0.
1		0455	60	93.	*	1		1110	135	0.	*	1		1725	210	0.	*	1		2340	285	0.
1		0500	61	68.	*	1		1115	136	0.	*	1		1730	211	0.	*	1		2345	286	0.
1		0505	62	49.	*	1		1120	137	0.	*	1		1735	212	0.	*	1		2350	287	0.
1		0510	63	36.	*	1		1125	138	0.	*	1		1740	213	0.	*	1		2355	288	0.
1		0515	64	26.	*	1		1130	139	0.	*	1		1745	214	0.	*	2		0000	289	0.
1		0520	65	19.	*	1		1135	140	0.	*	1		1750	215	0.	*	2		0005	290	0.
1		0525	66	13.	*	1		1140	141	0.	*	1		1755	216	0.	*	2		0010	291	0.
1		0530	67	9.	*	1		1145	142	0.	*	1		1800	217	0.	*	2		0015	292	0.
1		0535	68	6.	*	1		1150	143	0.	*	1		1805	218	0.	*	2		0020	293	0.
1		0540	69	5.	*	1		1155	144	0.	*	1		1810	219	0.	*	2		0025	294	0.
1		0545	70	5.	*	1		1200	145	0.	*	1		1815	220	0.	*	2		0030	295	0.
1		0550	71	5.	*	1		1205	146	0.	*	1		1820	221	0.	*	2		0035	296	0.

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  1    0555   72        4.   *   1    1210  147        0.   *   1    1825  222        0.   *   2    0040  297        0.
  1    0600   73        4.   *   1    1215  148        0.   *   1    1830  223        0.   *   2    0045  298        0.
  1    0605   74        4.   *   1    1220  149        0.   *   1    1835  224        0.   *   2    0050  299        0.
  1    0610   75        4.   *   1    1225  150        0.   *   1    1840  225        0.   *   2    0055  300        0.
                         *                                  *                                  *
*****************************************************************************************************************************

 PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                     6-HR       24-HR       72-HR     24.92-HR
+   (CFS)       (HR)
                            (CFS)
+    970.      4.25                 94.         23.         23.         23.
                          (INCHES)  1.422       1.424       1.424       1.424
                           (AC-FT)   47.         47.         47.         47.

                          CUMULATIVE AREA =    0.61 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


            **************
            *            *
  31 KK     *    S202B   *
            *            *
            **************
                          SUB-BASIN 202b
                          6-HOUR RAINFALL, PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
                          THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .993
                            L =  .13  Kb = .053  Adj. Slope =  169.0

              SUBBASIN RUNOFF DATA

  36 BA         SUBBASIN CHARACTERISTICS
                      TAREA        0.01  SUBBASIN AREA

                PRECIPITATION DATA

  23 PB               STORM        2.98  BASIN TOTAL PRECIPITATION

  23 PI           INCREMENTAL PRECIPITATION PATTERN
                     0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                     0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                     0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                     0.00      0.00      0.00      0.01      0.01      0.01      0.01      0.01      0.01      0.03
                     0.03      0.03      0.05      0.05      0.05      0.15      0.15      0.15      0.03      0.03
                     0.03      0.01      0.01      0.01      0.01      0.01      0.01      0.00      0.00      0.00
                     0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                     0.00      0.00

  37 LG         GREEN AND AMPT LOSS RATE
                      STRTL        0.10  STARTING LOSS
                        DTH        0.26  MOISTURE DEFICIT
                       PSIF        6.29  WETTING FRONT SUCTION
                      XKSAT        0.17  HYDRAULIC CONDUCTIVITY
                      RTIMP       40.30  PERCENT IMPERVIOUS AREA

  38 UC         CLARK UNITGRAPH
                         TC        0.10  TIME OF CONCENTRATION
                          R        0.08  STORAGE COEFFICIENT

  39 UA         ACCUMULATED-AREA VS. TIME,  11 ORDINATES
                     0.0       5.0      16.0      30.0      65.0      77.0      84.0      90.0      94.0      97.0
                   100.0

                                                   ***

                                              UNIT HYDROGRAPH PARAMETERS
                                       CLARK   TC=  0.10 HR,       R=  0.08 HR
                                      SNYDER   TP=  0.08 HR,      CP=  0.53

                                              UNIT HYDROGRAPH
                                          6 END-OF-PERIOD ORDINATES
              20.       27.       10.        3.        1.        0.
*****************************************************************************************************************************

                                         HYDROGRAPH AT STATION    S202B

*****************************************************************************************************************************
                                                                  *
      DA MON HRMN  ORD    RAIN    LOSS  EXCESS     COMP Q        *      DA MON HRMN  ORD    RAIN    LOSS  EXCESS     COMP Q
                                                                  *
       1    0000    1    0.00    0.00    0.00         0.         *       1    1230  151    0.00    0.00    0.00         0.
       1    0005    2    0.01    0.00    0.00         0.         *       1    1235  152    0.00    0.00    0.00         0.
       1    0010    3    0.01    0.00    0.00         0.         *       1    1240  153    0.00    0.00    0.00         0.
       1    0015    4    0.01    0.00    0.00         0.         *       1    1245  154    0.00    0.00    0.00         0.
       1    0020    5    0.01    0.00    0.00         0.         *       1    1250  155    0.00    0.00    0.00         0.
       1    0025    6    0.01    0.00    0.00         0.         *       1    1255  156    0.00    0.00    0.00         0.
       1    0030    7    0.01    0.00    0.00         0.         *       1    1300  157    0.00    0.00    0.00         0.
       1    0035    8    0.01    0.01    0.00         0.         *       1    1305  158    0.00    0.00    0.00         0.
       1    0040    9    0.01    0.01    0.00         0.         *       1    1310  159    0.00    0.00    0.00         0.
       1    0045   10    0.01    0.01    0.00         0.         *       1    1315  160    0.00    0.00    0.00         0.
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1	0050	11	0.01	0.00	0.00	0.	*	1	1320	161	0.00	0.00	0.00	0.
1	0055	12	0.01	0.00	0.00	0.	*	1	1325	162	0.00	0.00	0.00	0.
1	0100	13	0.01	0.00	0.00	0.	*	1	1330	163	0.00	0.00	0.00	0.
1	0105	14	0.01	0.00	0.00	0.	*	1	1335	164	0.00	0.00	0.00	0.
1	0110	15	0.01	0.00	0.00	0.	*	1	1340	165	0.00	0.00	0.00	0.
1	0115	16	0.01	0.00	0.00	0.	*	1	1345	166	0.00	0.00	0.00	0.
1	0120	17	0.01	0.01	0.00	0.	*	1	1350	167	0.00	0.00	0.00	0.
1	0125	18	0.01	0.01	0.00	0.	*	1	1355	168	0.00	0.00	0.00	0.
1	0130	19	0.01	0.01	0.00	0.	*	1	1400	169	0.00	0.00	0.00	0.
1	0135	20	0.01	0.00	0.00	0.	*	1	1405	170	0.00	0.00	0.00	0.
1	0140	21	0.01	0.00	0.00	0.	*	1	1410	171	0.00	0.00	0.00	0.
1	0145	22	0.01	0.00	0.00	0.	*	1	1415	172	0.00	0.00	0.00	0.
1	0150	23	0.01	0.00	0.00	0.	*	1	1420	173	0.00	0.00	0.00	0.
1	0155	24	0.01	0.00	0.00	0.	*	1	1425	174	0.00	0.00	0.00	0.
1	0200	25	0.01	0.00	0.00	0.	*	1	1430	175	0.00	0.00	0.00	0.
1	0205	26	0.01	0.00	0.00	0.	*	1	1435	176	0.00	0.00	0.00	0.
1	0210	27	0.01	0.00	0.00	0.	*	1	1440	177	0.00	0.00	0.00	0.
1	0215	28	0.01	0.00	0.00	0.	*	1	1445	178	0.00	0.00	0.00	0.
1	0220	29	0.01	0.01	0.01	0.	*	1	1450	179	0.00	0.00	0.00	0.
1	0225	30	0.01	0.01	0.01	0.	*	1	1455	180	0.00	0.00	0.00	0.
1	0230	31	0.01	0.01	0.01	0.	*	1	1500	181	0.00	0.00	0.00	0.
1	0235	32	0.01	0.01	0.00	0.	*	1	1505	182	0.00	0.00	0.00	0.
1	0240	33	0.01	0.01	0.00	0.	*	1	1510	183	0.00	0.00	0.00	0.
1	0245	34	0.01	0.01	0.00	0.	*	1	1515	184	0.00	0.00	0.00	0.
1	0250	35	0.02	0.01	0.01	0.	*	1	1520	185	0.00	0.00	0.00	0.
1	0255	36	0.02	0.01	0.01	0.	*	1	1525	186	0.00	0.00	0.00	0.
1	0300	37	0.02	0.01	0.01	0.	*	1	1530	187	0.00	0.00	0.00	0.
1	0305	38	0.02	0.01	0.01	0.	*	1	1535	188	0.00	0.00	0.00	0.
1	0310	39	0.02	0.01	0.01	0.	*	1	1540	189	0.00	0.00	0.00	0.
1	0315	40	0.02	0.01	0.01	0.	*	1	1545	190	0.00	0.00	0.00	0.
1	0320	41	0.08	0.05	0.03	1.	*	1	1550	191	0.00	0.00	0.00	0.
1	0325	42	0.08	0.04	0.04	2.	*	1	1555	192	0.00	0.00	0.00	0.
1	0330	43	0.08	0.04	0.04	2.	*	1	1600	193	0.00	0.00	0.00	0.
1	0335	44	0.16	0.03	0.13	4.	*	1	1605	194	0.00	0.00	0.00	0.
1	0340	45	0.16	0.03	0.13	7.	*	1	1610	195	0.00	0.00	0.00	0.
1	0345	46	0.16	0.03	0.13	8.	*	1	1615	196	0.00	0.00	0.00	0.
1	0350	47	0.45	0.03	0.43	14.	*	1	1620	197	0.00	0.00	0.00	0.
1	0355	48	0.45	0.03	0.43	22.	*	1	1625	198	0.00	0.00	0.00	0.
1	0400	49	0.45	0.03	0.43	25.	*	1	1630	199	0.00	0.00	0.00	0.
1	0405	50	0.08	0.03	0.05	19.	*	1	1635	200	0.00	0.00	0.00	0.
1	0410	51	0.08	0.02	0.05	9.	*	1	1640	201	0.00	0.00	0.00	0.
1	0415	52	0.08	0.02	0.05	5.	*	1	1645	202	0.00	0.00	0.00	0.
1	0420	53	0.02	0.01	0.01	3.	*	1	1650	203	0.00	0.00	0.00	0.
1	0425	54	0.02	0.01	0.01	1.	*	1	1655	204	0.00	0.00	0.00	0.
1	0430	55	0.02	0.01	0.01	1.	*	1	1700	205	0.00	0.00	0.00	0.
1	0435	56	0.02	0.01	0.01	1.	*	1	1705	206	0.00	0.00	0.00	0.
1	0440	57	0.02	0.01	0.01	0.	*	1	1710	207	0.00	0.00	0.00	0.
1	0445	58	0.02	0.01	0.01	0.	*	1	1715	208	0.00	0.00	0.00	0.
1	0450	59	0.01	0.01	0.00	0.	*	1	1720	209	0.00	0.00	0.00	0.
1	0455	60	0.01	0.01	0.00	0.	*	1	1725	210	0.00	0.00	0.00	0.
1	0500	61	0.01	0.01	0.00	0.	*	1	1730	211	0.00	0.00	0.00	0.
1	0505	62	0.01	0.01	0.00	0.	*	1	1735	212	0.00	0.00	0.00	0.
1	0510	63	0.01	0.01	0.00	0.	*	1	1740	213	0.00	0.00	0.00	0.
1	0515	64	0.01	0.01	0.00	0.	*	1	1745	214	0.00	0.00	0.00	0.
1	0520	65	0.01	0.01	0.00	0.	*	1	1750	215	0.00	0.00	0.00	0.
1	0525	66	0.01	0.01	0.00	0.	*	1	1755	216	0.00	0.00	0.00	0.
1	0530	67	0.01	0.01	0.00	0.	*	1	1800	217	0.00	0.00	0.00	0.
1	0535	68	0.01	0.00	0.00	0.	*	1	1805	218	0.00	0.00	0.00	0.
1	0540	69	0.01	0.00	0.00	0.	*	1	1810	219	0.00	0.00	0.00	0.
1	0545	70	0.01	0.00	0.00	0.	*	1	1815	220	0.00	0.00	0.00	0.
1	0550	71	0.01	0.01	0.00	0.	*	1	1820	221	0.00	0.00	0.00	0.
1	0555	72	0.01	0.01	0.00	0.	*	1	1825	222	0.00	0.00	0.00	0.
1	0600	73	0.01	0.01	0.00	0.	*	1	1830	223	0.00	0.00	0.00	0.
1	0605	74	0.00	0.00	0.00	0.	*	1	1835	224	0.00	0.00	0.00	0.
1	0610	75	0.00	0.00	0.00	0.	*	1	1840	225	0.00	0.00	0.00	0.
1	0615	76	0.00	0.00	0.00	0.	*	1	1845	226	0.00	0.00	0.00	0.
1	0620	77	0.00	0.00	0.00	0.	*	1	1850	227	0.00	0.00	0.00	0.
1	0625	78	0.00	0.00	0.00	0.	*	1	1855	228	0.00	0.00	0.00	0.
1	0630	79	0.00	0.00	0.00	0.	*	1	1900	229	0.00	0.00	0.00	0.
1	0635	80	0.00	0.00	0.00	0.	*	1	1905	230	0.00	0.00	0.00	0.
1	0640	81	0.00	0.00	0.00	0.	*	1	1910	231	0.00	0.00	0.00	0.
1	0645	82	0.00	0.00	0.00	0.	*	1	1915	232	0.00	0.00	0.00	0.
1	0650	83	0.00	0.00	0.00	0.	*	1	1920	233	0.00	0.00	0.00	0.
1	0655	84	0.00	0.00	0.00	0.	*	1	1925	234	0.00	0.00	0.00	0.
1	0700	85	0.00	0.00	0.00	0.	*	1	1930	235	0.00	0.00	0.00	0.
1	0705	86	0.00	0.00	0.00	0.	*	1	1935	236	0.00	0.00	0.00	0.
1	0710	87	0.00	0.00	0.00	0.	*	1	1940	237	0.00	0.00	0.00	0.
1	0715	88	0.00	0.00	0.00	0.	*	1	1945	238	0.00	0.00	0.00	0.
1	0720	89	0.00	0.00	0.00	0.	*	1	1950	239	0.00	0.00	0.00	0.
1	0725	90	0.00	0.00	0.00	0.	*	1	1955	240	0.00	0.00	0.00	0.
1	0730	91	0.00	0.00	0.00	0.	*	1	2000	241	0.00	0.00	0.00	0.
1	0735	92	0.00	0.00	0.00	0.	*	1	2005	242	0.00	0.00	0.00	0.
1	0740	93	0.00	0.00	0.00	0.	*	1	2010	243	0.00	0.00	0.00	0.
1	0745	94	0.00	0.00	0.00	0.	*	1	2015	244	0.00	0.00	0.00	0.
1	0750	95	0.00	0.00	0.00	0.	*	1	2020	245	0.00	0.00	0.00	0.
1	0755	96	0.00	0.00	0.00	0.	*	1	2025	246	0.00	0.00	0.00	0.
1	0800	97	0.00	0.00	0.00	0.	*	1	2030	247	0.00	0.00	0.00	0.
1	0805	98	0.00	0.00	0.00	0.	*	1	2035	248	0.00	0.00	0.00	0.
1	0810	99	0.00	0.00	0.00	0.	*	1	2040	249	0.00	0.00	0.00	0.
1	0815	100	0.00	0.00	0.00	0.	*	1	2045	250	0.00	0.00	0.00	0.
1	0820	101	0.00	0.00	0.00	0.	*	1	2050	251	0.00	0.00	0.00	0.
1	0825	102	0.00	0.00	0.00	0.	*	1	2055	252	0.00	0.00	0.00	0.
1	0830	103	0.00	0.00	0.00	0.	*	1	2100	253	0.00	0.00	0.00	0.
1	0835	104	0.00	0.00	0.00	0.	*	1	2105	254	0.00	0.00	0.00	0.
1	0840	105	0.00	0.00	0.00	0.	*	1	2110	255	0.00	0.00	0.00	0.

1	0845	106	0.00	0.00	0.00	0.	*	1	2115	256	0.00	0.00	0.00	0.
1	0850	107	0.00	0.00	0.00	0.	*	1	2120	257	0.00	0.00	0.00	0.
1	0855	108	0.00	0.00	0.00	0.	*	1	2125	258	0.00	0.00	0.00	0.
1	0900	109	0.00	0.00	0.00	0.	*	1	2130	259	0.00	0.00	0.00	0.
1	0905	110	0.00	0.00	0.00	0.	*	1	2135	260	0.00	0.00	0.00	0.
1	0910	111	0.00	0.00	0.00	0.	*	1	2140	261	0.00	0.00	0.00	0.
1	0915	112	0.00	0.00	0.00	0.	*	1	2145	262	0.00	0.00	0.00	0.
1	0920	113	0.00	0.00	0.00	0.	*	1	2150	263	0.00	0.00	0.00	0.
1	0925	114	0.00	0.00	0.00	0.	*	1	2155	264	0.00	0.00	0.00	0.
1	0930	115	0.00	0.00	0.00	0.	*	1	2200	265	0.00	0.00	0.00	0.
1	0935	116	0.00	0.00	0.00	0.	*	1	2205	266	0.00	0.00	0.00	0.
1	0940	117	0.00	0.00	0.00	0.	*	1	2210	267	0.00	0.00	0.00	0.
1	0945	118	0.00	0.00	0.00	0.	*	1	2215	268	0.00	0.00	0.00	0.
1	0950	119	0.00	0.00	0.00	0.	*	1	2220	269	0.00	0.00	0.00	0.
1	0955	120	0.00	0.00	0.00	0.	*	1	2225	270	0.00	0.00	0.00	0.
1	1000	121	0.00	0.00	0.00	0.	*	1	2230	271	0.00	0.00	0.00	0.
1	1005	122	0.00	0.00	0.00	0.	*	1	2235	272	0.00	0.00	0.00	0.
1	1010	123	0.00	0.00	0.00	0.	*	1	2240	273	0.00	0.00	0.00	0.
1	1015	124	0.00	0.00	0.00	0.	*	1	2245	274	0.00	0.00	0.00	0.
1	1020	125	0.00	0.00	0.00	0.	*	1	2250	275	0.00	0.00	0.00	0.
1	1025	126	0.00	0.00	0.00	0.	*	1	2255	276	0.00	0.00	0.00	0.
1	1030	127	0.00	0.00	0.00	0.	*	1	2300	277	0.00	0.00	0.00	0.
1	1035	128	0.00	0.00	0.00	0.	*	1	2305	278	0.00	0.00	0.00	0.
1	1040	129	0.00	0.00	0.00	0.	*	1	2310	279	0.00	0.00	0.00	0.
1	1045	130	0.00	0.00	0.00	0.	*	1	2315	280	0.00	0.00	0.00	0.
1	1050	131	0.00	0.00	0.00	0.	*	1	2320	281	0.00	0.00	0.00	0.
1	1055	132	0.00	0.00	0.00	0.	*	1	2325	282	0.00	0.00	0.00	0.
1	1100	133	0.00	0.00	0.00	0.	*	1	2330	283	0.00	0.00	0.00	0.
1	1105	134	0.00	0.00	0.00	0.	*	1	2335	284	0.00	0.00	0.00	0.
1	1110	135	0.00	0.00	0.00	0.	*	1	2340	285	0.00	0.00	0.00	0.
1	1115	136	0.00	0.00	0.00	0.	*	1	2345	286	0.00	0.00	0.00	0.
1	1120	137	0.00	0.00	0.00	0.	*	1	2350	287	0.00	0.00	0.00	0.
1	1125	138	0.00	0.00	0.00	0.	*	1	2355	288	0.00	0.00	0.00	0.
1	1130	139	0.00	0.00	0.00	0.	*	2	0000	289	0.00	0.00	0.00	0.
1	1135	140	0.00	0.00	0.00	0.	*	2	0005	290	0.00	0.00	0.00	0.
1	1140	141	0.00	0.00	0.00	0.	*	2	0010	291	0.00	0.00	0.00	0.
1	1145	142	0.00	0.00	0.00	0.	*	2	0015	292	0.00	0.00	0.00	0.
1	1150	143	0.00	0.00	0.00	0.	*	2	0020	293	0.00	0.00	0.00	0.
1	1155	144	0.00	0.00	0.00	0.	*	2	0025	294	0.00	0.00	0.00	0.
1	1200	145	0.00	0.00	0.00	0.	*	2	0030	295	0.00	0.00	0.00	0.
1	1205	146	0.00	0.00	0.00	0.	*	2	0035	296	0.00	0.00	0.00	0.
1	1210	147	0.00	0.00	0.00	0.	*	2	0040	297	0.00	0.00	0.00	0.
1	1215	148	0.00	0.00	0.00	0.	*	2	0045	298	0.00	0.00	0.00	0.
1	1220	149	0.00	0.00	0.00	0.	*	2	0050	299	0.00	0.00	0.00	0.
1	1225	150	0.00	0.00	0.00	0.	*	2	0055	300	0.00	0.00	0.00	0.
							*							

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TOTAL RAINFALL = 2.98, TOTAL LOSS = 0.78, TOTAL EXCESS = 2.20

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 25.	4.00		2.	0.	0.	0.
		(INCHES)	2.193	2.196	2.196	2.196
		(AC-FT)	1.	1.	1.	1.

CUMULATIVE AREA = 0.01 SQ MI

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HYDROGRAPH AT STATION S202B
PLAN 1, RATIO = 1.00

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	0.	*	1		1230	151	0.	*	1		1845	226	0.
1		0005	2	0.	*	1		0620	77	0.	*	1		1235	152	0.	*	1		1850	227	0.
1		0010	3	0.	*	1		0625	78	0.	*	1		1240	153	0.	*	1		1855	228	0.
1		0015	4	0.	*	1		0630	79	0.	*	1		1245	154	0.	*	1		1900	229	0.
1		0020	5	0.	*	1		0635	80	0.	*	1		1250	155	0.	*	1		1905	230	0.
1		0025	6	0.	*	1		0640	81	0.	*	1		1255	156	0.	*	1		1910	231	0.
1		0030	7	0.	*	1		0645	82	0.	*	1		1300	157	0.	*	1		1915	232	0.
1		0035	8	0.	*	1		0650	83	0.	*	1		1305	158	0.	*	1		1920	233	0.
1		0040	9	0.	*	1		0655	84	0.	*	1		1310	159	0.	*	1		1925	234	0.
1		0045	10	0.	*	1		0700	85	0.	*	1		1315	160	0.	*	1		1930	235	0.
1		0050	11	0.	*	1		0705	86	0.	*	1		1320	161	0.	*	1		1935	236	0.
1		0055	12	0.	*	1		0710	87	0.	*	1		1325	162	0.	*	1		1940	237	0.
1		0100	13	0.	*	1		0715	88	0.	*	1		1330	163	0.	*	1		1945	238	0.
1		0105	14	0.	*	1		0720	89	0.	*	1		1335	164	0.	*	1		1950	239	0.
1		0110	15	0.	*	1		0725	90	0.	*	1		1340	165	0.	*	1		1955	240	0.
1		0115	16	0.	*	1		0730	91	0.	*	1		1345	166	0.	*	1		2000	241	0.
1		0120	17	0.	*	1		0735	92	0.	*	1		1350	167	0.	*	1		2005	242	0.
1		0125	18	0.	*	1		0740	93	0.	*	1		1355	168	0.	*	1		2010	243	0.
1		0130	19	0.	*	1		0745	94	0.	*	1		1400	169	0.	*	1		2015	244	0.
1		0135	20	0.	*	1		0750	95	0.	*	1		1405	170	0.	*	1		2020	245	0.
1		0140	21	0.	*	1		0755	96	0.	*	1		1410	171	0.	*	1		2025	246	0.
1		0145	22	0.	*	1		0800	97	0.	*	1		1415	172	0.	*	1		2030	247	0.
1		0150	23	0.	*	1		0805	98	0.	*	1		1420	173	0.	*	1		2035	248	0.
1		0155	24	0.	*	1		0810	99	0.	*	1		1425	174	0.	*	1		2040	249	0.
1		0200	25	0.	*	1		0815	100	0.	*	1		1430	175	0.	*	1		2045	250	0.

1	0205	26	0.	*	1	0820	101	0.	*	1	1435	176	0.	*	1	2050	251	0.
1	0210	27	0.	*	1	0825	102	0.	*	1	1440	177	0.	*	1	2055	252	0.
1	0215	28	0.	*	1	0830	103	0.	*	1	1445	178	0.	*	1	2100	253	0.
1	0220	29	0.	*	1	0835	104	0.	*	1	1450	179	0.	*	1	2105	254	0.
1	0225	30	0.	*	1	0840	105	0.	*	1	1455	180	0.	*	1	2110	255	0.
1	0230	31	0.	*	1	0845	106	0.	*	1	1500	181	0.	*	1	2115	256	0.
1	0235	32	0.	*	1	0850	107	0.	*	1	1505	182	0.	*	1	2120	257	0.
1	0240	33	0.	*	1	0855	108	0.	*	1	1510	183	0.	*	1	2125	258	0.
1	0245	34	0.	*	1	0900	109	0.	*	1	1515	184	0.	*	1	2130	259	0.
1	0250	35	0.	*	1	0905	110	0.	*	1	1520	185	0.	*	1	2135	260	0.
1	0255	36	0.	*	1	0910	111	0.	*	1	1525	186	0.	*	1	2140	261	0.
1	0300	37	0.	*	1	0915	112	0.	*	1	1530	187	0.	*	1	2145	262	0.
1	0305	38	0.	*	1	0920	113	0.	*	1	1535	188	0.	*	1	2150	263	0.
1	0310	39	0.	*	1	0925	114	0.	*	1	1540	189	0.	*	1	2155	264	0.
1	0315	40	0.	*	1	0930	115	0.	*	1	1545	190	0.	*	1	2200	265	0.
1	0320	41	1.	*	1	0935	116	0.	*	1	1550	191	0.	*	1	2205	266	0.
1	0325	42	2.	*	1	0940	117	0.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	2.	*	1	0945	118	0.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	4.	*	1	0950	119	0.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	7.	*	1	0955	120	0.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	8.	*	1	1000	121	0.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	14.	*	1	1005	122	0.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	22.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	25.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	19.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	9.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	5.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	3.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	1.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	1.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	1.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	0.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	0.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	0.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	0.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	0.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	0.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	0.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	0.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	0.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	0.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	0.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	0.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	0.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	0.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	0.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	0.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	0.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	0.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	0.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 25.	4.00		2.	0.	0.	0.
		(INCHES)	2.193	2.196	2.196	2.196
		(AC-FT)	1.	1.	1.	1.

CUMULATIVE AREA = 0.01 SQ MI

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HYDROGRAPH AT STATION S202B
PLAN 1, RATIO = 0.86

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	0.	*	1		1230	151	0.	*	1		1845	226	0.
1		0005	2	0.	*	1		0620	77	0.	*	1		1235	152	0.	*	1		1850	227	0.
1		0010	3	0.	*	1		0625	78	0.	*	1		1240	153	0.	*	1		1855	228	0.
1		0015	4	0.	*	1		0630	79	0.	*	1		1245	154	0.	*	1		1900	229	0.
1		0020	5	0.	*	1		0635	80	0.	*	1		1250	155	0.	*	1		1905	230	0.
1		0025	6	0.	*	1		0640	81	0.	*	1		1255	156	0.	*	1		1910	231	0.
1		0030	7	0.	*	1		0645	82	0.	*	1		1300	157	0.	*	1		1915	232	0.
1		0035	8	0.	*	1		0650	83	0.	*	1		1305	158	0.	*	1		1920	233	0.
1		0040	9	0.	*	1		0655	84	0.	*	1		1310	159	0.	*	1		1925	234	0.
1		0045	10	0.	*	1		0700	85	0.	*	1		1315	160	0.	*	1		1930	235	0.
1		0050	11	0.	*	1		0705	86	0.	*	1		1320	161	0.	*	1		1935	236	0.
1		0055	12	0.	*	1		0710	87	0.	*	1		1325	162	0.	*	1		1940	237	0.
1		0100	13	0.	*	1		0715	88	0.	*	1		1330	163	0.	*	1		1945	238	0.
1		0105	14	0.	*	1		0720	89	0.	*	1		1335	164	0.	*	1		1950	239	0.
1		0110	15	0.	*	1		0725	90	0.	*	1		1340	165	0.	*	1		1955	240	0.
1		0115	16	0.	*	1		0730	91	0.	*	1		1345	166	0.	*	1		2000	241	0.
1		0120	17	0.	*	1		0735	92	0.	*	1		1350	167	0.	*	1		2005	242	0.
1		0125	18	0.	*	1		0740	93	0.	*	1		1355	168	0.	*	1		2010	243	0.
1		0130	19	0.	*	1		0745	94	0.	*	1		1400	169	0.	*	1		2015	244	0.
1		0135	20	0.	*	1		0750	95	0.	*	1		1405	170	0.	*	1		2020	245	0.
1		0140	21	0.	*	1		0755	96	0.	*	1		1410	171	0.	*	1		2025	246	0.
1		0145	22	0.	*	1		0800	97	0.	*	1		1415	172	0.	*	1		2030	247	0.

1	0150	23	0.	*	1	0805	98	0.	*	1	1420	173	0.	*	1	2035	248	0.
1	0155	24	0.	*	1	0810	99	0.	*	1	1425	174	0.	*	1	2040	249	0.
1	0200	25	0.	*	1	0815	100	0.	*	1	1430	175	0.	*	1	2045	250	0.
1	0205	26	0.	*	1	0820	101	0.	*	1	1435	176	0.	*	1	2050	251	0.
1	0210	27	0.	*	1	0825	102	0.	*	1	1440	177	0.	*	1	2055	252	0.
1	0215	28	0.	*	1	0830	103	0.	*	1	1445	178	0.	*	1	2100	253	0.
1	0220	29	0.	*	1	0835	104	0.	*	1	1450	179	0.	*	1	2105	254	0.
1	0225	30	0.	*	1	0840	105	0.	*	1	1455	180	0.	*	1	2110	255	0.
1	0230	31	0.	*	1	0845	106	0.	*	1	1500	181	0.	*	1	2115	256	0.
1	0235	32	0.	*	1	0850	107	0.	*	1	1505	182	0.	*	1	2120	257	0.
1	0240	33	0.	*	1	0855	108	0.	*	1	1510	183	0.	*	1	2125	258	0.
1	0245	34	0.	*	1	0900	109	0.	*	1	1515	184	0.	*	1	2130	259	0.
1	0250	35	0.	*	1	0905	110	0.	*	1	1520	185	0.	*	1	2135	260	0.
1	0255	36	0.	*	1	0910	111	0.	*	1	1525	186	0.	*	1	2140	261	0.
1	0300	37	0.	*	1	0915	112	0.	*	1	1530	187	0.	*	1	2145	262	0.
1	0305	38	0.	*	1	0920	113	0.	*	1	1535	188	0.	*	1	2150	263	0.
1	0310	39	0.	*	1	0925	114	0.	*	1	1540	189	0.	*	1	2155	264	0.
1	0315	40	0.	*	1	0930	115	0.	*	1	1545	190	0.	*	1	2200	265	0.
1	0320	41	1.	*	1	0935	116	0.	*	1	1550	191	0.	*	1	2205	266	0.
1	0325	42	1.	*	1	0940	117	0.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	2.	*	1	0945	118	0.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	4.	*	1	0950	119	0.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	6.	*	1	0955	120	0.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	6.	*	1	1000	121	0.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	12.	*	1	1005	122	0.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	19.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	22.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	16.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	7.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	4.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	3.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	1.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	1.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	0.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	0.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	0.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	0.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	0.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	0.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	0.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	0.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	0.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	0.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	0.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	0.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	0.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	0.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	0.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	0.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	0.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	0.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	0.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	0.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 22.	4.00		2.	0.	0.	0.
		(INCHES)	1.895	1.897	1.897	1.897
		(AC-FT)	1.	1.	1.	1.

CUMULATIVE AREA = 0.01 SQ MI

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            **************
            *            *
  41 KK     *    S202C   *
            *            *
            **************
                         SUB-BASIN 202c
                         6-HOUR RAINFALL, PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
                         THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .993
                           L =  .44  Kb = .053  Adj. Slope =  136.0

                SUBBASIN RUNOFF DATA

  46 BA           SUBBASIN CHARACTERISTICS
                        TAREA        0.04  SUBBASIN AREA

                  PRECIPITATION DATA

  23 PB                 STORM        2.98  BASIN TOTAL PRECIPITATION

  23 PI             INCREMENTAL PRECIPITATION PATTERN
                      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
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                0.00      0.00      0.00      0.01      0.01      0.01      0.01      0.01      0.01      0.03
                0.03      0.03      0.05      0.05      0.05      0.15      0.15      0.15      0.03      0.03
                0.03      0.01      0.01      0.01      0.01      0.01      0.01      0.00      0.00      0.00
                0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                0.00      0.00

47 LG         GREEN AND AMPT LOSS RATE
                   STRTL        0.10  STARTING LOSS
                     DTH        0.26  MOISTURE DEFICIT
                    PSIF        6.29  WETTING FRONT SUCTION
                   XKSAT        0.17  HYDRAULIC CONDUCTIVITY
                   RTIMP       40.30  PERCENT IMPERVIOUS AREA

48 UC         CLARK UNITGRAPH
                      TC        0.19  TIME OF CONCENTRATION
                       R        0.18  STORAGE COEFFICIENT

49 UA         ACCUMULATED-AREA VS. TIME,  11 ORDINATES
                    0.0       5.0      16.0      30.0      65.0      77.0      84.0      90.0      94.0      97.0
                  100.0

                                                  ***

                                          UNIT HYDROGRAPH PARAMETERS
                                   CLARK   TC=  0.19 HR,        R=  0.18 HR
                                  SNYDER   TP=  0.14 HR,       CP=  0.48

                                          UNIT HYDROGRAPH
                                     13 END-OF-PERIOD ORDINATES
            44.       88.       75.       50.       31.       20.       12.        8.        5.        3.
             2.        1.        1.
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HYDROGRAPH AT STATION S202C

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1		0000	1	0.00	0.00	0.00	0.	*	1		1230	151	0.00	0.00	0.00	0.
1		0005	2	0.01	0.00	0.00	0.	*	1		1235	152	0.00	0.00	0.00	0.
1		0010	3	0.01	0.00	0.00	0.	*	1		1240	153	0.00	0.00	0.00	0.
1		0015	4	0.01	0.00	0.00	1.	*	1		1245	154	0.00	0.00	0.00	0.
1		0020	5	0.01	0.00	0.00	1.	*	1		1250	155	0.00	0.00	0.00	0.
1		0025	6	0.01	0.00	0.00	1.	*	1		1255	156	0.00	0.00	0.00	0.
1		0030	7	0.01	0.00	0.00	1.	*	1		1300	157	0.00	0.00	0.00	0.
1		0035	8	0.01	0.01	0.00	1.	*	1		1305	158	0.00	0.00	0.00	0.
1		0040	9	0.01	0.01	0.00	1.	*	1		1310	159	0.00	0.00	0.00	0.
1		0045	10	0.01	0.01	0.00	1.	*	1		1315	160	0.00	0.00	0.00	0.
1		0050	11	0.01	0.00	0.00	1.	*	1		1320	161	0.00	0.00	0.00	0.
1		0055	12	0.01	0.00	0.00	1.	*	1		1325	162	0.00	0.00	0.00	0.
1		0100	13	0.01	0.00	0.00	1.	*	1		1330	163	0.00	0.00	0.00	0.
1		0105	14	0.01	0.00	0.00	1.	*	1		1335	164	0.00	0.00	0.00	0.
1		0110	15	0.01	0.00	0.00	1.	*	1		1340	165	0.00	0.00	0.00	0.
1		0115	16	0.01	0.00	0.00	1.	*	1		1345	166	0.00	0.00	0.00	0.
1		0120	17	0.01	0.01	0.00	1.	*	1		1350	167	0.00	0.00	0.00	0.
1		0125	18	0.01	0.01	0.00	1.	*	1		1355	168	0.00	0.00	0.00	0.
1		0130	19	0.01	0.01	0.00	1.	*	1		1400	169	0.00	0.00	0.00	0.
1		0135	20	0.01	0.00	0.00	1.	*	1		1405	170	0.00	0.00	0.00	0.
1		0140	21	0.01	0.00	0.00	1.	*	1		1410	171	0.00	0.00	0.00	0.
1		0145	22	0.01	0.00	0.00	1.	*	1		1415	172	0.00	0.00	0.00	0.
1		0150	23	0.01	0.00	0.00	1.	*	1		1420	173	0.00	0.00	0.00	0.
1		0155	24	0.01	0.00	0.00	1.	*	1		1425	174	0.00	0.00	0.00	0.
1		0200	25	0.01	0.00	0.00	1.	*	1		1430	175	0.00	0.00	0.00	0.
1		0205	26	0.01	0.00	0.00	1.	*	1		1435	176	0.00	0.00	0.00	0.
1		0210	27	0.01	0.00	0.00	1.	*	1		1440	177	0.00	0.00	0.00	0.
1		0215	28	0.01	0.00	0.00	1.	*	1		1445	178	0.00	0.00	0.00	0.
1		0220	29	0.01	0.01	0.01	1.	*	1		1450	179	0.00	0.00	0.00	0.
1		0225	30	0.01	0.01	0.01	1.	*	1		1455	180	0.00	0.00	0.00	0.
1		0230	31	0.01	0.01	0.01	2.	*	1		1500	181	0.00	0.00	0.00	0.
1		0235	32	0.01	0.01	0.00	2.	*	1		1505	182	0.00	0.00	0.00	0.
1		0240	33	0.01	0.01	0.00	2.	*	1		1510	183	0.00	0.00	0.00	0.
1		0245	34	0.01	0.01	0.00	2.	*	1		1515	184	0.00	0.00	0.00	0.
1		0250	35	0.02	0.01	0.01	2.	*	1		1520	185	0.00	0.00	0.00	0.
1		0255	36	0.02	0.01	0.01	2.	*	1		1525	186	0.00	0.00	0.00	0.
1		0300	37	0.02	0.01	0.01	2.	*	1		1530	187	0.00	0.00	0.00	0.
1		0305	38	0.02	0.01	0.01	2.	*	1		1535	188	0.00	0.00	0.00	0.
1		0310	39	0.02	0.01	0.01	2.	*	1		1540	189	0.00	0.00	0.00	0.
1		0315	40	0.02	0.01	0.01	3.	*	1		1545	190	0.00	0.00	0.00	0.
1		0320	41	0.08	0.05	0.03	4.	*	1		1550	191	0.00	0.00	0.00	0.
1		0325	42	0.08	0.04	0.04	6.	*	1		1555	192	0.00	0.00	0.00	0.
1		0330	43	0.08	0.04	0.04	8.	*	1		1600	193	0.00	0.00	0.00	0.
1		0335	44	0.16	0.03	0.13	14.	*	1		1605	194	0.00	0.00	0.00	0.
1		0340	45	0.16	0.03	0.13	23.	*	1		1610	195	0.00	0.00	0.00	0.
1		0345	46	0.16	0.03	0.13	31.	*	1		1615	196	0.00	0.00	0.00	0.
1		0350	47	0.45	0.03	0.43	49.	*	1		1620	197	0.00	0.00	0.00	0.
1		0355	48	0.45	0.03	0.43	78.	*	1		1625	198	0.00	0.00	0.00	0.
1		0400	49	0.45	0.03	0.43	102.	*	1		1630	199	0.00	0.00	0.00	0.
1		0405	50	0.08	0.03	0.05	102.	*	1		1635	200	0.00	0.00	0.00	0.
1		0410	51	0.08	0.02	0.05	79.	*	1		1640	201	0.00	0.00	0.00	0.
1		0415	52	0.08	0.02	0.05	57.	*	1		1645	202	0.00	0.00	0.00	0.
1		0420	53	0.02	0.01	0.01	41.	*	1		1650	203	0.00	0.00	0.00	0.
1		0425	54	0.02	0.01	0.01	27.	*	1		1655	204	0.00	0.00	0.00	0.
1		0430	55	0.02	0.01	0.01	18.	*	1		1700	205	0.00	0.00	0.00	0.

1	0435	56	0.02	0.01	0.01	12.	*	1	1705	206	0.00	0.00	0.00	0.
1	0440	57	0.02	0.01	0.01	9.	*	1	1710	207	0.00	0.00	0.00	0.
1	0445	58	0.02	0.01	0.01	6.	*	1	1715	208	0.00	0.00	0.00	0.
1	0450	59	0.01	0.01	0.00	5.	*	1	1720	209	0.00	0.00	0.00	0.
1	0455	60	0.01	0.01	0.00	3.	*	1	1725	210	0.00	0.00	0.00	0.
1	0500	61	0.01	0.01	0.00	3.	*	1	1730	211	0.00	0.00	0.00	0.
1	0505	62	0.01	0.01	0.00	2.	*	1	1735	212	0.00	0.00	0.00	0.
1	0510	63	0.01	0.01	0.00	2.	*	1	1740	213	0.00	0.00	0.00	0.
1	0515	64	0.01	0.01	0.00	2.	*	1	1745	214	0.00	0.00	0.00	0.
1	0520	65	0.01	0.01	0.00	1.	*	1	1750	215	0.00	0.00	0.00	0.
1	0525	66	0.01	0.01	0.00	1.	*	1	1755	216	0.00	0.00	0.00	0.
1	0530	67	0.01	0.01	0.00	1.	*	1	1800	217	0.00	0.00	0.00	0.
1	0535	68	0.01	0.00	0.00	1.	*	1	1805	218	0.00	0.00	0.00	0.
1	0540	69	0.01	0.00	0.00	1.	*	1	1810	219	0.00	0.00	0.00	0.
1	0545	70	0.01	0.00	0.00	1.	*	1	1815	220	0.00	0.00	0.00	0.
1	0550	71	0.01	0.01	0.00	1.	*	1	1820	221	0.00	0.00	0.00	0.
1	0555	72	0.01	0.01	0.00	1.	*	1	1825	222	0.00	0.00	0.00	0.
1	0600	73	0.01	0.01	0.00	1.	*	1	1830	223	0.00	0.00	0.00	0.
1	0605	74	0.00	0.00	0.00	1.	*	1	1835	224	0.00	0.00	0.00	0.
1	0610	75	0.00	0.00	0.00	1.	*	1	1840	225	0.00	0.00	0.00	0.
1	0615	76	0.00	0.00	0.00	0.	*	1	1845	226	0.00	0.00	0.00	0.
1	0620	77	0.00	0.00	0.00	0.	*	1	1850	227	0.00	0.00	0.00	0.
1	0625	78	0.00	0.00	0.00	0.	*	1	1855	228	0.00	0.00	0.00	0.
1	0630	79	0.00	0.00	0.00	0.	*	1	1900	229	0.00	0.00	0.00	0.
1	0635	80	0.00	0.00	0.00	0.	*	1	1905	230	0.00	0.00	0.00	0.
1	0640	81	0.00	0.00	0.00	0.	*	1	1910	231	0.00	0.00	0.00	0.
1	0645	82	0.00	0.00	0.00	0.	*	1	1915	232	0.00	0.00	0.00	0.
1	0650	83	0.00	0.00	0.00	0.	*	1	1920	233	0.00	0.00	0.00	0.
1	0655	84	0.00	0.00	0.00	0.	*	1	1925	234	0.00	0.00	0.00	0.
1	0700	85	0.00	0.00	0.00	0.	*	1	1930	235	0.00	0.00	0.00	0.
1	0705	86	0.00	0.00	0.00	0.	*	1	1935	236	0.00	0.00	0.00	0.
1	0710	87	0.00	0.00	0.00	0.	*	1	1940	237	0.00	0.00	0.00	0.
1	0715	88	0.00	0.00	0.00	0.	*	1	1945	238	0.00	0.00	0.00	0.
1	0720	89	0.00	0.00	0.00	0.	*	1	1950	239	0.00	0.00	0.00	0.
1	0725	90	0.00	0.00	0.00	0.	*	1	1955	240	0.00	0.00	0.00	0.
1	0730	91	0.00	0.00	0.00	0.	*	1	2000	241	0.00	0.00	0.00	0.
1	0735	92	0.00	0.00	0.00	0.	*	1	2005	242	0.00	0.00	0.00	0.
1	0740	93	0.00	0.00	0.00	0.	*	1	2010	243	0.00	0.00	0.00	0.
1	0745	94	0.00	0.00	0.00	0.	*	1	2015	244	0.00	0.00	0.00	0.
1	0750	95	0.00	0.00	0.00	0.	*	1	2020	245	0.00	0.00	0.00	0.
1	0755	96	0.00	0.00	0.00	0.	*	1	2025	246	0.00	0.00	0.00	0.
1	0800	97	0.00	0.00	0.00	0.	*	1	2030	247	0.00	0.00	0.00	0.
1	0805	98	0.00	0.00	0.00	0.	*	1	2035	248	0.00	0.00	0.00	0.
1	0810	99	0.00	0.00	0.00	0.	*	1	2040	249	0.00	0.00	0.00	0.
1	0815	100	0.00	0.00	0.00	0.	*	1	2045	250	0.00	0.00	0.00	0.
1	0820	101	0.00	0.00	0.00	0.	*	1	2050	251	0.00	0.00	0.00	0.
1	0825	102	0.00	0.00	0.00	0.	*	1	2055	252	0.00	0.00	0.00	0.
1	0830	103	0.00	0.00	0.00	0.	*	1	2100	253	0.00	0.00	0.00	0.
1	0835	104	0.00	0.00	0.00	0.	*	1	2105	254	0.00	0.00	0.00	0.
1	0840	105	0.00	0.00	0.00	0.	*	1	2110	255	0.00	0.00	0.00	0.
1	0845	106	0.00	0.00	0.00	0.	*	1	2115	256	0.00	0.00	0.00	0.
1	0850	107	0.00	0.00	0.00	0.	*	1	2120	257	0.00	0.00	0.00	0.
1	0855	108	0.00	0.00	0.00	0.	*	1	2125	258	0.00	0.00	0.00	0.
1	0900	109	0.00	0.00	0.00	0.	*	1	2130	259	0.00	0.00	0.00	0.
1	0905	110	0.00	0.00	0.00	0.	*	1	2135	260	0.00	0.00	0.00	0.
1	0910	111	0.00	0.00	0.00	0.	*	1	2140	261	0.00	0.00	0.00	0.
1	0915	112	0.00	0.00	0.00	0.	*	1	2145	262	0.00	0.00	0.00	0.
1	0920	113	0.00	0.00	0.00	0.	*	1	2150	263	0.00	0.00	0.00	0.
1	0925	114	0.00	0.00	0.00	0.	*	1	2155	264	0.00	0.00	0.00	0.
1	0930	115	0.00	0.00	0.00	0.	*	1	2200	265	0.00	0.00	0.00	0.
1	0935	116	0.00	0.00	0.00	0.	*	1	2205	266	0.00	0.00	0.00	0.
1	0940	117	0.00	0.00	0.00	0.	*	1	2210	267	0.00	0.00	0.00	0.
1	0945	118	0.00	0.00	0.00	0.	*	1	2215	268	0.00	0.00	0.00	0.
1	0950	119	0.00	0.00	0.00	0.	*	1	2220	269	0.00	0.00	0.00	0.
1	0955	120	0.00	0.00	0.00	0.	*	1	2225	270	0.00	0.00	0.00	0.
1	1000	121	0.00	0.00	0.00	0.	*	1	2230	271	0.00	0.00	0.00	0.
1	1005	122	0.00	0.00	0.00	0.	*	1	2235	272	0.00	0.00	0.00	0.
1	1010	123	0.00	0.00	0.00	0.	*	1	2240	273	0.00	0.00	0.00	0.
1	1015	124	0.00	0.00	0.00	0.	*	1	2245	274	0.00	0.00	0.00	0.
1	1020	125	0.00	0.00	0.00	0.	*	1	2250	275	0.00	0.00	0.00	0.
1	1025	126	0.00	0.00	0.00	0.	*	1	2255	276	0.00	0.00	0.00	0.
1	1030	127	0.00	0.00	0.00	0.	*	1	2300	277	0.00	0.00	0.00	0.
1	1035	128	0.00	0.00	0.00	0.	*	1	2305	278	0.00	0.00	0.00	0.
1	1040	129	0.00	0.00	0.00	0.	*	1	2310	279	0.00	0.00	0.00	0.
1	1045	130	0.00	0.00	0.00	0.	*	1	2315	280	0.00	0.00	0.00	0.
1	1050	131	0.00	0.00	0.00	0.	*	1	2320	281	0.00	0.00	0.00	0.
1	1055	132	0.00	0.00	0.00	0.	*	1	2325	282	0.00	0.00	0.00	0.
1	1100	133	0.00	0.00	0.00	0.	*	1	2330	283	0.00	0.00	0.00	0.
1	1105	134	0.00	0.00	0.00	0.	*	1	2335	284	0.00	0.00	0.00	0.
1	1110	135	0.00	0.00	0.00	0.	*	1	2340	285	0.00	0.00	0.00	0.
1	1115	136	0.00	0.00	0.00	0.	*	1	2345	286	0.00	0.00	0.00	0.
1	1120	137	0.00	0.00	0.00	0.	*	1	2350	287	0.00	0.00	0.00	0.
1	1125	138	0.00	0.00	0.00	0.	*	1	2355	288	0.00	0.00	0.00	0.
1	1130	139	0.00	0.00	0.00	0.	*	2	0000	289	0.00	0.00	0.00	0.
1	1135	140	0.00	0.00	0.00	0.	*	2	0005	290	0.00	0.00	0.00	0.
1	1140	141	0.00	0.00	0.00	0.	*	2	0010	291	0.00	0.00	0.00	0.
1	1145	142	0.00	0.00	0.00	0.	*	2	0015	292	0.00	0.00	0.00	0.
1	1150	143	0.00	0.00	0.00	0.	*	2	0020	293	0.00	0.00	0.00	0.
1	1155	144	0.00	0.00	0.00	0.	*	2	0025	294	0.00	0.00	0.00	0.
1	1200	145	0.00	0.00	0.00	0.	*	2	0030	295	0.00	0.00	0.00	0.
1	1205	146	0.00	0.00	0.00	0.	*	2	0035	296	0.00	0.00	0.00	0.
1	1210	147	0.00	0.00	0.00	0.	*	2	0040	297	0.00	0.00	0.00	0.
1	1215	148	0.00	0.00	0.00	0.	*	2	0045	298	0.00	0.00	0.00	0.
1	1220	149	0.00	0.00	0.00	0.	*	2	0050	299	0.00	0.00	0.00	0.
1	1225	150	0.00	0.00	0.00	0.	*	2	0055	300	0.00	0.00	0.00	0.

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     TOTAL RAINFALL =    2.98, TOTAL LOSS =    0.78, TOTAL EXCESS =    2.20

   PEAK FLOW       TIME                              MAXIMUM AVERAGE FLOW
                                            6-HR        24-HR        72-HR        24.92-HR
 +   (CFS)         (HR)
                                (CFS)
 +     102.        4.00                      10.          3.           3.             3.
                              (INCHES)      2.189        2.195        2.195          2.195
                               (AC-FT)        5.           5.           5.             5.

                              CUMULATIVE AREA =    0.04 SQ MI

*************************************************************************************************************************************

                                                 HYDROGRAPH AT STATION     S202C
                                                     PLAN 1,    RATIO =  1.00

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DA MON	HRMN	ORD	FLOW	DA MON	HRMN	ORD	FLOW	DA MON	HRMN	ORD	FLOW	DA MON	HRMN	ORD	FLOW
1	0000	1	0.	1	0615	76	0.	1	1230	151	0.	1	1845	226	0.
1	0005	2	0.	1	0620	77	0.	1	1235	152	0.	1	1850	227	0.
1	0010	3	0.	1	0625	78	0.	1	1240	153	0.	1	1855	228	0.
1	0015	4	1.	1	0630	79	0.	1	1245	154	0.	1	1900	229	0.
1	0020	5	1.	1	0635	80	0.	1	1250	155	0.	1	1905	230	0.
1	0025	6	1.	1	0640	81	0.	1	1255	156	0.	1	1910	231	0.
1	0030	7	1.	1	0645	82	0.	1	1300	157	0.	1	1915	232	0.
1	0035	8	1.	1	0650	83	0.	1	1305	158	0.	1	1920	233	0.
1	0040	9	1.	1	0655	84	0.	1	1310	159	0.	1	1925	234	0.
1	0045	10	1.	1	0700	85	0.	1	1315	160	0.	1	1930	235	0.
1	0050	11	1.	1	0705	86	0.	1	1320	161	0.	1	1935	236	0.
1	0055	12	1.	1	0710	87	0.	1	1325	162	0.	1	1940	237	0.
1	0100	13	1.	1	0715	88	0.	1	1330	163	0.	1	1945	238	0.
1	0105	14	1.	1	0720	89	0.	1	1335	164	0.	1	1950	239	0.
1	0110	15	1.	1	0725	90	0.	1	1340	165	0.	1	1955	240	0.
1	0115	16	1.	1	0730	91	0.	1	1345	166	0.	1	2000	241	0.
1	0120	17	1.	1	0735	92	0.	1	1350	167	0.	1	2005	242	0.
1	0125	18	1.	1	0740	93	0.	1	1355	168	0.	1	2010	243	0.
1	0130	19	1.	1	0745	94	0.	1	1400	169	0.	1	2015	244	0.
1	0135	20	1.	1	0750	95	0.	1	1405	170	0.	1	2020	245	0.
1	0140	21	1.	1	0755	96	0.	1	1410	171	0.	1	2025	246	0.
1	0145	22	1.	1	0800	97	0.	1	1415	172	0.	1	2030	247	0.
1	0150	23	1.	1	0805	98	0.	1	1420	173	0.	1	2035	248	0.
1	0155	24	1.	1	0810	99	0.	1	1425	174	0.	1	2040	249	0.
1	0200	25	1.	1	0815	100	0.	1	1430	175	0.	1	2045	250	0.
1	0205	26	1.	1	0820	101	0.	1	1435	176	0.	1	2050	251	0.
1	0210	27	1.	1	0825	102	0.	1	1440	177	0.	1	2055	252	0.
1	0215	28	1.	1	0830	103	0.	1	1445	178	0.	1	2100	253	0.
1	0220	29	1.	1	0835	104	0.	1	1450	179	0.	1	2105	254	0.
1	0225	30	1.	1	0840	105	0.	1	1455	180	0.	1	2110	255	0.
1	0230	31	2.	1	0845	106	0.	1	1500	181	0.	1	2115	256	0.
1	0235	32	2.	1	0850	107	0.	1	1505	182	0.	1	2120	257	0.
1	0240	33	2.	1	0855	108	0.	1	1510	183	0.	1	2125	258	0.
1	0245	34	2.	1	0900	109	0.	1	1515	184	0.	1	2130	259	0.
1	0250	35	2.	1	0905	110	0.	1	1520	185	0.	1	2135	260	0.
1	0255	36	2.	1	0910	111	0.	1	1525	186	0.	1	2140	261	0.
1	0300	37	2.	1	0915	112	0.	1	1530	187	0.	1	2145	262	0.
1	0305	38	2.	1	0920	113	0.	1	1535	188	0.	1	2150	263	0.
1	0310	39	2.	1	0925	114	0.	1	1540	189	0.	1	2155	264	0.
1	0315	40	3.	1	0930	115	0.	1	1545	190	0.	1	2200	265	0.
1	0320	41	4.	1	0935	116	0.	1	1550	191	0.	1	2205	266	0.
1	0325	42	6.	1	0940	117	0.	1	1555	192	0.	1	2210	267	0.
1	0330	43	8.	1	0945	118	0.	1	1600	193	0.	1	2215	268	0.
1	0335	44	14.	1	0950	119	0.	1	1605	194	0.	1	2220	269	0.
1	0340	45	23.	1	0955	120	0.	1	1610	195	0.	1	2225	270	0.
1	0345	46	31.	1	1000	121	0.	1	1615	196	0.	1	2230	271	0.
1	0350	47	49.	1	1005	122	0.	1	1620	197	0.	1	2235	272	0.
1	0355	48	78.	1	1010	123	0.	1	1625	198	0.	1	2240	273	0.
1	0400	49	102.	1	1015	124	0.	1	1630	199	0.	1	2245	274	0.
1	0405	50	102.	1	1020	125	0.	1	1635	200	0.	1	2250	275	0.
1	0410	51	79.	1	1025	126	0.	1	1640	201	0.	1	2255	276	0.
1	0415	52	57.	1	1030	127	0.	1	1645	202	0.	1	2300	277	0.
1	0420	53	41.	1	1035	128	0.	1	1650	203	0.	1	2305	278	0.
1	0425	54	27.	1	1040	129	0.	1	1655	204	0.	1	2310	279	0.
1	0430	55	18.	1	1045	130	0.	1	1700	205	0.	1	2315	280	0.
1	0435	56	12.	1	1050	131	0.	1	1705	206	0.	1	2320	281	0.
1	0440	57	9.	1	1055	132	0.	1	1710	207	0.	1	2325	282	0.
1	0445	58	6.	1	1100	133	0.	1	1715	208	0.	1	2330	283	0.
1	0450	59	5.	1	1105	134	0.	1	1720	209	0.	1	2335	284	0.
1	0455	60	3.	1	1110	135	0.	1	1725	210	0.	1	2340	285	0.
1	0500	61	3.	1	1115	136	0.	1	1730	211	0.	1	2345	286	0.
1	0505	62	2.	1	1120	137	0.	1	1735	212	0.	1	2350	287	0.
1	0510	63	2.	1	1125	138	0.	1	1740	213	0.	1	2355	288	0.
1	0515	64	2.	1	1130	139	0.	1	1745	214	0.	2	0000	289	0.
1	0520	65	1.	1	1135	140	0.	1	1750	215	0.	2	0005	290	0.
1	0525	66	1.	1	1140	141	0.	1	1755	216	0.	2	0010	291	0.
1	0530	67	1.	1	1145	142	0.	1	1800	217	0.	2	0015	292	0.
1	0535	68	1.	1	1150	143	0.	1	1805	218	0.	2	0020	293	0.
1	0540	69	1.	1	1155	144	0.	1	1810	219	0.	2	0025	294	0.
1	0545	70	1.	1	1200	145	0.	1	1815	220	0.	2	0030	295	0.

1	0550	71	1.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	1.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	1.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	1.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	1.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.

****

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 102.	4.00		10.	3.	3.	3.
		(INCHES)	2.189	2.195	2.195	2.195
		(AC-FT)	5.	5.	5.	5.

CUMULATIVE AREA = 0.04 SQ MI

****

HYDROGRAPH AT STATION S202C
PLAN 1, RATIO = 0.86

****

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	0.	*	1		1230	151	0.	*	1		1845	226	0.
1		0005	2	0.	*	1		0620	77	0.	*	1		1235	152	0.	*	1		1850	227	0.
1		0010	3	0.	*	1		0625	78	0.	*	1		1240	153	0.	*	1		1855	228	0.
1		0015	4	1.	*	1		0630	79	0.	*	1		1245	154	0.	*	1		1900	229	0.
1		0020	5	1.	*	1		0635	80	0.	*	1		1250	155	0.	*	1		1905	230	0.
1		0025	6	1.	*	1		0640	81	0.	*	1		1255	156	0.	*	1		1910	231	0.
1		0030	7	1.	*	1		0645	82	0.	*	1		1300	157	0.	*	1		1915	232	0.
1		0035	8	1.	*	1		0650	83	0.	*	1		1305	158	0.	*	1		1920	233	0.
1		0040	9	1.	*	1		0655	84	0.	*	1		1310	159	0.	*	1		1925	234	0.
1		0045	10	1.	*	1		0700	85	0.	*	1		1315	160	0.	*	1		1930	235	0.
1		0050	11	1.	*	1		0705	86	0.	*	1		1320	161	0.	*	1		1935	236	0.
1		0055	12	1.	*	1		0710	87	0.	*	1		1325	162	0.	*	1		1940	237	0.
1		0100	13	1.	*	1		0715	88	0.	*	1		1330	163	0.	*	1		1945	238	0.
1		0105	14	1.	*	1		0720	89	0.	*	1		1335	164	0.	*	1		1950	239	0.
1		0110	15	1.	*	1		0725	90	0.	*	1		1340	165	0.	*	1		1955	240	0.
1		0115	16	1.	*	1		0730	91	0.	*	1		1345	166	0.	*	1		2000	241	0.
1		0120	17	1.	*	1		0735	92	0.	*	1		1350	167	0.	*	1		2005	242	0.
1		0125	18	1.	*	1		0740	93	0.	*	1		1355	168	0.	*	1		2010	243	0.
1		0130	19	1.	*	1		0745	94	0.	*	1		1400	169	0.	*	1		2015	244	0.
1		0135	20	1.	*	1		0750	95	0.	*	1		1405	170	0.	*	1		2020	245	0.
1		0140	21	1.	*	1		0755	96	0.	*	1		1410	171	0.	*	1		2025	246	0.
1		0145	22	1.	*	1		0800	97	0.	*	1		1415	172	0.	*	1		2030	247	0.
1		0150	23	1.	*	1		0805	98	0.	*	1		1420	173	0.	*	1		2035	248	0.
1		0155	24	1.	*	1		0810	99	0.	*	1		1425	174	0.	*	1		2040	249	0.
1		0200	25	1.	*	1		0815	100	0.	*	1		1430	175	0.	*	1		2045	250	0.
1		0205	26	1.	*	1		0820	101	0.	*	1		1435	176	0.	*	1		2050	251	0.
1		0210	27	1.	*	1		0825	102	0.	*	1		1440	177	0.	*	1		2055	252	0.
1		0215	28	1.	*	1		0830	103	0.	*	1		1445	178	0.	*	1		2100	253	0.
1		0220	29	1.	*	1		0835	104	0.	*	1		1450	179	0.	*	1		2105	254	0.
1		0225	30	1.	*	1		0840	105	0.	*	1		1455	180	0.	*	1		2110	255	0.
1		0230	31	1.	*	1		0845	106	0.	*	1		1500	181	0.	*	1		2115	256	0.
1		0235	32	1.	*	1		0850	107	0.	*	1		1505	182	0.	*	1		2120	257	0.
1		0240	33	1.	*	1		0855	108	0.	*	1		1510	183	0.	*	1		2125	258	0.
1		0245	34	1.	*	1		0900	109	0.	*	1		1515	184	0.	*	1		2130	259	0.
1		0250	35	2.	*	1		0905	110	0.	*	1		1520	185	0.	*	1		2135	260	0.
1		0255	36	2.	*	1		0910	111	0.	*	1		1525	186	0.	*	1		2140	261	0.
1		0300	37	2.	*	1		0915	112	0.	*	1		1530	187	0.	*	1		2145	262	0.
1		0305	38	2.	*	1		0920	113	0.	*	1		1535	188	0.	*	1		2150	263	0.
1		0310	39	2.	*	1		0925	114	0.	*	1		1540	189	0.	*	1		2155	264	0.
1		0315	40	2.	*	1		0930	115	0.	*	1		1545	190	0.	*	1		2200	265	0.
1		0320	41	3.	*	1		0935	116	0.	*	1		1550	191	0.	*	1		2205	266	0.
1		0325	42	5.	*	1		0940	117	0.	*	1		1555	192	0.	*	1		2210	267	0.
1		0330	43	7.	*	1		0945	118	0.	*	1		1600	193	0.	*	1		2215	268	0.
1		0335	44	12.	*	1		0950	119	0.	*	1		1605	194	0.	*	1		2220	269	0.
1		0340	45	20.	*	1		0955	120	0.	*	1		1610	195	0.	*	1		2225	270	0.
1		0345	46	26.	*	1		1000	121	0.	*	1		1615	196	0.	*	1		2230	271	0.
1		0350	47	42.	*	1		1005	122	0.	*	1		1620	197	0.	*	1		2235	272	0.
1		0355	48	67.	*	1		1010	123	0.	*	1		1625	198	0.	*	1		2240	273	0.
1		0400	49	89.	*	1		1015	124	0.	*	1		1630	199	0.	*	1		2245	274	0.
1		0405	50	88.	*	1		1020	125	0.	*	1		1635	200	0.	*	1		2250	275	0.
1		0410	51	68.	*	1		1025	126	0.	*	1		1640	201	0.	*	1		2255	276	0.
1		0415	52	49.	*	1		1030	127	0.	*	1		1645	202	0.	*	1		2300	277	0.
1		0420	53	35.	*	1		1035	128	0.	*	1		1650	203	0.	*	1		2305	278	0.
1		0425	54	24.	*	1		1040	129	0.	*	1		1655	204	0.	*	1		2310	279	0.
1		0430	55	16.	*	1		1045	130	0.	*	1		1700	205	0.	*	1		2315	280	0.
1		0435	56	11.	*	1		1050	131	0.	*	1		1705	206	0.	*	1		2320	281	0.
1		0440	57	8.	*	1		1055	132	0.	*	1		1710	207	0.	*	1		2325	282	0.
1		0445	58	6.	*	1		1100	133	0.	*	1		1715	208	0.	*	1		2330	283	0.
1		0450	59	4.	*	1		1105	134	0.	*	1		1720	209	0.	*	1		2335	284	0.
1		0455	60	3.	*	1		1110	135	0.	*	1		1725	210	0.	*	1		2340	285	0.
1		0500	61	2.	*	1		1115	136	0.	*	1		1730	211	0.	*	1		2345	286	0.
1		0505	62	2.	*	1		1120	137	0.	*	1		1735	212	0.	*	1		2350	287	0.
1		0510	63	2.	*	1		1125	138	0.	*	1		1740	213	0.	*	1		2355	288	0.
1		0515	64	1.	*	1		1130	139	0.	*	1		1745	214	0.	*	2		0000	289	0.
1		0520	65	1.	*	1		1135	140	0.	*	1		1750	215	0.	*	2		0005	290	0.
1		0525	66	1.	*	1		1140	141	0.	*	1		1755	216	0.	*	2		0010	291	0.
1		0530	67	1.	*	1		1145	142	0.	*	1		1800	217	0.	*	2		0015	292	0.

```
  1     0535   68        1.  *   1     1150  143        0.  *   1     1805  218        0.  *   2     0020  293        0.
  1     0540   69        1.  *   1     1155  144        0.  *   1     1810  219        0.  *   2     0025  294        0.
  1     0545   70        1.  *   1     1200  145        0.  *   1     1815  220        0.  *   2     0030  295        0.
  1     0550   71        1.  *   1     1205  146        0.  *   1     1820  221        0.  *   2     0035  296        0.
  1     0555   72        1.  *   1     1210  147        0.  *   1     1825  222        0.  *   2     0040  297        0.
  1     0600   73        1.  *   1     1215  148        0.  *   1     1830  223        0.  *   2     0045  298        0.
  1     0605   74        1.  *   1     1220  149        0.  *   1     1835  224        0.  *   2     0050  299        0.
  1     0610   75        1.  *   1     1225  150        0.  *   1     1840  225        0.  *   2     0055  300        0.
                           *                                 *                                 *
*****************************************************************************************************************************

 PEAK FLOW      TIME                          MAXIMUM AVERAGE FLOW
                                      6-HR        24-HR        72-HR      24.92-HR
+   (CFS)       (HR)
                              (CFS)
+     89.       4.00                 9.           2.           2.           2.
                            (INCHES)      1.891        1.896        1.896        1.896
                             (AC-FT)        4.           4.           4.           4.

                            CUMULATIVE AREA =     0.04 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


            **************
            *            *
  51 KK     *     S201A  *
            *            *
            **************
                            SUB-BASIN 201a
                            6-HOUR RAINFALL, PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
                            THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .993
                              L =  .28  Kb = .167  Adj. Slope =  315.0

              SUBBASIN RUNOFF DATA

  56 BA         SUBBASIN CHARACTERISTICS
                      TAREA        0.02  SUBBASIN AREA

                PRECIPITATION DATA

  23 PB               STORM        2.98  BASIN TOTAL PRECIPITATION

  23 PI           INCREMENTAL PRECIPITATION PATTERN
                    0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                    0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                    0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                    0.00      0.00      0.00      0.01      0.01      0.01      0.01      0.01      0.01      0.03
                    0.03      0.03      0.05      0.05      0.05      0.15      0.15      0.15      0.03      0.03
                    0.03      0.01      0.01      0.01      0.01      0.01      0.01      0.00      0.00      0.00
                    0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                    0.00      0.00

  57 LG         GREEN AND AMPT LOSS RATE
                      STRTL        0.25  STARTING LOSS
                        DTH        0.25  MOISTURE DEFICIT
                       PSIF        4.30  WETTING FRONT SUCTION
                      XKSAT        0.40  HYDRAULIC CONDUCTIVITY
                      RTIMP       50.00  PERCENT IMPERVIOUS AREA

  58 UC         CLARK UNITGRAPH
                         TC        0.22  TIME OF CONCENTRATION
                          R        0.22  STORAGE COEFFICIENT

                SYNTHETIC ACCUMULATED-AREA VS. TIME CURVE WILL BE USED

                                                   ***

                                          UNIT HYDROGRAPH PARAMETERS
                                    CLARK   TC=  0.22 HR,       R=  0.22 HR
                                   SNYDER   TP=  0.20 HR,      CP=  0.57

                                          UNIT HYDROGRAPH
                                     16 END-OF-PERIOD ORDINATES
                    9.       28.       36.       29.       20.       13.        9.        6.        4.        3.
                    2.        1.        1.        1.        0.        0.
*****************************************************************************************************************************

                                          HYDROGRAPH AT STATION    S201A

*****************************************************************************************************************************
                                                     *
     DA MON HRMN  ORD    RAIN    LOSS  EXCESS    COMP Q      *     DA MON HRMN  ORD    RAIN    LOSS  EXCESS    COMP Q
                                                     *
      1    0000    1    0.00    0.00    0.00        0.       *      1    1230  151    0.00    0.00    0.00        0.
      1    0005    2    0.01    0.00    0.00        0.       *      1    1235  152    0.00    0.00    0.00        0.
      1    0010    3    0.01    0.00    0.00        0.       *      1    1240  153    0.00    0.00    0.00        0.
      1    0015    4    0.01    0.00    0.00        0.       *      1    1245  154    0.00    0.00    0.00        0.
      1    0020    5    0.01    0.00    0.00        0.       *      1    1250  155    0.00    0.00    0.00        0.
      1    0025    6    0.01    0.00    0.00        0.       *      1    1255  156    0.00    0.00    0.00        0.
      1    0030    7    0.01    0.00    0.00        1.       *      1    1300  157    0.00    0.00    0.00        0.
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1	0035	8	0.01	0.00	0.00	1.	*	1	1305	158	0.00	0.00	0.00	0.
1	0040	9	0.01	0.00	0.00	1.	*	1	1310	159	0.00	0.00	0.00	0.
1	0045	10	0.01	0.00	0.00	1.	*	1	1315	160	0.00	0.00	0.00	0.
1	0050	11	0.01	0.00	0.00	1.	*	1	1320	161	0.00	0.00	0.00	0.
1	0055	12	0.01	0.00	0.00	1.	*	1	1325	162	0.00	0.00	0.00	0.
1	0100	13	0.01	0.00	0.00	1.	*	1	1330	163	0.00	0.00	0.00	0.
1	0105	14	0.01	0.00	0.00	1.	*	1	1335	164	0.00	0.00	0.00	0.
1	0110	15	0.01	0.00	0.00	1.	*	1	1340	165	0.00	0.00	0.00	0.
1	0115	16	0.01	0.00	0.00	1.	*	1	1345	166	0.00	0.00	0.00	0.
1	0120	17	0.01	0.00	0.00	1.	*	1	1350	167	0.00	0.00	0.00	0.
1	0125	18	0.01	0.00	0.00	1.	*	1	1355	168	0.00	0.00	0.00	0.
1	0130	19	0.01	0.00	0.00	1.	*	1	1400	169	0.00	0.00	0.00	0.
1	0135	20	0.01	0.00	0.00	1.	*	1	1405	170	0.00	0.00	0.00	0.
1	0140	21	0.01	0.00	0.00	1.	*	1	1410	171	0.00	0.00	0.00	0.
1	0145	22	0.01	0.00	0.00	1.	*	1	1415	172	0.00	0.00	0.00	0.
1	0150	23	0.01	0.00	0.00	1.	*	1	1420	173	0.00	0.00	0.00	0.
1	0155	24	0.01	0.00	0.00	1.	*	1	1425	174	0.00	0.00	0.00	0.
1	0200	25	0.01	0.00	0.00	1.	*	1	1430	175	0.00	0.00	0.00	0.
1	0205	26	0.01	0.00	0.00	1.	*	1	1435	176	0.00	0.00	0.00	0.
1	0210	27	0.01	0.00	0.00	1.	*	1	1440	177	0.00	0.00	0.00	0.
1	0215	28	0.01	0.00	0.00	1.	*	1	1445	178	0.00	0.00	0.00	0.
1	0220	29	0.01	0.01	0.01	1.	*	1	1450	179	0.00	0.00	0.00	0.
1	0225	30	0.01	0.01	0.01	1.	*	1	1455	180	0.00	0.00	0.00	0.
1	0230	31	0.01	0.01	0.01	1.	*	1	1500	181	0.00	0.00	0.00	0.
1	0235	32	0.01	0.01	0.01	1.	*	1	1505	182	0.00	0.00	0.00	0.
1	0240	33	0.01	0.01	0.01	1.	*	1	1510	183	0.00	0.00	0.00	0.
1	0245	34	0.01	0.01	0.01	1.	*	1	1515	184	0.00	0.00	0.00	0.
1	0250	35	0.02	0.01	0.01	1.	*	1	1520	185	0.00	0.00	0.00	0.
1	0255	36	0.02	0.01	0.01	1.	*	1	1525	186	0.00	0.00	0.00	0.
1	0300	37	0.02	0.01	0.01	1.	*	1	1530	187	0.00	0.00	0.00	0.
1	0305	38	0.02	0.01	0.01	1.	*	1	1535	188	0.00	0.00	0.00	0.
1	0310	39	0.02	0.01	0.01	1.	*	1	1540	189	0.00	0.00	0.00	0.
1	0315	40	0.02	0.01	0.01	1.	*	1	1545	190	0.00	0.00	0.00	0.
1	0320	41	0.08	0.04	0.04	2.	*	1	1550	191	0.00	0.00	0.00	0.
1	0325	42	0.08	0.04	0.04	3.	*	1	1555	192	0.00	0.00	0.00	0.
1	0330	43	0.08	0.04	0.04	4.	*	1	1600	193	0.00	0.00	0.00	0.
1	0335	44	0.16	0.06	0.10	5.	*	1	1605	194	0.00	0.00	0.00	0.
1	0340	45	0.16	0.05	0.11	7.	*	1	1610	195	0.00	0.00	0.00	0.
1	0345	46	0.16	0.04	0.12	10.	*	1	1615	196	0.00	0.00	0.00	0.
1	0350	47	0.45	0.04	0.41	16.	*	1	1620	197	0.00	0.00	0.00	0.
1	0355	48	0.45	0.04	0.42	26.	*	1	1625	198	0.00	0.00	0.00	0.
1	0400	49	0.45	0.04	0.42	38.	*	1	1630	199	0.00	0.00	0.00	0.
1	0405	50	0.08	0.04	0.04	44.	*	1	1635	200	0.00	0.00	0.00	0.
1	0410	51	0.08	0.03	0.04	40.	*	1	1640	201	0.00	0.00	0.00	0.
1	0415	52	0.08	0.03	0.04	31.	*	1	1645	202	0.00	0.00	0.00	0.
1	0420	53	0.02	0.01	0.01	23.	*	1	1650	203	0.00	0.00	0.00	0.
1	0425	54	0.02	0.01	0.01	17.	*	1	1655	204	0.00	0.00	0.00	0.
1	0430	55	0.02	0.01	0.01	12.	*	1	1700	205	0.00	0.00	0.00	0.
1	0435	56	0.02	0.01	0.01	9.	*	1	1705	206	0.00	0.00	0.00	0.
1	0440	57	0.02	0.01	0.01	7.	*	1	1710	207	0.00	0.00	0.00	0.
1	0445	58	0.02	0.01	0.01	5.	*	1	1715	208	0.00	0.00	0.00	0.
1	0450	59	0.01	0.01	0.01	4.	*	1	1720	209	0.00	0.00	0.00	0.
1	0455	60	0.01	0.01	0.01	3.	*	1	1725	210	0.00	0.00	0.00	0.
1	0500	61	0.01	0.01	0.01	2.	*	1	1730	211	0.00	0.00	0.00	0.
1	0505	62	0.01	0.00	0.00	2.	*	1	1735	212	0.00	0.00	0.00	0.
1	0510	63	0.01	0.00	0.00	1.	*	1	1740	213	0.00	0.00	0.00	0.
1	0515	64	0.01	0.00	0.00	1.	*	1	1745	214	0.00	0.00	0.00	0.
1	0520	65	0.01	0.01	0.01	1.	*	1	1750	215	0.00	0.00	0.00	0.
1	0525	66	0.01	0.01	0.01	1.	*	1	1755	216	0.00	0.00	0.00	0.
1	0530	67	0.01	0.01	0.01	1.	*	1	1800	217	0.00	0.00	0.00	0.
1	0535	68	0.01	0.00	0.00	1.	*	1	1805	218	0.00	0.00	0.00	0.
1	0540	69	0.01	0.00	0.00	1.	*	1	1810	219	0.00	0.00	0.00	0.
1	0545	70	0.01	0.00	0.00	1.	*	1	1815	220	0.00	0.00	0.00	0.
1	0550	71	0.01	0.00	0.00	1.	*	1	1820	221	0.00	0.00	0.00	0.
1	0555	72	0.01	0.00	0.00	1.	*	1	1825	222	0.00	0.00	0.00	0.
1	0600	73	0.01	0.00	0.00	1.	*	1	1830	223	0.00	0.00	0.00	0.
1	0605	74	0.00	0.00	0.00	1.	*	1	1835	224	0.00	0.00	0.00	0.
1	0610	75	0.00	0.00	0.00	1.	*	1	1840	225	0.00	0.00	0.00	0.
1	0615	76	0.00	0.00	0.00	0.	*	1	1845	226	0.00	0.00	0.00	0.
1	0620	77	0.00	0.00	0.00	0.	*	1	1850	227	0.00	0.00	0.00	0.
1	0625	78	0.00	0.00	0.00	0.	*	1	1855	228	0.00	0.00	0.00	0.
1	0630	79	0.00	0.00	0.00	0.	*	1	1900	229	0.00	0.00	0.00	0.
1	0635	80	0.00	0.00	0.00	0.	*	1	1905	230	0.00	0.00	0.00	0.
1	0640	81	0.00	0.00	0.00	0.	*	1	1910	231	0.00	0.00	0.00	0.
1	0645	82	0.00	0.00	0.00	0.	*	1	1915	232	0.00	0.00	0.00	0.
1	0650	83	0.00	0.00	0.00	0.	*	1	1920	233	0.00	0.00	0.00	0.
1	0655	84	0.00	0.00	0.00	0.	*	1	1925	234	0.00	0.00	0.00	0.
1	0700	85	0.00	0.00	0.00	0.	*	1	1930	235	0.00	0.00	0.00	0.
1	0705	86	0.00	0.00	0.00	0.	*	1	1935	236	0.00	0.00	0.00	0.
1	0710	87	0.00	0.00	0.00	0.	*	1	1940	237	0.00	0.00	0.00	0.
1	0715	88	0.00	0.00	0.00	0.	*	1	1945	238	0.00	0.00	0.00	0.
1	0720	89	0.00	0.00	0.00	0.	*	1	1950	239	0.00	0.00	0.00	0.
1	0725	90	0.00	0.00	0.00	0.	*	1	1955	240	0.00	0.00	0.00	0.
1	0730	91	0.00	0.00	0.00	0.	*	1	2000	241	0.00	0.00	0.00	0.
1	0735	92	0.00	0.00	0.00	0.	*	1	2005	242	0.00	0.00	0.00	0.
1	0740	93	0.00	0.00	0.00	0.	*	1	2010	243	0.00	0.00	0.00	0.
1	0745	94	0.00	0.00	0.00	0.	*	1	2015	244	0.00	0.00	0.00	0.
1	0750	95	0.00	0.00	0.00	0.	*	1	2020	245	0.00	0.00	0.00	0.
1	0755	96	0.00	0.00	0.00	0.	*	1	2025	246	0.00	0.00	0.00	0.
1	0800	97	0.00	0.00	0.00	0.	*	1	2030	247	0.00	0.00	0.00	0.
1	0805	98	0.00	0.00	0.00	0.	*	1	2035	248	0.00	0.00	0.00	0.
1	0810	99	0.00	0.00	0.00	0.	*	1	2040	249	0.00	0.00	0.00	0.
1	0815	100	0.00	0.00	0.00	0.	*	1	2045	250	0.00	0.00	0.00	0.
1	0820	101	0.00	0.00	0.00	0.	*	1	2050	251	0.00	0.00	0.00	0.
1	0825	102	0.00	0.00	0.00	0.	*	1	2055	252	0.00	0.00	0.00	0.

1	0830	103	0.00	0.00	0.00	0.	*	1	2100	253	0.00	0.00	0.00	0.
1	0835	104	0.00	0.00	0.00	0.	*	1	2105	254	0.00	0.00	0.00	0.
1	0840	105	0.00	0.00	0.00	0.	*	1	2110	255	0.00	0.00	0.00	0.
1	0845	106	0.00	0.00	0.00	0.	*	1	2115	256	0.00	0.00	0.00	0.
1	0850	107	0.00	0.00	0.00	0.	*	1	2120	257	0.00	0.00	0.00	0.
1	0855	108	0.00	0.00	0.00	0.	*	1	2125	258	0.00	0.00	0.00	0.
1	0900	109	0.00	0.00	0.00	0.	*	1	2130	259	0.00	0.00	0.00	0.
1	0905	110	0.00	0.00	0.00	0.	*	1	2135	260	0.00	0.00	0.00	0.
1	0910	111	0.00	0.00	0.00	0.	*	1	2140	261	0.00	0.00	0.00	0.
1	0915	112	0.00	0.00	0.00	0.	*	1	2145	262	0.00	0.00	0.00	0.
1	0920	113	0.00	0.00	0.00	0.	*	1	2150	263	0.00	0.00	0.00	0.
1	0925	114	0.00	0.00	0.00	0.	*	1	2155	264	0.00	0.00	0.00	0.
1	0930	115	0.00	0.00	0.00	0.	*	1	2200	265	0.00	0.00	0.00	0.
1	0935	116	0.00	0.00	0.00	0.	*	1	2205	266	0.00	0.00	0.00	0.
1	0940	117	0.00	0.00	0.00	0.	*	1	2210	267	0.00	0.00	0.00	0.
1	0945	118	0.00	0.00	0.00	0.	*	1	2215	268	0.00	0.00	0.00	0.
1	0950	119	0.00	0.00	0.00	0.	*	1	2220	269	0.00	0.00	0.00	0.
1	0955	120	0.00	0.00	0.00	0.	*	1	2225	270	0.00	0.00	0.00	0.
1	1000	121	0.00	0.00	0.00	0.	*	1	2230	271	0.00	0.00	0.00	0.
1	1005	122	0.00	0.00	0.00	0.	*	1	2235	272	0.00	0.00	0.00	0.
1	1010	123	0.00	0.00	0.00	0.	*	1	2240	273	0.00	0.00	0.00	0.
1	1015	124	0.00	0.00	0.00	0.	*	1	2245	274	0.00	0.00	0.00	0.
1	1020	125	0.00	0.00	0.00	0.	*	1	2250	275	0.00	0.00	0.00	0.
1	1025	126	0.00	0.00	0.00	0.	*	1	2255	276	0.00	0.00	0.00	0.
1	1030	127	0.00	0.00	0.00	0.	*	1	2300	277	0.00	0.00	0.00	0.
1	1035	128	0.00	0.00	0.00	0.	*	1	2305	278	0.00	0.00	0.00	0.
1	1040	129	0.00	0.00	0.00	0.	*	1	2310	279	0.00	0.00	0.00	0.
1	1045	130	0.00	0.00	0.00	0.	*	1	2315	280	0.00	0.00	0.00	0.
1	1050	131	0.00	0.00	0.00	0.	*	1	2320	281	0.00	0.00	0.00	0.
1	1055	132	0.00	0.00	0.00	0.	*	1	2325	282	0.00	0.00	0.00	0.
1	1100	133	0.00	0.00	0.00	0.	*	1	2330	283	0.00	0.00	0.00	0.
1	1105	134	0.00	0.00	0.00	0.	*	1	2335	284	0.00	0.00	0.00	0.
1	1110	135	0.00	0.00	0.00	0.	*	1	2340	285	0.00	0.00	0.00	0.
1	1115	136	0.00	0.00	0.00	0.	*	1	2345	286	0.00	0.00	0.00	0.
1	1120	137	0.00	0.00	0.00	0.	*	1	2350	287	0.00	0.00	0.00	0.
1	1125	138	0.00	0.00	0.00	0.	*	1	2355	288	0.00	0.00	0.00	0.
1	1130	139	0.00	0.00	0.00	0.	*	2	0000	289	0.00	0.00	0.00	0.
1	1135	140	0.00	0.00	0.00	0.	*	2	0005	290	0.00	0.00	0.00	0.
1	1140	141	0.00	0.00	0.00	0.	*	2	0010	291	0.00	0.00	0.00	0.
1	1145	142	0.00	0.00	0.00	0.	*	2	0015	292	0.00	0.00	0.00	0.
1	1150	143	0.00	0.00	0.00	0.	*	2	0020	293	0.00	0.00	0.00	0.
1	1155	144	0.00	0.00	0.00	0.	*	2	0025	294	0.00	0.00	0.00	0.
1	1200	145	0.00	0.00	0.00	0.	*	2	0030	295	0.00	0.00	0.00	0.
1	1205	146	0.00	0.00	0.00	0.	*	2	0035	296	0.00	0.00	0.00	0.
1	1210	147	0.00	0.00	0.00	0.	*	2	0040	297	0.00	0.00	0.00	0.
1	1215	148	0.00	0.00	0.00	0.	*	2	0045	298	0.00	0.00	0.00	0.
1	1220	149	0.00	0.00	0.00	0.	*	2	0050	299	0.00	0.00	0.00	0.
1	1225	150	0.00	0.00	0.00	0.	*	2	0055	300	0.00	0.00	0.00	0.
							*							

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TOTAL RAINFALL = 2.98, TOTAL LOSS = 0.82, TOTAL EXCESS = 2.16

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 44.	4.08		5.	1.	1.	1.
		(INCHES)	2.140	2.149	2.149	2.149
		(AC-FT)	2.	2.	2.	2.

CUMULATIVE AREA = 0.02 SQ MI

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HYDROGRAPH AT STATION S201A
PLAN 1, RATIO = 1.00

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	0.	*	1		1230	151	0.	*	1		1845	226	0.
1		0005	2	0.	*	1		0620	77	0.	*	1		1235	152	0.	*	1		1850	227	0.
1		0010	3	0.	*	1		0625	78	0.	*	1		1240	153	0.	*	1		1855	228	0.
1		0015	4	0.	*	1		0630	79	0.	*	1		1245	154	0.	*	1		1900	229	0.
1		0020	5	0.	*	1		0635	80	0.	*	1		1250	155	0.	*	1		1905	230	0.
1		0025	6	0.	*	1		0640	81	0.	*	1		1255	156	0.	*	1		1910	231	0.
1		0030	7	1.	*	1		0645	82	0.	*	1		1300	157	0.	*	1		1915	232	0.
1		0035	8	1.	*	1		0650	83	0.	*	1		1305	158	0.	*	1		1920	233	0.
1		0040	9	1.	*	1		0655	84	0.	*	1		1310	159	0.	*	1		1925	234	0.
1		0045	10	1.	*	1		0700	85	0.	*	1		1315	160	0.	*	1		1930	235	0.
1		0050	11	1.	*	1		0705	86	0.	*	1		1320	161	0.	*	1		1935	236	0.
1		0055	12	1.	*	1		0710	87	0.	*	1		1325	162	0.	*	1		1940	237	0.
1		0100	13	1.	*	1		0715	88	0.	*	1		1330	163	0.	*	1		1945	238	0.
1		0105	14	1.	*	1		0720	89	0.	*	1		1335	164	0.	*	1		1950	239	0.
1		0110	15	1.	*	1		0725	90	0.	*	1		1340	165	0.	*	1		1955	240	0.
1		0115	16	1.	*	1		0730	91	0.	*	1		1345	166	0.	*	1		2000	241	0.
1		0120	17	1.	*	1		0735	92	0.	*	1		1350	167	0.	*	1		2005	242	0.
1		0125	18	1.	*	1		0740	93	0.	*	1		1355	168	0.	*	1		2010	243	0.
1		0130	19	1.	*	1		0745	94	0.	*	1		1400	169	0.	*	1		2015	244	0.
1		0135	20	1.	*	1		0750	95	0.	*	1		1405	170	0.	*	1		2020	245	0.
1		0140	21	1.	*	1		0755	96	0.	*	1		1410	171	0.	*	1		2025	246	0.
1		0145	22	1.	*	1		0800	97	0.	*	1		1415	172	0.	*	1		2030	247	0.

1	0150	23	1.	*	1	0805	98	0.	*	1	1420	173	0.	*	1	2035	248	0.
1	0155	24	1.	*	1	0810	99	0.	*	1	1425	174	0.	*	1	2040	249	0.
1	0200	25	1.	*	1	0815	100	0.	*	1	1430	175	0.	*	1	2045	250	0.
1	0205	26	1.	*	1	0820	101	0.	*	1	1435	176	0.	*	1	2050	251	0.
1	0210	27	1.	*	1	0825	102	0.	*	1	1440	177	0.	*	1	2055	252	0.
1	0215	28	1.	*	1	0830	103	0.	*	1	1445	178	0.	*	1	2100	253	0.
1	0220	29	1.	*	1	0835	104	0.	*	1	1450	179	0.	*	1	2105	254	0.
1	0225	30	1.	*	1	0840	105	0.	*	1	1455	180	0.	*	1	2110	255	0.
1	0230	31	1.	*	1	0845	106	0.	*	1	1500	181	0.	*	1	2115	256	0.
1	0235	32	1.	*	1	0850	107	0.	*	1	1505	182	0.	*	1	2120	257	0.
1	0240	33	1.	*	1	0855	108	0.	*	1	1510	183	0.	*	1	2125	258	0.
1	0245	34	1.	*	1	0900	109	0.	*	1	1515	184	0.	*	1	2130	259	0.
1	0250	35	1.	*	1	0905	110	0.	*	1	1520	185	0.	*	1	2135	260	0.
1	0255	36	1.	*	1	0910	111	0.	*	1	1525	186	0.	*	1	2140	261	0.
1	0300	37	1.	*	1	0915	112	0.	*	1	1530	187	0.	*	1	2145	262	0.
1	0305	38	1.	*	1	0920	113	0.	*	1	1535	188	0.	*	1	2150	263	0.
1	0310	39	1.	*	1	0925	114	0.	*	1	1540	189	0.	*	1	2155	264	0.
1	0315	40	1.	*	1	0930	115	0.	*	1	1545	190	0.	*	1	2200	265	0.
1	0320	41	2.	*	1	0935	116	0.	*	1	1550	191	0.	*	1	2205	266	0.
1	0325	42	3.	*	1	0940	117	0.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	4.	*	1	0945	118	0.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	5.	*	1	0950	119	0.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	7.	*	1	0955	120	0.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	10.	*	1	1000	121	0.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	16.	*	1	1005	122	0.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	26.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	38.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	44.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	40.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	31.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	23.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	17.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	12.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	9.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	7.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	5.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	4.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	3.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	2.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	2.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	1.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	1.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	1.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	1.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	1.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	1.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	1.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	1.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	1.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	1.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	1.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	1.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	1.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.

****

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 44.	4.08		5.	1.	1.	1.
		(INCHES)	2.140	2.149	2.149	2.149
		(AC-FT)	2.	2.	2.	2.

CUMULATIVE AREA = 0.02 SQ MI

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HYDROGRAPH AT STATION S201A
PLAN 1, RATIO = 0.86

****

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	0.	*	1		1230	151	0.	*	1		1845	226	0.
1		0005	2	0.	*	1		0620	77	0.	*	1		1235	152	0.	*	1		1850	227	0.
1		0010	3	0.	*	1		0625	78	0.	*	1		1240	153	0.	*	1		1855	228	0.
1		0015	4	0.	*	1		0630	79	0.	*	1		1245	154	0.	*	1		1900	229	0.
1		0020	5	0.	*	1		0635	80	0.	*	1		1250	155	0.	*	1		1905	230	0.
1		0025	6	0.	*	1		0640	81	0.	*	1		1255	156	0.	*	1		1910	231	0.
1		0030	7	0.	*	1		0645	82	0.	*	1		1300	157	0.	*	1		1915	232	0.
1		0035	8	0.	*	1		0650	83	0.	*	1		1305	158	0.	*	1		1920	233	0.
1		0040	9	1.	*	1		0655	84	0.	*	1		1310	159	0.	*	1		1925	234	0.
1		0045	10	1.	*	1		0700	85	0.	*	1		1315	160	0.	*	1		1930	235	0.
1		0050	11	1.	*	1		0705	86	0.	*	1		1320	161	0.	*	1		1935	236	0.
1		0055	12	1.	*	1		0710	87	0.	*	1		1325	162	0.	*	1		1940	237	0.
1		0100	13	1.	*	1		0715	88	0.	*	1		1330	163	0.	*	1		1945	238	0.
1		0105	14	1.	*	1		0720	89	0.	*	1		1335	164	0.	*	1		1950	239	0.
1		0110	15	1.	*	1		0725	90	0.	*	1		1340	165	0.	*	1		1955	240	0.
1		0115	16	1.	*	1		0730	91	0.	*	1		1345	166	0.	*	1		2000	241	0.
1		0120	17	1.	*	1		0735	92	0.	*	1		1350	167	0.	*	1		2005	242	0.
1		0125	18	1.	*	1		0740	93	0.	*	1		1355	168	0.	*	1		2010	243	0.
1		0130	19	1.	*	1		0745	94	0.	*	1		1400	169	0.	*	1		2015	244	0.

1	0135	20	1.	*	1	0750	95	0.	*	1	1405	170	0.	*	1	2020	245	0.
1	0140	21	1.	*	1	0755	96	0.	*	1	1410	171	0.	*	1	2025	246	0.
1	0145	22	1.	*	1	0800	97	0.	*	1	1415	172	0.	*	1	2030	247	0.
1	0150	23	1.	*	1	0805	98	0.	*	1	1420	173	0.	*	1	2035	248	0.
1	0155	24	1.	*	1	0810	99	0.	*	1	1425	174	0.	*	1	2040	249	0.
1	0200	25	1.	*	1	0815	100	0.	*	1	1430	175	0.	*	1	2045	250	0.
1	0205	26	1.	*	1	0820	101	0.	*	1	1435	176	0.	*	1	2050	251	0.
1	0210	27	1.	*	1	0825	102	0.	*	1	1440	177	0.	*	1	2055	252	0.
1	0215	28	1.	*	1	0830	103	0.	*	1	1445	178	0.	*	1	2100	253	0.
1	0220	29	1.	*	1	0835	104	0.	*	1	1450	179	0.	*	1	2105	254	0.
1	0225	30	1.	*	1	0840	105	0.	*	1	1455	180	0.	*	1	2110	255	0.
1	0230	31	1.	*	1	0845	106	0.	*	1	1500	181	0.	*	1	2115	256	0.
1	0235	32	1.	*	1	0850	107	0.	*	1	1505	182	0.	*	1	2120	257	0.
1	0240	33	1.	*	1	0855	108	0.	*	1	1510	183	0.	*	1	2125	258	0.
1	0245	34	1.	*	1	0900	109	0.	*	1	1515	184	0.	*	1	2130	259	0.
1	0250	35	1.	*	1	0905	110	0.	*	1	1520	185	0.	*	1	2135	260	0.
1	0255	36	1.	*	1	0910	111	0.	*	1	1525	186	0.	*	1	2140	261	0.
1	0300	37	1.	*	1	0915	112	0.	*	1	1530	187	0.	*	1	2145	262	0.
1	0305	38	1.	*	1	0920	113	0.	*	1	1535	188	0.	*	1	2150	263	0.
1	0310	39	1.	*	1	0925	114	0.	*	1	1540	189	0.	*	1	2155	264	0.
1	0315	40	1.	*	1	0930	115	0.	*	1	1545	190	0.	*	1	2200	265	0.
1	0320	41	2.	*	1	0935	116	0.	*	1	1550	191	0.	*	1	2205	266	0.
1	0325	42	2.	*	1	0940	117	0.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	3.	*	1	0945	118	0.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	4.	*	1	0950	119	0.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	6.	*	1	0955	120	0.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	9.	*	1	1000	121	0.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	13.	*	1	1005	122	0.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	22.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	33.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	38.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	35.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	27.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	20.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	15.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	11.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	8.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	6.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	4.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	3.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	3.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	2.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	2.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	1.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	1.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	1.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	1.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	1.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	1.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	1.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	1.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	1.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	1.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	1.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	1.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	0.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

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*****************************************************************************************************************************

 PEAK FLOW      TIME                          MAXIMUM AVERAGE FLOW
                                      6-HR        24-HR        72-HR      24.92-HR
+   (CFS)       (HR)
                          (CFS)
+      38.      4.08                    4.           1.           1.           1.
                         (INCHES)     1.849        1.856        1.856        1.856
                          (AC-FT)       2.           2.           2.           2.

                         CUMULATIVE AREA =     0.02 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


            **************
            *            *
  59 KK     *    R201A   *
            *            *
            **************
                          ROUTE HYDROGRAPH FROM SUBBASIN 201A THROUGH 201B

              HYDROGRAPH ROUTING DATA

  61 RK         KINEMATIC WAVE STREAM ROUTING
                          L       3770.  CHANNEL LENGTH
                          S      0.0100  SLOPE
                          N       0.025  CHANNEL ROUGHNESS COEFFICIENT
                         CA        0.00  CONTRIBUTING AREA
                      SHAPE        TRAP  CHANNEL SHAPE
                         WD       32.00  BOTTOM WIDTH OR DIAMETER
                          Z        0.50  SIDE SLOPE
                     NDXMIN           2  MINIMUM NUMBER OF DX INTERVALS

                                                    ***
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COMPUTED KINEMATIC PARAMETERS
VARIABLE TIME STEP
(DT SHOWN IS A MINIMUM)

ELEMENT	ALPHA	M	DT (MIN)	DX (FT)	PEAK (CFS)	TIME TO PEAK (MIN)	VOLUME (IN)	MAXIMUM CELERITY (FPS)
MAIN	0.71	1.59	4.11	1256.67	42.26	255.47	2.17	5.25

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.2406E+01 EXCESS=0.0000E+00 OUTFLOW=0.2429E+01 BASIN STORAGE=0.3077E-03 PERCENT ERROR= -1.0

INTERPOLATED TO SPECIFIED COMPUTATION INTERVAL

MAIN	0.71	1.59	5.00	42.18	255.00	2.17

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HYDROGRAPH AT STATION R201A
PLAN 1, RATIO = 1.00

****

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	1.	*	1		1230	151	0.	*	1		1845	226	0.
1		0005	2	0.	*	1		0620	77	1.	*	1		1235	152	0.	*	1		1850	227	0.
1		0010	3	0.	*	1		0625	78	1.	*	1		1240	153	0.	*	1		1855	228	0.
1		0015	4	0.	*	1		0630	79	1.	*	1		1245	154	0.	*	1		1900	229	0.
1		0020	5	0.	*	1		0635	80	1.	*	1		1250	155	0.	*	1		1905	230	0.
1		0025	6	0.	*	1		0640	81	1.	*	1		1255	156	0.	*	1		1910	231	0.
1		0030	7	0.	*	1		0645	82	1.	*	1		1300	157	0.	*	1		1915	232	0.
1		0035	8	0.	*	1		0650	83	1.	*	1		1305	158	0.	*	1		1920	233	0.
1		0040	9	0.	*	1		0655	84	0.	*	1		1310	159	0.	*	1		1925	234	0.
1		0045	10	0.	*	1		0700	85	0.	*	1		1315	160	0.	*	1		1930	235	0.
1		0050	11	0.	*	1		0705	86	0.	*	1		1320	161	0.	*	1		1935	236	0.
1		0055	12	0.	*	1		0710	87	0.	*	1		1325	162	0.	*	1		1940	237	0.
1		0100	13	0.	*	1		0715	88	0.	*	1		1330	163	0.	*	1		1945	238	0.
1		0105	14	0.	*	1		0720	89	0.	*	1		1335	164	0.	*	1		1950	239	0.
1		0110	15	0.	*	1		0725	90	0.	*	1		1340	165	0.	*	1		1955	240	0.
1		0115	16	0.	*	1		0730	91	0.	*	1		1345	166	0.	*	1		2000	241	0.
1		0120	17	0.	*	1		0735	92	0.	*	1		1350	167	0.	*	1		2005	242	0.
1		0125	18	0.	*	1		0740	93	0.	*	1		1355	168	0.	*	1		2010	243	0.
1		0130	19	0.	*	1		0745	94	0.	*	1		1400	169	0.	*	1		2015	244	0.
1		0135	20	1.	*	1		0750	95	0.	*	1		1405	170	0.	*	1		2020	245	0.
1		0140	21	1.	*	1		0755	96	0.	*	1		1410	171	0.	*	1		2025	246	0.
1		0145	22	1.	*	1		0800	97	0.	*	1		1415	172	0.	*	1		2030	247	0.
1		0150	23	1.	*	1		0805	98	0.	*	1		1420	173	0.	*	1		2035	248	0.
1		0155	24	1.	*	1		0810	99	0.	*	1		1425	174	0.	*	1		2040	249	0.
1		0200	25	1.	*	1		0815	100	0.	*	1		1430	175	0.	*	1		2045	250	0.
1		0205	26	1.	*	1		0820	101	0.	*	1		1435	176	0.	*	1		2050	251	0.
1		0210	27	1.	*	1		0825	102	0.	*	1		1440	177	0.	*	1		2055	252	0.
1		0215	28	1.	*	1		0830	103	0.	*	1		1445	178	0.	*	1		2100	253	0.
1		0220	29	1.	*	1		0835	104	0.	*	1		1450	179	0.	*	1		2105	254	0.
1		0225	30	1.	*	1		0840	105	0.	*	1		1455	180	0.	*	1		2110	255	0.
1		0230	31	1.	*	1		0845	106	0.	*	1		1500	181	0.	*	1		2115	256	0.
1		0235	32	1.	*	1		0850	107	0.	*	1		1505	182	0.	*	1		2120	257	0.
1		0240	33	1.	*	1		0855	108	0.	*	1		1510	183	0.	*	1		2125	258	0.
1		0245	34	1.	*	1		0900	109	0.	*	1		1515	184	0.	*	1		2130	259	0.
1		0250	35	1.	*	1		0905	110	0.	*	1		1520	185	0.	*	1		2135	260	0.
1		0255	36	1.	*	1		0910	111	0.	*	1		1525	186	0.	*	1		2140	261	0.
1		0300	37	1.	*	1		0915	112	0.	*	1		1530	187	0.	*	1		2145	262	0.
1		0305	38	1.	*	1		0920	113	0.	*	1		1535	188	0.	*	1		2150	263	0.
1		0310	39	1.	*	1		0925	114	0.	*	1		1540	189	0.	*	1		2155	264	0.
1		0315	40	1.	*	1		0930	115	0.	*	1		1545	190	0.	*	1		2200	265	0.
1		0320	41	1.	*	1		0935	116	0.	*	1		1550	191	0.	*	1		2205	266	0.
1		0325	42	1.	*	1		0940	117	0.	*	1		1555	192	0.	*	1		2210	267	0.
1		0330	43	1.	*	1		0945	118	0.	*	1		1600	193	0.	*	1		2215	268	0.
1		0335	44	1.	*	1		0950	119	0.	*	1		1605	194	0.	*	1		2220	269	0.
1		0340	45	2.	*	1		0955	120	0.	*	1		1610	195	0.	*	1		2225	270	0.
1		0345	46	2.	*	1		1000	121	0.	*	1		1615	196	0.	*	1		2230	271	0.
1		0350	47	4.	*	1		1005	122	0.	*	1		1620	197	0.	*	1		2235	272	0.
1		0355	48	7.	*	1		1010	123	0.	*	1		1625	198	0.	*	1		2240	273	0.
1		0400	49	12.	*	1		1015	124	0.	*	1		1630	199	0.	*	1		2245	274	0.
1		0405	50	24.	*	1		1020	125	0.	*	1		1635	200	0.	*	1		2250	275	0.
1		0410	51	38.	*	1		1025	126	0.	*	1		1640	201	0.	*	1		2255	276	0.
1		0415	52	42.	*	1		1030	127	0.	*	1		1645	202	0.	*	1		2300	277	0.
1		0420	53	37.	*	1		1035	128	0.	*	1		1650	203	0.	*	1		2305	278	0.
1		0425	54	30.	*	1		1040	129	0.	*	1		1655	204	0.	*	1		2310	279	0.
1		0430	55	24.	*	1		1045	130	0.	*	1		1700	205	0.	*	1		2315	280	0.
1		0435	56	19.	*	1		1050	131	0.	*	1		1705	206	0.	*	1		2320	281	0.
1		0440	57	15.	*	1		1055	132	0.	*	1		1710	207	0.	*	1		2325	282	0.
1		0445	58	12.	*	1		1100	133	0.	*	1		1715	208	0.	*	1		2330	283	0.
1		0450	59	9.	*	1		1105	134	0.	*	1		1720	209	0.	*	1		2335	284	0.
1		0455	60	8.	*	1		1110	135	0.	*	1		1725	210	0.	*	1		2340	285	0.
1		0500	61	6.	*	1		1115	136	0.	*	1		1730	211	0.	*	1		2345	286	0.
1		0505	62	5.	*	1		1120	137	0.	*	1		1735	212	0.	*	1		2350	287	0.
1		0510	63	4.	*	1		1125	138	0.	*	1		1740	213	0.	*	1		2355	288	0.
1		0515	64	3.	*	1		1130	139	0.	*	1		1745	214	0.	*	2		0000	289	0.
1		0520	65	3.	*	1		1135	140	0.	*	1		1750	215	0.	*	2		0005	290	0.
1		0525	66	2.	*	1		1140	141	0.	*	1		1755	216	0.	*	2		0010	291	0.
1		0530	67	2.	*	1		1145	142	0.	*	1		1800	217	0.	*	2		0015	292	0.

1	0535	68	2.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	2.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	1.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	1.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	1.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	1.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	1.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	1.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.

****

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 42.	4.25	5.	1.	1.	1.
		(INCHES) 2.145	2.170	2.170	2.170
		(AC-FT) 2.	2.	2.	2.

CUMULATIVE AREA = 0.02 SQ MI

COMPUTED KINEMATIC PARAMETERS
VARIABLE TIME STEP
(DT SHOWN IS A MINIMUM)

ELEMENT	ALPHA	M	DT (MIN)	DX (FT)	PEAK (CFS)	TIME TO PEAK (MIN)	VOLUME (IN)	MAXIMUM CELERITY (FPS)
MAIN	0.71	1.59	4.33	1256.67	36.71	255.60	1.88	4.97

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.2079E+01 EXCESS=0.0000E+00 OUTFLOW=0.2109E+01 BASIN STORAGE=0.3456E-03 PERCENT ERROR= -1.5

INTERPOLATED TO SPECIFIED COMPUTATION INTERVAL

MAIN	0.71	1.59	5.00	36.53	255.00	1.89

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HYDROGRAPH AT STATION R201A
PLAN 1, RATIO = 0.86

****

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	1.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	1.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	1.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	1.	1		1245	154	0.	1		1900	229	0.
1		0020	5	0.	1		0635	80	1.	1		1250	155	0.	1		1905	230	0.
1		0025	6	0.	1		0640	81	1.	1		1255	156	0.	1		1910	231	0.
1		0030	7	0.	1		0645	82	1.	1		1300	157	0.	1		1915	232	0.
1		0035	8	0.	1		0650	83	0.	1		1305	158	0.	1		1920	233	0.
1		0040	9	0.	1		0655	84	0.	1		1310	159	0.	1		1925	234	0.
1		0045	10	0.	1		0700	85	0.	1		1315	160	0.	1		1930	235	0.
1		0050	11	0.	1		0705	86	0.	1		1320	161	0.	1		1935	236	0.
1		0055	12	0.	1		0710	87	0.	1		1325	162	0.	1		1940	237	0.
1		0100	13	0.	1		0715	88	0.	1		1330	163	0.	1		1945	238	0.
1		0105	14	0.	1		0720	89	0.	1		1335	164	0.	1		1950	239	0.
1		0110	15	0.	1		0725	90	0.	1		1340	165	0.	1		1955	240	0.
1		0115	16	0.	1		0730	91	0.	1		1345	166	0.	1		2000	241	0.
1		0120	17	0.	1		0735	92	0.	1		1350	167	0.	1		2005	242	0.
1		0125	18	0.	1		0740	93	0.	1		1355	168	0.	1		2010	243	0.
1		0130	19	0.	1		0745	94	0.	1		1400	169	0.	1		2015	244	0.
1		0135	20	0.	1		0750	95	0.	1		1405	170	0.	1		2020	245	0.
1		0140	21	0.	1		0755	96	0.	1		1410	171	0.	1		2025	246	0.
1		0145	22	1.	1		0800	97	0.	1		1415	172	0.	1		2030	247	0.
1		0150	23	1.	1		0805	98	0.	1		1420	173	0.	1		2035	248	0.
1		0155	24	1.	1		0810	99	0.	1		1425	174	0.	1		2040	249	0.
1		0200	25	1.	1		0815	100	0.	1		1430	175	0.	1		2045	250	0.
1		0205	26	1.	1		0820	101	0.	1		1435	176	0.	1		2050	251	0.
1		0210	27	1.	1		0825	102	0.	1		1440	177	0.	1		2055	252	0.
1		0215	28	1.	1		0830	103	0.	1		1445	178	0.	1		2100	253	0.
1		0220	29	1.	1		0835	104	0.	1		1450	179	0.	1		2105	254	0.
1		0225	30	1.	1		0840	105	0.	1		1455	180	0.	1		2110	255	0.
1		0230	31	1.	1		0845	106	0.	1		1500	181	0.	1		2115	256	0.
1		0235	32	1.	1		0850	107	0.	1		1505	182	0.	1		2120	257	0.
1		0240	33	1.	1		0855	108	0.	1		1510	183	0.	1		2125	258	0.
1		0245	34	1.	1		0900	109	0.	1		1515	184	0.	1		2130	259	0.
1		0250	35	1.	1		0905	110	0.	1		1520	185	0.	1		2135	260	0.
1		0255	36	1.	1		0910	111	0.	1		1525	186	0.	1		2140	261	0.
1		0300	37	1.	1		0915	112	0.	1		1530	187	0.	1		2145	262	0.
1		0305	38	1.	1		0920	113	0.	1		1535	188	0.	1		2150	263	0.
1		0310	39	1.	1		0925	114	0.	1		1540	189	0.	1		2155	264	0.
1		0315	40	1.	1		0930	115	0.	1		1545	190	0.	1		2200	265	0.
1		0320	41	1.	1		0935	116	0.	1		1550	191	0.	1		2205	266	0.
1		0325	42	1.	1		0940	117	0.	1		1555	192	0.	1		2210	267	0.
1		0330	43	1.	1		0945	118	0.	1		1600	193	0.	1		2215	268	0.
1		0335	44	1.	1		0950	119	0.	1		1605	194	0.	1		2220	269	0.
1		0340	45	1.	1		0955	120	0.	1		1610	195	0.	1		2225	270	0.
1		0345	46	2.	1		1000	121	0.	1		1615	196	0.	1		2230	271	0.

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 1    0350  47     3.  *  1   1005  122     0.  *  1   1620  197     0.  *  1   2235  272     0.
 1    0355  48     5.  *  1   1010  123     0.  *  1   1625  198     0.  *  1   2240  273     0.
 1    0400  49    10.  *  1   1015  124     0.  *  1   1630  199     0.  *  1   2245  274     0.
 1    0405  50    20.  *  1   1020  125     0.  *  1   1635  200     0.  *  1   2250  275     0.
 1    0410  51    32.  *  1   1025  126     0.  *  1   1640  201     0.  *  1   2255  276     0.
 1    0415  52    37.  *  1   1030  127     0.  *  1   1645  202     0.  *  1   2300  277     0.
 1    0420  53    33.  *  1   1035  128     0.  *  1   1650  203     0.  *  1   2305  278     0.
 1    0425  54    26.  *  1   1040  129     0.  *  1   1655  204     0.  *  1   2310  279     0.
 1    0430  55    21.  *  1   1045  130     0.  *  1   1700  205     0.  *  1   2315  280     0.
 1    0435  56    17.  *  1   1050  131     0.  *  1   1705  206     0.  *  1   2320  281     0.
 1    0440  57    13.  *  1   1055  132     0.  *  1   1710  207     0.  *  1   2325  282     0.
 1    0445  58    10.  *  1   1100  133     0.  *  1   1715  208     0.  *  1   2330  283     0.
 1    0450  59     8.  *  1   1105  134     0.  *  1   1720  209     0.  *  1   2335  284     0.
 1    0455  60     7.  *  1   1110  135     0.  *  1   1725  210     0.  *  1   2340  285     0.
 1    0500  61     6.  *  1   1115  136     0.  *  1   1730  211     0.  *  1   2345  286     0.
 1    0505  62     5.  *  1   1120  137     0.  *  1   1735  212     0.  *  1   2350  287     0.
 1    0510  63     4.  *  1   1125  138     0.  *  1   1740  213     0.  *  1   2355  288     0.
 1    0515  64     3.  *  1   1130  139     0.  *  1   1745  214     0.  *  2   0000  289     0.
 1    0520  65     3.  *  1   1135  140     0.  *  1   1750  215     0.  *  2   0005  290     0.
 1    0525  66     2.  *  1   1140  141     0.  *  1   1755  216     0.  *  2   0010  291     0.
 1    0530  67     2.  *  1   1145  142     0.  *  1   1800  217     0.  *  2   0015  292     0.
 1    0535  68     2.  *  1   1150  143     0.  *  1   1805  218     0.  *  2   0020  293     0.
 1    0540  69     1.  *  1   1155  144     0.  *  1   1810  219     0.  *  2   0025  294     0.
 1    0545  70     1.  *  1   1200  145     0.  *  1   1815  220     0.  *  2   0030  295     0.
 1    0550  71     1.  *  1   1205  146     0.  *  1   1820  221     0.  *  2   0035  296     0.
 1    0555  72     1.  *  1   1210  147     0.  *  1   1825  222     0.  *  2   0040  297     0.
 1    0600  73     1.  *  1   1215  148     0.  *  1   1830  223     0.  *  2   0045  298     0.
 1    0605  74     1.  *  1   1220  149     0.  *  1   1835  224     0.  *  2   0050  299     0.
 1    0610  75     1.  *  1   1225  150     0.  *  1   1840  225     0.  *  2   0055  300     0.
                      *                       *                       *
*****************************************************************************************************

 PEAK FLOW     TIME                        MAXIMUM AVERAGE FLOW
                                  6-HR        24-HR       72-HR     24.92-HR
+  (CFS)       (HR)
                          (CFS)
+     37.      4.25                4.          1.          1.          1.
                        (INCHES)  1.864       1.887       1.887       1.887
                         (AC-FT)    2.          2.          2.          2.

                        CUMULATIVE AREA =    0.02 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


            **************
            *            *
  62 KK     *    S201B   *
            *            *
            **************
                          SUB-BASIN 201b
                          6-HOUR RAINFALL, PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
                          THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .993
                            L =  .71  Kb = .029  Adj. Slope =  132.0

              SUBBASIN RUNOFF DATA

  67 BA          SUBBASIN CHARACTERISTICS
                       TAREA        0.13  SUBBASIN AREA

                 PRECIPITATION DATA

  23 PB                STORM        2.98  BASIN TOTAL PRECIPITATION

  23 PI            INCREMENTAL PRECIPITATION PATTERN
                     0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                     0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                     0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                     0.00      0.00      0.00      0.01      0.01      0.01      0.01      0.01      0.01      0.03
                     0.03      0.03      0.05      0.05      0.05      0.15      0.15      0.15      0.03      0.03
                     0.03      0.01      0.01      0.01      0.01      0.01      0.01      0.00      0.00      0.00
                     0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                     0.00      0.00

  68 LG          GREEN AND AMPT LOSS RATE
                       STRTL        0.10  STARTING LOSS
                         DTH        0.26  MOISTURE DEFICIT
                        PSIF        6.29  WETTING FRONT SUCTION
                       XKSAT        0.17  HYDRAULIC CONDUCTIVITY
                       RTIMP       40.30  PERCENT IMPERVIOUS AREA

  69 UC          CLARK UNITGRAPH
                          TC        0.18  TIME OF CONCENTRATION
                           R        0.13  STORAGE COEFFICIENT

  70 UA          ACCUMULATED-AREA VS. TIME,  11 ORDINATES
                       0.0       5.0      16.0      30.0      65.0      77.0      84.0      90.0      94.0      97.0
                     100.0

                                                    ***

                                          UNIT HYDROGRAPH PARAMETERS
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CLARK TC= 0.18 HR, R= 0.13 HR
SNYDER TP= 0.13 HR, CP= 0.55

UNIT HYDROGRAPH
10 END-OF-PERIOD ORDINATES

182. 340. 244. 131. 68. 35. 18. 9. 5. 3.

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HYDROGRAPH AT STATION S201B

****

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1		0000	1	0.00	0.00	0.00	0.	*	1		1230	151	0.00	0.00	0.00	0.
1		0005	2	0.01	0.00	0.00	1.	*	1		1235	152	0.00	0.00	0.00	0.
1		0010	3	0.01	0.00	0.00	2.	*	1		1240	153	0.00	0.00	0.00	0.
1		0015	4	0.01	0.00	0.00	2.	*	1		1245	154	0.00	0.00	0.00	0.
1		0020	5	0.01	0.00	0.00	3.	*	1		1250	155	0.00	0.00	0.00	0.
1		0025	6	0.01	0.00	0.00	3.	*	1		1255	156	0.00	0.00	0.00	0.
1		0030	7	0.01	0.00	0.00	3.	*	1		1300	157	0.00	0.00	0.00	0.
1		0035	8	0.01	0.01	0.00	3.	*	1		1305	158	0.00	0.00	0.00	0.
1		0040	9	0.01	0.01	0.00	3.	*	1		1310	159	0.00	0.00	0.00	0.
1		0045	10	0.01	0.01	0.00	4.	*	1		1315	160	0.00	0.00	0.00	0.
1		0050	11	0.01	0.00	0.00	4.	*	1		1320	161	0.00	0.00	0.00	0.
1		0055	12	0.01	0.00	0.00	3.	*	1		1325	162	0.00	0.00	0.00	0.
1		0100	13	0.01	0.00	0.00	3.	*	1		1330	163	0.00	0.00	0.00	0.
1		0105	14	0.01	0.00	0.00	3.	*	1		1335	164	0.00	0.00	0.00	0.
1		0110	15	0.01	0.00	0.00	3.	*	1		1340	165	0.00	0.00	0.00	0.
1		0115	16	0.01	0.00	0.00	3.	*	1		1345	166	0.00	0.00	0.00	0.
1		0120	17	0.01	0.01	0.00	3.	*	1		1350	167	0.00	0.00	0.00	0.
1		0125	18	0.01	0.01	0.00	4.	*	1		1355	168	0.00	0.00	0.00	0.
1		0130	19	0.01	0.01	0.00	4.	*	1		1400	169	0.00	0.00	0.00	0.
1		0135	20	0.01	0.00	0.00	4.	*	1		1405	170	0.00	0.00	0.00	0.
1		0140	21	0.01	0.00	0.00	3.	*	1		1410	171	0.00	0.00	0.00	0.
1		0145	22	0.01	0.00	0.00	3.	*	1		1415	172	0.00	0.00	0.00	0.
1		0150	23	0.01	0.00	0.00	3.	*	1		1420	173	0.00	0.00	0.00	0.
1		0155	24	0.01	0.00	0.00	3.	*	1		1425	174	0.00	0.00	0.00	0.
1		0200	25	0.01	0.00	0.00	3.	*	1		1430	175	0.00	0.00	0.00	0.
1		0205	26	0.01	0.00	0.00	3.	*	1		1435	176	0.00	0.00	0.00	0.
1		0210	27	0.01	0.00	0.00	3.	*	1		1440	177	0.00	0.00	0.00	0.
1		0215	28	0.01	0.00	0.00	3.	*	1		1445	178	0.00	0.00	0.00	0.
1		0220	29	0.01	0.01	0.01	4.	*	1		1450	179	0.00	0.00	0.00	0.
1		0225	30	0.01	0.01	0.01	4.	*	1		1455	180	0.00	0.00	0.00	0.
1		0230	31	0.01	0.01	0.01	5.	*	1		1500	181	0.00	0.00	0.00	0.
1		0235	32	0.01	0.01	0.00	5.	*	1		1505	182	0.00	0.00	0.00	0.
1		0240	33	0.01	0.01	0.00	5.	*	1		1510	183	0.00	0.00	0.00	0.
1		0245	34	0.01	0.01	0.00	5.	*	1		1515	184	0.00	0.00	0.00	0.
1		0250	35	0.02	0.01	0.01	6.	*	1		1520	185	0.00	0.00	0.00	0.
1		0255	36	0.02	0.01	0.01	6.	*	1		1525	186	0.00	0.00	0.00	0.
1		0300	37	0.02	0.01	0.01	7.	*	1		1530	187	0.00	0.00	0.00	0.
1		0305	38	0.02	0.01	0.01	8.	*	1		1535	188	0.00	0.00	0.00	0.
1		0310	39	0.02	0.01	0.01	8.	*	1		1540	189	0.00	0.00	0.00	0.
1		0315	40	0.02	0.01	0.01	8.	*	1		1545	190	0.00	0.00	0.00	0.
1		0320	41	0.08	0.05	0.03	12.	*	1		1550	191	0.00	0.00	0.00	0.
1		0325	42	0.08	0.04	0.04	21.	*	1		1555	192	0.00	0.00	0.00	0.
1		0330	43	0.08	0.04	0.04	29.	*	1		1600	193	0.00	0.00	0.00	0.
1		0335	44	0.16	0.03	0.13	51.	*	1		1605	194	0.00	0.00	0.00	0.
1		0340	45	0.16	0.03	0.13	84.	*	1		1610	195	0.00	0.00	0.00	0.
1		0345	46	0.16	0.03	0.13	107.	*	1		1615	196	0.00	0.00	0.00	0.
1		0350	47	0.45	0.03	0.43	175.	*	1		1620	197	0.00	0.00	0.00	0.
1		0355	48	0.45	0.03	0.43	282.	*	1		1625	198	0.00	0.00	0.00	0.
1		0400	49	0.45	0.03	0.43	358.	*	1		1630	199	0.00	0.00	0.00	0.
1		0405	50	0.08	0.03	0.05	331.	*	1		1635	200	0.00	0.00	0.00	0.
1		0410	51	0.08	0.02	0.05	225.	*	1		1640	201	0.00	0.00	0.00	0.
1		0415	52	0.08	0.02	0.05	144.	*	1		1645	202	0.00	0.00	0.00	0.
1		0420	53	0.02	0.01	0.01	93.	*	1		1650	203	0.00	0.00	0.00	0.
1		0425	54	0.02	0.01	0.01	55.	*	1		1655	204	0.00	0.00	0.00	0.
1		0430	55	0.02	0.01	0.01	33.	*	1		1700	205	0.00	0.00	0.00	0.
1		0435	56	0.02	0.01	0.01	21.	*	1		1705	206	0.00	0.00	0.00	0.
1		0440	57	0.02	0.01	0.01	14.	*	1		1710	207	0.00	0.00	0.00	0.
1		0445	58	0.02	0.01	0.01	10.	*	1		1715	208	0.00	0.00	0.00	0.
1		0450	59	0.01	0.01	0.00	8.	*	1		1720	209	0.00	0.00	0.00	0.
1		0455	60	0.01	0.01	0.00	7.	*	1		1725	210	0.00	0.00	0.00	0.
1		0500	61	0.01	0.01	0.00	6.	*	1		1730	211	0.00	0.00	0.00	0.
1		0505	62	0.01	0.01	0.00	5.	*	1		1735	212	0.00	0.00	0.00	0.
1		0510	63	0.01	0.01	0.00	5.	*	1		1740	213	0.00	0.00	0.00	0.
1		0515	64	0.01	0.01	0.00	4.	*	1		1745	214	0.00	0.00	0.00	0.
1		0520	65	0.01	0.01	0.00	4.	*	1		1750	215	0.00	0.00	0.00	0.
1		0525	66	0.01	0.01	0.00	4.	*	1		1755	216	0.00	0.00	0.00	0.
1		0530	67	0.01	0.01	0.00	4.	*	1		1800	217	0.00	0.00	0.00	0.
1		0535	68	0.01	0.00	0.00	4.	*	1		1805	218	0.00	0.00	0.00	0.
1		0540	69	0.01	0.00	0.00	4.	*	1		1810	219	0.00	0.00	0.00	0.
1		0545	70	0.01	0.00	0.00	4.	*	1		1815	220	0.00	0.00	0.00	0.
1		0550	71	0.01	0.01	0.00	4.	*	1		1820	221	0.00	0.00	0.00	0.
1		0555	72	0.01	0.01	0.00	4.	*	1		1825	222	0.00	0.00	0.00	0.
1		0600	73	0.01	0.01	0.00	4.	*	1		1830	223	0.00	0.00	0.00	0.
1		0605	74	0.00	0.00	0.00	3.	*	1		1835	224	0.00	0.00	0.00	0.
1		0610	75	0.00	0.00	0.00	2.	*	1		1840	225	0.00	0.00	0.00	0.
1		0615	76	0.00	0.00	0.00	1.	*	1		1845	226	0.00	0.00	0.00	0.
1		0620	77	0.00	0.00	0.00	0.	*	1		1850	227	0.00	0.00	0.00	0.
1		0625	78	0.00	0.00	0.00	0.	*	1		1855	228	0.00	0.00	0.00	0.
1		0630	79	0.00	0.00	0.00	0.	*	1		1900	229	0.00	0.00	0.00	0.
1		0635	80	0.00	0.00	0.00	0.	*	1		1905	230	0.00	0.00	0.00	0.

1	0640	81	0.00	0.00	0.00	0.	*	1	1910	231	0.00	0.00	0.00	0.
1	0645	82	0.00	0.00	0.00	0.	*	1	1915	232	0.00	0.00	0.00	0.
1	0650	83	0.00	0.00	0.00	0.	*	1	1920	233	0.00	0.00	0.00	0.
1	0655	84	0.00	0.00	0.00	0.	*	1	1925	234	0.00	0.00	0.00	0.
1	0700	85	0.00	0.00	0.00	0.	*	1	1930	235	0.00	0.00	0.00	0.
1	0705	86	0.00	0.00	0.00	0.	*	1	1935	236	0.00	0.00	0.00	0.
1	0710	87	0.00	0.00	0.00	0.	*	1	1940	237	0.00	0.00	0.00	0.
1	0715	88	0.00	0.00	0.00	0.	*	1	1945	238	0.00	0.00	0.00	0.
1	0720	89	0.00	0.00	0.00	0.	*	1	1950	239	0.00	0.00	0.00	0.
1	0725	90	0.00	0.00	0.00	0.	*	1	1955	240	0.00	0.00	0.00	0.
1	0730	91	0.00	0.00	0.00	0.	*	1	2000	241	0.00	0.00	0.00	0.
1	0735	92	0.00	0.00	0.00	0.	*	1	2005	242	0.00	0.00	0.00	0.
1	0740	93	0.00	0.00	0.00	0.	*	1	2010	243	0.00	0.00	0.00	0.
1	0745	94	0.00	0.00	0.00	0.	*	1	2015	244	0.00	0.00	0.00	0.
1	0750	95	0.00	0.00	0.00	0.	*	1	2020	245	0.00	0.00	0.00	0.
1	0755	96	0.00	0.00	0.00	0.	*	1	2025	246	0.00	0.00	0.00	0.
1	0800	97	0.00	0.00	0.00	0.	*	1	2030	247	0.00	0.00	0.00	0.
1	0805	98	0.00	0.00	0.00	0.	*	1	2035	248	0.00	0.00	0.00	0.
1	0810	99	0.00	0.00	0.00	0.	*	1	2040	249	0.00	0.00	0.00	0.
1	0815	100	0.00	0.00	0.00	0.	*	1	2045	250	0.00	0.00	0.00	0.
1	0820	101	0.00	0.00	0.00	0.	*	1	2050	251	0.00	0.00	0.00	0.
1	0825	102	0.00	0.00	0.00	0.	*	1	2055	252	0.00	0.00	0.00	0.
1	0830	103	0.00	0.00	0.00	0.	*	1	2100	253	0.00	0.00	0.00	0.
1	0835	104	0.00	0.00	0.00	0.	*	1	2105	254	0.00	0.00	0.00	0.
1	0840	105	0.00	0.00	0.00	0.	*	1	2110	255	0.00	0.00	0.00	0.
1	0845	106	0.00	0.00	0.00	0.	*	1	2115	256	0.00	0.00	0.00	0.
1	0850	107	0.00	0.00	0.00	0.	*	1	2120	257	0.00	0.00	0.00	0.
1	0855	108	0.00	0.00	0.00	0.	*	1	2125	258	0.00	0.00	0.00	0.
1	0900	109	0.00	0.00	0.00	0.	*	1	2130	259	0.00	0.00	0.00	0.
1	0905	110	0.00	0.00	0.00	0.	*	1	2135	260	0.00	0.00	0.00	0.
1	0910	111	0.00	0.00	0.00	0.	*	1	2140	261	0.00	0.00	0.00	0.
1	0915	112	0.00	0.00	0.00	0.	*	1	2145	262	0.00	0.00	0.00	0.
1	0920	113	0.00	0.00	0.00	0.	*	1	2150	263	0.00	0.00	0.00	0.
1	0925	114	0.00	0.00	0.00	0.	*	1	2155	264	0.00	0.00	0.00	0.
1	0930	115	0.00	0.00	0.00	0.	*	1	2200	265	0.00	0.00	0.00	0.
1	0935	116	0.00	0.00	0.00	0.	*	1	2205	266	0.00	0.00	0.00	0.
1	0940	117	0.00	0.00	0.00	0.	*	1	2210	267	0.00	0.00	0.00	0.
1	0945	118	0.00	0.00	0.00	0.	*	1	2215	268	0.00	0.00	0.00	0.
1	0950	119	0.00	0.00	0.00	0.	*	1	2220	269	0.00	0.00	0.00	0.
1	0955	120	0.00	0.00	0.00	0.	*	1	2225	270	0.00	0.00	0.00	0.
1	1000	121	0.00	0.00	0.00	0.	*	1	2230	271	0.00	0.00	0.00	0.
1	1005	122	0.00	0.00	0.00	0.	*	1	2235	272	0.00	0.00	0.00	0.
1	1010	123	0.00	0.00	0.00	0.	*	1	2240	273	0.00	0.00	0.00	0.
1	1015	124	0.00	0.00	0.00	0.	*	1	2245	274	0.00	0.00	0.00	0.
1	1020	125	0.00	0.00	0.00	0.	*	1	2250	275	0.00	0.00	0.00	0.
1	1025	126	0.00	0.00	0.00	0.	*	1	2255	276	0.00	0.00	0.00	0.
1	1030	127	0.00	0.00	0.00	0.	*	1	2300	277	0.00	0.00	0.00	0.
1	1035	128	0.00	0.00	0.00	0.	*	1	2305	278	0.00	0.00	0.00	0.
1	1040	129	0.00	0.00	0.00	0.	*	1	2310	279	0.00	0.00	0.00	0.
1	1045	130	0.00	0.00	0.00	0.	*	1	2315	280	0.00	0.00	0.00	0.
1	1050	131	0.00	0.00	0.00	0.	*	1	2320	281	0.00	0.00	0.00	0.
1	1055	132	0.00	0.00	0.00	0.	*	1	2325	282	0.00	0.00	0.00	0.
1	1100	133	0.00	0.00	0.00	0.	*	1	2330	283	0.00	0.00	0.00	0.
1	1105	134	0.00	0.00	0.00	0.	*	1	2335	284	0.00	0.00	0.00	0.
1	1110	135	0.00	0.00	0.00	0.	*	1	2340	285	0.00	0.00	0.00	0.
1	1115	136	0.00	0.00	0.00	0.	*	1	2345	286	0.00	0.00	0.00	0.
1	1120	137	0.00	0.00	0.00	0.	*	1	2350	287	0.00	0.00	0.00	0.
1	1125	138	0.00	0.00	0.00	0.	*	1	2355	288	0.00	0.00	0.00	0.
1	1130	139	0.00	0.00	0.00	0.	*	2	0000	289	0.00	0.00	0.00	0.
1	1135	140	0.00	0.00	0.00	0.	*	2	0005	290	0.00	0.00	0.00	0.
1	1140	141	0.00	0.00	0.00	0.	*	2	0010	291	0.00	0.00	0.00	0.
1	1145	142	0.00	0.00	0.00	0.	*	2	0015	292	0.00	0.00	0.00	0.
1	1150	143	0.00	0.00	0.00	0.	*	2	0020	293	0.00	0.00	0.00	0.
1	1155	144	0.00	0.00	0.00	0.	*	2	0025	294	0.00	0.00	0.00	0.
1	1200	145	0.00	0.00	0.00	0.	*	2	0030	295	0.00	0.00	0.00	0.
1	1205	146	0.00	0.00	0.00	0.	*	2	0035	296	0.00	0.00	0.00	0.
1	1210	147	0.00	0.00	0.00	0.	*	2	0040	297	0.00	0.00	0.00	0.
1	1215	148	0.00	0.00	0.00	0.	*	2	0045	298	0.00	0.00	0.00	0.
1	1220	149	0.00	0.00	0.00	0.	*	2	0050	299	0.00	0.00	0.00	0.
1	1225	150	0.00	0.00	0.00	0.	*	2	0055	300	0.00	0.00	0.00	0.

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TOTAL RAINFALL = 2.98, TOTAL LOSS = 0.78, TOTAL EXCESS = 2.20

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 358.	4.00		32.	8.	8.	8.
		(INCHES)	2.193	2.197	2.197	2.197
		(AC-FT)	16.	16.	16.	16.

CUMULATIVE AREA = 0.13 SQ MI

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HYDROGRAPH AT STATION S201B
PLAN 1, RATIO = 1.00

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DA MON HRMN	ORD	FLOW	*	DA MON HRMN	ORD	FLOW	*	DA MON HRMN	ORD	FLOW	*	DA MON HRMN	ORD	FLOW

1	0000	1	0.	*	1	0615	76	1.	*	1	1230	151	0.	*	1	1845	226	0.
1	0005	2	1.	*	1	0620	77	0.	*	1	1235	152	0.	*	1	1850	227	0.
1	0010	3	2.	*	1	0625	78	0.	*	1	1240	153	0.	*	1	1855	228	0.
1	0015	4	2.	*	1	0630	79	0.	*	1	1245	154	0.	*	1	1900	229	0.
1	0020	5	3.	*	1	0635	80	0.	*	1	1250	155	0.	*	1	1905	230	0.
1	0025	6	3.	*	1	0640	81	0.	*	1	1255	156	0.	*	1	1910	231	0.
1	0030	7	3.	*	1	0645	82	0.	*	1	1300	157	0.	*	1	1915	232	0.
1	0035	8	3.	*	1	0650	83	0.	*	1	1305	158	0.	*	1	1920	233	0.
1	0040	9	3.	*	1	0655	84	0.	*	1	1310	159	0.	*	1	1925	234	0.
1	0045	10	4.	*	1	0700	85	0.	*	1	1315	160	0.	*	1	1930	235	0.
1	0050	11	4.	*	1	0705	86	0.	*	1	1320	161	0.	*	1	1935	236	0.
1	0055	12	3.	*	1	0710	87	0.	*	1	1325	162	0.	*	1	1940	237	0.
1	0100	13	3.	*	1	0715	88	0.	*	1	1330	163	0.	*	1	1945	238	0.
1	0105	14	3.	*	1	0720	89	0.	*	1	1335	164	0.	*	1	1950	239	0.
1	0110	15	3.	*	1	0725	90	0.	*	1	1340	165	0.	*	1	1955	240	0.
1	0115	16	3.	*	1	0730	91	0.	*	1	1345	166	0.	*	1	2000	241	0.
1	0120	17	3.	*	1	0735	92	0.	*	1	1350	167	0.	*	1	2005	242	0.
1	0125	18	4.	*	1	0740	93	0.	*	1	1355	168	0.	*	1	2010	243	0.
1	0130	19	4.	*	1	0745	94	0.	*	1	1400	169	0.	*	1	2015	244	0.
1	0135	20	4.	*	1	0750	95	0.	*	1	1405	170	0.	*	1	2020	245	0.
1	0140	21	3.	*	1	0755	96	0.	*	1	1410	171	0.	*	1	2025	246	0.
1	0145	22	3.	*	1	0800	97	0.	*	1	1415	172	0.	*	1	2030	247	0.
1	0150	23	3.	*	1	0805	98	0.	*	1	1420	173	0.	*	1	2035	248	0.
1	0155	24	3.	*	1	0810	99	0.	*	1	1425	174	0.	*	1	2040	249	0.
1	0200	25	3.	*	1	0815	100	0.	*	1	1430	175	0.	*	1	2045	250	0.
1	0205	26	3.	*	1	0820	101	0.	*	1	1435	176	0.	*	1	2050	251	0.
1	0210	27	3.	*	1	0825	102	0.	*	1	1440	177	0.	*	1	2055	252	0.
1	0215	28	3.	*	1	0830	103	0.	*	1	1445	178	0.	*	1	2100	253	0.
1	0220	29	4.	*	1	0835	104	0.	*	1	1450	179	0.	*	1	2105	254	0.
1	0225	30	4.	*	1	0840	105	0.	*	1	1455	180	0.	*	1	2110	255	0.
1	0230	31	5.	*	1	0845	106	0.	*	1	1500	181	0.	*	1	2115	256	0.
1	0235	32	5.	*	1	0850	107	0.	*	1	1505	182	0.	*	1	2120	257	0.
1	0240	33	5.	*	1	0855	108	0.	*	1	1510	183	0.	*	1	2125	258	0.
1	0245	34	5.	*	1	0900	109	0.	*	1	1515	184	0.	*	1	2130	259	0.
1	0250	35	6.	*	1	0905	110	0.	*	1	1520	185	0.	*	1	2135	260	0.
1	0255	36	6.	*	1	0910	111	0.	*	1	1525	186	0.	*	1	2140	261	0.
1	0300	37	7.	*	1	0915	112	0.	*	1	1530	187	0.	*	1	2145	262	0.
1	0305	38	8.	*	1	0920	113	0.	*	1	1535	188	0.	*	1	2150	263	0.
1	0310	39	8.	*	1	0925	114	0.	*	1	1540	189	0.	*	1	2155	264	0.
1	0315	40	8.	*	1	0930	115	0.	*	1	1545	190	0.	*	1	2200	265	0.
1	0320	41	12.	*	1	0935	116	0.	*	1	1550	191	0.	*	1	2205	266	0.
1	0325	42	21.	*	1	0940	117	0.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	29.	*	1	0945	118	0.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	51.	*	1	0950	119	0.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	84.	*	1	0955	120	0.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	107.	*	1	1000	121	0.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	175.	*	1	1005	122	0.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	282.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	358.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	331.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	225.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	144.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	93.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	55.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	33.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	21.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	14.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	10.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	8.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	7.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	6.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	5.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	5.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	4.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	4.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	4.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	4.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	4.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	4.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	4.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	4.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	4.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	4.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	3.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	2.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)	(CFS)				
+ 358.	4.00		32.	8.	8.	8.
		(INCHES)	2.193	2.197	2.197	2.197
		(AC-FT)	16.	16.	16.	16.

CUMULATIVE AREA = 0.13 SQ MI

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HYDROGRAPH AT STATION S201B
PLAN 1, RATIO = 0.86

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	1.	1		1230	151	0.	1		1845	226	0.
1		0005	2	1.	1		0620	77	0.	1		1235	152	0.	1		1850	227	0.
1		0010	3	1.	1		0625	78	0.	1		1240	153	0.	1		1855	228	0.
1		0015	4	2.	1		0630	79	0.	1		1245	154	0.	1		1900	229	0.
1		0020	5	2.	1		0635	80	0.	1		1250	155	0.	1		1905	230	0.
1		0025	6	3.	1		0640	81	0.	1		1255	156	0.	1		1910	231	0.
1		0030	7	3.	1		0645	82	0.	1		1300	157	0.	1		1915	232	0.
1		0035	8	3.	1		0650	83	0.	1		1305	158	0.	1		1920	233	0.
1		0040	9	3.	1		0655	84	0.	1		1310	159	0.	1		1925	234	0.
1		0045	10	3.	1		0700	85	0.	1		1315	160	0.	1		1930	235	0.
1		0050	11	3.	1		0705	86	0.	1		1320	161	0.	1		1935	236	0.
1		0055	12	3.	1		0710	87	0.	1		1325	162	0.	1		1940	237	0.
1		0100	13	3.	1		0715	88	0.	1		1330	163	0.	1		1945	238	0.
1		0105	14	3.	1		0720	89	0.	1		1335	164	0.	1		1950	239	0.
1		0110	15	3.	1		0725	90	0.	1		1340	165	0.	1		1955	240	0.
1		0115	16	3.	1		0730	91	0.	1		1345	166	0.	1		2000	241	0.
1		0120	17	3.	1		0735	92	0.	1		1350	167	0.	1		2005	242	0.
1		0125	18	3.	1		0740	93	0.	1		1355	168	0.	1		2010	243	0.
1		0130	19	3.	1		0745	94	0.	1		1400	169	0.	1		2015	244	0.
1		0135	20	3.	1		0750	95	0.	1		1405	170	0.	1		2020	245	0.
1		0140	21	3.	1		0755	96	0.	1		1410	171	0.	1		2025	246	0.
1		0145	22	3.	1		0800	97	0.	1		1415	172	0.	1		2030	247	0.
1		0150	23	3.	1		0805	98	0.	1		1420	173	0.	1		2035	248	0.
1		0155	24	3.	1		0810	99	0.	1		1425	174	0.	1		2040	249	0.
1		0200	25	3.	1		0815	100	0.	1		1430	175	0.	1		2045	250	0.
1		0205	26	3.	1		0820	101	0.	1		1435	176	0.	1		2050	251	0.
1		0210	27	3.	1		0825	102	0.	1		1440	177	0.	1		2055	252	0.
1		0215	28	3.	1		0830	103	0.	1		1445	178	0.	1		2100	253	0.
1		0220	29	3.	1		0835	104	0.	1		1450	179	0.	1		2105	254	0.
1		0225	30	4.	1		0840	105	0.	1		1455	180	0.	1		2110	255	0.
1		0230	31	4.	1		0845	106	0.	1		1500	181	0.	1		2115	256	0.
1		0235	32	4.	1		0850	107	0.	1		1505	182	0.	1		2120	257	0.
1		0240	33	4.	1		0855	108	0.	1		1510	183	0.	1		2125	258	0.
1		0245	34	4.	1		0900	109	0.	1		1515	184	0.	1		2130	259	0.
1		0250	35	5.	1		0905	110	0.	1		1520	185	0.	1		2135	260	0.
1		0255	36	6.	1		0910	111	0.	1		1525	186	0.	1		2140	261	0.
1		0300	37	6.	1		0915	112	0.	1		1530	187	0.	1		2145	262	0.
1		0305	38	7.	1		0920	113	0.	1		1535	188	0.	1		2150	263	0.
1		0310	39	7.	1		0925	114	0.	1		1540	189	0.	1		2155	264	0.
1		0315	40	7.	1		0930	115	0.	1		1545	190	0.	1		2200	265	0.
1		0320	41	11.	1		0935	116	0.	1		1550	191	0.	1		2205	266	0.
1		0325	42	18.	1		0940	117	0.	1		1555	192	0.	1		2210	267	0.
1		0330	43	25.	1		0945	118	0.	1		1600	193	0.	1		2215	268	0.
1		0335	44	44.	1		0950	119	0.	1		1605	194	0.	1		2220	269	0.
1		0340	45	72.	1		0955	120	0.	1		1610	195	0.	1		2225	270	0.
1		0345	46	93.	1		1000	121	0.	1		1615	196	0.	1		2230	271	0.
1		0350	47	151.	1		1005	122	0.	1		1620	197	0.	1		2235	272	0.
1		0355	48	244.	1		1010	123	0.	1		1625	198	0.	1		2240	273	0.
1		0400	49	310.	1		1015	124	0.	1		1630	199	0.	1		2245	274	0.
1		0405	50	286.	1		1020	125	0.	1		1635	200	0.	1		2250	275	0.
1		0410	51	194.	1		1025	126	0.	1		1640	201	0.	1		2255	276	0.
1		0415	52	125.	1		1030	127	0.	1		1645	202	0.	1		2300	277	0.
1		0420	53	80.	1		1035	128	0.	1		1650	203	0.	1		2305	278	0.
1		0425	54	48.	1		1040	129	0.	1		1655	204	0.	1		2310	279	0.
1		0430	55	28.	1		1045	130	0.	1		1700	205	0.	1		2315	280	0.
1		0435	56	18.	1		1050	131	0.	1		1705	206	0.	1		2320	281	0.
1		0440	57	12.	1		1055	132	0.	1		1710	207	0.	1		2325	282	0.
1		0445	58	9.	1		1100	133	0.	1		1715	208	0.	1		2330	283	0.
1		0450	59	7.	1		1105	134	0.	1		1720	209	0.	1		2335	284	0.
1		0455	60	6.	1		1110	135	0.	1		1725	210	0.	1		2340	285	0.
1		0500	61	5.	1		1115	136	0.	1		1730	211	0.	1		2345	286	0.
1		0505	62	5.	1		1120	137	0.	1		1735	212	0.	1		2350	287	0.
1		0510	63	4.	1		1125	138	0.	1		1740	213	0.	1		2355	288	0.
1		0515	64	4.	1		1130	139	0.	1		1745	214	0.	2		0000	289	0.
1		0520	65	4.	1		1135	140	0.	1		1750	215	0.	2		0005	290	0.
1		0525	66	4.	1		1140	141	0.	1		1755	216	0.	2		0010	291	0.
1		0530	67	4.	1		1145	142	0.	1		1800	217	0.	2		0015	292	0.
1		0535	68	4.	1		1150	143	0.	1		1805	218	0.	2		0020	293	0.
1		0540	69	3.	1		1155	144	0.	1		1810	219	0.	2		0025	294	0.
1		0545	70	3.	1		1200	145	0.	1		1815	220	0.	2		0030	295	0.
1		0550	71	3.	1		1205	146	0.	1		1820	221	0.	2		0035	296	0.
1		0555	72	3.	1		1210	147	0.	1		1825	222	0.	2		0040	297	0.
1		0600	73	3.	1		1215	148	0.	1		1830	223	0.	2		0045	298	0.
1		0605	74	3.	1		1220	149	0.	1		1835	224	0.	2		0050	299	0.
1		0610	75	2.	1		1225	150	0.	1		1840	225	0.	2		0055	300	0.

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
+		(CFS)				
+ 310.	4.00		27.	7.	7.	7.
		(INCHES)	1.895	1.898	1.898	1.898
		(AC-FT)	14.	14.	14.	14.

CUMULATIVE AREA = 0.13 SQ MI

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              **************
              *            *
72 KK         *     C201   *
              *            *
              **************
                        COMBINE ROUTED HYDROGRAPH FROM SUBBASIN 201A AND HYDROGRAPH FROM 201B

74 HC              HYDROGRAPH COMBINATION
                        ICOMP          2  NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION C201
SUM OF 2 HYDROGRAPHS
PLAN 1, RATIO = 1.00

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	2.	1		1230	151	0.	1		1845	226	0.
1		0005	2	1.	1		0620	77	1.	1		1235	152	0.	1		1850	227	0.
1		0010	3	2.	1		0625	78	1.	1		1240	153	0.	1		1855	228	0.
1		0015	4	2.	1		0630	79	1.	1		1245	154	0.	1		1900	229	0.
1		0020	5	3.	1		0635	80	1.	1		1250	155	0.	1		1905	230	0.
1		0025	6	3.	1		0640	81	1.	1		1255	156	0.	1		1910	231	0.
1		0030	7	3.	1		0645	82	1.	1		1300	157	0.	1		1915	232	0.
1		0035	8	3.	1		0650	83	1.	1		1305	158	0.	1		1920	233	0.
1		0040	9	3.	1		0655	84	0.	1		1310	159	0.	1		1925	234	0.
1		0045	10	4.	1		0700	85	0.	1		1315	160	0.	1		1930	235	0.
1		0050	11	4.	1		0705	86	0.	1		1320	161	0.	1		1935	236	0.
1		0055	12	4.	1		0710	87	0.	1		1325	162	0.	1		1940	237	0.
1		0100	13	3.	1		0715	88	0.	1		1330	163	0.	1		1945	238	0.
1		0105	14	3.	1		0720	89	0.	1		1335	164	0.	1		1950	239	0.
1		0110	15	4.	1		0725	90	0.	1		1340	165	0.	1		1955	240	0.
1		0115	16	4.	1		0730	91	0.	1		1345	166	0.	1		2000	241	0.
1		0120	17	4.	1		0735	92	0.	1		1350	167	0.	1		2005	242	0.
1		0125	18	4.	1		0740	93	0.	1		1355	168	0.	1		2010	243	0.
1		0130	19	4.	1		0745	94	0.	1		1400	169	0.	1		2015	244	0.
1		0135	20	4.	1		0750	95	0.	1		1405	170	0.	1		2020	245	0.
1		0140	21	4.	1		0755	96	0.	1		1410	171	0.	1		2025	246	0.
1		0145	22	4.	1		0800	97	0.	1		1415	172	0.	1		2030	247	0.
1		0150	23	4.	1		0805	98	0.	1		1420	173	0.	1		2035	248	0.
1		0155	24	4.	1		0810	99	0.	1		1425	174	0.	1		2040	249	0.
1		0200	25	4.	1		0815	100	0.	1		1430	175	0.	1		2045	250	0.
1		0205	26	4.	1		0820	101	0.	1		1435	176	0.	1		2050	251	0.
1		0210	27	4.	1		0825	102	0.	1		1440	177	0.	1		2055	252	0.
1		0215	28	4.	1		0830	103	0.	1		1445	178	0.	1		2100	253	0.
1		0220	29	4.	1		0835	104	0.	1		1450	179	0.	1		2105	254	0.
1		0225	30	5.	1		0840	105	0.	1		1455	180	0.	1		2110	255	0.
1		0230	31	6.	1		0845	106	0.	1		1500	181	0.	1		2115	256	0.
1		0235	32	6.	1		0850	107	0.	1		1505	182	0.	1		2120	257	0.
1		0240	33	6.	1		0855	108	0.	1		1510	183	0.	1		2125	258	0.
1		0245	34	6.	1		0900	109	0.	1		1515	184	0.	1		2130	259	0.
1		0250	35	6.	1		0905	110	0.	1		1520	185	0.	1		2135	260	0.
1		0255	36	7.	1		0910	111	0.	1		1525	186	0.	1		2140	261	0.
1		0300	37	8.	1		0915	112	0.	1		1530	187	0.	1		2145	262	0.
1		0305	38	8.	1		0920	113	0.	1		1535	188	0.	1		2150	263	0.
1		0310	39	9.	1		0925	114	0.	1		1540	189	0.	1		2155	264	0.
1		0315	40	9.	1		0930	115	0.	1		1545	190	0.	1		2200	265	0.
1		0320	41	13.	1		0935	116	0.	1		1550	191	0.	1		2205	266	0.
1		0325	42	22.	1		0940	117	0.	1		1555	192	0.	1		2210	267	0.
1		0330	43	31.	1		0945	118	0.	1		1600	193	0.	1		2215	268	0.
1		0335	44	52.	1		0950	119	0.	1		1605	194	0.	1		2220	269	0.
1		0340	45	85.	1		0955	120	0.	1		1610	195	0.	1		2225	270	0.
1		0345	46	110.	1		1000	121	0.	1		1615	196	0.	1		2230	271	0.
1		0350	47	178.	1		1005	122	0.	1		1620	197	0.	1		2235	272	0.
1		0355	48	289.	1		1010	123	0.	1		1625	198	0.	1		2240	273	0.
1		0400	49	371.	1		1015	124	0.	1		1630	199	0.	1		2245	274	0.
1		0405	50	355.	1		1020	125	0.	1		1635	200	0.	1		2250	275	0.
1		0410	51	263.	1		1025	126	0.	1		1640	201	0.	1		2255	276	0.
1		0415	52	187.	1		1030	127	0.	1		1645	202	0.	1		2300	277	0.
1		0420	53	130.	1		1035	128	0.	1		1650	203	0.	1		2305	278	0.
1		0425	54	85.	1		1040	129	0.	1		1655	204	0.	1		2310	279	0.
1		0430	55	56.	1		1045	130	0.	1		1700	205	0.	1		2315	280	0.
1		0435	56	40.	1		1050	131	0.	1		1705	206	0.	1		2320	281	0.
1		0440	57	29.	1		1055	132	0.	1		1710	207	0.	1		2325	282	0.
1		0445	58	22.	1		1100	133	0.	1		1715	208	0.	1		2330	283	0.
1		0450	59	17.	1		1105	134	0.	1		1720	209	0.	1		2335	284	0.
1		0455	60	14.	1		1110	135	0.	1		1725	210	0.	1		2340	285	0.
1		0500	61	12.	1		1115	136	0.	1		1730	211	0.	1		2345	286	0.
1		0505	62	10.	1		1120	137	0.	1		1735	212	0.	1		2350	287	0.
1		0510	63	9.	1		1125	138	0.	1		1740	213	0.	1		2355	288	0.
1		0515	64	8.	1		1130	139	0.	1		1745	214	0.	2		0000	289	0.
1		0520	65	7.	1		1135	140	0.	1		1750	215	0.	2		0005	290	0.
1		0525	66	7.	1		1140	141	0.	1		1755	216	0.	2		0010	291	0.
1		0530	67	7.	1		1145	142	0.	1		1800	217	0.	2		0015	292	0.
1		0535	68	6.	1		1150	143	0.	1		1805	218	0.	2		0020	293	0.
1		0540	69	5.	1		1155	144	0.	1		1810	219	0.	2		0025	294	0.
1		0545	70	5.	1		1200	145	0.	1		1815	220	0.	2		0030	295	0.
1		0550	71	5.	1		1205	146	0.	1		1820	221	0.	2		0035	296	0.

1	0555	72	5.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	5.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	4.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	3.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.

****

PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW	6-HR	24-HR	72-HR	24.92-HR
+		(CFS)				
+ 371.	4.00		36.	9.	9.	9.
		(INCHES)	2.181	2.194	2.194	2.194
		(AC-FT)	18.	18.	18.	18.

CUMULATIVE AREA = 0.16 SQ MI

****

HYDROGRAPH AT STATION C201
SUM OF 2 HYDROGRAPHS
PLAN 1, RATIO = 0.86

****

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	2.	1		1230	151	0.	1		1845	226	0.
1		0005	2	1.	1		0620	77	1.	1		1235	152	0.	1		1850	227	0.
1		0010	3	1.	1		0625	78	1.	1		1240	153	0.	1		1855	228	0.
1		0015	4	2.	1		0630	79	1.	1		1245	154	0.	1		1900	229	0.
1		0020	5	2.	1		0635	80	1.	1		1250	155	0.	1		1905	230	0.
1		0025	6	3.	1		0640	81	1.	1		1255	156	0.	1		1910	231	0.
1		0030	7	3.	1		0645	82	1.	1		1300	157	0.	1		1915	232	0.
1		0035	8	3.	1		0650	83	0.	1		1305	158	0.	1		1920	233	0.
1		0040	9	3.	1		0655	84	0.	1		1310	159	0.	1		1925	234	0.
1		0045	10	3.	1		0700	85	0.	1		1315	160	0.	1		1930	235	0.
1		0050	11	3.	1		0705	86	0.	1		1320	161	0.	1		1935	236	0.
1		0055	12	3.	1		0710	87	0.	1		1325	162	0.	1		1940	237	0.
1		0100	13	3.	1		0715	88	0.	1		1330	163	0.	1		1945	238	0.
1		0105	14	3.	1		0720	89	0.	1		1335	164	0.	1		1950	239	0.
1		0110	15	3.	1		0725	90	0.	1		1340	165	0.	1		1955	240	0.
1		0115	16	3.	1		0730	91	0.	1		1345	166	0.	1		2000	241	0.
1		0120	17	3.	1		0735	92	0.	1		1350	167	0.	1		2005	242	0.
1		0125	18	3.	1		0740	93	0.	1		1355	168	0.	1		2010	243	0.
1		0130	19	3.	1		0745	94	0.	1		1400	169	0.	1		2015	244	0.
1		0135	20	4.	1		0750	95	0.	1		1405	170	0.	1		2020	245	0.
1		0140	21	3.	1		0755	96	0.	1		1410	171	0.	1		2025	246	0.
1		0145	22	3.	1		0800	97	0.	1		1415	172	0.	1		2030	247	0.
1		0150	23	3.	1		0805	98	0.	1		1420	173	0.	1		2035	248	0.
1		0155	24	3.	1		0810	99	0.	1		1425	174	0.	1		2040	249	0.
1		0200	25	3.	1		0815	100	0.	1		1430	175	0.	1		2045	250	0.
1		0205	26	3.	1		0820	101	0.	1		1435	176	0.	1		2050	251	0.
1		0210	27	3.	1		0825	102	0.	1		1440	177	0.	1		2055	252	0.
1		0215	28	3.	1		0830	103	0.	1		1445	178	0.	1		2100	253	0.
1		0220	29	4.	1		0835	104	0.	1		1450	179	0.	1		2105	254	0.
1		0225	30	4.	1		0840	105	0.	1		1455	180	0.	1		2110	255	0.
1		0230	31	5.	1		0845	106	0.	1		1500	181	0.	1		2115	256	0.
1		0235	32	5.	1		0850	107	0.	1		1505	182	0.	1		2120	257	0.
1		0240	33	5.	1		0855	108	0.	1		1510	183	0.	1		2125	258	0.
1		0245	34	5.	1		0900	109	0.	1		1515	184	0.	1		2130	259	0.
1		0250	35	5.	1		0905	110	0.	1		1520	185	0.	1		2135	260	0.
1		0255	36	6.	1		0910	111	0.	1		1525	186	0.	1		2140	261	0.
1		0300	37	7.	1		0915	112	0.	1		1530	187	0.	1		2145	262	0.
1		0305	38	7.	1		0920	113	0.	1		1535	188	0.	1		2150	263	0.
1		0310	39	8.	1		0925	114	0.	1		1540	189	0.	1		2155	264	0.
1		0315	40	8.	1		0930	115	0.	1		1545	190	0.	1		2200	265	0.
1		0320	41	12.	1		0935	116	0.	1		1550	191	0.	1		2205	266	0.
1		0325	42	19.	1		0940	117	0.	1		1555	192	0.	1		2210	267	0.
1		0330	43	26.	1		0945	118	0.	1		1600	193	0.	1		2215	268	0.
1		0335	44	45.	1		0950	119	0.	1		1605	194	0.	1		2220	269	0.
1		0340	45	74.	1		0955	120	0.	1		1610	195	0.	1		2225	270	0.
1		0345	46	95.	1		1000	121	0.	1		1615	196	0.	1		2230	271	0.
1		0350	47	154.	1		1005	122	0.	1		1620	197	0.	1		2235	272	0.
1		0355	48	249.	1		1010	123	0.	1		1625	198	0.	1		2240	273	0.
1		0400	49	320.	1		1015	124	0.	1		1630	199	0.	1		2245	274	0.
1		0405	50	306.	1		1020	125	0.	1		1635	200	0.	1		2250	275	0.
1		0410	51	226.	1		1025	126	0.	1		1640	201	0.	1		2255	276	0.
1		0415	52	161.	1		1030	127	0.	1		1645	202	0.	1		2300	277	0.
1		0420	53	113.	1		1035	128	0.	1		1650	203	0.	1		2305	278	0.
1		0425	54	74.	1		1040	129	0.	1		1655	204	0.	1		2310	279	0.
1		0430	55	49.	1		1045	130	0.	1		1700	205	0.	1		2315	280	0.
1		0435	56	35.	1		1050	131	0.	1		1705	206	0.	1		2320	281	0.
1		0440	57	25.	1		1055	132	0.	1		1710	207	0.	1		2325	282	0.
1		0445	58	20.	1		1100	133	0.	1		1715	208	0.	1		2330	283	0.
1		0450	59	15.	1		1105	134	0.	1		1720	209	0.	1		2335	284	0.
1		0455	60	13.	1		1110	135	0.	1		1725	210	0.	1		2340	285	0.
1		0500	61	11.	1		1115	136	0.	1		1730	211	0.	1		2345	286	0.
1		0505	62	9.	1		1120	137	0.	1		1735	212	0.	1		2350	287	0.
1		0510	63	8.	1		1125	138	0.	1		1740	213	0.	1		2355	288	0.
1		0515	64	7.	1		1130	139	0.	1		1745	214	0.	2		0000	289	0.
1		0520	65	7.	1		1135	140	0.	1		1750	215	0.	2		0005	290	0.
1		0525	66	6.	1		1140	141	0.	1		1755	216	0.	2		0010	291	0.
1		0530	67	6.	1		1145	142	0.	1		1800	217	0.	2		0015	292	0.

```
   1     0535   68        5.   *   1     1150  143        0.   *   1     1805  218        0.   *   2     0020  293        0.
   1     0540   69        5.   *   1     1155  144        0.   *   1     1810  219        0.   *   2     0025  294        0.
   1     0545   70        4.   *   1     1200  145        0.   *   1     1815  220        0.   *   2     0030  295        0.
   1     0550   71        4.   *   1     1205  146        0.   *   1     1820  221        0.   *   2     0035  296        0.
   1     0555   72        4.   *   1     1210  147        0.   *   1     1825  222        0.   *   2     0040  297        0.
   1     0600   73        4.   *   1     1215  148        0.   *   1     1830  223        0.   *   2     0045  298        0.
   1     0605   74        4.   *   1     1220  149        0.   *   1     1835  224        0.   *   2     0050  299        0.
   1     0610   75        2.   *   1     1225  150        0.   *   1     1840  225        0.   *   2     0055  300        0.
                                *                                 *                                 *
*****************************************************************************************************************************

 PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                     6-HR        24-HR        72-HR      24.92-HR
+   (CFS)       (HR)
                          (CFS)
+    320.       4.00                  31.          8.           8.           8.
                        (INCHES)    1.885       1.897        1.897        1.897
                         (AC-FT)     16.         16.          16.          16.

                        CUMULATIVE AREA =    0.16 SQ MI

1

              PEAK FLOW AND STAGE (END-OF-PERIOD) SUMMARY FOR MULTIPLE PLAN-RATIO ECONOMIC COMPUTATIONS
                              FLOWS IN CUBIC FEET PER SECOND,  AREA IN SQUARE MILES
                                          TIME TO PEAK IN HOURS


                                                                  RATIOS APPLIED TO FLOWS
 OPERATION       STATION     AREA    PLAN                  RATIO 1  RATIO 2
                                                              1.00     0.86

 HYDROGRAPH AT
+                 S202A      0.61     1   FLOW              1123.     970.
                                           TIME               4.25     4.25

 HYDROGRAPH AT
+                 S202B      0.01     1   FLOW                25.      22.
                                           TIME               4.00     4.00

 HYDROGRAPH AT
+                 S202C      0.04     1   FLOW               102.      89.
                                           TIME               4.00     4.00

 HYDROGRAPH AT
+                 S201A      0.02     1   FLOW                44.      38.
                                           TIME               4.08     4.08

 ROUTED TO
+                 R201A      0.02     1   FLOW                42.      37.
                                           TIME               4.25     4.25

 HYDROGRAPH AT
+                 S201B      0.13     1   FLOW               358.     310.
                                           TIME               4.00     4.00

  2 COMBINED AT
+                  C201      0.16     1   FLOW               371.     320.
                                           TIME               4.00     4.00
1
                                          SUMMARY OF KINEMATIC WAVE - MUSKINGUM-CUNGE ROUTING
                                              (FLOW IS DIRECT RUNOFF WITHOUT BASE FLOW)
                                                                                  INTERPOLATED TO
                                                                                COMPUTATION INTERVAL
          ISTAQ    ELEMENT      DT        PEAK     TIME TO      VOLUME      DT        PEAK     TIME TO      VOLUME
                                                     PEAK                                          PEAK

                               (MIN)     (CFS)      (MIN)       (IN)     (MIN)      (CFS)      (MIN)       (IN)

         FOR PLAN = 1  RATIO= 1.00
            R201A  MANE         4.11     42.26     255.47       2.17      5.00     42.18     255.00        2.17

 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.2406E+01 EXCESS=0.0000E+00 OUTFLOW=0.2429E+01 BASIN STORAGE=0.3077E-03 PERCENT ERROR=  -1.0

         FOR PLAN = 1  RATIO= 0.86
            R201A  MANE         4.33     36.71     255.60       1.88      5.00     36.53     255.00        1.89

 CONTINUITY SUMMARY (AC-FT) - INFLOW=0.2079E+01 EXCESS=0.0000E+00 OUTFLOW=0.2109E+01 BASIN STORAGE=0.3456E-03 PERCENT ERROR=  -1.5


 *** NORMAL END OF HEC-1 ***
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Appendix E

Hydraulic Analysis Supporting Documentation

JE FULLER
HYDROLOGY & GEOMORPHOLOGY, INC
6101 South Rural Road, Suite 110, Tempe, Arizona 85283

GRADING AND DRAINAGE PLANS

FOR

10th PLACE & REDFIELD ROAD

PHOENIX, ARIZONA

A SUBDIVISION LYING IN THE SOUTHWEST QUARTER OF
SECTION 9, TOWNSHIP 3 NORTH, RANGE 3 EAST, OF THE
GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA

CITY OF PHOENIX GRADING AND DRAINAGE GENERAL NOTES

1. A GRADING PERMIT IS REQUIRED UNDER CHAPTER 32A OF THE PHOENIX CITY CODE.
2. HAUL PERMITS, WHEN REQUIRED, MUST BE OBTAINED PRIOR TO OR CONCURRENTLY WITH THE GRADING AND DRAINAGE PERMIT.
3. EXCAVATION CONTRACTOR MUST GIVE LOCATION FOR WASTING EXCESS EXCAVATION AND A LETTER FROM OWNER GIVING PERMISSION FOR DUMPING PRIOR TO STARTING ON-SITE CONSTRUCTION. IF EXCESS EXCAVATION EXCEEDS 100 CUBIC YARDS, THE DUMPING SITE WILL ALSO REQUIRE A GRADING AND DRAINAGE PERMIT.
4. DEVELOPMENT SERVICES DEPARTMENT'S FIELD INSPECTION GROUP SHALL BE NOTIFIED 48 HOURS BEFORE ANY ON-SITE AND/OR OFFSITE CONSTRUCTION BEGINS. TELEPHONE (602) 262-7811.
5. MINIMUM FINISH FLOOR ELEVATIONS SHOWN ARE SAFE FROM THE 100 YEAR STORM OR PER MINIMUM SPECIFIED IN THE CITY OF PHOENIX STORM DRAIN DESIGN MANUAL, WHICHEVER IS GREATER.
6. STAKING FINISH FLOOR ELEVATIONS IS THE RESPONSIBILITY OF THE OWNER AND HIS ENGINEER. THE OWNER'S ENGINEER SHALL SUBMIT THREE SEALED COPIES OF THIS GRADING AND DRAINAGE PLAN DESIGNATED AS "RECORD DRAWING" (BEARING ON ORIGINAL SIGNATURE) PRIOR TO THE REQUEST FOR FINAL INSPECTION.
7. A SEPARATE PERMIT IS NECESSARY FOR ANY OFFSITE CONSTRUCTION.
8. AN APPROVED GRADING AND DRAINAGE PLAN SHALL BE ON THE JOB SITE AT ALL TIMES. DEVIATIONS FROM THE PLAN MUST BE PRECEDED BY AN APPROVED PLAN REVISION.
9. GRADING AND DRAINAGE PLAN APPROVAL INCLUDES THE CONSTRUCTION OF ALL SURFACE IMPROVEMENTS SHOWN ON THE APPROVED GRADING AND DRAINAGE PLAN, INCLUDING BUT NOT LIMITED TO, RETENTION AREAS, SEDIMENTATION BASINS, AND/OR OTHER DRAINAGE FACILITIES, DRAINAGE PATTERNS, WALLS, CURBS, ASPHALT PAVEMENT, AND BUILDING FLOOR ELEVATIONS.
10. CONTRACTOR SHALL PROVIDE LEVEL BOTTOM IN ALL RETENTION BASINS AT ELEVATIONS AS SHOWN ON THE PLANS. SLOPE PROTECTION SHALL BE APPLIED TO PREVENT EROSION.
11. GRADES SHOWN IN RETENTION BASINS ARE DESIGN FINISHED GRADES. SHOULD THE CONTRACTOR OR ANY SUBCONTRACTOR PLAN TO PLACE SPOIL DIRT FROM FOOTINGS, UTILITY TRENCHES, LANDSCAPING, SWIMMING POOLS, ETC. IN THE BASINS, THEN THE BASINS SHOULD BE SUFFICIENTLY OVER-EXCAVATED DURING THE ROUGH GRADING OPERATION TO ALLOW FOR THE PLACEMENT OF THE FILL OR LANDSCAPING MATERIALS.
12. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND CONFIRMING DEPTHS OF ALL THE EXISTING UTILITY LINES WITHIN PROPOSED RETENTION BASIN AREAS. IF THE BASIN CANNOT BE CONSTRUCTED PER PLAN BECAUSE OF CONFLICTS, THE CONTRACTOR SHOULD DISCUSS MODIFICATION OF BASIN CONFIGURATION WITH THE CITY INSPECTOR TO DETERMINE IF A PLAN REVISION OR A FIELD CHANGE IS REQUIRED.
13. ALL DRAINAGE PROTECTIVE DEVICES SUCH AS SWALES, INTERCEPTOR DITCHES, PIPES, PROTECTIVE BERMS, BARRIER WALL, CONCRETE CHANNELS OR OTHER MEASURES DESIGNED TO PROTECT ADJACENT BUILDINGS OR PROPERTY FROM STORM RUNOFF MUST BE COMPLETED PRIOR TO BUILDING CONSTRUCTION.
14. RETENTION BASIN SIDE SLOPES SHALL BE A MAXIMUM OF 4:1 UNLESS APPROVAL IS RECEIVED FROM THE PLAN REVIEWER FOR A STEEPER SLOPE.
15. ALL KNOWN EXISTING UNDERGROUND UTILITIES WITHIN PROPOSED RETENTION AREAS HAVE BEEN DESIGNED TO MAINTAIN A MINIMUM 15" OF COVER OVER CITY OWNED UTILITY LINES AND THE MINIMUM SPECIFIED BY OTHER UTILITY OWNERS.
16. REQUIRED RETAINING WALLS SHOWN ON THE GRADING AND DRAINAGE PLANS ARE TO BE REVIEWED, PERMITTED, AND INSPECTED BY THE BUILDING SAFETY BRANCH OF THE DEVELOPMENT SERVICES DEPARTMENT.
17. CERTIFICATE OF OCCUPANCY (C. OF O.) AND/OR FINAL ELECTRIC CLEARANCE FOR ANY BUILDING IS DENIED UNTIL ALL GRADING AND DRAINAGE IMPROVEMENTS ARE COMPLETED.
18. DAMAGED AND/OR DISPLACED CONCRETE CURB, GUTTER, SIDEWALK, OR DRIVEWAY SLAB THAT IS WITHIN THE RIGHT-OF-WAY SHALL BE REPAIRED OR REPLACED, AS NOTED BY CITY INSPECTORS, BEFORE FINAL ACCEPTANCE OF THE WORK.
19. THE ENGINEERING DESIGN ON THESE PLANS ARE ONLY APPROVED BY THE CITY IN SCOPE AND NOT IN DETAIL. CONSTRUCTION QUANTITIES ON THESE PLANS ARE NOT VERIFIED BY THE CITY. APPROVAL OF THESE PLANS ARE FOR PERMIT PURPOSES ONLY AND SHALL NOT PREVENT THE CITY FROM REQUIRING CORRECTION OF ERRORS IN THE PLANS WHERE SUCH ERRORS ARE SUBSEQUENTLY FOUND TO BE IN VIOLATION OF ANY LAW, ORDINANCE, HEALTH, SAFETY, OR OTHER DESIGN ISSUES.
20. THE CITY OF PHOENIX POLICE DEPARTMENT ENFORCES LAWS REGULATING THE OPERATION OF COMMERCIAL VEHICLES. THIS INCLUDES ENFORCEMENT OF FEDERAL, STATE, COUNTY, AND LOCAL LAWS AND ORDINANCES.
21. QUESTIONS REGARDING COMMERCIAL VEHICLE ENFORCEMENT MAY BE DIRECTED TO THE COMMERCIAL VEHICLE ENFORCEMENT SUPERVISOR AT 495-7813 (SOUTH RESOURCE BUREAU) OR 495-6784 (NORTH RESOURCE BUREAU).
22. CONSTRUCTION WITHIN THE RIGHT-OF-WAY SHALL CONFORM TO THE LATEST APPLICABLE MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) UNIFORM STANDARD SPECIFICATIONS AND DETAILS AND THE LATEST CITY OF PHOENIX SUPPLEMENTAL TO THE MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS.
23. PLAN APPROVAL IS VALID FOR TWELVE (12) MONTHS. IF APPROVAL EXPIRES, THE THE PLANS MUST BE RESUBMITTED FOR CITY UPDATE REVIEW AND APPROVAL.
24. COMPACTION SHALL COMPLY WITH M.A.G. SECTION 601.
25. OBSTRUCTIONS TO PROPOSED IMPROVEMENTS IN THE RIGHT-OF-WAY SHALL BE REMOVED OR RELOCATED BEFORE BEGINNING CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
26. THE ACTUAL POINT OF PAVEMENT MATCHING AND/OR TERMINATING SHALL BE DETERMINED IN THE FIELD BY THE CITY OF PHOENIX, DEVELOPMENT SERVICES DEPARTMENT FIELD INSPECTOR.
27. TREES AND SHRUBBERY IN THE RIGHT-OF-WAY THAT CONFLICT WITH PROPOSED IMPROVEMENTS SHALL NOT BE REMOVED WITHOUT APPROVAL OF THE CITY LANDSCAPE ARCHITECT OR HIS ASSIGNEES. THE PERMITTEE SHALL BE RESPONSIBLE FOR OBTAINING AUTHORIZATION TO REMOVE AND/OR RELOCATE SAID TREES OR SHRUBBERY BY CALLING THE DEVELOPMENT SERVICES LANDSCAPE ARCHITECT AT (602) 262-7811.
28. A FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) "ELEVATION CERTIFICATE" MUST BE COMPLETED FOR EACH STRUCTURE CONSTRUCTED IN A SPECIAL FLOOD HAZARD AREA (SFHA) PRIOR TO AN ELECTRICAL CLEARANCE FOR THAT STRUCTURE. ONE COPY OF THE "ELEVATION CERTIFICATE" IS TO BE SUBMITTED TO THE GENERAL BUILDING SAFETY INSPECTOR ONSITE AND ONE COPY IS TO BE SUBMITTED TO THE CITY OF PHOENIX FLOOD PLAIN MANAGER.

OWNER/DEVELOPER

STERLING REALTY DEVELOPMENT, L.L.C.
5033 E. CALLE DEL NORTE
PHOENIX, ARIZONA 85018
PHONE: (602) 996-4771
FAX: (602) 996-4755

ENGINEER

NEIL/McGILL CONSULTANTS, INC.
1625 E. NORTHERN AVENUE, SUITE 202
PHOENIX, ARIZONA 85020
PHONE: (602) 395-1334
FAX: (602) 395-1308

SITE AREA

GROSS AREA = 109,061 S.F. OR 2.5037 ACRES MORE OR LESS.

NET AREA = 98,648 S.F. OR 2.2646 ACRES (GROSS LESS 10th PLACE AND HEARN ROAD)

EARTHWORK

CUT = 1630 CU. YDS
FILL = 3460 CU. YDS

THIS EARTHWORK VOLUME DOES NOT INCLUDE ANY SHRINKAGE OF FOUNDATION OVER EXCAVATION. SEE SOILS REPORT BY FOREE & VANN, INC., PROJECT # 11166, DATED AUGUST 10, 2000.

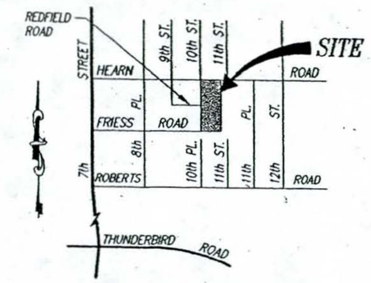
THESE QUANTITIES ARE MEANT AS A GUIDE FOR CITY BONDING PURPOSES ONLY. CONTRACTOR SHOULD VERIFY QUANTITIES AND BASE HIS BID SOLELY UPON HIS OWN ESTIMATE.

DRAINAGE FACILITIES

FLOOD/RET. WALL 400 LF.

LEGEND

- BRASS CAP FLUSH
- WATER VALVE
- FIRE HYDRANT
- WATER METER
- WATER BLOWOFF
- SEWER CLEAN-OUT
- SEWER MANHOLE
- CABLE TV RISER
- POWER POLE
- TELEPHONE RISER
- LIGHT POLE
- MAIL BOX
- STREET SIGN
- BUILDING SETBACK LINE
- FLOOD ZONE LINE
- P.U.E.
- (87.23) EXISTING
- 87.23 PROPOSED



VICINITY MAP
N.T.S.

Added by JEF

BENCHMARK

BRASS CAP FLUSH AT THE INTERSECTION OF 12TH STREET AND ROBERTS.

ELEVATION=1396.88 CITY OF PHOENIX DATUM

AMC Project Mapping = 1397.13 El = NMC + 0.25 = JEF

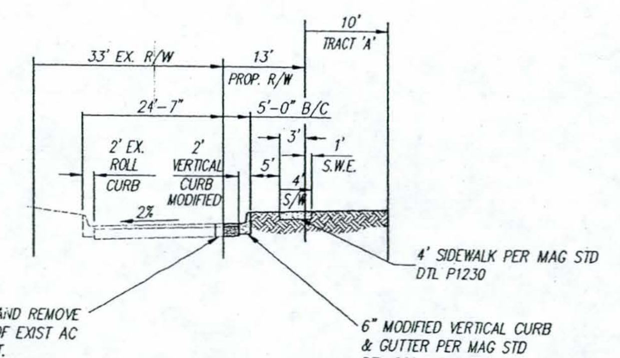
NOTE

THE LOCATION OF EXISTING UTILITIES SHOWN HEREON IS BASED ON INFORMATION OBTAINED IN THE FIELD AND FROM MAPS SUPPLIED BY VARIOUS UTILITY COMPANIES. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITIES NOT SHOWN HEREON.

LEGAL DESCRIPTION

THAT PART OF THE SOUTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 9, TOWNSHIP 3 NORTH, RANGE 3 EAST, OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT 165 FEET EAST OF THE NORTHWEST CORNER OF THE SOUTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SAID SECTION 9; THENCE EAST 165 FEET; THENCE SOUTH 659 FEET, 10 INCHES, MORE OR LESS. TO THE SOUTH LINE OF THE NORTHWEST QUARTER OF THE SOUTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SAID SECTION 9; THENCE WEST 165 FEET; THENCE NORTH 659 FEET, 10 INCHES, MORE OR LESS, TO THE POINT OF BEGINNING.



TYPICAL SECTION - 10th PLACE
N.T.S.

AS-BUILT CERTIFICATION

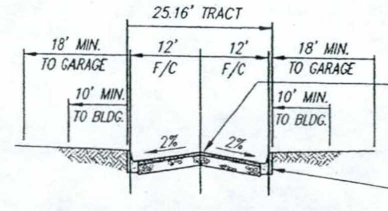
I HEREBY CERTIFY THAT THE "RECORD DRAWING" MEASUREMENTS AND SURVEY MONUMENTS AS SHOWN HEREON WERE MADE UNDER MY SUPERVISION OR AS NOTED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

(Seal: Registered Professional Engineer (Civil), Certificate No. 10002, JOSEPH C. McGILL, Arizona, U.S.A.)

~~REGISTERED LAND SURVEYOR~~ / ENGINEER — 11/28/01 DATE

10002
REGISTRATION NUMBER

THIS SET OF CONSTRUCTION PLANS HAS BEEN SUBMITTED TO THE FOLLOWING UTILITY COMPANIES FOR REVIEW AND TO DETERMINE ANY POTENTIAL CONFLICTS.		
UTILITY COMPANY	COMPANY CONTACT	DATE SUBMITTED
SALT RIVER PROJECT (POWER)	CONTACT	9-20-00
SALT RIVER PROJECT (SRVWUA)	CONTACT	9-20-00
ARIZONA PUBLIC SERVICE	CONTACT	9-20-00
U.S. WEST COMMUNICATIONS	CONTACT	9-20-00
COX COMMUNICATIONS	CONTACT	9-20-00
SOUTHWEST GAS	CONTACT	9-20-00
PARKS AND RECREATION DEPT.	CONTACT	9-20-00
C.O.P. WATER AND WASTEWATER DEPT.	CONTACT	9-20-00
STREET TRANSPORTATION DEPT.	CONTACT	9-20-00



2" A.C. PER MAG SECT. 321 ON 6" A.B.C. TO CONFORM WITH P-1103 & INSTALLED PER MAG SECT. 310 OR 4.5" CONCRETE ON NATIVE SOIL PER OWNER.

4" ROLLED CURB PER MAG STD. DTL. 220, TYPE "C".

NOTE: NO PARKING ON STREET. COMMON GUEST PARKING PROVIDED ON 3-CAR GARAGE DRIVEWAY. EVERY HOME WILL HAVE A 3-CAR GARAGE.

TYPICAL SECTION - TRACTS C & D
N.T.S.

CALL TWO WORKING DAYS BEFORE YOU DIG
263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

D.S.D. PROJ. ENG. APPROVAL STAMP

City of Phoenix
These plans have been approved by the Development Services Department for the issuance of the following permits:

Grading SBA Ph. Date 3/16/01
Paving Ph. Date
Concrete Ph. Date
Drain. Fac. Ph. Date
Water Ph. Date
Wastewater Ph. Date
Misc. Ph. Date

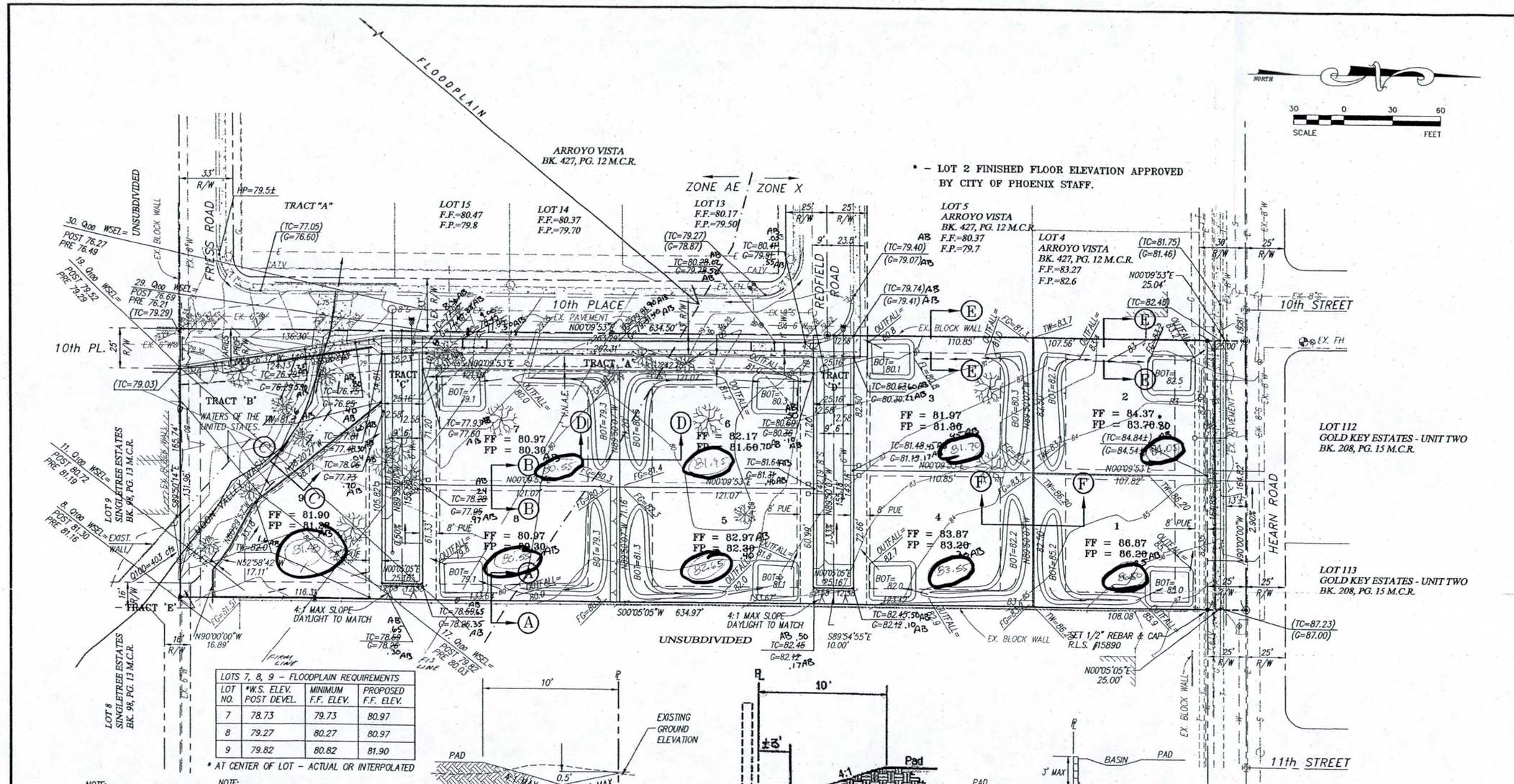
"RECORD DRAWING" 11-28-01 Q.S.# 33 & 29 KIVA# 00-1970 SDEV# 2001037

Neil / McGill Consultants, Inc.
CIVIL ENGINEERS/LAND SURVEYORS/PLANNERS
1625 E. Northern Avenue, Suite 202
Phoenix, Arizona 85020
Phone: (602) 395-1334
Fax: (602) 395-1308

GRADING & DRAINAGE
10th PLACE & REDFIELD ROAD
PHOENIX, ARIZONA

JOB NO.	00-005
DATE	9-15-00
DESIGNED	SDP
DRAWN	MBG
CHECKED	SDP
HORIZ. SCALE: 1"=	
VERT. SCALE: 1"=	

SHEET 1 OF 2 SHEETS

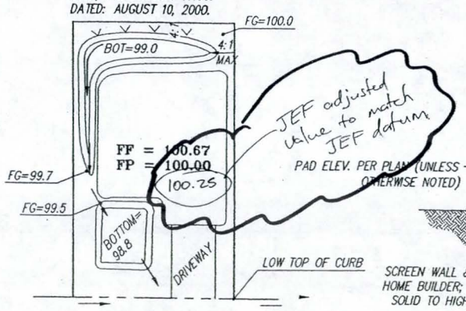


LOTS 7, 8, 9 - FLOODPLAIN REQUIREMENTS			
LOT NO.	*W.S. ELEV. POST DEVEL.	MINIMUM F.F. ELEV.	PROPOSED F.F. ELEV.
7	78.73	79.73	80.97
8	79.27	80.27	80.97
9	79.82	80.82	81.90

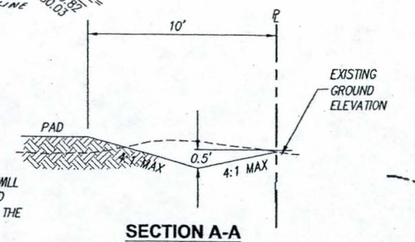
* AT CENTER OF LOT - ACTUAL OR INTERPOLATED

NOTE:
SITE PREP AND GRADING PROCEDURES SHALL BE IN CONFORMANCE WITH THE SOILS REPORT BY FOREE & VANN, INC. PROJECT 11166. DATED: AUGUST 10, 2000.

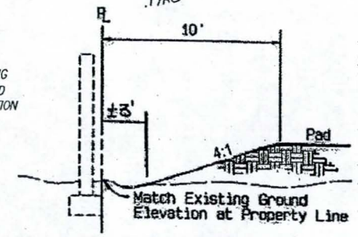
NOTE:
CERTIFICATES OF OCCUPANCY FOR LOTS 7, 8, & 9 WILL BE WITHHELD SUBJECT TO RECEIPT OF AN APPROVED CONDITIONAL LETTER OF MAP REVISION (CLOMR FOR THE SUBJECT PROPERTY.



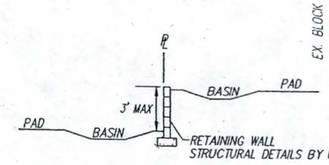
TYP. LOT FINISH GRADING DETAIL
N.T.S.



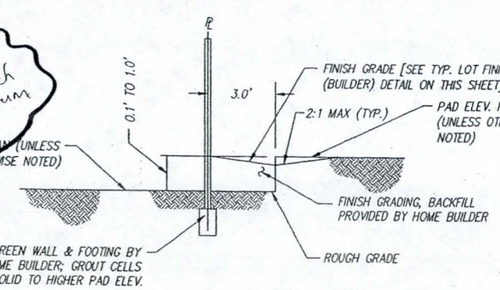
SECTION A-A



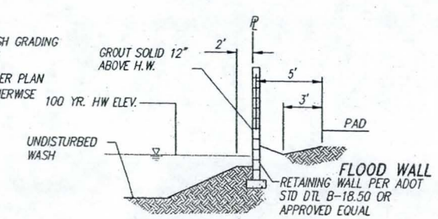
SECTION E-E



SECTION F-F
TYPICAL RETAINING WALL-N.T.S.



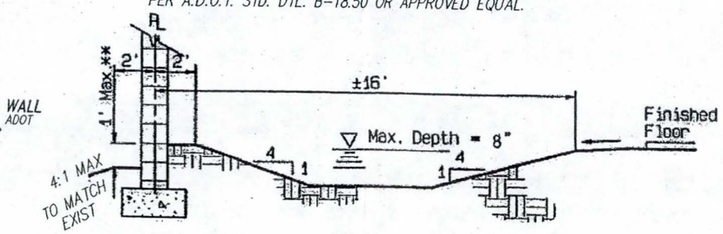
SECTION B-B



SECTION C-C
RETENTION TRACT TO SIDEYARD - N.T.S.

SECTION C-C

** If finished grade differential exceeds 1.0', a retaining wall shall be constructed.
PER A.D.O.T. STD. DTL. B-18.50 OR APPROVED EQUAL.



SECTION D-D "RECORD DRAWING" 11-28-01

Neil / McGill Consultants, Inc.
CIVIL ENGINEERS/LAND SURVEYORS/PLANNERS
1625 E. Northern Avenue, Suite 202
Phoenix, Arizona 85020
Phone:(602) 395-1334
Fax: (602) 395-1308

GRADING & DRAINAGE PLAN
10th PLACE & REDFIELD ROAD
PHOENIX, ARIZONA

DSD# 00-1970
Q.S.# 33-29

Registered Professional Engineer (Civil) CERTIFICATE NO. 10002 JOSEPH C. McGILL Date Signed 3/12/01 ARIZONA U.S.A.

JOB NO.	00-005
DATE	3-8-01
DESIGNED	SDP
DRAWN	MBG
CHECKED	JCM
HORIZ. SCALE: 1"=	30'
VERT. SCALE: 1"=	30'

SHEET 2 OF 2 SHEETS

Table E-1-E

FLO-2D Model
Existing Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
1	14	2	0	0	0.035	1369.54
2	15	3	0	1	0.035	1369.24
3	16	4	0	2	0.035	1368.30
4	17	5	0	3	0.035	1368.38
5	18	6	0	4	0.035	1370.08
6	19	0	0	5	0.035	1370.97
7	52	8	0	0	0.035	1383.74
8	53	9	0	7	0.035	1383.33
9	54	10	0	8	0.035	1383.07
10	55	11	0	9	0.035	1383.87
11	56	12	0	10	0.035	1384.90
12	57	13	0	11	0.035	1385.25
13	58	0	0	12	0.035	1386.44
14	59	15	1	0	0.035	1368.91
15	60	16	2	14	0.035	1368.92
16	61	17	3	15	0.035	1370.87
17	62	18	4	16	0.035	1370.86
18	63	19	5	17	0.035	1371.92
19	64	20	6	18	0.035	1372.20
20	65	21	0	19	0.035	1372.63
21	66	22	0	20	0.035	1373.36
22	67	23	0	21	0.035	1373.91
23	68	24	0	22	0.035	1373.93
24	69	25	0	23	0.035	1372.67
25	70	26	0	24	0.035	1373.70
26	71	27	0	25	0.035	1373.47
27	72	28	0	26	0.035	1373.40
28	73	29	0	27	0.035	1373.68
29	74	30	0	28	0.035	1374.32
30	75	31	0	29	0.035	1374.41
31	76	32	0	30	0.035	1374.73
32	77	33	0	31	0.035	1374.73
33	78	34	0	32	0.035	1375.09
34	79	35	0	33	0.035	1375.48
35	80	36	0	34	0.035	1376.04
36	81	37	0	35	0.035	1376.11
37	82	38	0	36	0.035	1376.53
38	83	39	0	37	0.035	1377.20
39	84	40	0	38	0.035	1378.41
40	85	41	0	39	0.035	1379.61
41	86	42	0	40	0.035	1378.69
42	87	43	0	41	0.035	1377.69
43	88	44	0	42	0.035	1377.88
44	89	45	0	43	0.035	1378.61
45	90	46	0	44	0.035	1379.12
46	91	47	0	45	0.035	1378.52
47	92	48	0	46	0.035	1379.42

Table E-1-E

FLO-2D Model
Existing Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
48	93	49	0	47	0.035	1378.97
49	94	50	0	48	0.035	1379.27
50	95	51	0	49	0.035	1379.90
51	96	52	0	50	0.035	1380.79
52	97	53	7	51	0.035	1381.35
53	98	54	8	52	0.035	1381.06
54	99	55	9	53	0.035	1381.84
55	100	56	10	54	0.035	1382.63
56	101	57	11	55	0.035	1383.56
57	102	58	12	56	0.035	1384.58
58	103	0	13	57	0.035	1385.46
59	104	60	14	0	0.035	1368.14
60	105	61	15	59	0.035	1368.33
61	106	62	16	60	0.035	1368.51
62	107	63	17	61	0.035	1368.65
63	108	64	18	62	0.035	1368.97
64	109	65	19	63	0.035	1369.56
65	110	66	20	64	0.035	1370.02
66	111	67	21	65	0.035	1370.68
67	112	68	22	66	0.035	1370.81
68	113	69	23	67	0.035	1371.14
69	114	70	24	68	0.035	1371.30
70	115	71	25	69	0.035	1371.36
71	116	72	26	70	0.035	1371.73
72	117	73	27	71	0.035	1372.00
73	118	74	28	72	0.035	1372.17
74	119	75	29	73	0.035	1372.53
75	120	76	30	74	0.035	1372.94
76	121	77	31	75	0.035	1373.30
77	122	78	32	76	0.035	1373.39
78	123	79	33	77	0.035	1373.65
79	124	80	34	78	0.035	1373.93
80	125	81	35	79	0.035	1374.54
81	126	82	36	80	0.035	1375.19
82	127	83	37	81	0.035	1375.87
83	128	84	38	82	0.035	1376.73
84	129	85	39	83	0.035	1377.28
85	130	86	40	84	0.035	1377.53
86	131	87	41	85	0.035	1377.60
87	132	88	42	86	0.035	1377.77
88	133	89	43	87	0.035	1378.08
89	134	90	44	88	0.035	1378.42
90	135	91	45	89	0.035	1378.49
91	136	92	46	90	0.035	1378.75
92	137	93	47	91	0.035	1378.91
93	138	94	48	92	0.035	1379.16
94	139	95	49	93	0.035	1379.30

Table E-1-E

FLO-2D Model
Existing Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
95	140	96	50	94	0.035	1379.63
96	141	97	51	95	0.035	1379.96
97	142	98	52	96	0.035	1380.36
98	143	99	53	97	0.035	1380.93
99	144	100	54	98	0.035	1381.70
100	145	101	55	99	0.035	1383.32
101	146	102	56	100	0.035	1384.08
102	147	103	57	101	0.035	1385.11
103	148	0	58	102	0.035	1386.27
104	149	105	59	0	0.035	1367.36
105	150	106	60	104	0.035	1367.34
106	151	107	61	105	0.035	1368.06
107	152	108	62	106	0.035	1367.52
108	153	109	63	107	0.035	1367.75
109	154	110	64	108	0.035	1368.60
110	155	111	65	109	0.035	1370.35
111	156	112	66	110	0.035	1371.40
112	157	113	67	111	0.035	1371.63
113	158	114	68	112	0.035	1370.75
114	159	115	69	113	0.035	1370.97
115	160	116	70	114	0.075	1371.90
116	161	117	71	115	0.075	1372.13
117	162	118	72	116	0.075	1372.46
118	163	119	73	117	0.075	1372.97
119	164	120	74	118	0.075	1373.29
120	165	121	75	119	0.075	1373.38
121	166	122	76	120	0.075	1373.50
122	167	123	77	121	0.075	1374.18
123	168	124	78	122	0.075	1374.13
124	169	125	79	123	0.075	1374.45
125	170	126	80	124	0.075	1374.98
126	171	127	81	125	0.075	1375.54
127	172	128	82	126	0.075	1376.49
128	173	129	83	127	0.075	1378.51
129	174	130	84	128	0.075	1379.07
130	175	131	85	129	0.075	1377.59
131	176	132	86	130	0.075	1377.42
132	177	133	87	131	0.075	1377.80
133	178	134	88	132	0.075	1377.86
134	179	135	89	133	0.075	1379.30
135	180	136	90	134	0.075	1379.90
136	181	137	91	135	0.075	1380.09
137	182	138	92	136	0.075	1380.09
138	183	139	93	137	0.075	1380.32
139	184	140	94	138	0.075	1380.91
140	185	141	95	139	0.075	1380.70
141	186	142	96	140	0.075	1380.96

Table E-1-E

FLO-2D Model
Existing Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
142	187	143	97	141	0.075	1382.25
143	188	144	98	142	0.075	1382.74
144	189	145	99	143	0.075	1383.85
145	190	146	100	144	0.075	1384.45
146	191	147	101	145	0.075	1385.00
147	192	148	102	146	0.075	1385.57
148	193	0	103	147	0.035	1386.86
149	194	150	104	0	0.035	1366.79
150	195	151	105	149	0.035	1366.58
151	196	152	106	150	0.035	1367.70
152	197	153	107	151	0.035	1369.58
153	198	154	108	152	0.035	1369.48
154	199	155	109	153	0.035	1368.61
155	200	156	110	154	0.035	1370.75
156	201	157	111	155	0.035	1371.80
157	202	158	112	156	0.035	1371.31
158	203	159	113	157	0.035	1370.47
159	204	160	114	158	0.035	1370.54
160	205	161	115	159	0.075	1371.47
161	206	162	116	160	0.075	1371.54
162	207	163	117	161	0.075	1372.16
163	208	164	118	162	0.075	1372.79
164	209	165	119	163	0.075	1373.20
165	210	166	120	164	0.075	1372.59
166	211	167	121	165	0.075	1373.15
167	212	168	122	166	0.075	1374.57
168	213	169	123	167	0.075	1373.74
169	214	170	124	168	0.075	1374.42
170	215	171	125	169	0.075	1375.11
171	216	172	126	170	0.075	1375.36
172	217	173	127	171	0.075	1376.64
173	218	174	128	172	0.075	1376.22
174	219	175	129	173	0.075	1376.39
175	220	176	130	174	0.075	1376.33
176	221	177	131	175	0.075	1377.29
177	222	178	132	176	0.075	1377.67
178	223	179	133	177	0.075	1378.10
179	224	180	134	178	0.075	1378.90
180	225	181	135	179	0.075	1379.76
181	226	182	136	180	0.075	1380.27
182	227	183	137	181	0.075	1380.35
183	228	184	138	182	0.075	1380.21
184	229	185	139	183	0.075	1381.12
185	230	186	140	184	0.075	1381.69
186	231	187	141	185	0.075	1383.16
187	232	188	142	186	0.075	1383.62
188	233	189	143	187	0.075	1383.59

Table E-1-E

FLO-2D Model
Existing Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
189	234	190	144	188	0.075	1383.65
190	235	191	145	189	0.075	1383.98
191	236	192	146	190	0.075	1386.08
192	237	193	147	191	0.035	1386.11
193	238	0	148	192	0.035	1387.82
194	239	195	149	0	0.035	1366.40
195	240	196	150	194	0.035	1366.20
196	241	197	151	195	0.035	1366.79
197	242	198	152	196	0.035	1368.33
198	243	199	153	197	0.035	1368.12
199	244	200	154	198	0.035	1370.40
200	245	201	155	199	0.035	1371.75
201	246	202	156	200	0.035	1371.88
202	247	203	157	201	0.035	1370.87
203	248	204	158	202	0.035	1370.33
204	249	205	159	203	0.075	1370.39
205	250	206	160	204	0.075	1371.27
206	251	207	161	205	0.075	1371.32
207	252	208	162	206	0.075	1372.12
208	253	209	163	207	0.075	1371.97
209	254	210	164	208	0.075	1372.27
210	255	211	165	209	0.075	1372.37
211	256	212	166	210	0.075	1372.88
212	257	213	167	211	0.075	1373.23
213	258	214	168	212	0.075	1373.91
214	259	215	169	213	0.075	1375.16
215	260	216	170	214	0.075	1376.33
216	261	217	171	215	0.075	1375.44
217	262	218	172	216	0.075	1376.07
218	263	219	173	217	0.075	1375.42
219	264	220	174	218	0.075	1375.98
220	265	221	175	219	0.075	1376.21
221	266	222	176	220	0.075	1376.84
222	267	223	177	221	0.075	1377.57
223	268	224	178	222	0.075	1377.49
224	269	225	179	223	0.075	1379.10
225	270	226	180	224	0.075	1379.93
226	271	227	181	225	0.075	1380.61
227	272	228	182	226	0.075	1380.54
228	273	229	183	227	0.075	1380.43
229	274	230	184	228	0.075	1381.29
230	275	231	185	229	0.075	1381.61
231	276	232	186	230	0.075	1382.48
232	277	233	187	231	0.075	1383.95
233	278	234	188	232	0.075	1384.48
234	279	235	189	233	0.075	1385.13
235	280	236	190	234	0.075	1386.16

Table E-1-E

FLO-2D Model
Existing Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
236	281	237	191	235	0.075	1386.93
237	282	238	192	236	0.075	1386.84
238	283	0	193	237	0.075	1388.41
239	284	240	194	0	0.075	1366.35
240	285	241	195	239	0.035	1366.17
241	286	242	196	240	0.035	1367.42
242	287	243	197	241	0.035	1368.09
243	288	244	198	242	0.035	1368.87
244	289	245	199	243	0.035	1370.16
245	290	246	200	244	0.035	1370.59
246	291	247	201	245	0.035	1370.90
247	292	248	202	246	0.035	1370.34
248	293	249	203	247	0.035	1369.98
249	294	250	204	248	0.075	1370.35
250	295	251	205	249	0.075	1370.83
251	296	252	206	250	0.075	1371.23
252	297	253	207	251	0.075	1371.92
253	298	254	208	252	0.075	1371.47
254	299	255	209	253	0.075	1371.91
255	300	256	210	254	0.075	1372.07
256	301	257	211	255	0.075	1372.73
257	302	258	212	256	0.075	1373.48
258	303	259	213	257	0.075	1374.27
259	304	260	214	258	0.075	1375.60
260	305	261	215	259	0.075	1376.75
261	306	262	216	260	0.075	1376.34
262	307	263	217	261	0.075	1376.55
263	308	264	218	262	0.075	1375.23
264	309	265	219	263	0.075	1375.56
265	310	266	220	264	0.075	1376.04
266	311	267	221	265	0.075	1376.35
267	312	268	222	266	0.075	1376.92
268	313	269	223	267	0.075	1377.17
269	314	270	224	268	0.075	1379.20
270	315	271	225	269	0.075	1380.31
271	316	272	226	270	0.075	1380.36
272	317	273	227	271	0.075	1380.70
273	318	274	228	272	0.075	1380.78
274	319	275	229	273	0.075	1381.08
275	320	276	230	274	0.075	1382.01
276	321	277	231	275	0.075	1382.52
277	322	278	232	276	0.075	1383.83
278	323	279	233	277	0.075	1384.15
279	324	280	234	278	0.075	1385.05
280	325	281	235	279	0.075	1386.02
281	326	282	236	280	0.075	1386.60
282	327	283	237	281	0.075	1386.89

Table E-1-E

FLO-2D Model
Existing Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
283	328	0	238	282	0.075	1388.72
284	329	285	239	0	0.035	1366.42
285	330	286	240	284	0.035	1366.20
286	331	287	241	285	0.035	1367.85
287	332	288	242	286	0.035	1369.45
288	333	289	243	287	0.035	1369.98
289	334	290	244	288	0.035	1369.89
290	335	291	245	289	0.035	1369.36
291	336	292	246	290	0.035	1370.27
292	337	293	247	291	0.035	1369.85
293	338	294	248	292	0.035	1369.92
294	339	295	249	293	0.035	1370.55
295	340	296	250	294	0.035	1371.06
296	341	297	251	295	0.035	1371.38
297	342	298	252	296	0.035	1371.62
298	343	299	253	297	0.075	1371.75
299	344	300	254	298	0.075	1372.03
300	345	301	255	299	0.075	1372.44
301	346	302	256	300	0.075	1372.52
302	347	303	257	301	0.075	1374.06
303	348	304	258	302	0.075	1374.26
304	349	305	259	303	0.075	1374.06
305	350	306	260	304	0.075	1374.47
306	351	307	261	305	0.075	1374.56
307	352	308	262	306	0.075	1375.89
308	353	309	263	307	0.075	1375.41
309	354	310	264	308	0.075	1375.65
310	355	311	265	309	0.075	1376.00
311	356	312	266	310	0.075	1376.70
312	357	313	267	311	0.075	1377.14
313	358	314	268	312	0.075	1377.73
314	359	315	269	313	0.075	1379.30
315	360	316	270	314	0.075	1379.32
316	361	317	271	315	0.075	1379.50
317	362	318	272	316	0.075	1379.47
318	363	319	273	317	0.075	1380.46
319	364	320	274	318	0.075	1381.58
320	365	321	275	319	0.075	1381.96
321	366	322	276	320	0.075	1382.79
322	367	323	277	321	0.075	1383.71
323	368	324	278	322	0.075	1384.15
324	369	325	279	323	0.075	1384.63
325	370	326	280	324	0.075	1386.01
326	371	327	281	325	0.075	1386.28
327	372	328	282	326	0.075	1386.76
328	373	0	283	327	0.075	1388.44
329	374	330	284	0	0.035	1366.39

Table E-1-E

FLO-2D Model
Existing Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
330	375	331	285	329	0.035	1366.33
331	376	332	286	330	0.035	1368.23
332	377	333	287	331	0.035	1369.29
333	378	334	288	332	0.035	1369.88
334	379	335	289	333	0.035	1369.60
335	380	336	290	334	0.035	1369.07
336	381	337	291	335	0.035	1369.11
337	382	338	292	336	0.035	1369.34
338	383	339	293	337	0.035	1369.68
339	384	340	294	338	0.035	1370.67
340	385	341	295	339	0.035	1371.04
341	386	342	296	340	0.035	1371.44
342	387	343	297	341	0.035	1371.76
343	388	344	298	342	0.075	1371.65
344	389	345	299	343	0.075	1372.09
345	390	346	300	344	0.075	1372.67
346	391	347	301	345	0.075	1372.50
347	392	348	302	346	0.075	1374.46
348	393	349	303	347	0.075	1374.67
349	394	350	304	348	0.075	1373.95
350	395	351	305	349	0.075	1374.69
351	396	352	306	350	0.075	1375.13
352	397	353	307	351	0.075	1375.69
353	398	354	308	352	0.075	1375.51
354	399	355	309	353	0.075	1375.62
355	400	356	310	354	0.075	1375.92
356	401	357	311	355	0.075	1376.76
357	402	358	312	356	0.075	1377.19
358	403	359	313	357	0.075	1377.38
359	404	360	314	358	0.075	1379.35
360	405	361	315	359	0.075	1378.83
361	406	362	316	360	0.075	1379.21
362	407	363	317	361	0.075	1379.43
363	408	364	318	362	0.075	1381.29
364	409	365	319	363	0.075	1381.68
365	410	366	320	364	0.075	1381.99
366	411	367	321	365	0.075	1382.60
367	412	368	322	366	0.075	1383.01
368	413	369	323	367	0.075	1383.86
369	414	370	324	368	0.075	1384.52
370	415	371	325	369	0.075	1385.97
371	416	372	326	370	0.075	1386.77
372	417	373	327	371	0.075	1386.70
373	418	0	328	372	0.075	1388.39
374	419	375	329	0	0.035	1366.42
375	420	376	330	374	0.035	1366.25
376	421	377	331	375	0.035	1368.07

Table E-1-E

FLO-2D Model
Existing Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
377	422	378	332	376	0.035	1369.09
378	423	379	333	377	0.035	1369.20
379	424	380	334	378	0.035	1369.14
380	425	381	335	379	0.035	1368.69
381	426	382	336	380	0.035	1369.00
382	427	383	337	381	0.035	1369.16
383	428	384	338	382	0.035	1369.54
384	429	385	339	383	0.035	1370.79
385	430	386	340	384	0.035	1371.03
386	431	387	341	385	0.035	1371.38
387	432	388	342	386	0.035	1371.69
388	433	389	343	387	0.035	1371.81
389	434	390	344	388	0.075	1372.22
390	435	391	345	389	0.075	1372.57
391	436	392	346	390	0.075	1372.49
392	437	393	347	391	0.075	1373.38
393	438	394	348	392	0.075	1373.73
394	439	395	349	393	0.075	1373.91
395	440	396	350	394	0.075	1374.92
396	441	397	351	395	0.075	1375.35
397	442	398	352	396	0.035	1375.66
398	443	399	353	397	0.035	1375.66
399	444	400	354	398	0.035	1375.81
400	445	401	355	399	0.035	1376.11
401	446	402	356	400	0.035	1376.91
402	447	403	357	401	0.035	1377.21
403	448	404	358	402	0.035	1377.43
404	449	405	359	403	0.035	1379.20
405	450	406	360	404	0.075	1378.77
406	451	407	361	405	0.075	1379.47
407	452	408	362	406	0.075	1379.60
408	453	409	363	407	0.075	1381.73
409	454	410	364	408	0.075	1381.83
410	455	411	365	409	0.075	1382.08
411	456	412	366	410	0.075	1382.80
412	457	413	367	411	0.075	1383.41
413	458	414	368	412	0.075	1383.85
414	459	415	369	413	0.075	1385.76
415	460	416	370	414	0.075	1386.64
416	461	417	371	415	0.075	1386.63
417	462	418	372	416	0.075	1386.49
418	463	0	373	417	0.075	1387.68
419	464	420	374	0	0.035	1366.46
420	465	421	375	419	0.035	1366.26
421	466	422	376	420	0.035	1367.39
422	467	423	377	421	0.035	1368.09
423	468	424	378	422	0.035	1368.37

Table E-1-E

FLO-2D Model
Existing Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
424	469	425	379	423	0.035	1368.59
425	470	426	380	424	0.035	1368.64
426	471	427	381	425	0.035	1369.20
427	472	428	382	426	0.035	1370.00
428	473	429	383	427	0.035	1370.56
429	474	430	384	428	0.035	1370.90
430	475	431	385	429	0.035	1371.11
431	476	432	386	430	0.035	1371.45
432	477	433	387	431	0.075	1371.78
433	478	434	388	432	0.075	1371.89
434	479	435	389	433	0.075	1372.07
435	480	436	390	434	0.075	1372.39
436	481	437	391	435	0.075	1372.65
437	482	438	392	436	0.075	1373.55
438	483	439	393	437	0.075	1374.01
439	484	440	394	438	0.075	1373.62
440	485	441	395	439	0.075	1375.10
441	486	442	396	440	0.035	1375.32
442	487	443	397	441	0.035	1375.35
443	488	444	398	442	0.035	1375.74
444	489	445	399	443	0.035	1376.11
445	490	446	400	444	0.035	1376.53
446	491	447	401	445	0.035	1377.18
447	492	448	402	446	0.035	1377.83
448	493	449	403	447	0.035	1378.10
449	494	450	404	448	0.035	1379.30
450	495	451	405	449	0.075	1379.25
451	496	452	406	450	0.075	1379.86
452	497	453	407	451	0.075	1379.94
453	498	454	408	452	0.075	1382.01
454	499	455	409	453	0.075	1382.49
455	500	456	410	454	0.075	1383.00
456	501	457	411	455	0.075	1383.00
457	502	458	412	456	0.075	1383.92
458	503	459	413	457	0.075	1384.42
459	504	460	414	458	0.075	1384.95
460	505	461	415	459	0.075	1385.37
461	506	462	416	460	0.075	1385.63
462	507	463	417	461	0.075	1385.25
463	508	0	418	462	0.075	1386.91
464	509	465	419	0	0.035	1366.38
465	510	466	420	464	0.035	1366.14
466	511	467	421	465	0.035	1367.39
467	512	468	422	466	0.035	1368.40
468	513	469	423	467	0.035	1368.80
469	514	470	424	468	0.035	1369.00
470	515	471	425	469	0.035	1369.30

Table E-1-E

FLO-2D Model
Existing Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
471	516	472	426	470	0.035	1370.11
472	517	473	427	471	0.035	1370.10
473	518	474	428	472	0.035	1371.40
474	519	475	429	473	0.035	1371.20
475	520	476	430	474	0.035	1371.33
476	521	477	431	475	0.035	1371.10
477	522	478	432	476	0.035	1369.56
478	523	479	433	477	0.075	1372.27
479	524	480	434	478	0.075	1372.52
480	525	481	435	479	0.075	1373.07
481	526	482	436	480	0.075	1372.60
482	527	483	437	481	0.075	1374.03
483	528	484	438	482	0.075	1374.31
484	529	485	439	483	0.075	1374.28
485	530	486	440	484	0.075	1375.34
486	531	487	441	485	0.035	1375.52
487	532	488	442	486	0.035	1375.58
488	533	489	443	487	0.035	1376.02
489	534	490	444	488	0.035	1376.39
490	535	491	445	489	0.035	1376.78
491	536	492	446	490	0.035	1377.71
492	537	493	447	491	0.035	1378.15
493	538	494	448	492	0.035	1378.57
494	539	495	449	493	0.035	1379.64
495	540	496	450	494	0.075	1379.86
496	541	497	451	495	0.075	1380.81
497	542	498	452	496	0.075	1381.02
498	543	499	453	497	0.075	1381.53
499	544	500	454	498	0.075	1382.48
500	545	501	455	499	0.075	1382.66
501	546	502	456	500	0.075	1383.16
502	547	503	457	501	0.075	1384.06
503	548	504	458	502	0.075	1384.29
504	549	505	459	503	0.075	1384.90
505	550	506	460	504	0.075	1385.18
506	551	507	461	505	0.075	1385.66
507	552	508	462	506	0.075	1384.23
508	553	0	463	507	0.075	1386.22
509	554	510	464	0	0.035	1366.41
510	555	511	465	509	0.035	1366.06
511	556	512	466	510	0.035	1366.93
512	557	513	467	511	0.035	1369.52
513	558	514	468	512	0.035	1369.83
514	559	515	469	513	0.035	1369.75
515	560	516	470	514	0.035	1369.72
516	561	517	471	515	0.035	1369.85
517	562	518	472	516	0.035	1367.32

Table E-1-E

FLO-2D Model
Existing Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
518	563	519	473	517	0.035	1370.06
519	564	520	474	518	0.035	1370.53
520	565	521	475	519	0.035	1371.04
521	566	522	476	520	0.035	1371.21
522	567	523	477	521	0.075	1371.18
523	568	524	478	522	0.075	1372.08
524	569	525	479	523	0.075	1372.65
525	570	526	480	524	0.075	1373.03
526	571	527	481	525	0.075	1372.71
527	572	528	482	526	0.075	1373.58
528	573	529	483	527	0.075	1374.21
529	574	530	484	528	0.075	1374.50
530	575	531	485	529	0.075	1376.43
531	576	532	486	530	0.075	1376.50
532	577	533	487	531	0.035	1376.25
533	578	534	488	532	0.035	1376.28
534	579	535	489	533	0.035	1376.71
535	580	536	490	534	0.035	1376.93
536	581	537	491	535	0.035	1377.30
537	582	538	492	536	0.035	1378.03
538	583	539	493	537	0.035	1378.83
539	584	540	494	538	0.035	1379.55
540	585	541	495	539	0.075	1380.32
541	586	542	496	540	0.075	1380.99
542	587	543	497	541	0.075	1381.32
543	588	544	498	542	0.075	1381.74
544	589	545	499	543	0.075	1382.68
545	590	546	500	544	0.075	1382.58
546	591	547	501	545	0.075	1382.44
547	592	548	502	546	0.075	1383.70
548	593	549	503	547	0.075	1383.66
549	594	550	504	548	0.075	1384.22
550	595	551	505	549	0.075	1385.24
551	596	552	506	550	0.075	1384.50
552	597	553	507	551	0.075	1384.50
553	598	0	508	552	0.075	1387.00
554	599	555	509	0	0.035	1366.29
555	600	556	510	554	0.035	1366.05
556	601	557	511	555	0.035	1367.02
557	602	558	512	556	0.035	1369.55
558	603	559	513	557	0.035	1369.69
559	604	560	514	558	0.035	1369.58
560	605	561	515	559	0.035	1369.53
561	606	562	516	560	0.035	1369.33
562	607	563	517	561	0.035	1367.11
563	608	564	518	562	0.035	1369.92
564	609	565	519	563	0.035	1370.43

Table E-1-E

FLO-2D Model
Existing Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
565	610	566	520	564	0.035	1371.18
566	611	567	521	565	0.035	1371.48
567	612	568	522	566	0.035	1371.66
568	613	569	523	567	0.075	1372.40
569	614	570	524	568	0.075	1372.61
570	615	571	525	569	0.075	1372.79
571	616	572	526	570	0.075	1372.58
572	617	573	527	571	0.075	1373.75
573	618	574	528	572	0.075	1374.00
574	619	575	529	573	0.075	1374.35
575	620	576	530	574	0.075	1376.57
576	621	577	531	575	0.075	1376.67
577	622	578	532	576	0.075	1376.67
578	623	579	533	577	0.035	1376.37
579	624	580	534	578	0.035	1376.99
580	625	581	535	579	0.035	1377.21
581	626	582	536	580	0.035	1377.64
582	627	583	537	581	0.035	1377.77
583	628	584	538	582	0.035	1378.50
584	629	585	539	583	0.035	1379.60
585	630	586	540	584	0.035	1379.66
586	631	587	541	585	0.075	1380.24
587	632	588	542	586	0.075	1380.96
588	633	589	543	587	0.075	1381.24
589	634	590	544	588	0.075	1382.05
590	635	591	545	589	0.075	1381.44
591	636	592	546	590	0.075	1380.50
592	637	593	547	591	0.075	1382.98
593	638	594	548	592	0.075	1383.00
594	639	595	549	593	0.075	1383.00
595	640	596	550	594	0.075	1384.00
596	641	597	551	595	0.075	1384.69
597	642	598	552	596	0.075	1384.56
598	643	0	553	597	0.075	1386.13
599	644	600	554	0	0.035	1366.05
600	645	601	555	599	0.035	1366.02
601	646	602	556	600	0.035	1367.30
602	647	603	557	601	0.035	1368.80
603	648	604	558	602	0.035	1369.24
604	649	605	559	603	0.035	1369.30
605	650	606	560	604	0.035	1369.36
606	651	607	561	605	0.035	1369.37
607	652	608	562	606	0.035	1368.28
608	653	609	563	607	0.035	1369.86
609	654	610	564	608	0.035	1370.29
610	655	611	565	609	0.035	1371.01
611	656	612	566	610	0.035	1371.32

Table E-1-E

FLO-2D Model
Existing Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
612	657	613	567	611	0.035	1371.53
613	658	614	568	612	0.075	1371.77
614	659	615	569	613	0.075	1372.77
615	660	616	570	614	0.075	1372.91
616	661	617	571	615	0.075	1372.53
617	662	618	572	616	0.075	1374.19
618	663	619	573	617	0.075	1374.25
619	664	620	574	618	0.075	1374.33
620	665	621	575	619	0.075	1375.68
621	666	622	576	620	0.075	1375.75
622	667	623	577	621	0.075	1376.02
623	668	624	578	622	0.035	1376.40
624	669	625	579	623	0.035	1376.96
625	670	626	580	624	0.035	1377.30
626	671	627	581	625	0.035	1377.87
627	672	628	582	626	0.035	1378.56
628	673	629	583	627	0.035	1378.74
629	674	630	584	628	0.035	1379.55
630	675	631	585	629	0.075	1380.05
631	676	632	586	630	0.075	1380.23
632	677	633	587	631	0.075	1380.86
633	678	634	588	632	0.075	1381.20
634	679	635	589	633	0.075	1381.90
635	680	636	590	634	0.075	1382.00
636	681	637	591	635	0.075	1381.81
637	682	638	592	636	0.075	1382.74
638	683	639	593	637	0.075	1383.18
639	684	640	594	638	0.075	1383.33
640	685	641	595	639	0.075	1384.49
641	686	642	596	640	0.075	1385.26
642	687	643	597	641	0.075	1385.43
643	688	0	598	642	0.075	1386.54
644	689	645	599	0	0.035	1365.90
645	690	646	600	644	0.035	1365.93
646	691	647	601	645	0.035	1366.50
647	692	648	602	646	0.035	1367.20
648	693	649	603	647	0.035	1367.56
649	694	650	604	648	0.035	1367.63
650	695	651	605	649	0.035	1368.34
651	696	652	606	650	0.035	1368.61
652	697	653	607	651	0.035	1369.09
653	698	654	608	652	0.035	1369.64
654	699	655	609	653	0.035	1370.00
655	700	656	610	654	0.035	1370.47
656	701	657	611	655	0.035	1370.87
657	702	658	612	656	0.035	1371.16
658	703	659	613	657	0.035	1372.52

Table E-1-E

FLO-2D Model
Existing Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
659	704	660	614	658	0.035	1372.16
660	705	661	615	659	0.035	1372.47
661	706	662	616	660	0.035	1372.54
662	707	663	617	661	0.035	1372.57
663	708	664	618	662	0.035	1373.57
664	709	665	619	663	0.035	1373.76
665	710	666	620	664	0.035	1374.52
666	711	667	621	665	0.035	1375.14
667	712	668	622	666	0.035	1375.50
668	713	669	623	667	0.035	1376.48
669	714	670	624	668	0.035	1377.27
670	715	671	625	669	0.035	1377.67
671	716	672	626	670	0.035	1378.02
672	717	673	627	671	0.035	1378.53
673	718	674	628	672	0.035	1379.04
674	719	675	629	673	0.035	1379.55
675	720	676	630	674	0.035	1380.09
676	721	677	631	675	0.075	1379.71
677	722	678	632	676	0.075	1380.50
678	723	679	633	677	0.075	1381.24
679	724	680	634	678	0.075	1381.52
680	725	681	635	679	0.075	1381.71
681	726	682	636	680	0.075	1381.55
682	727	683	637	681	0.075	1382.51
683	728	684	638	682	0.075	1383.13
684	729	685	639	683	0.075	1383.61
685	730	686	640	684	0.075	1384.65
686	731	687	641	685	0.075	1385.31
687	732	688	642	686	0.075	1386.27
688	733	0	643	687	0.035	1386.78
689	734	690	644	0	0.035	1365.83
690	735	691	645	689	0.035	1365.80
691	736	692	646	690	0.035	1366.16
692	737	693	647	691	0.035	1366.58
693	738	694	648	692	0.035	1367.29
694	739	695	649	693	0.035	1368.15
695	740	696	650	694	0.035	1368.74
696	741	697	651	695	0.035	1369.01
697	742	698	652	696	0.035	1369.40
698	743	699	653	697	0.035	1369.40
699	744	700	654	698	0.035	1369.63
700	745	701	655	699	0.035	1369.87
701	746	702	656	700	0.035	1370.35
702	747	703	657	701	0.035	1371.10
703	748	704	658	702	0.075	1373.28
704	749	705	659	703	0.075	1373.82
705	750	706	660	704	0.075	1373.70

Table E-1-E

FLO-2D Model
Existing Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
706	751	707	661	705	0.075	1372.54
707	752	708	662	706	0.075	1373.31
708	753	709	663	707	0.075	1373.95
709	754	710	664	708	0.075	1373.76
710	755	711	665	709	0.075	1375.25
711	756	712	666	710	0.075	1375.69
712	757	713	667	711	0.075	1375.69
713	758	714	668	712	0.075	1377.46
714	759	715	669	713	0.075	1377.89
715	760	716	670	714	0.075	1378.44
716	761	717	671	715	0.075	1378.38
717	762	718	672	716	0.075	1376.98
718	763	719	673	717	0.075	1377.94
719	764	720	674	718	0.075	1376.90
720	765	721	675	719	0.075	1379.62
721	766	722	676	720	0.075	1379.50
722	767	723	677	721	0.075	1381.48
723	768	724	678	722	0.075	1381.79
724	769	725	679	723	0.075	1381.69
725	770	726	680	724	0.075	1382.26
726	771	727	681	725	0.075	1383.96
727	772	728	682	726	0.075	1384.28
728	773	729	683	727	0.075	1384.80
729	774	730	684	728	0.075	1385.60
730	775	731	685	729	0.075	1386.31
731	776	732	686	730	0.075	1386.67
732	777	733	687	731	0.035	1387.12
733	778	0	688	732	0.035	1389.37
734	779	735	689	0	0.035	1365.82
735	780	736	690	734	0.035	1365.63
736	781	737	691	735	0.035	1366.28
737	782	738	692	736	0.035	1366.81
738	783	739	693	737	0.035	1367.14
739	784	740	694	738	0.035	1367.74
740	785	741	695	739	0.035	1368.06
741	786	742	696	740	0.035	1368.41
742	787	743	697	741	0.035	1368.82
743	788	744	698	742	0.035	1369.09
744	789	745	699	743	0.035	1369.48
745	790	746	700	744	0.035	1369.77
746	791	747	701	745	0.035	1370.26
747	792	748	702	746	0.035	1371.13
748	793	749	703	747	0.075	1372.63
749	794	750	704	748	0.075	1373.69
750	795	751	705	749	0.075	1373.83
751	796	752	706	750	0.075	1372.59
752	797	753	707	751	0.075	1372.97

Table E-1-E

FLO-2D Model
Existing Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
753	798	754	708	752	0.075	1373.79
754	799	755	709	753	0.075	1374.36
755	800	756	710	754	0.075	1375.60
756	801	757	711	755	0.075	1375.64
757	802	758	712	756	0.075	1375.67
758	803	759	713	757	0.075	1377.89
759	804	760	714	758	0.075	1378.21
760	805	761	715	759	0.075	1378.07
761	806	762	716	760	0.075	1377.68
762	807	763	717	761	0.075	1377.74
763	808	764	718	762	0.075	1377.00
764	809	765	719	763	0.075	1375.38
765	810	766	720	764	0.075	1379.06
766	811	767	721	765	0.075	1381.48
767	812	768	722	766	0.075	1381.48
768	813	769	723	767	0.035	1380.34
769	814	770	724	768	0.035	1380.55
770	815	771	725	769	0.035	1380.87
771	816	772	726	770	0.035	1384.08
772	817	773	727	771	0.035	1384.65
773	818	774	728	772	0.035	1385.47
774	819	775	729	773	0.035	1386.06
775	820	776	730	774	0.035	1386.76
776	821	777	731	775	0.035	1387.34
777	822	778	732	776	0.035	1388.01
778	823	0	733	777	0.035	1389.44
779	824	780	734	0	0.080	1365.79
780	825	781	735	779	0.080	1365.46
781	826	782	736	780	0.080	1366.08
782	827	783	737	781	0.080	1366.59
783	828	784	738	782	0.080	1367.02
784	829	785	739	783	0.080	1367.56
785	830	786	740	784	0.080	1367.65
786	831	787	741	785	0.080	1367.76
787	832	788	742	786	0.080	1368.27
788	833	789	743	787	0.080	1368.94
789	834	790	744	788	0.080	1369.23
790	835	791	745	789	0.080	1369.75
791	836	792	746	790	0.080	1370.53
792	837	793	747	791	0.080	1371.08
793	838	794	748	792	0.075	1372.37
794	839	795	749	793	0.075	1373.65
795	840	796	750	794	0.075	1373.75
796	841	797	751	795	0.075	1372.49
797	842	798	752	796	0.075	1372.75
798	843	799	753	797	0.075	1373.51
799	844	800	754	798	0.075	1373.80

Table E-1-E

FLO-2D Model
Existing Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
800	845	801	755	799	0.075	1374.48
801	846	802	756	800	0.075	1374.85
802	847	803	757	801	0.075	1375.33
803	848	804	758	802	0.075	1374.88
804	849	805	759	803	0.075	1374.57
805	850	806	760	804	0.075	1376.74
806	851	807	761	805	0.075	1377.15
807	852	808	762	806	0.075	1379.70
808	853	809	763	807	0.075	1379.88
809	854	810	764	808	0.075	1377.49
810	855	811	765	809	0.075	1379.23
811	856	812	766	810	0.075	1379.66
812	857	813	767	811	0.075	1379.86
813	858	814	768	812	0.035	1380.23
814	859	815	769	813	0.035	1380.44
815	860	816	770	814	0.035	1381.04
816	861	817	771	815	0.035	1383.85
817	862	818	772	816	0.035	1384.93
818	863	819	773	817	0.035	1385.67
819	864	820	774	818	0.035	1386.36
820	865	821	775	819	0.035	1387.00
821	866	822	776	820	0.035	1387.78
822	867	823	777	821	0.035	1388.79
823	868	0	778	822	0.035	1389.90
824	869	825	779	0	0.035	1365.67
825	870	826	780	824	0.035	1365.20
826	871	827	781	825	0.035	1365.56
827	872	828	782	826	0.080	1366.03
828	873	829	783	827	0.080	1366.51
829	874	830	784	828	0.100	1367.11
830	875	831	785	829	0.100	1367.33
831	876	832	786	830	0.100	1367.36
832	877	833	787	831	0.100	1367.86
833	878	834	788	832	0.100	1368.42
834	879	835	789	833	0.100	1368.93
835	880	836	790	834	0.100	1369.56
836	881	837	791	835	0.100	1370.14
837	882	838	792	836	0.100	1370.61
838	883	839	793	837	0.100	1372.61
839	884	840	794	838	0.075	1373.11
840	885	841	795	839	0.075	1373.04
841	886	842	796	840	0.075	1371.97
842	887	843	797	841	0.075	1373.70
843	888	844	798	842	0.075	1373.58
844	889	845	799	843	0.075	1374.10
845	890	846	800	844	0.075	1374.66
846	891	847	801	845	0.075	1375.09

Table E-1-E

FLO-2D Model
Existing Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
847	892	848	802	846	0.075	1375.57
848	893	849	803	847	0.075	1374.38
849	894	850	804	848	0.075	1376.50
850	895	851	805	849	0.075	1376.70
851	896	852	806	850	0.075	1376.70
852	897	853	807	851	0.075	1380.16
853	898	854	808	852	0.075	1380.06
854	899	855	809	853	0.075	1378.84
855	900	856	810	854	0.075	1380.55
856	901	857	811	855	0.075	1380.55
857	902	858	812	856	0.075	1380.55
858	903	859	813	857	0.035	1380.46
859	904	860	814	858	0.035	1380.66
860	905	861	815	859	0.035	1381.06
861	906	862	816	860	0.035	1383.86
862	907	863	817	861	0.035	1385.05
863	908	864	818	862	0.035	1385.65
864	909	865	819	863	0.035	1386.61
865	910	866	820	864	0.035	1387.40
866	911	867	821	865	0.035	1388.17
867	912	868	822	866	0.035	1389.47
868	913	0	823	867	0.035	1390.77
869	914	870	824	0	0.035	1365.50
870	915	871	825	869	0.035	1365.14
871	916	872	826	870	0.035	1365.61
872	917	873	827	871	0.100	1366.11
873	918	874	828	872	0.100	1366.48
874	919	875	829	873	0.100	1367.06
875	920	876	830	874	0.100	1367.64
876	921	877	831	875	0.100	1367.69
877	922	878	832	876	0.100	1367.98
878	923	879	833	877	0.100	1368.59
879	924	880	834	878	0.100	1369.11
880	925	881	835	879	0.100	1369.63
881	926	882	836	880	0.100	1370.35
882	927	883	837	881	0.100	1370.75
883	928	884	838	882	0.075	1371.69
884	929	885	839	883	0.075	1372.20
885	930	886	840	884	0.075	1372.16
886	931	887	841	885	0.075	1370.50
887	932	888	842	886	0.075	1373.20
888	933	889	843	887	0.075	1373.63
889	934	890	844	888	0.075	1374.13
890	935	891	845	889	0.075	1374.93
891	936	892	846	890	0.075	1374.22
892	937	893	847	891	0.075	1375.16
893	938	894	848	892	0.075	1375.50

Table E-1-E

FLO-2D Model
Existing Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
894	939	895	849	893	0.075	1376.12
895	940	896	850	894	0.075	1376.13
896	941	897	851	895	0.075	1376.85
897	942	898	852	896	0.075	1379.52
898	943	899	853	897	0.075	1379.64
899	944	900	854	898	0.075	1379.25
900	945	901	855	899	0.075	1380.55
901	946	902	856	900	0.075	1380.55
902	947	903	857	901	0.075	1380.55
903	948	904	858	902	0.035	1381.65
904	949	905	859	903	0.035	1381.98
905	950	906	860	904	0.035	1382.56
906	951	907	861	905	0.035	1383.70
907	952	908	862	906	0.035	1384.93
908	953	909	863	907	0.035	1385.72
909	954	910	864	908	0.035	1386.77
910	955	911	865	909	0.035	1387.67
911	956	912	866	910	0.035	1388.43
912	957	913	867	911	0.035	1389.97
913	958	0	868	912	0.035	1392.54
914	959	915	869	0	0.035	1365.36
915	960	916	870	914	0.035	1365.07
916	961	917	871	915	0.035	1365.82
917	962	918	872	916	0.080	1366.39
918	963	919	873	917	0.080	1366.74
919	964	920	874	918	0.080	1367.07
920	965	921	875	919	0.080	1367.60
921	966	922	876	920	0.080	1367.89
922	967	923	877	921	0.080	1368.02
923	968	924	878	922	0.080	1368.57
924	969	925	879	923	0.080	1369.05
925	970	926	880	924	0.080	1369.64
926	971	927	881	925	0.080	1370.37
927	972	928	882	926	0.100	1370.82
928	973	929	883	927	0.035	1371.31
929	974	930	884	928	0.035	1371.82
930	975	931	885	929	0.035	1372.07
931	976	932	886	930	0.035	1369.45
932	977	933	887	931	0.035	1373.07
933	978	934	888	932	0.035	1373.20
934	979	935	889	933	0.075	1374.00
935	980	936	890	934	0.075	1373.50
936	981	937	891	935	0.075	1374.75
937	982	938	892	936	0.075	1375.55
938	983	939	893	937	0.075	1377.30
939	984	940	894	938	0.075	1377.55
940	985	941	895	939	0.075	1377.74

Table E-1-E

FLO-2D Model
Existing Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
941	986	942	896	940	0.075	1378.25
942	987	943	897	941	0.075	1378.29
943	988	944	898	942	0.075	1379.80
944	989	945	899	943	0.075	1379.24
945	990	946	900	944	0.075	1381.95
946	991	947	901	945	0.075	1382.30
947	992	948	902	946	0.075	1382.65
948	993	949	903	947	0.035	1381.79
949	994	950	904	948	0.035	1382.76
950	995	951	905	949	0.035	1383.56
951	996	952	906	950	0.035	1383.65
952	997	953	907	951	0.035	1384.33
953	998	954	908	952	0.035	1385.90
954	999	955	909	953	0.035	1386.82
955	1000	956	910	954	0.035	1387.74
956	1001	957	911	955	0.035	1388.50
957	1002	958	912	956	0.035	1390.23
958	1003	0	913	957	0.035	1392.38
959	1004	960	914	0	0.035	1365.22
960	1005	961	915	959	0.035	1365.02
961	1006	962	916	960	0.035	1366.11
962	1007	963	917	961	0.100	1366.59
963	1008	964	918	962	0.100	1366.78
964	1009	965	919	963	0.100	1366.93
965	1010	966	920	964	0.080	1367.28
966	1011	967	921	965	0.080	1367.81
967	1012	968	922	966	0.080	1368.19
968	1013	969	923	967	0.080	1368.51
969	1014	970	924	968	0.080	1369.11
970	1015	971	925	969	0.080	1369.53
971	1016	972	926	970	0.080	1370.04
972	1017	973	927	971	0.080	1370.26
973	1018	974	928	972	0.075	1371.00
974	1019	975	929	973	0.075	1371.50
975	1020	976	930	974	0.075	1371.92
976	1021	977	931	975	0.075	1369.20
977	1022	978	932	976	0.075	1372.45
978	1023	979	933	977	0.075	1373.36
979	1024	980	934	978	0.075	1373.95
980	1025	981	935	979	0.075	1375.92
981	1026	982	936	980	0.075	1377.24
982	1027	983	937	981	0.075	1375.86
983	1028	984	938	982	0.075	1377.17
984	1029	985	939	983	0.075	1377.51
985	1030	986	940	984	0.075	1377.79
986	1031	987	941	985	0.075	1378.11
987	1032	988	942	986	0.075	1378.17

Table E-1-E

FLO-2D Model
Existing Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
988	1033	989	943	987	0.075	1379.54
989	1034	990	944	988	0.075	1379.23
990	1035	991	945	989	0.075	1381.95
991	1036	992	946	990	0.075	1382.30
992	1037	993	947	991	0.075	1382.65
993	1038	994	948	992	0.035	1382.22
994	1039	995	949	993	0.035	1383.14
995	1040	996	950	994	0.035	1383.64
996	1041	997	951	995	0.035	1383.65
997	1042	998	952	996	0.035	1384.82
998	1043	999	953	997	0.035	1385.92
999	1044	1000	954	998	0.035	1386.12
1000	1045	1001	955	999	0.035	1387.59
1001	1046	1002	956	1000	0.035	1388.75
1002	1047	1003	957	1001	0.035	1390.39
1003	1048	0	958	1002	0.035	1391.01
1004	1049	1005	959	0	0.035	1365.14
1005	1050	1006	960	1004	0.035	1365.03
1006	1051	1007	961	1005	0.035	1366.04
1007	1052	1008	962	1006	0.100	1366.55
1008	1053	1009	963	1007	0.100	1366.71
1009	1054	1010	964	1008	0.100	1366.78
1010	1055	1011	965	1009	0.100	1367.15
1011	1056	1012	966	1010	0.100	1367.75
1012	1057	1013	967	1011	0.100	1368.03
1013	1058	1014	968	1012	0.100	1368.33
1014	1059	1015	969	1013	0.100	1368.75
1015	1060	1016	970	1014	0.100	1369.00
1016	1061	1017	971	1015	0.080	1369.60
1017	1062	1018	972	1016	0.080	1370.23
1018	1063	1019	973	1017	0.075	1369.65
1019	1064	1020	974	1018	0.075	1372.57
1020	1065	1021	975	1019	0.075	1373.29
1021	1066	1022	976	1020	0.075	1370.15
1022	1067	1023	977	1021	0.075	1372.95
1023	1068	1024	978	1022	0.075	1373.38
1024	1069	1025	979	1023	0.075	1374.05
1025	1070	1026	980	1024	0.075	1376.98
1026	1071	1027	981	1025	0.075	1377.29
1027	1072	1028	982	1026	0.075	1375.27
1028	1073	1029	983	1027	0.075	1375.82
1029	1074	1030	984	1028	0.075	1376.28
1030	1075	1031	985	1029	0.075	1376.80
1031	1076	1032	986	1030	0.075	1377.63
1032	1077	1033	987	1031	0.075	1378.30
1033	1078	1034	988	1032	0.075	1378.66
1034	1079	1035	989	1033	0.075	1379.24

Table E-1-E

FLO-2D Model
Existing Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
1035	1080	1036	990	1034	0.075	1379.80
1036	1081	1037	991	1035	0.075	1381.15
1037	1082	1038	992	1036	0.075	1382.55
1038	1083	1039	993	1037	0.035	1383.04
1039	1084	1040	994	1038	0.035	1383.52
1040	1085	1041	995	1039	0.035	1383.88
1041	1086	1042	996	1040	0.035	1383.99
1042	1087	1043	997	1041	0.035	1385.70
1043	1088	1044	998	1042	0.035	1386.38
1044	1089	1045	999	1043	0.035	1388.05
1045	1090	1046	1000	1044	0.035	1388.94
1046	1091	1047	1001	1045	0.035	1389.08
1047	1092	1048	1002	1046	0.035	1390.19
1048	1093	0	1003	1047	0.035	1392.72
1049	1094	1050	1004	0	0.035	1365.15
1050	1095	1051	1005	1049	0.035	1364.94
1051	1096	1052	1006	1050	0.035	1365.68
1052	1097	1053	1007	1051	0.100	1366.39
1053	1098	1054	1008	1052	0.100	1366.35
1054	1099	1055	1009	1053	0.100	1366.53
1055	1100	1056	1010	1054	0.100	1366.84
1056	1101	1057	1011	1055	0.100	1367.36
1057	1102	1058	1012	1056	0.100	1367.76
1058	1103	1059	1013	1057	0.100	1368.12
1059	1104	1060	1014	1058	0.100	1368.10
1060	1105	1061	1015	1059	0.100	1369.09
1061	1106	1062	1016	1060	0.080	1369.65
1062	1107	1063	1017	1061	0.080	1370.53
1063	1108	1064	1018	1062	0.075	1370.86
1064	1109	1065	1019	1063	0.075	1373.15
1065	1110	1066	1020	1064	0.075	1373.30
1066	1111	1067	1021	1065	0.075	1371.60
1067	1112	1068	1022	1066	0.075	1373.67
1068	1113	1069	1023	1067	0.075	1373.74
1069	1114	1070	1024	1068	0.075	1373.76
1070	1115	1071	1025	1069	0.075	1374.91
1071	1116	1072	1026	1070	0.075	1375.68
1072	1117	1073	1027	1071	0.075	1375.35
1073	1118	1074	1028	1072	0.075	1375.41
1074	1119	1075	1029	1073	0.075	1376.98
1075	1120	1076	1030	1074	0.075	1377.35
1076	1121	1077	1031	1075	0.075	1378.22
1077	1122	1078	1032	1076	0.075	1378.32
1078	1123	1079	1033	1077	0.075	1379.52
1079	1124	1080	1034	1078	0.075	1379.50
1080	1125	1081	1035	1079	0.075	1381.70
1081	1126	1082	1036	1080	0.075	1382.60

Table E-1-E

FLO-2D Model
Existing Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
1082	1127	1083	1037	1081	0.075	1383.55
1083	1128	1084	1038	1082	0.035	1383.51
1084	1129	1085	1039	1083	0.035	1383.74
1085	1130	1086	1040	1084	0.035	1384.07
1086	1131	1087	1041	1085	0.035	1384.43
1087	1132	1088	1042	1086	0.035	1385.47
1088	1133	1089	1043	1087	0.035	1388.08
1089	1134	1090	1044	1088	0.035	1391.03
1090	1135	1091	1045	1089	0.035	1391.04
1091	1136	1092	1046	1090	0.035	1391.11
1092	1137	1093	1047	1091	0.035	1390.53
1093	1138	0	1048	1092	0.035	1394.13
1094	1139	1095	1049	0	0.035	1364.88
1095	1140	1096	1050	1094	0.035	1364.94
1096	1141	1097	1051	1095	0.035	1365.29
1097	1142	1098	1052	1096	0.075	1365.06
1098	1143	1099	1053	1097	0.075	1364.85
1099	1144	1100	1054	1098	0.075	1364.68
1100	1145	1101	1055	1099	0.075	1364.61
1101	1146	1102	1056	1100	0.075	1364.94
1102	1147	1103	1057	1101	0.075	1367.00
1103	1148	1104	1058	1102	0.080	1367.50
1104	1149	1105	1059	1103	0.080	1368.36
1105	1150	1106	1060	1104	0.075	1369.10
1106	1151	1107	1061	1105	0.075	1369.32
1107	1152	1108	1062	1106	0.075	1368.79
1108	1153	1109	1063	1107	0.075	1370.60
1109	1154	1110	1064	1108	0.075	1372.13
1110	1155	1111	1065	1109	0.075	1372.05
1111	1156	1112	1066	1110	0.075	1372.64
1112	1157	1113	1067	1111	0.075	1373.82
1113	1158	1114	1068	1112	0.075	1373.76
1114	1159	1115	1069	1113	0.075	1373.78
1115	1160	1116	1070	1114	0.075	1375.04
1116	1161	1117	1071	1115	0.075	1375.80
1117	1162	1118	1072	1116	0.075	1375.14
1118	1163	1119	1073	1117	0.075	1374.91
1119	1164	1120	1074	1118	0.075	1376.98
1120	1165	1121	1075	1119	0.075	1376.91
1121	1166	1122	1076	1120	0.075	1378.11
1122	1167	1123	1077	1121	0.075	1377.96
1123	1168	1124	1078	1122	0.075	1379.69
1124	1169	1125	1079	1123	0.075	1379.66
1125	1170	1126	1080	1124	0.075	1381.70
1126	1171	1127	1081	1125	0.075	1382.60
1127	1172	1128	1082	1126	0.075	1383.55
1128	1173	1129	1083	1127	0.035	1384.52

Table E-1-E

FLO-2D Model
Existing Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
1129	1174	1130	1084	1128	0.035	1385.19
1130	1175	1131	1085	1129	0.035	1385.99
1131	1176	1132	1086	1130	0.035	1385.97
1132	1177	1133	1087	1131	0.035	1386.55
1133	1178	1134	1088	1132	0.035	1389.01
1134	1179	1135	1089	1133	0.035	1391.08
1135	1180	1136	1090	1134	0.035	1391.11
1136	1181	1137	1091	1135	0.035	1391.45
1137	1182	1138	1092	1136	0.035	1391.98
1138	1183	0	1093	1137	0.035	1394.88
1139	1184	1140	1094	0	0.035	1364.79
1140	1185	1141	1095	1139	0.035	1365.04
1141	1186	1142	1096	1140	0.035	1366.01
1142	1187	1143	1097	1141	0.035	1365.46
1143	1188	1144	1098	1142	0.035	1365.74
1144	1189	1145	1099	1143	0.035	1366.15
1145	1190	1146	1100	1144	0.035	1364.47
1146	1191	1147	1101	1145	0.035	1364.30
1147	1192	1148	1102	1146	0.075	1367.25
1148	1193	1149	1103	1147	0.080	1367.55
1149	1194	1150	1104	1148	0.100	1367.96
1150	1195	1151	1105	1149	0.075	1368.41
1151	1196	1152	1106	1150	0.075	1369.60
1152	1197	1153	1107	1151	0.075	1370.40
1153	1198	1154	1108	1152	0.075	1371.45
1154	1199	1155	1109	1153	0.075	1373.63
1155	1200	1156	1110	1154	0.075	1373.24
1156	1201	1157	1111	1155	0.075	1372.03
1157	1202	1158	1112	1156	0.075	1373.63
1158	1203	1159	1113	1157	0.075	1373.61
1159	1204	1160	1114	1158	0.075	1373.56
1160	1205	1161	1115	1159	0.075	1375.44
1161	1206	1162	1116	1160	0.075	1376.00
1162	1207	1163	1117	1161	0.075	1374.95
1163	1208	1164	1118	1162	0.075	1375.70
1164	1209	1165	1119	1163	0.075	1378.00
1165	1210	1166	1120	1164	0.075	1378.51
1166	1211	1167	1121	1165	0.075	1379.39
1167	1212	1168	1122	1166	0.075	1380.68
1168	1213	1169	1123	1167	0.075	1382.38
1169	1214	1170	1124	1168	0.075	1382.47
1170	1215	1171	1125	1169	0.075	1384.05
1171	1216	1172	1126	1170	0.075	1385.30
1172	1217	1173	1127	1171	0.075	1386.50
1173	1218	1174	1128	1172	0.035	1385.58
1174	1219	1175	1129	1173	0.035	1386.05
1175	1220	1176	1130	1174	0.035	1386.73

Table E-1-E

FLO-2D Model
Existing Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
1176	1221	1177	1131	1175	0.035	1386.83
1177	1222	1178	1132	1176	0.035	1388.13
1178	1223	1179	1133	1177	0.035	1389.79
1179	1224	1180	1134	1178	0.035	1391.16
1180	1225	1181	1135	1179	0.035	1391.29
1181	1226	1182	1136	1180	0.035	1391.59
1182	1227	1183	1137	1181	0.035	1393.52
1183	1228	0	1138	1182	0.035	1398.54
1184	1229	1185	1139	0	0.035	1364.77
1185	1230	1186	1140	1184	0.035	1365.12
1186	1231	1187	1141	1185	0.035	1365.97
1187	1232	1188	1142	1186	0.035	1365.70
1188	1233	1189	1143	1187	0.035	1365.51
1189	1234	1190	1144	1188	0.035	1364.83
1190	1235	1191	1145	1189	0.035	1364.20
1191	1236	1192	1146	1190	0.035	1365.31
1192	1237	1193	1147	1191	0.040	1367.26
1193	1238	1194	1148	1192	0.060	1367.23
1194	1239	1195	1149	1193	0.080	1367.41
1195	1240	1196	1150	1194	0.075	1368.36
1196	1241	1197	1151	1195	0.075	1368.77
1197	1242	1198	1152	1196	0.075	1370.36
1198	1243	1199	1153	1197	0.075	1371.24
1199	1244	1200	1154	1198	0.075	1372.74
1200	1245	1201	1155	1199	0.075	1372.80
1201	1300	1202	1156	1200	0.075	1370.76
1202	1301	1203	1157	1201	0.075	1373.25
1203	1302	1204	1158	1202	0.075	1373.51
1204	1303	1205	1159	1203	0.075	1373.56
1205	1304	1206	1160	1204	0.075	1375.22
1206	1305	1207	1161	1205	0.075	1375.94
1207	1306	1208	1162	1206	0.075	1374.93
1208	1307	1209	1163	1207	0.075	1375.90
1209	0	1210	1164	1208	0.075	1378.08
1210	0	1211	1165	1209	0.075	1378.58
1211	0	1212	1166	1210	0.075	1379.45
1212	0	1213	1167	1211	0.075	1380.73
1213	0	1214	1168	1212	0.075	1382.40
1214	0	1215	1169	1213	0.075	1382.63
1215	0	1216	1170	1214	0.075	1384.05
1216	0	1217	1171	1215	0.075	1385.30
1217	0	1218	1172	1216	0.075	1386.50
1218	0	1219	1173	1217	0.035	1386.77
1219	0	1220	1174	1218	0.035	1387.16
1220	0	1221	1175	1219	0.035	1387.04
1221	0	1222	1176	1220	0.035	1388.11
1222	0	1223	1177	1221	0.035	1389.65

Table E-1-E

FLO-2D Model
Existing Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
1223	0	1224	1178	1222	0.035	1390.83
1224	0	1225	1179	1223	0.035	1391.76
1225	0	1226	1180	1224	0.035	1392.01
1226	0	1227	1181	1225	0.035	1391.85
1227	0	1228	1182	1226	0.035	1395.34
1228	0	0	1183	1227	0.035	1398.31
1229	1246	1230	1184	0	0.035	1364.95
1230	1247	1231	1185	1229	0.035	1365.45
1231	1248	1232	1186	1230	0.035	1364.85
1232	1249	1233	1187	1231	0.035	1364.34
1233	1250	1234	1188	1232	0.035	1363.98
1234	1251	1235	1189	1233	0.035	1364.24
1235	1252	1236	1190	1234	0.035	1365.12
1236	1253	1237	1191	1235	0.035	1365.80
1237	1254	1238	1192	1236	0.035	1366.16
1238	1255	1239	1193	1237	0.035	1366.41
1239	1256	1240	1194	1238	0.035	1366.60
1240	1257	1241	1195	1239	0.035	1366.89
1241	1258	1242	1196	1240	0.035	1367.25
1242	1259	1243	1197	1241	0.035	1367.60
1243	1260	1244	1198	1242	0.035	1367.99
1244	1261	1245	1199	1243	0.035	1368.52
1245	1262	1300	1200	1244	0.035	1369.08
1246	1263	1247	1229	0	0.035	1365.22
1247	1264	1248	1230	1246	0.035	1365.92
1248	1265	1249	1231	1247	0.035	1365.80
1249	1266	1250	1232	1248	0.035	1365.00
1250	1267	1251	1233	1249	0.035	1367.32
1251	1268	1252	1234	1250	0.075	1367.56
1252	1269	1253	1235	1251	0.060	1367.86
1253	1270	1254	1236	1252	0.060	1367.88
1254	1271	1255	1237	1253	0.060	1367.60
1255	1272	1256	1238	1254	0.060	1367.64
1256	1273	1257	1239	1255	0.060	1367.95
1257	1274	1258	1240	1256	0.060	1368.22
1258	1275	1259	1241	1257	0.060	1368.61
1259	0	1260	1242	1258	0.060	1369.24
1260	0	1261	1243	1259	0.040	1369.92
1261	0	1262	1244	1260	0.040	1370.22
1262	0	0	1245	1261	0.035	1370.44
1263	1276	1264	1246	0	0.035	1365.43
1264	1277	1265	1247	1263	0.035	1366.01
1265	1278	1266	1248	1264	0.035	1366.49
1266	1279	1267	1249	1265	0.035	1367.13
1267	1280	1268	1250	1266	0.035	1367.32
1268	1281	1269	1251	1267	0.035	1367.82
1269	1282	1270	1252	1268	0.035	1368.10

Table E-1-E

FLO-2D Model
Existing Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
1270	1283	1271	1253	1269	0.060	1367.89
1271	1284	1272	1254	1270	0.080	1368.27
1272	0	1273	1255	1271	0.080	1368.10
1273	0	1274	1256	1272	0.080	1368.22
1274	0	1275	1257	1273	0.080	1368.12
1275	0	0	1258	1274	0.080	1368.90
1276	1285	1277	1263	0	0.035	1365.34
1277	1286	1278	1264	1276	0.035	1365.92
1278	1287	1279	1265	1277	0.035	1366.46
1279	1288	1280	1266	1278	0.035	1367.08
1280	1289	1281	1267	1279	0.035	1367.45
1281	1290	1282	1268	1280	0.075	1367.74
1282	1291	1283	1269	1281	0.035	1367.95
1283	1292	1284	1270	1282	0.060	1367.63
1284	0	0	1271	1283	0.080	1368.40
1285	1293	1286	1276	0	0.035	1365.32
1286	1294	1287	1277	1285	0.035	1365.90
1287	1295	1288	1278	1286	0.035	1366.39
1288	1296	1289	1279	1287	0.045	1366.64
1289	1297	1290	1280	1288	0.045	1365.26
1290	1298	1291	1281	1289	0.080	1366.75
1291	1299	1292	1282	1290	0.060	1367.85
1292	0	0	1283	1291	0.060	1368.22
1293	1308	1294	1285	0	0.035	1365.36
1294	1309	1295	1286	1293	0.035	1365.82
1295	1310	1296	1287	1294	0.035	1366.44
1296	1311	1297	1288	1295	0.045	1365.86
1297	1312	1298	1289	1296	0.060	1366.04
1298	1313	1299	1290	1297	0.080	1366.95
1299	1314	0	1291	1298	0.100	1368.21
1300	0	1301	1201	1245	0.035	1370.00
1301	0	1302	1202	1300	0.035	1370.50
1302	0	1303	1203	1301	0.035	1371.30
1303	0	1304	1204	1302	0.035	1371.90
1304	0	1305	1205	1303	0.035	1373.00
1305	0	1306	1206	1304	0.035	1373.60
1306	0	1307	1207	1305	0.035	1374.60
1307	0	0	1208	1306	0.035	1375.40
1308	1315	1309	0	0	0.035	1365.22
1309	1316	1310	0	1308	0.035	1365.77
1310	1317	1311	0	1309	0.035	1366.52
1311	1318	1312	0	1310	0.060	1367.21
1312	1319	1313	0	1311	0.060	1367.38
1313	1320	1314	0	1312	0.060	1367.52
1314	1321	0	0	1313	0.060	1367.82
1315	1322	1316	1308	0	0.035	1365.07
1316	1323	1317	1309	1315	0.035	1365.50

Table E-1-E

FLO-2D Model
Existing Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
1317	1324	1318	1310	1316	0.075	1366.29
1318	1325	1319	1311	1317	0.075	1367.15
1319	1326	1320	1312	1318	0.075	1367.17
1320	1327	1321	1313	1319	0.075	1367.25
1321	1328	0	1314	1320	0.075	1366.98
1322	1329	1323	1315	0	0.035	1364.98
1323	1330	1324	1316	1322	0.035	1365.27
1324	1331	1325	1317	1323	0.075	1366.16
1325	1332	1326	1318	1324	0.075	1367.25
1326	1333	1327	1319	1325	0.075	1366.80
1327	1334	1328	1320	1326	0.075	1367.00
1328	1335	0	1321	1327	0.075	1366.71
1329	1336	1330	1322	0	0.035	1364.96
1330	1337	1331	1323	1329	0.075	1365.03
1331	1338	1332	1324	1330	0.075	1365.54
1332	1339	1333	1325	1331	0.045	1366.31
1333	1340	1334	1326	1332	0.045	1366.37
1334	1341	1335	1327	1333	0.045	1366.09
1335	1342	0	1328	1334	0.045	1366.41
1336	1343	1337	1329	0	0.035	1364.64
1337	1344	1338	1330	1336	0.035	1365.15
1338	1345	1339	1331	1337	0.045	1365.54
1339	1346	1340	1332	1338	0.045	1365.65
1340	1347	1341	1333	1339	0.045	1365.92
1341	0	1342	1334	1340	0.045	1366.24
1342	0	0	1335	1341	0.045	1366.79
1343	1348	1344	1336	0	0.035	1364.84
1344	1349	1345	1337	1343	0.035	1365.53
1345	1350	1346	1338	1344	0.045	1366.72
1346	1351	1347	1339	1345	0.045	1367.68
1347	1352	0	1340	1346	0.045	1369.24
1348	1353	1349	1343	0	0.035	1365.08
1349	1354	1350	1344	1348	0.035	1365.62
1350	1355	1351	1345	1349	0.045	1367.18
1351	1356	1352	1346	1350	0.045	1368.46
1352	1357	0	1347	1351	0.045	1368.97
1353	1358	1354	1348	0	0.035	1365.28
1354	1359	1355	1349	1353	0.035	1365.88
1355	1360	1356	1350	1354	0.045	1365.65
1356	1361	1357	1351	1355	0.045	1366.42
1357	0	0	1352	1356	0.045	1367.15
1358	1362	1359	1353	0	0.035	1365.48
1359	1363	1360	1354	1358	0.035	1366.12
1360	1364	1361	1355	1359	0.075	1366.78
1361	1365	0	1356	1360	0.075	1367.27
1362	1366	1363	1358	0	0.035	1365.67
1363	1367	1364	1359	1362	0.035	1366.34

Table E-1-E

FLO-2D Model
Existing Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
1364	1368	1365	1360	1363	0.075	1367.51
1365	1369	0	1361	1364	0.075	1367.86
1366	1370	1367	1362	0	0.035	1365.87
1367	1371	1368	1363	1366	0.035	1366.50
1368	1372	1369	1364	1367	0.075	1366.94
1369	1373	0	1365	1368	0.075	1367.26
1370	0	1371	1366	0	0.035	1366.06
1371	0	1372	1367	1370	0.035	1366.72
1372	0	1373	1368	1371	0.075	1366.49
1373	0	0	1369	1372	0.075	1367.13

Table E-1-P

FLO-2D Model
Proposed Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
1	14	2	0	0	0.035	1369.54
2	15	3	0	1	0.035	1369.24
3	16	4	0	2	0.035	1368.30
4	17	5	0	3	0.035	1368.38
5	18	6	0	4	0.035	1370.08
6	19	0	0	5	0.035	1370.97
7	52	8	0	0	0.035	1383.74
8	53	9	0	7	0.035	1383.33
9	54	10	0	8	0.035	1383.07
10	55	11	0	9	0.035	1383.87
11	56	12	0	10	0.035	1384.90
12	57	13	0	11	0.035	1385.25
13	58	0	0	12	0.035	1386.44
14	59	15	1	0	0.035	1368.91
15	60	16	2	14	0.035	1368.92
16	61	17	3	15	0.035	1370.87
17	62	18	4	16	0.035	1370.86
18	63	19	5	17	0.035	1371.92
19	64	20	6	18	0.035	1372.20
20	65	21	0	19	0.035	1372.63
21	66	22	0	20	0.035	1373.36
22	67	23	0	21	0.035	1373.91
23	68	24	0	22	0.035	1373.93
24	69	25	0	23	0.035	1372.67
25	70	26	0	24	0.035	1373.70
26	71	27	0	25	0.035	1373.47
27	72	28	0	26	0.035	1373.40
28	73	29	0	27	0.035	1373.68
29	74	30	0	28	0.035	1374.32
30	75	31	0	29	0.035	1374.41
31	76	32	0	30	0.035	1374.73
32	77	33	0	31	0.035	1374.73
33	78	34	0	32	0.035	1375.09
34	79	35	0	33	0.035	1375.48
35	80	36	0	34	0.035	1376.04
36	81	37	0	35	0.035	1376.11
37	82	38	0	36	0.035	1376.53
38	83	39	0	37	0.035	1377.20
39	84	40	0	38	0.035	1378.41
40	85	41	0	39	0.035	1379.61
41	86	42	0	40	0.035	1378.69
42	87	43	0	41	0.035	1377.69
43	88	44	0	42	0.035	1377.88
44	89	45	0	43	0.035	1378.61
45	90	46	0	44	0.035	1379.12
46	91	47	0	45	0.035	1378.52
47	92	48	0	46	0.035	1379.42

Table E-1-P

FLO-2D Model
Proposed Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
48	93	49	0	47	0.035	1378.97
49	94	50	0	48	0.035	1379.27
50	95	51	0	49	0.035	1379.90
51	96	52	0	50	0.035	1380.79
52	97	53	7	51	0.035	1381.35
53	98	54	8	52	0.035	1381.06
54	99	55	9	53	0.035	1381.84
55	100	56	10	54	0.035	1382.63
56	101	57	11	55	0.035	1383.56
57	102	58	12	56	0.035	1384.58
58	103	0	13	57	0.035	1385.46
59	104	60	14	0	0.035	1368.14
60	105	61	15	59	0.035	1368.33
61	106	62	16	60	0.035	1368.51
62	107	63	17	61	0.035	1368.65
63	108	64	18	62	0.035	1368.97
64	109	65	19	63	0.035	1369.56
65	110	66	20	64	0.035	1370.02
66	111	67	21	65	0.035	1370.68
67	112	68	22	66	0.035	1370.81
68	113	69	23	67	0.035	1371.14
69	114	70	24	68	0.035	1371.30
70	115	71	25	69	0.035	1371.36
71	116	72	26	70	0.035	1371.73
72	117	73	27	71	0.035	1372.00
73	118	74	28	72	0.035	1372.17
74	119	75	29	73	0.035	1372.53
75	120	76	30	74	0.035	1372.94
76	121	77	31	75	0.035	1373.30
77	122	78	32	76	0.035	1373.39
78	123	79	33	77	0.035	1373.65
79	124	80	34	78	0.035	1373.93
80	125	81	35	79	0.035	1374.54
81	126	82	36	80	0.035	1375.19
82	127	83	37	81	0.035	1375.87
83	128	84	38	82	0.035	1376.73
84	129	85	39	83	0.035	1377.28
85	130	86	40	84	0.035	1377.53
86	131	87	41	85	0.035	1377.60
87	132	88	42	86	0.035	1377.77
88	133	89	43	87	0.035	1378.08
89	134	90	44	88	0.035	1378.42
90	135	91	45	89	0.035	1378.49
91	136	92	46	90	0.035	1378.75
92	137	93	47	91	0.035	1378.91
93	138	94	48	92	0.035	1379.16
94	139	95	49	93	0.035	1379.30

Table E-1-P

FLO-2D Model
Proposed Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
95	140	96	50	94	0.035	1379.63
96	141	97	51	95	0.035	1379.96
97	142	98	52	96	0.035	1380.36
98	143	99	53	97	0.035	1380.93
99	144	100	54	98	0.035	1381.70
100	145	101	55	99	0.035	1383.32
101	146	102	56	100	0.035	1384.08
102	147	103	57	101	0.035	1385.11
103	148	0	58	102	0.035	1386.27
104	149	105	59	0	0.035	1367.36
105	150	106	60	104	0.035	1367.34
106	151	107	61	105	0.035	1368.06
107	152	108	62	106	0.035	1367.52
108	153	109	63	107	0.035	1367.75
109	154	110	64	108	0.035	1368.60
110	155	111	65	109	0.035	1370.35
111	156	112	66	110	0.035	1371.40
112	157	113	67	111	0.035	1371.63
113	158	114	68	112	0.035	1370.75
114	159	115	69	113	0.035	1370.97
115	160	116	70	114	0.075	1371.90
116	161	117	71	115	0.075	1372.13
117	162	118	72	116	0.075	1372.46
118	163	119	73	117	0.075	1372.97
119	164	120	74	118	0.075	1373.29
120	165	121	75	119	0.075	1373.38
121	166	122	76	120	0.075	1373.50
122	167	123	77	121	0.075	1374.18
123	168	124	78	122	0.075	1374.13
124	169	125	79	123	0.075	1374.45
125	170	126	80	124	0.075	1374.98
126	171	127	81	125	0.075	1375.54
127	172	128	82	126	0.075	1376.49
128	173	129	83	127	0.075	1378.51
129	174	130	84	128	0.075	1379.07
130	175	131	85	129	0.075	1377.59
131	176	132	86	130	0.075	1377.42
132	177	133	87	131	0.075	1377.80
133	178	134	88	132	0.075	1377.86
134	179	135	89	133	0.075	1379.30
135	180	136	90	134	0.075	1379.90
136	181	137	91	135	0.075	1380.09
137	182	138	92	136	0.075	1380.09
138	183	139	93	137	0.075	1380.32
139	184	140	94	138	0.075	1380.91
140	185	141	95	139	0.075	1380.70
141	186	142	96	140	0.075	1380.96

Table E-1-P

FLO-2D Model
Proposed Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
142	187	143	97	141	0.075	1382.25
143	188	144	98	142	0.075	1382.74
144	189	145	99	143	0.075	1383.85
145	190	146	100	144	0.075	1384.45
146	191	147	101	145	0.075	1385.00
147	192	148	102	146	0.075	1385.57
148	193	0	103	147	0.035	1386.86
149	194	150	104	0	0.035	1366.79
150	195	151	105	149	0.035	1366.58
151	196	152	106	150	0.035	1367.70
152	197	153	107	151	0.035	1369.58
153	198	154	108	152	0.035	1369.48
154	199	155	109	153	0.035	1368.61
155	200	156	110	154	0.035	1370.75
156	201	157	111	155	0.035	1371.80
157	202	158	112	156	0.035	1371.31
158	203	159	113	157	0.035	1370.47
159	204	160	114	158	0.035	1370.54
160	205	161	115	159	0.075	1371.47
161	206	162	116	160	0.075	1371.54
162	207	163	117	161	0.075	1372.16
163	208	164	118	162	0.075	1372.79
164	209	165	119	163	0.075	1373.20
165	210	166	120	164	0.075	1372.59
166	211	167	121	165	0.075	1373.15
167	212	168	122	166	0.075	1374.57
168	213	169	123	167	0.075	1373.74
169	214	170	124	168	0.075	1374.42
170	215	171	125	169	0.075	1375.11
171	216	172	126	170	0.075	1375.36
172	217	173	127	171	0.075	1376.64
173	218	174	128	172	0.075	1376.22
174	219	175	129	173	0.075	1376.39
175	220	176	130	174	0.075	1376.33
176	221	177	131	175	0.075	1377.29
177	222	178	132	176	0.075	1377.67
178	223	179	133	177	0.075	1378.10
179	224	180	134	178	0.075	1378.90
180	225	181	135	179	0.075	1379.76
181	226	182	136	180	0.075	1380.27
182	227	183	137	181	0.075	1380.35
183	228	184	138	182	0.075	1380.21
184	229	185	139	183	0.075	1381.12
185	230	186	140	184	0.075	1381.69
186	231	187	141	185	0.075	1383.16
187	232	188	142	186	0.075	1383.62
188	233	189	143	187	0.075	1383.59

Table E-1-P

FLO-2D Model
Proposed Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
189	234	190	144	188	0.075	1383.65
190	235	191	145	189	0.075	1383.98
191	236	192	146	190	0.075	1386.08
192	237	193	147	191	0.035	1386.11
193	238	0	148	192	0.035	1387.82
194	239	195	149	0	0.035	1366.40
195	240	196	150	194	0.035	1366.20
196	241	197	151	195	0.035	1366.79
197	242	198	152	196	0.035	1368.33
198	243	199	153	197	0.035	1368.12
199	244	200	154	198	0.035	1370.40
200	245	201	155	199	0.035	1371.75
201	246	202	156	200	0.035	1371.88
202	247	203	157	201	0.035	1370.87
203	248	204	158	202	0.035	1370.33
204	249	205	159	203	0.075	1370.39
205	250	206	160	204	0.075	1371.27
206	251	207	161	205	0.075	1371.32
207	252	208	162	206	0.075	1372.12
208	253	209	163	207	0.075	1371.97
209	254	210	164	208	0.075	1372.27
210	255	211	165	209	0.075	1372.37
211	256	212	166	210	0.075	1372.88
212	257	213	167	211	0.075	1373.23
213	258	214	168	212	0.075	1373.91
214	259	215	169	213	0.075	1375.16
215	260	216	170	214	0.075	1376.33
216	261	217	171	215	0.075	1375.44
217	262	218	172	216	0.075	1376.07
218	263	219	173	217	0.075	1375.42
219	264	220	174	218	0.075	1375.98
220	265	221	175	219	0.075	1376.21
221	266	222	176	220	0.075	1376.84
222	267	223	177	221	0.075	1377.57
223	268	224	178	222	0.075	1377.49
224	269	225	179	223	0.075	1379.10
225	270	226	180	224	0.075	1379.93
226	271	227	181	225	0.075	1380.61
227	272	228	182	226	0.075	1380.54
228	273	229	183	227	0.075	1380.43
229	274	230	184	228	0.075	1381.29
230	275	231	185	229	0.075	1381.61
231	276	232	186	230	0.075	1382.48
232	277	233	187	231	0.075	1383.95
233	278	234	188	232	0.075	1384.48
234	279	235	189	233	0.075	1385.13
235	280	236	190	234	0.075	1386.16

Table E-1-P

FLO-2D Model
Proposed Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
236	281	237	191	235	0.075	1386.93
237	282	238	192	236	0.075	1386.84
238	283	0	193	237	0.075	1388.41
239	284	240	194	0	0.035	1366.35
240	285	241	195	239	0.035	1366.17
241	286	242	196	240	0.035	1367.42
242	287	243	197	241	0.035	1368.09
243	288	244	198	242	0.035	1368.87
244	289	245	199	243	0.035	1370.16
245	290	246	200	244	0.035	1370.59
246	291	247	201	245	0.035	1370.90
247	292	248	202	246	0.035	1370.34
248	293	249	203	247	0.035	1369.98
249	294	250	204	248	0.075	1370.35
250	295	251	205	249	0.075	1370.83
251	296	252	206	250	0.075	1371.23
252	297	253	207	251	0.075	1371.92
253	298	254	208	252	0.075	1371.47
254	299	255	209	253	0.075	1371.91
255	300	256	210	254	0.075	1372.07
256	301	257	211	255	0.075	1372.73
257	302	258	212	256	0.075	1373.48
258	303	259	213	257	0.075	1374.27
259	304	260	214	258	0.075	1375.60
260	305	261	215	259	0.075	1376.75
261	306	262	216	260	0.075	1376.34
262	307	263	217	261	0.075	1376.55
263	308	264	218	262	0.075	1375.23
264	309	265	219	263	0.075	1375.56
265	310	266	220	264	0.075	1376.04
266	311	267	221	265	0.075	1376.35
267	312	268	222	266	0.075	1376.92
268	313	269	223	267	0.075	1377.17
269	314	270	224	268	0.075	1379.20
270	315	271	225	269	0.075	1380.31
271	316	272	226	270	0.075	1380.36
272	317	273	227	271	0.075	1380.70
273	318	274	228	272	0.075	1380.78
274	319	275	229	273	0.075	1381.08
275	320	276	230	274	0.075	1382.01
276	321	277	231	275	0.075	1382.52
277	322	278	232	276	0.075	1383.83
278	323	279	233	277	0.075	1384.15
279	324	280	234	278	0.075	1385.05
280	325	281	235	279	0.075	1386.02
281	326	282	236	280	0.075	1386.60
282	327	283	237	281	0.075	1386.89

Table E-1-P

FLO-2D Model
Proposed Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
283	328	0	238	282	0.075	1388.72
284	329	285	239	0	0.035	1366.42
285	330	286	240	284	0.035	1366.20
286	331	287	241	285	0.035	1367.85
287	332	288	242	286	0.035	1369.45
288	333	289	243	287	0.035	1369.98
289	334	290	244	288	0.035	1369.89
290	335	291	245	289	0.035	1369.36
291	336	292	246	290	0.035	1370.27
292	337	293	247	291	0.035	1369.85
293	338	294	248	292	0.035	1369.92
294	339	295	249	293	0.035	1370.55
295	340	296	250	294	0.035	1371.06
296	341	297	251	295	0.035	1371.38
297	342	298	252	296	0.035	1371.62
298	343	299	253	297	0.075	1371.75
299	344	300	254	298	0.075	1372.03
300	345	301	255	299	0.075	1372.44
301	346	302	256	300	0.075	1372.52
302	347	303	257	301	0.075	1374.06
303	348	304	258	302	0.075	1374.26
304	349	305	259	303	0.075	1374.06
305	350	306	260	304	0.075	1374.47
306	351	307	261	305	0.075	1374.56
307	352	308	262	306	0.075	1375.89
308	353	309	263	307	0.075	1375.41
309	354	310	264	308	0.075	1375.65
310	355	311	265	309	0.075	1376.00
311	356	312	266	310	0.075	1376.70
312	357	313	267	311	0.075	1377.14
313	358	314	268	312	0.075	1377.73
314	359	315	269	313	0.075	1379.30
315	360	316	270	314	0.075	1379.32
316	361	317	271	315	0.075	1379.50
317	362	318	272	316	0.075	1379.47
318	363	319	273	317	0.075	1380.46
319	364	320	274	318	0.075	1381.58
320	365	321	275	319	0.075	1381.96
321	366	322	276	320	0.075	1382.79
322	367	323	277	321	0.075	1383.71
323	368	324	278	322	0.075	1384.15
324	369	325	279	323	0.075	1384.63
325	370	326	280	324	0.075	1386.01
326	371	327	281	325	0.075	1386.28
327	372	328	282	326	0.075	1386.76
328	373	0	283	327	0.075	1388.44
329	374	330	284	0	0.035	1366.39

Table E-1-P

FLO-2D Model
Proposed Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
330	375	331	285	329	0.035	1366.33
331	376	332	286	330	0.035	1368.23
332	377	333	287	331	0.035	1369.29
333	378	334	288	332	0.035	1369.88
334	379	335	289	333	0.035	1369.60
335	380	336	290	334	0.035	1369.07
336	381	337	291	335	0.035	1369.11
337	382	338	292	336	0.035	1369.34
338	383	339	293	337	0.035	1369.68
339	384	340	294	338	0.035	1370.67
340	385	341	295	339	0.035	1371.04
341	386	342	296	340	0.035	1371.44
342	387	343	297	341	0.035	1371.76
343	388	344	298	342	0.075	1371.65
344	389	345	299	343	0.075	1372.09
345	390	346	300	344	0.075	1372.67
346	391	347	301	345	0.075	1372.50
347	392	348	302	346	0.075	1374.46
348	393	349	303	347	0.075	1374.67
349	394	350	304	348	0.075	1373.95
350	395	351	305	349	0.075	1374.69
351	396	352	306	350	0.075	1375.13
352	397	353	307	351	0.075	1375.69
353	398	354	308	352	0.075	1375.51
354	399	355	309	353	0.075	1375.62
355	400	356	310	354	0.075	1375.92
356	401	357	311	355	0.075	1376.76
357	402	358	312	356	0.075	1377.19
358	403	359	313	357	0.075	1377.38
359	404	360	314	358	0.075	1379.35
360	405	361	315	359	0.075	1378.83
361	406	362	316	360	0.075	1379.21
362	407	363	317	361	0.075	1379.43
363	408	364	318	362	0.075	1381.29
364	409	365	319	363	0.075	1381.68
365	410	366	320	364	0.075	1381.99
366	411	367	321	365	0.075	1382.60
367	412	368	322	366	0.075	1383.01
368	413	369	323	367	0.075	1383.86
369	414	370	324	368	0.075	1384.52
370	415	371	325	369	0.075	1385.97
371	416	372	326	370	0.075	1386.77
372	417	373	327	371	0.075	1386.70
373	418	0	328	372	0.075	1388.39
374	419	375	329	0	0.035	1366.42
375	420	376	330	374	0.035	1366.25
376	421	377	331	375	0.035	1368.07

Table E-1-P

FLO-2D Model
Proposed Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
377	422	378	332	376	0.035	1369.09
378	423	379	333	377	0.035	1369.20
379	424	380	334	378	0.035	1369.14
380	425	381	335	379	0.035	1368.69
381	426	382	336	380	0.035	1369.00
382	427	383	337	381	0.035	1369.16
383	428	384	338	382	0.035	1369.54
384	429	385	339	383	0.035	1370.79
385	430	386	340	384	0.035	1371.03
386	431	387	341	385	0.035	1371.38
387	432	388	342	386	0.035	1371.69
388	433	389	343	387	0.035	1371.81
389	434	390	344	388	0.075	1372.22
390	435	391	345	389	0.075	1372.57
391	436	392	346	390	0.075	1372.49
392	437	393	347	391	0.075	1373.38
393	438	394	348	392	0.075	1373.73
394	439	395	349	393	0.075	1373.91
395	440	396	350	394	0.075	1374.92
396	441	397	351	395	0.075	1375.35
397	442	398	352	396	0.035	1375.66
398	443	399	353	397	0.035	1375.66
399	444	400	354	398	0.035	1375.81
400	445	401	355	399	0.035	1376.11
401	446	402	356	400	0.035	1376.91
402	447	403	357	401	0.035	1377.21
403	448	404	358	402	0.035	1377.43
404	449	405	359	403	0.035	1379.20
405	450	406	360	404	0.075	1378.77
406	451	407	361	405	0.075	1379.47
407	452	408	362	406	0.075	1379.60
408	453	409	363	407	0.075	1381.73
409	454	410	364	408	0.075	1381.83
410	455	411	365	409	0.075	1382.08
411	456	412	366	410	0.075	1382.80
412	457	413	367	411	0.075	1383.41
413	458	414	368	412	0.075	1383.85
414	459	415	369	413	0.075	1385.76
415	460	416	370	414	0.075	1386.64
416	461	417	371	415	0.075	1386.63
417	462	418	372	416	0.075	1386.49
418	463	0	373	417	0.075	1387.68
419	464	420	374	0	0.035	1366.46
420	465	421	375	419	0.035	1366.26
421	466	422	376	420	0.035	1367.39
422	467	423	377	421	0.035	1368.09
423	468	424	378	422	0.035	1368.37

Table E-1-P

FLO-2D Model
Proposed Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
424	469	425	379	423	0.035	1368.59
425	470	426	380	424	0.035	1368.64
426	471	427	381	425	0.035	1369.20
427	472	428	382	426	0.035	1370.00
428	473	429	383	427	0.035	1370.56
429	474	430	384	428	0.035	1370.90
430	475	431	385	429	0.035	1371.11
431	476	432	386	430	0.035	1371.45
432	477	433	387	431	0.075	1371.78
433	478	434	388	432	0.075	1371.89
434	479	435	389	433	0.075	1372.07
435	480	436	390	434	0.075	1372.39
436	481	437	391	435	0.075	1372.65
437	482	438	392	436	0.075	1373.55
438	483	439	393	437	0.075	1374.01
439	484	440	394	438	0.075	1373.62
440	485	441	395	439	0.075	1375.10
441	486	442	396	440	0.035	1375.32
442	487	443	397	441	0.035	1375.35
443	488	444	398	442	0.035	1375.74
444	489	445	399	443	0.035	1376.11
445	490	446	400	444	0.035	1376.53
446	491	447	401	445	0.035	1377.18
447	492	448	402	446	0.035	1377.83
448	493	449	403	447	0.035	1378.10
449	494	450	404	448	0.035	1379.30
450	495	451	405	449	0.075	1379.25
451	496	452	406	450	0.075	1379.86
452	497	453	407	451	0.075	1379.94
453	498	454	408	452	0.075	1382.01
454	499	455	409	453	0.075	1382.49
455	500	456	410	454	0.075	1383.00
456	501	457	411	455	0.075	1383.00
457	502	458	412	456	0.075	1383.92
458	503	459	413	457	0.075	1384.42
459	504	460	414	458	0.075	1384.95
460	505	461	415	459	0.075	1385.37
461	506	462	416	460	0.075	1385.63
462	507	463	417	461	0.075	1385.25
463	508	0	418	462	0.075	1386.91
464	509	465	419	0	0.035	1366.38
465	510	466	420	464	0.035	1366.14
466	511	467	421	465	0.035	1367.39
467	512	468	422	466	0.035	1368.40
468	513	469	423	467	0.035	1368.80
469	514	470	424	468	0.035	1369.00
470	515	471	425	469	0.035	1369.30

Table E-1-P

FLO-2D Model
Proposed Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
471	516	472	426	470	0.035	1370.11
472	517	473	427	471	0.035	1370.20
473	518	474	428	472	0.035	1370.50
474	519	475	429	473	0.035	1370.70
475	520	476	430	474	0.035	1370.90
476	521	477	431	475	0.035	1366.50
477	522	478	432	476	0.035	1366.50
478	523	479	433	477	0.075	1372.27
479	524	480	434	478	0.075	1372.52
480	525	481	435	479	0.075	1373.07
481	526	482	436	480	0.075	1372.60
482	527	483	437	481	0.075	1374.03
483	528	484	438	482	0.075	1374.31
484	529	485	439	483	0.075	1374.28
485	530	486	440	484	0.075	1375.34
486	531	487	441	485	0.035	1375.52
487	532	488	442	486	0.035	1375.58
488	533	489	443	487	0.035	1376.02
489	534	490	444	488	0.035	1376.39
490	535	491	445	489	0.035	1376.78
491	536	492	446	490	0.035	1377.71
492	537	493	447	491	0.035	1378.15
493	538	494	448	492	0.035	1378.57
494	539	495	449	493	0.035	1379.64
495	540	496	450	494	0.075	1379.86
496	541	497	451	495	0.075	1380.81
497	542	498	452	496	0.075	1381.02
498	543	499	453	497	0.075	1381.53
499	544	500	454	498	0.075	1382.48
500	545	501	455	499	0.075	1382.66
501	546	502	456	500	0.075	1383.16
502	547	503	457	501	0.075	1384.06
503	548	504	458	502	0.075	1384.29
504	549	505	459	503	0.075	1384.90
505	550	506	460	504	0.075	1385.18
506	551	507	461	505	0.075	1385.66
507	552	508	462	506	0.075	1384.23
508	553	0	463	507	0.075	1386.22
509	554	510	464	0	0.035	1366.41
510	555	511	465	509	0.035	1366.06
511	556	512	466	510	0.035	1366.93
512	557	513	467	511	0.035	1369.52
513	558	514	468	512	0.035	1369.83
514	559	515	469	513	0.035	1369.75
515	560	516	470	514	0.035	1369.72
516	561	517	471	515	0.035	1368.00
517	562	518	472	516	0.035	1370.50

Table E-1-P

FLO-2D Model
Proposed Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
518	563	519	473	517	0.035	1370.00
519	564	520	474	518	0.035	1370.00
520	565	521	475	519	0.035	1370.60
521	566	522	476	520	0.035	1368.50
522	567	523	477	521	0.075	1369.20
523	568	524	478	522	0.075	1372.08
524	569	525	479	523	0.075	1372.65
525	570	526	480	524	0.075	1373.03
526	571	527	481	525	0.075	1372.71
527	572	528	482	526	0.075	1373.58
528	573	529	483	527	0.075	1374.21
529	574	530	484	528	0.075	1374.50
530	575	531	485	529	0.075	1376.43
531	576	532	486	530	0.075	1376.50
532	577	533	487	531	0.035	1376.25
533	578	534	488	532	0.035	1376.28
534	579	535	489	533	0.035	1376.71
535	580	536	490	534	0.035	1376.93
536	581	537	491	535	0.035	1377.30
537	582	538	492	536	0.035	1378.03
538	583	539	493	537	0.035	1378.83
539	584	540	494	538	0.035	1379.55
540	585	541	495	539	0.075	1380.32
541	586	542	496	540	0.075	1380.99
542	587	543	497	541	0.075	1381.32
543	588	544	498	542	0.075	1381.74
544	589	545	499	543	0.075	1382.68
545	590	546	500	544	0.075	1382.58
546	591	547	501	545	0.075	1382.44
547	592	548	502	546	0.075	1383.70
548	593	549	503	547	0.075	1383.66
549	594	550	504	548	0.075	1384.22
550	595	551	505	549	0.075	1385.24
551	596	552	506	550	0.075	1384.50
552	597	553	507	551	0.075	1384.50
553	598	0	508	552	0.075	1387.00
554	599	555	509	0	0.035	1366.29
555	600	556	510	554	0.035	1366.05
556	601	557	511	555	0.035	1367.02
557	602	558	512	556	0.035	1369.55
558	603	559	513	557	0.035	1369.69
559	604	560	514	558	0.035	1369.58
560	605	561	515	559	0.035	1369.53
561	606	562	516	560	0.035	1368.00
562	607	563	517	561	0.035	1370.50
563	608	564	518	562	0.035	1370.00
564	609	565	519	563	0.035	1370.00

Table E-1-P

FLO-2D Model
Proposed Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
565	610	566	520	564	0.035	1370.50
566	611	567	521	565	0.035	1372.20
567	612	568	522	566	0.035	1369.10
568	613	569	523	567	0.075	1372.40
569	614	570	524	568	0.075	1372.61
570	615	571	525	569	0.075	1372.79
571	616	572	526	570	0.075	1372.58
572	617	573	527	571	0.075	1373.75
573	618	574	528	572	0.075	1374.00
574	619	575	529	573	0.075	1374.35
575	620	576	530	574	0.075	1376.57
576	621	577	531	575	0.075	1376.67
577	622	578	532	576	0.075	1376.67
578	623	579	533	577	0.035	1376.37
579	624	580	534	578	0.035	1376.99
580	625	581	535	579	0.035	1377.21
581	626	582	536	580	0.035	1377.64
582	627	583	537	581	0.035	1377.77
583	628	584	538	582	0.035	1378.50
584	629	585	539	583	0.035	1379.60
585	630	586	540	584	0.035	1379.66
586	631	587	541	585	0.075	1380.24
587	632	588	542	586	0.075	1380.96
588	633	589	543	587	0.075	1381.24
589	634	590	544	588	0.075	1382.05
590	635	591	545	589	0.075	1381.44
591	636	592	546	590	0.075	1380.50
592	637	593	547	591	0.075	1382.98
593	638	594	548	592	0.075	1383.00
594	639	595	549	593	0.075	1383.00
595	640	596	550	594	0.075	1384.00
596	641	597	551	595	0.075	1384.69
597	642	598	552	596	0.075	1384.56
598	643	0	553	597	0.075	1386.13
599	644	600	554	0	0.035	1366.05
600	645	601	555	599	0.035	1366.02
601	646	602	556	600	0.035	1367.30
602	647	603	557	601	0.035	1368.00
603	648	604	558	602	0.035	1368.20
604	649	605	559	603	0.035	1368.40
605	650	606	560	604	0.035	1368.60
606	651	607	561	605	0.035	1368.00
607	652	608	562	606	0.035	1370.30
608	653	609	563	607	0.035	1370.00
609	654	610	564	608	0.035	1370.50
610	655	611	565	609	0.035	1371.01
611	656	612	566	610	0.035	1372.20

Table E-1-P

FLO-2D Model
Proposed Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
612	657	613	567	611	0.035	1369.00
613	658	614	568	612	0.075	1371.77
614	659	615	569	613	0.075	1372.77
615	660	616	570	614	0.075	1372.91
616	661	617	571	615	0.075	1372.53
617	662	618	572	616	0.075	1374.19
618	663	619	573	617	0.075	1374.25
619	664	620	574	618	0.075	1374.33
620	665	621	575	619	0.075	1375.68
621	666	622	576	620	0.075	1375.75
622	667	623	577	621	0.075	1376.02
623	668	624	578	622	0.035	1376.40
624	669	625	579	623	0.035	1376.96
625	670	626	580	624	0.035	1377.30
626	671	627	581	625	0.035	1377.87
627	672	628	582	626	0.035	1378.56
628	673	629	583	627	0.035	1378.74
629	674	630	584	628	0.035	1379.55
630	675	631	585	629	0.075	1380.05
631	676	632	586	630	0.075	1380.23
632	677	633	587	631	0.075	1380.86
633	678	634	588	632	0.075	1381.20
634	679	635	589	633	0.075	1381.90
635	680	636	590	634	0.075	1382.00
636	681	637	591	635	0.075	1381.81
637	682	638	592	636	0.075	1382.74
638	683	639	593	637	0.075	1383.18
639	684	640	594	638	0.075	1383.33
640	685	641	595	639	0.075	1384.49
641	686	642	596	640	0.075	1385.26
642	687	643	597	641	0.075	1385.43
643	688	0	598	642	0.075	1386.54
644	689	645	599	0	0.035	1365.90
645	690	646	600	644	0.035	1365.93
646	691	647	601	645	0.035	1366.50
647	692	648	602	646	0.035	1367.00
648	693	649	603	647	0.035	1367.30
649	694	650	604	648	0.035	1367.60
650	695	651	605	649	0.035	1368.20
651	696	652	606	650	0.035	1369.00
652	697	653	607	651	0.035	1369.90
653	698	654	608	652	0.035	1369.90
654	699	655	609	653	0.035	1370.00
655	700	656	610	654	0.035	1370.50
656	701	657	611	655	0.035	1372.20
657	702	658	612	656	0.035	1369.00
658	703	659	613	657	0.035	1372.52

Table E-1-P

FLO-2D Model
Proposed Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
659	704	660	614	658	0.035	1372.16
660	705	661	615	659	0.035	1372.47
661	706	662	616	660	0.035	1372.54
662	707	663	617	661	0.035	1372.57
663	708	664	618	662	0.035	1373.57
664	709	665	619	663	0.035	1373.76
665	710	666	620	664	0.035	1374.52
666	711	667	621	665	0.035	1375.14
667	712	668	622	666	0.035	1375.50
668	713	669	623	667	0.035	1376.48
669	714	670	624	668	0.035	1377.27
670	715	671	625	669	0.035	1377.67
671	716	672	626	670	0.035	1378.02
672	717	673	627	671	0.035	1378.53
673	718	674	628	672	0.035	1379.04
674	719	675	629	673	0.035	1379.55
675	720	676	630	674	0.035	1380.09
676	721	677	631	675	0.075	1379.71
677	722	678	632	676	0.075	1380.50
678	723	679	633	677	0.075	1381.24
679	724	680	634	678	0.075	1381.52
680	725	681	635	679	0.075	1381.71
681	726	682	636	680	0.075	1381.55
682	727	683	637	681	0.075	1382.51
683	728	684	638	682	0.075	1383.13
684	729	685	639	683	0.075	1383.61
685	730	686	640	684	0.075	1384.65
686	731	687	641	685	0.075	1385.31
687	732	688	642	686	0.075	1386.27
688	733	0	643	687	0.035	1386.78
689	734	690	644	0	0.035	1365.83
690	735	691	645	689	0.035	1365.80
691	736	692	646	690	0.035	1362.50
692	737	693	647	691	0.035	1368.30
693	738	694	648	692	0.035	1368.80
694	739	695	649	693	0.035	1369.30
695	740	696	650	694	0.035	1369.60
696	741	697	651	695	0.035	1370.00
697	742	698	652	696	0.035	1370.00
698	743	699	653	697	0.035	1370.00
699	744	700	654	698	0.035	1370.00
700	745	701	655	699	0.035	1370.00
701	746	702	656	700	0.035	1371.30
702	747	703	657	701	0.035	1369.00
703	748	704	658	702	0.075	1373.28
704	749	705	659	703	0.075	1373.82
705	750	706	660	704	0.075	1373.70

Table E-1-P

FLO-2D Model
Proposed Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
706	751	707	661	705	0.075	1372.54
707	752	708	662	706	0.075	1373.31
708	753	709	663	707	0.075	1373.95
709	754	710	664	708	0.075	1373.76
710	755	711	665	709	0.075	1375.25
711	756	712	666	710	0.075	1375.69
712	757	713	667	711	0.075	1375.69
713	758	714	668	712	0.075	1377.46
714	759	715	669	713	0.075	1377.89
715	760	716	670	714	0.075	1378.44
716	761	717	671	715	0.075	1378.38
717	762	718	672	716	0.075	1376.98
718	763	719	673	717	0.075	1377.94
719	764	720	674	718	0.075	1376.90
720	765	721	675	719	0.075	1379.62
721	766	722	676	720	0.075	1379.50
722	767	723	677	721	0.075	1381.48
723	768	724	678	722	0.075	1381.79
724	769	725	679	723	0.075	1381.69
725	770	726	680	724	0.075	1382.26
726	771	727	681	725	0.075	1383.96
727	772	728	682	726	0.075	1384.28
728	773	729	683	727	0.075	1384.80
729	774	730	684	728	0.075	1385.60
730	775	731	685	729	0.075	1386.31
731	776	732	686	730	0.075	1386.67
732	777	733	687	731	0.035	1387.12
733	778	0	688	732	0.035	1389.37
734	779	735	689	0	0.035	1365.82
735	780	736	690	734	0.035	1365.63
736	781	737	691	735	0.035	1362.50
737	782	738	692	736	0.035	1368.30
738	783	739	693	737	0.035	1368.30
739	784	740	694	738	0.035	1369.30
740	785	741	695	739	0.035	1369.30
741	786	742	696	740	0.035	1370.00
742	787	743	697	741	0.035	1370.00
743	788	744	698	742	0.035	1370.00
744	789	745	699	743	0.035	1370.00
745	790	746	700	744	0.035	1370.00
746	791	747	701	745	0.035	1366.50
747	792	748	702	746	0.035	1367.00
748	793	749	703	747	0.075	1372.63
749	794	750	704	748	0.075	1373.69
750	795	751	705	749	0.075	1373.83
751	796	752	706	750	0.075	1372.59
752	797	753	707	751	0.075	1372.97

Table E-1-P

FLO-2D Model
Proposed Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
753	798	754	708	752	0.075	1373.79
754	799	755	709	753	0.075	1374.36
755	800	756	710	754	0.075	1375.60
756	801	757	711	755	0.075	1375.64
757	802	758	712	756	0.075	1375.67
758	803	759	713	757	0.075	1377.89
759	804	760	714	758	0.075	1378.21
760	805	761	715	759	0.075	1378.07
761	806	762	716	760	0.075	1377.68
762	807	763	717	761	0.075	1377.74
763	808	764	718	762	0.075	1377.00
764	809	765	719	763	0.075	1375.38
765	810	766	720	764	0.075	1379.06
766	811	767	721	765	0.075	1381.48
767	812	768	722	766	0.075	1381.48
768	813	769	723	767	0.035	1380.34
769	814	770	724	768	0.035	1380.55
770	815	771	725	769	0.035	1380.87
771	816	772	726	770	0.035	1384.08
772	817	773	727	771	0.035	1384.65
773	818	774	728	772	0.035	1385.47
774	819	775	729	773	0.035	1386.06
775	820	776	730	774	0.035	1386.76
776	821	777	731	775	0.035	1387.34
777	822	778	732	776	0.035	1388.01
778	823	0	733	777	0.035	1389.44
779	824	780	734	0	0.080	1365.79
780	825	781	735	779	0.080	1365.46
781	826	782	736	780	0.080	1363.50
782	827	783	737	781	0.080	1366.59
783	828	784	738	782	0.080	1367.02
784	829	785	739	783	0.080	1367.56
785	830	786	740	784	0.080	1367.65
786	831	787	741	785	0.080	1368.50
787	832	788	742	786	0.080	1368.27
788	833	789	743	787	0.080	1368.94
789	834	790	744	788	0.080	1369.23
790	835	791	745	789	0.080	1369.75
791	836	792	746	790	0.080	1369.00
792	837	793	747	791	0.080	1366.50
793	838	794	748	792	0.075	1372.37
794	839	795	749	793	0.075	1373.65
795	840	796	750	794	0.075	1373.75
796	841	797	751	795	0.075	1372.49
797	842	798	752	796	0.075	1372.75
798	843	799	753	797	0.075	1373.51
799	844	800	754	798	0.075	1373.80

Table E-1-P

FLO-2D Model
Proposed Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
800	845	801	755	799	0.075	1374.48
801	846	802	756	800	0.075	1374.85
802	847	803	757	801	0.075	1375.33
803	848	804	758	802	0.075	1374.88
804	849	805	759	803	0.075	1374.57
805	850	806	760	804	0.075	1376.74
806	851	807	761	805	0.075	1377.15
807	852	808	762	806	0.075	1379.70
808	853	809	763	807	0.075	1379.88
809	854	810	764	808	0.075	1377.49
810	855	811	765	809	0.075	1379.23
811	856	812	766	810	0.075	1379.66
812	857	813	767	811	0.075	1379.86
813	858	814	768	812	0.035	1380.23
814	859	815	769	813	0.035	1380.44
815	860	816	770	814	0.035	1381.04
816	861	817	771	815	0.035	1383.85
817	862	818	772	816	0.035	1384.93
818	863	819	773	817	0.035	1385.67
819	864	820	774	818	0.035	1386.36
820	865	821	775	819	0.035	1387.00
821	866	822	776	820	0.035	1387.78
822	867	823	777	821	0.035	1388.79
823	868	0	778	822	0.035	1389.90
824	869	825	779	0	0.035	1365.67
825	870	826	780	824	0.035	1365.20
826	871	827	781	825	0.035	1365.56
827	872	828	782	826	0.080	1366.03
828	873	829	783	827	0.080	1366.51
829	874	830	784	828	0.100	1367.11
830	875	831	785	829	0.100	1367.33
831	876	832	786	830	0.100	1367.36
832	877	833	787	831	0.100	1367.86
833	878	834	788	832	0.100	1368.42
834	879	835	789	833	0.100	1368.93
835	880	836	790	834	0.100	1369.56
836	881	837	791	835	0.100	1370.14
837	882	838	792	836	0.100	1370.61
838	883	839	793	837	0.100	1372.61
839	884	840	794	838	0.075	1373.11
840	885	841	795	839	0.075	1373.04
841	886	842	796	840	0.075	1371.97
842	887	843	797	841	0.075	1373.70
843	888	844	798	842	0.075	1373.58
844	889	845	799	843	0.075	1374.10
845	890	846	800	844	0.075	1374.66
846	891	847	801	845	0.075	1375.09

Table E-1-P

FLO-2D Model
Proposed Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
847	892	848	802	846	0.075	1375.57
848	893	849	803	847	0.075	1374.38
849	894	850	804	848	0.075	1376.50
850	895	851	805	849	0.075	1376.70
851	896	852	806	850	0.075	1376.70
852	897	853	807	851	0.075	1380.16
853	898	854	808	852	0.075	1380.06
854	899	855	809	853	0.075	1378.84
855	900	856	810	854	0.075	1380.55
856	901	857	811	855	0.075	1380.55
857	902	858	812	856	0.075	1380.55
858	903	859	813	857	0.035	1380.46
859	904	860	814	858	0.035	1380.66
860	905	861	815	859	0.035	1381.06
861	906	862	816	860	0.035	1383.86
862	907	863	817	861	0.035	1385.05
863	908	864	818	862	0.035	1385.65
864	909	865	819	863	0.035	1386.61
865	910	866	820	864	0.035	1387.40
866	911	867	821	865	0.035	1388.17
867	912	868	822	866	0.035	1389.47
868	913	0	823	867	0.035	1390.77
869	914	870	824	0	0.035	1365.50
870	915	871	825	869	0.035	1365.14
871	916	872	826	870	0.035	1365.61
872	917	873	827	871	0.100	1366.11
873	918	874	828	872	0.100	1366.48
874	919	875	829	873	0.100	1367.06
875	920	876	830	874	0.100	1367.64
876	921	877	831	875	0.100	1367.69
877	922	878	832	876	0.100	1367.98
878	923	879	833	877	0.100	1368.59
879	924	880	834	878	0.100	1369.11
880	925	881	835	879	0.100	1369.63
881	926	882	836	880	0.100	1370.35
882	927	883	837	881	0.100	1370.75
883	928	884	838	882	0.075	1371.69
884	929	885	839	883	0.075	1372.20
885	930	886	840	884	0.075	1372.16
886	931	887	841	885	0.075	1370.50
887	932	888	842	886	0.075	1373.20
888	933	889	843	887	0.075	1373.63
889	934	890	844	888	0.075	1374.13
890	935	891	845	889	0.075	1374.93
891	936	892	846	890	0.075	1374.22
892	937	893	847	891	0.075	1375.16
893	938	894	848	892	0.075	1375.50

Table E-1-P

FLO-2D Model
Proposed Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
894	939	895	849	893	0.075	1376.12
895	940	896	850	894	0.075	1376.13
896	941	897	851	895	0.075	1376.85
897	942	898	852	896	0.075	1379.52
898	943	899	853	897	0.075	1379.64
899	944	900	854	898	0.075	1379.25
900	945	901	855	899	0.075	1380.55
901	946	902	856	900	0.075	1380.55
902	947	903	857	901	0.075	1380.55
903	948	904	858	902	0.035	1381.65
904	949	905	859	903	0.035	1381.98
905	950	906	860	904	0.035	1382.56
906	951	907	861	905	0.035	1383.70
907	952	908	862	906	0.035	1384.93
908	953	909	863	907	0.035	1385.72
909	954	910	864	908	0.035	1386.77
910	955	911	865	909	0.035	1387.67
911	956	912	866	910	0.035	1388.43
912	957	913	867	911	0.035	1389.97
913	958	0	868	912	0.035	1392.54
914	959	915	869	0	0.035	1365.36
915	960	916	870	914	0.035	1365.07
916	961	917	871	915	0.035	1365.82
917	962	918	872	916	0.080	1366.39
918	963	919	873	917	0.080	1366.74
919	964	920	874	918	0.080	1367.07
920	965	921	875	919	0.080	1367.60
921	966	922	876	920	0.080	1367.89
922	967	923	877	921	0.080	1368.02
923	968	924	878	922	0.080	1368.57
924	969	925	879	923	0.080	1369.05
925	970	926	880	924	0.080	1369.64
926	971	927	881	925	0.080	1370.37
927	972	928	882	926	0.100	1370.82
928	973	929	883	927	0.035	1371.31
929	974	930	884	928	0.035	1371.82
930	975	931	885	929	0.035	1372.07
931	976	932	886	930	0.035	1369.45
932	977	933	887	931	0.035	1373.07
933	978	934	888	932	0.035	1373.20
934	979	935	889	933	0.075	1374.00
935	980	936	890	934	0.075	1373.50
936	981	937	891	935	0.075	1374.75
937	982	938	892	936	0.075	1375.55
938	983	939	893	937	0.075	1377.30
939	984	940	894	938	0.075	1377.55
940	985	941	895	939	0.075	1377.74

Table E-1-P

FLO-2D Model
Proposed Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
941	986	942	896	940	0.075	1378.25
942	987	943	897	941	0.075	1378.29
943	988	944	898	942	0.075	1379.80
944	989	945	899	943	0.075	1379.24
945	990	946	900	944	0.075	1381.95
946	991	947	901	945	0.075	1382.30
947	992	948	902	946	0.075	1382.65
948	993	949	903	947	0.035	1381.79
949	994	950	904	948	0.035	1382.76
950	995	951	905	949	0.035	1383.56
951	996	952	906	950	0.035	1383.65
952	997	953	907	951	0.035	1384.33
953	998	954	908	952	0.035	1385.90
954	999	955	909	953	0.035	1386.82
955	1000	956	910	954	0.035	1387.74
956	1001	957	911	955	0.035	1388.50
957	1002	958	912	956	0.035	1390.23
958	1003	0	913	957	0.035	1392.38
959	1004	960	914	0	0.035	1365.22
960	1005	961	915	959	0.035	1365.02
961	1006	962	916	960	0.035	1366.11
962	1007	963	917	961	0.100	1366.59
963	1008	964	918	962	0.100	1366.78
964	1009	965	919	963	0.100	1366.93
965	1010	966	920	964	0.080	1367.28
966	1011	967	921	965	0.080	1367.81
967	1012	968	922	966	0.080	1368.19
968	1013	969	923	967	0.080	1368.51
969	1014	970	924	968	0.080	1369.11
970	1015	971	925	969	0.080	1369.53
971	1016	972	926	970	0.080	1370.04
972	1017	973	927	971	0.080	1370.26
973	1018	974	928	972	0.075	1371.00
974	1019	975	929	973	0.075	1371.50
975	1020	976	930	974	0.075	1371.92
976	1021	977	931	975	0.075	1369.20
977	1022	978	932	976	0.075	1372.45
978	1023	979	933	977	0.075	1373.36
979	1024	980	934	978	0.075	1373.95
980	1025	981	935	979	0.075	1375.92
981	1026	982	936	980	0.075	1377.24
982	1027	983	937	981	0.075	1375.86
983	1028	984	938	982	0.075	1377.17
984	1029	985	939	983	0.075	1377.51
985	1030	986	940	984	0.075	1377.79
986	1031	987	941	985	0.075	1378.11
987	1032	988	942	986	0.075	1378.17

Table E-1-P

FLO-2D Model
Proposed Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
988	1033	989	943	987	0.075	1379.54
989	1034	990	944	988	0.075	1379.23
990	1035	991	945	989	0.075	1381.95
991	1036	992	946	990	0.075	1382.30
992	1037	993	947	991	0.075	1382.65
993	1038	994	948	992	0.035	1382.22
994	1039	995	949	993	0.035	1383.14
995	1040	996	950	994	0.035	1383.64
996	1041	997	951	995	0.035	1383.65
997	1042	998	952	996	0.035	1384.82
998	1043	999	953	997	0.035	1385.92
999	1044	1000	954	998	0.035	1386.12
1000	1045	1001	955	999	0.035	1387.59
1001	1046	1002	956	1000	0.035	1388.75
1002	1047	1003	957	1001	0.035	1390.39
1003	1048	0	958	1002	0.035	1391.01
1004	1049	1005	959	0	0.035	1365.14
1005	1050	1006	960	1004	0.035	1365.03
1006	1051	1007	961	1005	0.035	1366.04
1007	1052	1008	962	1006	0.100	1366.55
1008	1053	1009	963	1007	0.100	1366.71
1009	1054	1010	964	1008	0.100	1366.78
1010	1055	1011	965	1009	0.100	1367.15
1011	1056	1012	966	1010	0.100	1367.75
1012	1057	1013	967	1011	0.100	1368.03
1013	1058	1014	968	1012	0.100	1368.33
1014	1059	1015	969	1013	0.100	1368.75
1015	1060	1016	970	1014	0.100	1369.00
1016	1061	1017	971	1015	0.080	1369.60
1017	1062	1018	972	1016	0.080	1370.23
1018	1063	1019	973	1017	0.075	1369.65
1019	1064	1020	974	1018	0.075	1372.57
1020	1065	1021	975	1019	0.075	1373.29
1021	1066	1022	976	1020	0.075	1370.15
1022	1067	1023	977	1021	0.075	1372.95
1023	1068	1024	978	1022	0.075	1373.38
1024	1069	1025	979	1023	0.075	1374.05
1025	1070	1026	980	1024	0.075	1376.98
1026	1071	1027	981	1025	0.075	1377.29
1027	1072	1028	982	1026	0.075	1375.27
1028	1073	1029	983	1027	0.075	1375.82
1029	1074	1030	984	1028	0.075	1376.28
1030	1075	1031	985	1029	0.075	1376.80
1031	1076	1032	986	1030	0.075	1377.63
1032	1077	1033	987	1031	0.075	1378.30
1033	1078	1034	988	1032	0.075	1378.66
1034	1079	1035	989	1033	0.075	1379.24

Table E-1-P

FLO-2D Model
Proposed Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
1035	1080	1036	990	1034	0.075	1379.80
1036	1081	1037	991	1035	0.075	1381.15
1037	1082	1038	992	1036	0.075	1382.55
1038	1083	1039	993	1037	0.035	1383.04
1039	1084	1040	994	1038	0.035	1383.52
1040	1085	1041	995	1039	0.035	1383.88
1041	1086	1042	996	1040	0.035	1383.99
1042	1087	1043	997	1041	0.035	1385.70
1043	1088	1044	998	1042	0.035	1386.38
1044	1089	1045	999	1043	0.035	1388.05
1045	1090	1046	1000	1044	0.035	1388.94
1046	1091	1047	1001	1045	0.035	1389.08
1047	1092	1048	1002	1046	0.035	1390.19
1048	1093	0	1003	1047	0.035	1392.72
1049	1094	1050	1004	0	0.035	1365.15
1050	1095	1051	1005	1049	0.035	1364.94
1051	1096	1052	1006	1050	0.035	1365.68
1052	1097	1053	1007	1051	0.100	1366.39
1053	1098	1054	1008	1052	0.100	1366.35
1054	1099	1055	1009	1053	0.100	1366.53
1055	1100	1056	1010	1054	0.100	1366.84
1056	1101	1057	1011	1055	0.100	1367.36
1057	1102	1058	1012	1056	0.100	1367.76
1058	1103	1059	1013	1057	0.100	1368.12
1059	1104	1060	1014	1058	0.100	1368.10
1060	1105	1061	1015	1059	0.100	1369.09
1061	1106	1062	1016	1060	0.080	1369.65
1062	1107	1063	1017	1061	0.080	1370.53
1063	1108	1064	1018	1062	0.075	1370.86
1064	1109	1065	1019	1063	0.075	1373.15
1065	1110	1066	1020	1064	0.075	1373.30
1066	1111	1067	1021	1065	0.075	1371.60
1067	1112	1068	1022	1066	0.075	1373.67
1068	1113	1069	1023	1067	0.075	1373.74
1069	1114	1070	1024	1068	0.075	1373.76
1070	1115	1071	1025	1069	0.075	1374.91
1071	1116	1072	1026	1070	0.075	1375.68
1072	1117	1073	1027	1071	0.075	1375.35
1073	1118	1074	1028	1072	0.075	1375.41
1074	1119	1075	1029	1073	0.075	1376.98
1075	1120	1076	1030	1074	0.075	1377.35
1076	1121	1077	1031	1075	0.075	1378.22
1077	1122	1078	1032	1076	0.075	1378.32
1078	1123	1079	1033	1077	0.075	1379.52
1079	1124	1080	1034	1078	0.075	1379.50
1080	1125	1081	1035	1079	0.035	1381.70
1081	1126	1082	1036	1080	0.035	1382.60

Table E-1-P

FLO-2D Model
Proposed Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
1082	1127	1083	1037	1081	0.035	1383.55
1083	1128	1084	1038	1082	0.035	1383.51
1084	1129	1085	1039	1083	0.035	1383.74
1085	1130	1086	1040	1084	0.035	1384.07
1086	1131	1087	1041	1085	0.035	1384.43
1087	1132	1088	1042	1086	0.035	1385.47
1088	1133	1089	1043	1087	0.035	1388.08
1089	1134	1090	1044	1088	0.035	1391.03
1090	1135	1091	1045	1089	0.035	1391.04
1091	1136	1092	1046	1090	0.035	1391.11
1092	1137	1093	1047	1091	0.035	1390.53
1093	1138	0	1048	1092	0.035	1394.13
1094	1139	1095	1049	0	0.035	1364.88
1095	1140	1096	1050	1094	0.035	1364.94
1096	1141	1097	1051	1095	0.035	1365.29
1097	1142	1098	1052	1096	0.075	1365.06
1098	1143	1099	1053	1097	0.075	1364.85
1099	1144	1100	1054	1098	0.075	1364.68
1100	1145	1101	1055	1099	0.075	1364.61
1101	1146	1102	1056	1100	0.075	1364.94
1102	1147	1103	1057	1101	0.075	1367.00
1103	1148	1104	1058	1102	0.080	1367.50
1104	1149	1105	1059	1103	0.080	1368.36
1105	1150	1106	1060	1104	0.075	1369.10
1106	1151	1107	1061	1105	0.075	1369.32
1107	1152	1108	1062	1106	0.075	1368.79
1108	1153	1109	1063	1107	0.075	1370.60
1109	1154	1110	1064	1108	0.075	1372.13
1110	1155	1111	1065	1109	0.075	1372.05
1111	1156	1112	1066	1110	0.075	1372.64
1112	1157	1113	1067	1111	0.075	1373.82
1113	1158	1114	1068	1112	0.075	1373.76
1114	1159	1115	1069	1113	0.075	1373.78
1115	1160	1116	1070	1114	0.075	1375.04
1116	1161	1117	1071	1115	0.075	1375.80
1117	1162	1118	1072	1116	0.075	1375.14
1118	1163	1119	1073	1117	0.075	1374.91
1119	1164	1120	1074	1118	0.075	1376.98
1120	1165	1121	1075	1119	0.075	1376.91
1121	1166	1122	1076	1120	0.075	1378.11
1122	1167	1123	1077	1121	0.075	1377.96
1123	1168	1124	1078	1122	0.075	1379.69
1124	1169	1125	1079	1123	0.075	1379.66
1125	1170	1126	1080	1124	0.075	1381.70
1126	1171	1127	1081	1125	0.075	1382.60
1127	1172	1128	1082	1126	0.075	1383.55
1128	1173	1129	1083	1127	0.035	1384.52

Table E-1-P

FLO-2D Model
Proposed Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
1129	1174	1130	1084	1128	0.035	1385.19
1130	1175	1131	1085	1129	0.035	1385.99
1131	1176	1132	1086	1130	0.035	1385.97
1132	1177	1133	1087	1131	0.035	1386.55
1133	1178	1134	1088	1132	0.035	1389.01
1134	1179	1135	1089	1133	0.035	1391.08
1135	1180	1136	1090	1134	0.035	1391.11
1136	1181	1137	1091	1135	0.035	1391.45
1137	1182	1138	1092	1136	0.035	1391.98
1138	1183	0	1093	1137	0.035	1394.88
1139	1184	1140	1094	0	0.035	1364.79
1140	1185	1141	1095	1139	0.035	1365.04
1141	1186	1142	1096	1140	0.035	1366.01
1142	1187	1143	1097	1141	0.035	1365.46
1143	1188	1144	1098	1142	0.035	1365.74
1144	1189	1145	1099	1143	0.035	1366.15
1145	1190	1146	1100	1144	0.035	1364.47
1146	1191	1147	1101	1145	0.035	1364.30
1147	1192	1148	1102	1146	0.075	1367.25
1148	1193	1149	1103	1147	0.080	1367.55
1149	1194	1150	1104	1148	0.100	1367.96
1150	1195	1151	1105	1149	0.075	1368.41
1151	1196	1152	1106	1150	0.075	1369.60
1152	1197	1153	1107	1151	0.075	1370.40
1153	1198	1154	1108	1152	0.075	1371.45
1154	1199	1155	1109	1153	0.075	1373.63
1155	1200	1156	1110	1154	0.075	1373.24
1156	1201	1157	1111	1155	0.075	1372.03
1157	1202	1158	1112	1156	0.075	1373.63
1158	1203	1159	1113	1157	0.075	1373.61
1159	1204	1160	1114	1158	0.075	1373.56
1160	1205	1161	1115	1159	0.075	1375.44
1161	1206	1162	1116	1160	0.075	1376.00
1162	1207	1163	1117	1161	0.075	1374.95
1163	1208	1164	1118	1162	0.075	1375.70
1164	1209	1165	1119	1163	0.075	1378.00
1165	1210	1166	1120	1164	0.075	1378.51
1166	1211	1167	1121	1165	0.075	1379.39
1167	1212	1168	1122	1166	0.075	1380.68
1168	1213	1169	1123	1167	0.075	1382.38
1169	1214	1170	1124	1168	0.075	1382.47
1170	1215	1171	1125	1169	0.075	1384.05
1171	1216	1172	1126	1170	0.075	1385.30
1172	1217	1173	1127	1171	0.075	1386.50
1173	1218	1174	1128	1172	0.035	1385.58
1174	1219	1175	1129	1173	0.035	1386.05
1175	1220	1176	1130	1174	0.035	1386.73

Table E-1-P

FLO-2D Model
Proposed Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
1176	1221	1177	1131	1175	0.035	1386.83
1177	1222	1178	1132	1176	0.035	1388.13
1178	1223	1179	1133	1177	0.035	1389.79
1179	1224	1180	1134	1178	0.035	1391.16
1180	1225	1181	1135	1179	0.035	1391.29
1181	1226	1182	1136	1180	0.035	1391.59
1182	1227	1183	1137	1181	0.035	1393.52
1183	1228	0	1138	1182	0.035	1398.54
1184	1229	1185	1139	0	0.035	1364.77
1185	1230	1186	1140	1184	0.035	1365.12
1186	1231	1187	1141	1185	0.035	1365.97
1187	1232	1188	1142	1186	0.035	1365.70
1188	1233	1189	1143	1187	0.035	1365.51
1189	1234	1190	1144	1188	0.035	1364.83
1190	1235	1191	1145	1189	0.035	1364.20
1191	1236	1192	1146	1190	0.035	1365.31
1192	1237	1193	1147	1191	0.040	1367.26
1193	1238	1194	1148	1192	0.060	1367.23
1194	1239	1195	1149	1193	0.080	1367.41
1195	1240	1196	1150	1194	0.075	1368.36
1196	1241	1197	1151	1195	0.075	1368.77
1197	1242	1198	1152	1196	0.075	1370.36
1198	1243	1199	1153	1197	0.075	1371.24
1199	1244	1200	1154	1198	0.075	1372.74
1200	1245	1201	1155	1199	0.075	1372.80
1201	1300	1202	1156	1200	0.075	1370.76
1202	1301	1203	1157	1201	0.075	1373.25
1203	1302	1204	1158	1202	0.075	1373.51
1204	1303	1205	1159	1203	0.075	1373.56
1205	1304	1206	1160	1204	0.075	1375.22
1206	1305	1207	1161	1205	0.075	1375.94
1207	1306	1208	1162	1206	0.075	1374.93
1208	1307	1209	1163	1207	0.075	1375.90
1209	0	1210	1164	1208	0.075	1378.08
1210	0	1211	1165	1209	0.075	1378.58
1211	0	1212	1166	1210	0.075	1379.45
1212	0	1213	1167	1211	0.075	1380.73
1213	0	1214	1168	1212	0.075	1382.40
1214	0	1215	1169	1213	0.075	1382.63
1215	0	1216	1170	1214	0.075	1384.05
1216	0	1217	1171	1215	0.075	1385.30
1217	0	1218	1172	1216	0.075	1386.50
1218	0	1219	1173	1217	0.035	1386.77
1219	0	1220	1174	1218	0.035	1387.16
1220	0	1221	1175	1219	0.035	1387.04
1221	0	1222	1176	1220	0.035	1388.11
1222	0	1223	1177	1221	0.035	1389.65

Table E-1-P

FLO-2D Model
Proposed Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
1223	0	1224	1178	1222	0.035	1390.83
1224	0	1225	1179	1223	0.035	1391.76
1225	0	1226	1180	1224	0.035	1392.01
1226	0	1227	1181	1225	0.035	1391.85
1227	0	1228	1182	1226	0.035	1395.34
1228	0	0	1183	1227	0.035	1398.31
1229	1246	1230	1184	0	0.035	1364.95
1230	1247	1231	1185	1229	0.035	1365.45
1231	1248	1232	1186	1230	0.035	1364.85
1232	1249	1233	1187	1231	0.035	1364.34
1233	1250	1234	1188	1232	0.035	1363.98
1234	1251	1235	1189	1233	0.035	1364.24
1235	1252	1236	1190	1234	0.035	1365.12
1236	1253	1237	1191	1235	0.035	1365.80
1237	1254	1238	1192	1236	0.035	1366.16
1238	1255	1239	1193	1237	0.035	1366.41
1239	1256	1240	1194	1238	0.035	1366.60
1240	1257	1241	1195	1239	0.035	1366.89
1241	1258	1242	1196	1240	0.035	1367.25
1242	1259	1243	1197	1241	0.035	1367.60
1243	1260	1244	1198	1242	0.035	1367.99
1244	1261	1245	1199	1243	0.035	1368.52
1245	1262	1300	1200	1244	0.035	1369.08
1246	1263	1247	1229	0	0.035	1365.22
1247	1264	1248	1230	1246	0.035	1365.92
1248	1265	1249	1231	1247	0.035	1365.80
1249	1266	1250	1232	1248	0.035	1365.00
1250	1267	1251	1233	1249	0.035	1367.32
1251	1268	1252	1234	1250	0.075	1367.56
1252	1269	1253	1235	1251	0.060	1367.86
1253	1270	1254	1236	1252	0.060	1367.88
1254	1271	1255	1237	1253	0.060	1367.60
1255	1272	1256	1238	1254	0.060	1367.64
1256	1273	1257	1239	1255	0.060	1367.95
1257	1274	1258	1240	1256	0.060	1368.22
1258	1275	1259	1241	1257	0.060	1368.61
1259	0	1260	1242	1258	0.060	1369.24
1260	0	1261	1243	1259	0.040	1369.92
1261	0	1262	1244	1260	0.040	1370.22
1262	0	0	1245	1261	0.035	1370.44
1263	1276	1264	1246	0	0.035	1365.43
1264	1277	1265	1247	1263	0.035	1366.01
1265	1278	1266	1248	1264	0.035	1366.49
1266	1279	1267	1249	1265	0.035	1367.13
1267	1280	1268	1250	1266	0.035	1367.32
1268	1281	1269	1251	1267	0.035	1367.82
1269	1282	1270	1252	1268	0.035	1368.10

Table E-1-P

FLO-2D Model
Proposed Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
1270	1283	1271	1253	1269	0.060	1367.89
1271	1284	1272	1254	1270	0.080	1368.27
1272	0	1273	1255	1271	0.080	1368.10
1273	0	1274	1256	1272	0.080	1368.22
1274	0	1275	1257	1273	0.080	1368.12
1275	0	0	1258	1274	0.080	1368.90
1276	1285	1277	1263	0	0.035	1365.34
1277	1286	1278	1264	1276	0.035	1365.92
1278	1287	1279	1265	1277	0.035	1366.46
1279	1288	1280	1266	1278	0.035	1367.08
1280	1289	1281	1267	1279	0.035	1367.45
1281	1290	1282	1268	1280	0.075	1367.74
1282	1291	1283	1269	1281	0.035	1367.95
1283	1292	1284	1270	1282	0.060	1367.63
1284	0	0	1271	1283	0.080	1368.40
1285	1293	1286	1276	0	0.035	1365.32
1286	1294	1287	1277	1285	0.035	1365.90
1287	1295	1288	1278	1286	0.035	1366.39
1288	1296	1289	1279	1287	0.045	1366.64
1289	1297	1290	1280	1288	0.045	1365.26
1290	1298	1291	1281	1289	0.080	1366.75
1291	1299	1292	1282	1290	0.060	1367.85
1292	0	0	1283	1291	0.060	1368.22
1293	1308	1294	1285	0	0.035	1365.36
1294	1309	1295	1286	1293	0.035	1365.82
1295	1310	1296	1287	1294	0.035	1366.44
1296	1311	1297	1288	1295	0.045	1365.86
1297	1312	1298	1289	1296	0.060	1366.04
1298	1313	1299	1290	1297	0.080	1366.95
1299	1314	0	1291	1298	0.100	1368.21
1300	0	1301	1201	1245	0.035	1370.00
1301	0	1302	1202	1300	0.035	1370.50
1302	0	1303	1203	1301	0.035	1371.30
1303	0	1304	1204	1302	0.035	1371.90
1304	0	1305	1205	1303	0.035	1373.00
1305	0	1306	1206	1304	0.035	1373.60
1306	0	1307	1207	1305	0.035	1374.60
1307	0	0	1208	1306	0.035	1375.40
1308	1315	1309	0	0	0.035	1365.22
1309	1316	1310	0	1308	0.035	1365.77
1310	1317	1311	0	1309	0.035	1366.52
1311	1318	1312	0	1310	0.060	1367.21
1312	1319	1313	0	1311	0.060	1367.38
1313	1320	1314	0	1312	0.060	1367.52
1314	1321	0	0	1313	0.060	1367.82
1315	1322	1316	1308	0	0.035	1365.07
1316	1323	1317	1309	1315	0.035	1365.50

Table E-1-P

FLO-2D Model
Proposed Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
1317	1324	1318	1310	1316	0.075	1366.29
1318	1325	1319	1311	1317	0.075	1367.15
1319	1326	1320	1312	1318	0.075	1367.17
1320	1327	1321	1313	1319	0.075	1367.25
1321	1328	0	1314	1320	0.075	1366.98
1322	1329	1323	1315	0	0.035	1364.98
1323	1330	1324	1316	1322	0.035	1365.27
1324	1331	1325	1317	1323	0.075	1366.16
1325	1332	1326	1318	1324	0.075	1367.25
1326	1333	1327	1319	1325	0.075	1366.80
1327	1334	1328	1320	1326	0.075	1367.00
1328	1335	0	1321	1327	0.075	1366.71
1329	1336	1330	1322	0	0.035	1364.96
1330	1337	1331	1323	1329	0.075	1365.03
1331	1338	1332	1324	1330	0.075	1365.54
1332	1339	1333	1325	1331	0.045	1366.31
1333	1340	1334	1326	1332	0.045	1366.37
1334	1341	1335	1327	1333	0.045	1366.09
1335	1342	0	1328	1334	0.045	1366.41
1336	1343	1337	1329	0	0.035	1364.64
1337	1344	1338	1330	1336	0.035	1365.15
1338	1345	1339	1331	1337	0.045	1365.54
1339	1346	1340	1332	1338	0.045	1365.65
1340	1347	1341	1333	1339	0.045	1365.92
1341	0	1342	1334	1340	0.045	1366.24
1342	0	0	1335	1341	0.045	1366.79
1343	1348	1344	1336	0	0.035	1364.84
1344	1349	1345	1337	1343	0.035	1365.53
1345	1350	1346	1338	1344	0.045	1366.72
1346	1351	1347	1339	1345	0.045	1367.68
1347	1352	0	1340	1346	0.045	1369.24
1348	1353	1349	1343	0	0.035	1365.08
1349	1354	1350	1344	1348	0.035	1365.62
1350	1355	1351	1345	1349	0.045	1367.18
1351	1356	1352	1346	1350	0.045	1368.46
1352	1357	0	1347	1351	0.045	1368.97
1353	1358	1354	1348	0	0.035	1365.28
1354	1359	1355	1349	1353	0.035	1365.88
1355	1360	1356	1350	1354	0.045	1365.65
1356	1361	1357	1351	1355	0.045	1366.42
1357	0	0	1352	1356	0.045	1367.15
1358	1362	1359	1353	0	0.035	1365.48
1359	1363	1360	1354	1358	0.035	1366.12
1360	1364	1361	1355	1359	0.075	1366.78
1361	1365	0	1356	1360	0.075	1367.27
1362	1366	1363	1358	0	0.035	1365.67
1363	1367	1364	1359	1362	0.035	1366.34

Table E-1-P

FLO-2D Model
Proposed Conditions Floodplain Grid Element Data

Grid Element	Connecting Grid Element Numbers				Manning's	Grid Elevation
Number	North	East	South	West	n-value	in feet
1364	1368	1365	1360	1363	0.075	1367.51
1365	1369	0	1361	1364	0.075	1367.86
1366	1370	1367	1362	0	0.035	1365.87
1367	1371	1368	1363	1366	0.035	1366.50
1368	1372	1369	1364	1367	0.075	1366.94
1369	1373	0	1365	1368	0.075	1367.26
1370	0	1371	1366	0	0.035	1366.06
1371	0	1372	1367	1370	0.035	1366.72
1372	0	1373	1368	1371	0.075	1366.49
1373	0	0	1369	1372	0.075	1367.13

Table E-2-P

Proposed Condtions FLO-2D Channel Input Data

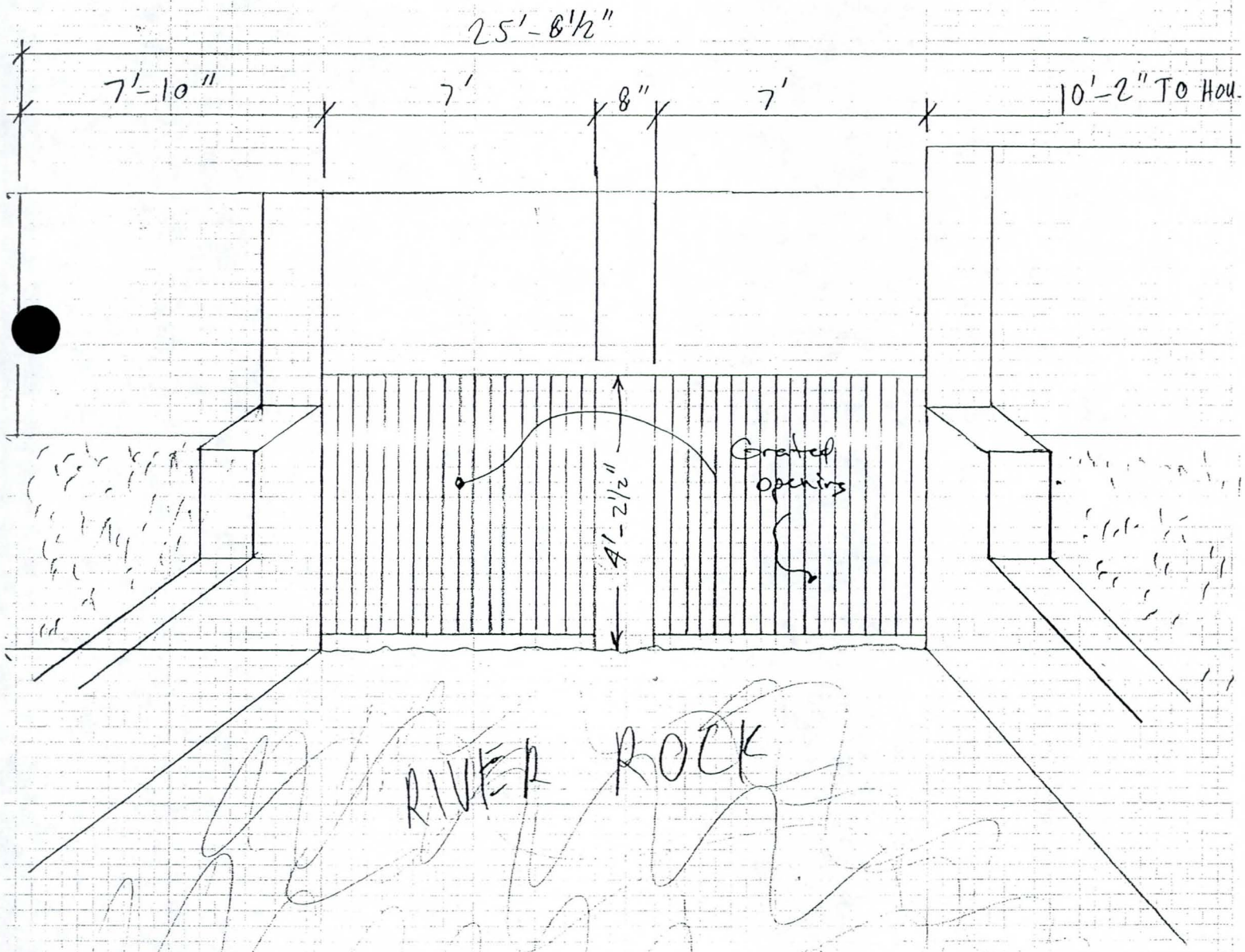
Grid Element	Channel Type	Manning's n-Value	Bottom Width feet	Channel Depth feet	Channel Length feet	Left Bank Side Slope	Right Bank Side Slope
553	Trapezoidal	0.030	19.000	1.900	46.900	3.900	3.500
552	Trapezoidal	0.045	8.000	1.500	27.300	2.800	3.000
551	Rectangular	0.045	14.500	3.300	51.500	0.000	0.000
595	Trapezoidal	0.045	8.000	3.000	51.000	2.000	2.000
594	Trapezoidal	0.045	1.000	2.200	50.800	4.100	5.200
593	Trapezoidal	0.045	1.000	2.400	50.600	5.600	2.600
592	Trapezoidal	0.045	1.000	2.500	53.900	2.800	4.800
591	Trapezoidal	0.020	15.000	0.200	50.000	20.000	20.000
635	Trapezoidal	0.050	1.000	2.600	39.600	4.200	3.500
634	Trapezoidal	0.050	1.000	3.200	50.100	3.900	3.100
633	Trapezoidal	0.050	1.000	2.500	68.800	3.600	1.400
677	Trapezoidal	0.050	1.000	1.800	70.800	6.400	8.900
721	Trapezoidal	0.050	1.000	2.000	69.800	7.500	9.000
765	Trapezoidal	0.050	1.000	3.100	54.500	4.800	3.900
764	Trapezoidal	0.020	15.000	0.200	50.000	20.000	20.000
763	Trapezoidal	0.050	1.000	2.000	52.900	6.200	3.000
762	Trapezoidal	0.050	1.000	3.000	53.200	3.200	3.200
806	Trapezoidal	0.050	1.000	2.700	66.500	3.300	5.200
850	Trapezoidal	0.050	1.000	2.900	66.100	2.900	2.200
849	Trapezoidal	0.050	1.000	3.500	52.600	2.800	3.600
893	Trapezoidal	0.050	1.000	2.500	59.300	2.000	5.600
892	Trapezoidal	0.055	1.000	2.600	55.400	2.900	5.300
936	Trapezoidal	0.055	1.000	3.200	55.100	3.300	4.200
935	Trapezoidal	0.050	1.000	3.100	55.300	4.000	4.200
934	Trapezoidal	0.055	1.000	4.000	50.300	2.800	1.600
933	Trapezoidal	0.055	1.000	3.600	50.100	2.700	2.500
977	Trapezoidal	0.055	2.000	3.200	51.000	1.700	2.800
976	Trapezoidal	0.020	15.000	0.200	50.000	20.000	20.000
975	Trapezoidal	0.050	2.000	3.300	50.800	3.300	2.700
974	Trapezoidal	0.050	2.000	3.200	50.400	3.000	2.600
973	Trapezoidal	0.050	2.000	3.300	52.200	3.900	3.000
1017	Trapezoidal	0.050	1.000	2.900	54.200	3.800	5.900
1016	Trapezoidal	0.050	1.000	2.700	56.700	3.300	4.400
1015	Trapezoidal	0.050	1.000	2.600	55.200	4.200	5.200
1059	Trapezoidal	0.060	1.000	2.400	64.000	3.900	4.200
1103	Trapezoidal	0.060	1.000	2.800	59.700	3.400	2.800
1147	Trapezoidal	0.050	1.000	2.800	47.900	3.600	3.600
1146	Trapezoidal	0.020	5.000	0.200	56.00 5	0.00 5	0.000
1190	Trapezoidal	0.020	5.000	0.200	56.00 5	0.00 5	0.000
1189	Trapezoidal	0.020	5.000	0.900	48.000	0.10 2	0.000
1233	Trapezoidal	0.020	5.000	0.200	56.00 5	0.00 5	0.000
1249	Trapezoidal	0.018	6.000	2.300	53.400	3.300	2.200
1248	Trapezoidal	0.018	14.500	3.800	51.100	2.000	2.000
1264	Rectangular	0.028	9.000	4.700	54.000	0.000	0.000
1276	Rectangular	0.028	10.000	4.500	54.000	0.000	0.000

Table E-2-P

Proposed Condtions FLO-2D Channel Input Data

Grid Element	Channel Type	Manning's n-Value	Bottom Width feet	Channel Depth feet	Channel Length feet	Left Bank Side Slope	Right Bank Side Slope
472	Trapezoidal	0.030	0.000	1.700	50.000	3.000	3.000
473	Trapezoidal	0.030	0.000	2.100	50.000	3.000	3.000
474	Trapezoidal	0.030	0.000	2.700	50.000	3.000	3.000
475	Trapezoidal	0.030	0.000	3.400	50.000	3.000	3.000
791	Trapezoidal	0.030	12.000	1.960	50.000	3.000	3.000
790	Trapezoidal	0.030	6.000	2.720	50.000	3.000	3.000
789	Trapezoidal	0.030	6.000	2.210	50.000	3.000	3.000
788	Trapezoidal	0.030	6.000	1.930	50.000	3.000	3.000
787	Trapezoidal	0.030	3.000	1.270	50.000	3.000	3.000
785	Trapezoidal	0.030	2.500	2.150	50.000	3.000	3.000
784	Trapezoidal	0.030	5.500	2.160	50.000	3.000	3.000
783	Trapezoidal	0.030	5.500	1.720	50.000	3.000	3.000
782	Trapezoidal	0.030	5.500	1.390	50.000	3.000	3.000
NOTE: See the output file printouts following this table for the power function results for these sections							

Wall Opening at
Grid Element
551



RIVER ROCK

Table
Rating Table for Rectangular Channel

Project Description	
Worksheet	Typical Channel - Grid 551
Flow Element	Rectangular Channel
Method	Manning's Formula
Solve For	Discharge

Wall Opening
@ Grid Element
551

Input Data	
Mannings Coefficient	0.045
Slope	0.018000 ft/ft
Bottom Width	14.00 ft

Attribute	Minimum	Maximum	Increment
Depth (ft)	0.00	4.20	0.20

Depth (ft)	Discharge (cfs)	Velocity (ft/s)	Flow Area (ft²)	Wetted Perimeter (ft)	Top Width (ft)
0.00	N/A	N/A	N/A	N/A	N/A
0.20	4.16	1.49	2.8	14.40	14.00
0.40	12.98	2.32	5.6	14.80	14.00
0.60	25.06	2.98	8.4	15.20	14.00
0.80	39.78	3.55	11.2	15.60	14.00
1.00	56.74	4.05	14.0	16.00	14.00
1.20	75.63	4.50	16.8	16.40	14.00
1.40	96.23	4.91	19.6	16.80	14.00
1.60	118.34	5.28	22.4	17.20	14.00
1.80	141.82	5.63	25.2	17.60	14.00
2.00	166.53	5.95	28.0	18.00	14.00
2.20	192.36	6.25	30.8	18.40	14.00
2.40	219.22	6.52	33.6	18.80	14.00
2.60	247.01	6.79	36.4	19.20	14.00
2.80	275.67	7.03	39.2	19.60	14.00
3.00	305.13	7.26	42.0	20.00	14.00
3.20	335.32	7.48	44.8	20.40	14.00
3.40	366.20	7.69	47.6	20.80	14.00
3.60	397.72	7.89	50.4	21.20	14.00
3.80	429.84	8.08	53.2	21.60	14.00
4.00	462.51	8.26	56.0	22.00	14.00
4.20	495.70	8.43	58.8	22.40	14.00

Table
Rating Table for Generic Orifice

Project Description	
Worksheet	Wall Opening - Grid 551
Type	Generic Orifice
Solve For	Discharge

Grid 551

Input Data	
Centroid Elevation	2.10 ft
Discharge Coefficient	0.67
Opening Area	58.8 ft²

Attribute	Minimum	Maximum	Increment
Headwater Elevation (ft)	4.40	10.00	0.20
Tailwater Elevation (ft)	4.00	5.00	0.50

Headwater Elevation (ft)	Tailwater Elevation (ft)	Discharge (cfs)	Velocity (ft/s)
4.40	4.00	199.87	3.40
4.60	4.00	244.79	4.16
4.80	4.00	282.66	4.81
5.00	4.00	316.02	5.37
5.20	4.00	346.19	5.89
5.40	4.00	373.92	6.36
5.60	4.00	399.74	6.80
5.80	4.00	423.99	7.21
6.00	4.00	446.93	7.60 ←
6.20	4.00	468.74	7.97
6.40	4.00	489.58	8.33
6.60	4.00	509.57	8.67
6.80	4.00	528.81	8.99
7.00	4.00	547.37	9.31
7.20	4.00	565.32	9.61
7.40	4.00	582.72	9.91
7.60	4.00	599.61	10.20
7.80	4.00	616.04	10.48
8.00	4.00	632.05	10.75
8.20	4.00	647.66	11.01
8.40	4.00	662.90	11.27
8.60	4.00	677.80	11.53
8.80	4.00	692.37	11.78
9.00	4.00	706.65	12.02
9.20	4.00	720.64	12.26
9.40	4.00	734.37	12.49
9.60	4.00	747.85	12.72
9.80	4.00	761.09	12.94
10.00	4.00	774.10	13.16
4.40	4.50	N/A	N/A
4.60	4.50	99.94	1.70
4.80	4.50	173.09	2.94
5.00	4.50	223.46	3.80
5.20	4.50	264.40	4.50
5.40	4.50	299.81	5.10
5.60	4.50	331.45	5.64
5.80	4.50	360.32	6.13

Table
Rating Table for Generic Orifice

Headwater Elevation (ft)	Tailwater Elevation (ft)	Discharge (cfs)	Velocity (ft/s)
6.00	4.50	387.05	6.58
6.20	4.50	412.04	7.01
6.40	4.50	435.61	7.41
6.60	4.50	457.96	7.79
6.80	4.50	479.27	8.15
7.00	4.50	499.68	8.50
7.20	4.50	519.28	8.83
7.40	4.50	538.17	9.15
7.60	4.50	556.42	9.46
7.80	4.50	574.09	9.76
8.00	4.50	591.23	10.05
8.20	4.50	607.88	10.34
8.40	4.50	624.10	10.61
8.60	4.50	639.90	10.88
8.80	4.50	655.32	11.14
9.00	4.50	670.39	11.40
9.20	4.50	685.12	11.65
9.40	4.50	699.55	11.90
9.60	4.50	713.68	12.14
9.80	4.50	727.54	12.37
10.00	4.50	741.14	12.60
4.40	5.00	N/A	N/A
4.60	5.00	N/A	N/A
4.80	5.00	N/A	N/A
5.00	5.00	N/A	N/A
5.20	5.00	141.33	2.40
5.40	5.00	199.87	3.40
5.60	5.00	244.79	4.16
5.80	5.00	282.66	4.81
6.00	5.00	316.02	5.37
6.20	5.00	346.19	5.89
6.40	5.00	373.92	6.36
6.60	5.00	399.74	6.80
6.80	5.00	423.99	7.21
7.00	5.00	446.93	7.60
7.20	5.00	468.74	7.97
7.40	5.00	489.58	8.33
7.60	5.00	509.57	8.67
7.80	5.00	528.81	8.99
8.00	5.00	547.37	9.31
8.20	5.00	565.32	9.61
8.40	5.00	582.72	9.91
8.60	5.00	599.61	10.20
8.80	5.00	616.04	10.48
9.00	5.00	632.05	10.75
9.20	5.00	647.66	11.01
9.40	5.00	662.90	11.27
9.60	5.00	677.80	11.53
9.80	5.00	692.37	11.78
10.00	5.00	706.65	12.02

Grid
551

Table
Rating Table for Trapezoidal Channel

GRID 973

Project Description	
Worksheet	Typical Channel at Wall Op
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Discharge

Input Data		
Mannings Coeffic	0.035	
Slope	010000	ft/ft
Left Side Slope	2.00	H : V
Right Side Slope	2.00	H : V
Bottom Width	4.00	ft

Attribute	Minimum	Maximum	Increment
Depth (ft)	0.00	4.00	0.20

Depth (ft)	Discharge (cfs)	Velocity (ft/s)	Flow Area (ft²)	Wetted Perimeter (ft)	Top Width (ft)
0.00	N/A	N/A	N/A	N/A	N/A
0.20	1.19	1.35	0.9	4.89	4.80
0.40	3.91	2.03	1.9	5.79	5.60
0.60	7.97	2.55	3.1	6.68	6.40
0.80	13.40	2.99	4.5	7.58	7.20
1.00	20.24	3.37	6.0	8.47	8.00
1.20	28.56	3.72	7.7	9.37	8.80
1.40	38.45	4.04	9.5	10.26	9.60
1.60	49.97	4.34	11.5	11.16	10.40
1.80	63.20	4.62	13.7	12.05	11.20
2.00	78.24	4.89	16.0	12.94	12.00
2.20	95.14	5.15	18.5	13.84	12.80
2.40	114.00	5.40	21.1	14.73	13.60
2.60	134.88	5.64	23.9	15.63	14.40
2.80	157.86	5.87	26.9	16.52	15.20
3.00	183.02	6.10	30.0	17.42	16.00
3.20	210.42	6.32	33.3	18.31	16.80
3.40	240.15	6.54	36.7	19.21	17.60
3.60	272.27	6.75	40.3	20.10	18.40
3.80	306.85	6.96	44.1	20.99	19.20
4.00	343.97	7.17	48.0	21.89	20.00

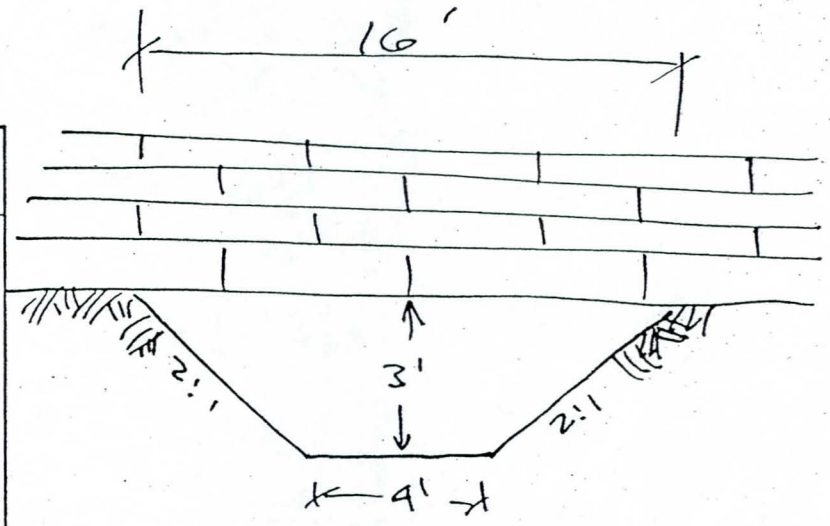


Table
Rating Table for Generic Orifice

Project Description	
Worksheet	Wall Opng
Type	Generic Orifi
Solve For	Discharge

Grid 973

Input Data	
Centroid Elevatior	1.80 ft
Discharge Coeffic	0.67
Opening Area	30.0 ft²

Attribute	Minimum	Maximum	Increment
Headwater Elevation	4.00	8.00	0.20
Tailwater Elevation (f	3.00	4.00	0.20

Headwater Elevation (ft)	Tailwater Elevation (ft)	Discharge (cfs)	Velocity (ft/s)
4.00	3.00	161.24	5.37
4.20	3.00	176.63	5.89
4.40	3.00	190.78	6.36
4.60	3.00	203.95	6.80
4.80	3.00	216.32	7.21
5.00	3.00	228.02	7.60
5.20	3.00	239.15	7.97
5.40	3.00	249.79	8.33
5.60	3.00	259.99	8.67
5.80	3.00	269.80	8.99
6.00	3.00	279.27	9.31
6.20	3.00	288.43	9.61
6.40	3.00	297.31	9.91
6.60	3.00	305.92	10.20
6.80	3.00	314.31	10.48
7.00	3.00	322.47	10.75
7.20	3.00	330.44	11.01
7.40	3.00	338.21	11.27
7.60	3.00	345.81	11.53
7.80	3.00	353.25	11.78
8.00	3.00	360.54	12.02
4.00	3.20	144.21	4.81
4.20	3.20	161.24	5.37
4.40	3.20	176.63	5.89
4.60	3.20	190.78	6.36
4.80	3.20	203.95	6.80
5.00	3.20	216.32	7.21
5.20	3.20	228.02	7.60
5.40	3.20	239.15	7.97
5.60	3.20	249.79	8.33
5.80	3.20	259.99	8.67
6.00	3.20	269.80	8.99
6.20	3.20	279.27	9.31
6.40	3.20	288.43	9.61
6.60	3.20	297.31	9.91
6.80	3.20	305.92	10.20
7.00	3.20	314.31	10.48

Table
Rating Table for Generic Orifice

Grid 973

Headwater Elevation (ft)	Tailwater Elevation (ft)	Discharge (cfs)	Velocity (ft/s)
7.20	3.20	322.47	10.75
7.40	3.20	330.44	11.01
7.60	3.20	338.21	11.27
7.80	3.20	345.81	11.53
8.00	3.20	353.25	11.78
4.00	3.40	124.89	4.16
4.20	3.40	144.21	4.81
4.40	3.40	161.24	5.37
4.60	3.40	176.63	5.89
4.80	3.40	190.78	6.36
5.00	3.40	203.95	6.80
5.20	3.40	216.32	7.21
5.40	3.40	228.02	7.60
5.60	3.40	239.15	7.97
5.80	3.40	249.79	8.33
6.00	3.40	259.99	8.67
6.20	3.40	269.80	8.99
6.40	3.40	279.27	9.31
6.60	3.40	288.43	9.61
6.80	3.40	297.31	9.91
7.00	3.40	305.92	10.20
7.20	3.40	314.31	10.48
7.40	3.40	322.47	10.75
7.60	3.40	330.44	11.01
7.80	3.40	338.21	11.27
8.00	3.40	345.81	11.53
4.00	3.60	101.97	3.40
4.20	3.60	124.89	4.16
4.40	3.60	144.21	4.81
4.60	3.60	161.24	5.37
4.80	3.60	176.63	5.89
5.00	3.60	190.78	6.36
5.20	3.60	203.95	6.80
5.40	3.60	216.32	7.21
5.60	3.60	228.02	7.60
5.80	3.60	239.15	7.97
6.00	3.60	249.79	8.33
6.20	3.60	259.99	8.67
6.40	3.60	269.80	8.99
6.60	3.60	279.27	9.31
6.80	3.60	288.43	9.61
7.00	3.60	297.31	9.91
7.20	3.60	305.92	10.20
7.40	3.60	314.31	10.48
7.60	3.60	322.47	10.75
7.80	3.60	330.44	11.01
8.00	3.60	338.21	11.27
4.00	3.80	72.11	2.40
4.20	3.80	101.97	3.40
4.40	3.80	124.89	4.16
4.60	3.80	144.21	4.81
4.80	3.80	161.24	5.37
5.00	3.80	176.63	5.89

Table
Rating Table for Generic Orifice

Grid 973

Headwater Elevation (ft)	Tailwater Elevation (ft)	Discharge (cfs)	Velocity (ft/s)
5.20	3.80	190.78	6.36
5.40	3.80	203.95	6.80
5.60	3.80	216.32	7.21
5.80	3.80	228.02	7.60
6.00	3.80	239.15	7.97
6.20	3.80	249.79	8.33
6.40	3.80	259.99	8.67
6.60	3.80	269.80	8.99
6.80	3.80	279.27	9.31
7.00	3.80	288.43	9.61
7.20	3.80	297.31	9.91
7.40	3.80	305.92	10.20
7.60	3.80	314.31	10.48
7.80	3.80	322.47	10.75
8.00	3.80	330.44	11.01
4.00	4.00	N/A	N/A
4.20	4.00	72.11	2.40
4.40	4.00	101.97	3.40
4.60	4.00	124.89	4.16
4.80	4.00	144.21	4.81
5.00	4.00	161.24	5.37
5.20	4.00	176.63	5.89
5.40	4.00	190.78	6.36
5.60	4.00	203.95	6.80
5.80	4.00	216.32	7.21
6.00	4.00	228.02	7.60
6.20	4.00	239.15	7.97
6.40	4.00	249.79	8.33
6.60	4.00	259.99	8.67
6.80	4.00	269.80	8.99
7.00	4.00	279.27	9.31
7.20	4.00	288.43	9.61
7.40	4.00	297.31	9.91
7.60	4.00	305.92	10.20
7.80	4.00	314.31	10.48
8.00	4.00	322.47	10.75
8.20	4.00	343	← Assume

Table
Rating Table for Trapezoidal Channel

Project Description	
Worksheet	Typical Channel - Grid
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Discharge

GRID 1103

Input Data		
Mannings Coeffic	0.035	
Slope	010000	ft/ft
Left Side Slope	1.90	H : V
Right Side Slope	1.90	H : V
Bottom Width	3.00	ft

Attribute	Minimum	Maximum	Increment
Depth (ft)	2.00	5.00	0.20

Depth (ft)	Discharge (cfs)	Velocity (ft/s)	Flow Area (ft²)	Wetted Perimeter (ft)	Top Width (ft)
2.00	64.24	4.72	13.6	11.59	10.60
2.20	78.61	4.98	15.8	12.45	11.36
2.40	94.72	5.22	18.1	13.31	12.12
2.60	112.66	5.46	20.6	14.16	12.88
2.80	132.50	5.69	23.3	15.02	13.64
3.00	154.31	5.91	26.1	15.88	14.40
3.20	178.15	6.13	29.1	16.74	15.16
3.40	204.11	6.35	32.2	17.60	15.92
3.60	232.25	6.56	35.4	18.46	16.68
3.80	262.63	6.76	38.8	19.32	17.44
4.00	295.33	6.97	42.4	20.18	18.20
4.20	330.40	7.16	46.1	21.04	18.96
4.40	367.92	7.36	50.0	21.89	19.72
4.60	407.95	7.55	54.0	22.75	20.48
4.80	450.55	7.74	58.2	23.61	21.24
5.00	495.79	7.93	62.5	24.47	22.00

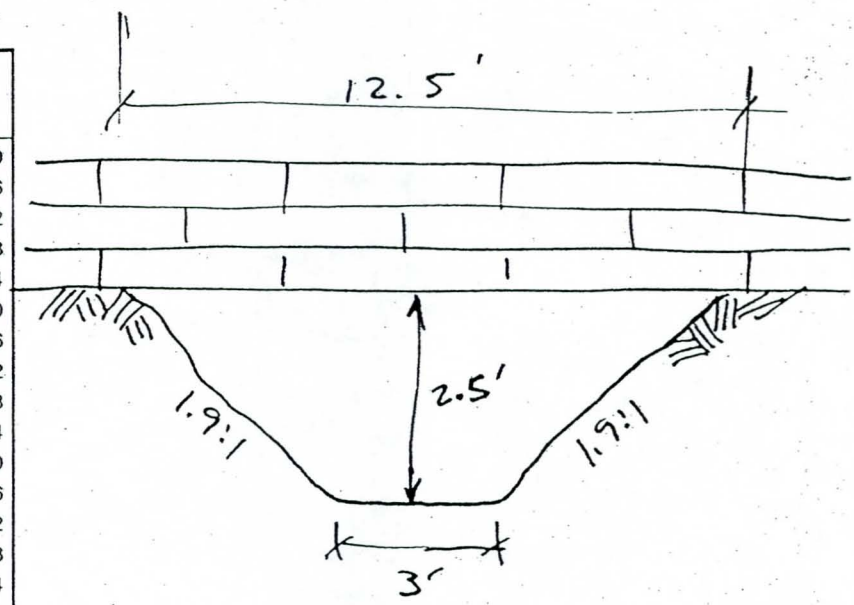


Table
Rating Table for Generic Orifice

Grid 1103

Project Description	
Worksheet	Wall Opening - Grid
Type	Generic Orifice
Solve For	Discharge

Input Data	
Centroid Elevatior	1.50 ft
Discharge Coeffic	0.67
Opening Area	19.4 ft²

Attribute	Minimum	Maximum	Increment
Headwater Elevation	3.00	8.00	0.50
Tailwater Elevation (f	2.50	4.00	0.10

Headwater Elevation (ft)	Tailwater Elevation (ft)	Discharge (cfs)	Velocity (ft/s)
3.00	2.50	73.73	3.80
3.50	2.50	104.27	5.37
4.00	2.50	127.70	6.58
4.50	2.50	147.45	7.60
5.00	2.50	164.86	8.50
5.50	2.50	180.59	9.31
6.00	2.50	195.06	10.05
6.50	2.50	208.53	10.75
7.00	2.50	221.18	11.40
7.50	2.50	233.15	12.02
8.00	2.50	244.53	12.60
3.00	2.60	65.94	3.40
3.50	2.60	98.92	5.10
4.00	2.60	123.37	6.36
4.50	2.60	143.72	7.41
5.00	2.60	161.53	8.33
5.50	2.60	177.56	9.15
6.00	2.60	192.26	9.91
6.50	2.60	205.91	10.61
7.00	2.60	218.71	11.27
7.50	2.60	230.80	11.90
8.00	2.60	242.29	12.49
3.00	2.70	57.11	2.94
3.50	2.70	93.26	4.81
4.00	2.70	118.88	6.13
4.50	2.70	139.89	7.21
5.00	2.70	158.13	8.15
5.50	2.70	174.47	8.99
6.00	2.70	189.41	9.76
6.50	2.70	203.25	10.48
7.00	2.70	216.21	11.14
7.50	2.70	228.44	11.78
8.00	2.70	240.04	12.37
3.00	2.80	46.63	2.40
3.50	2.80	87.24	4.50
4.00	2.80	114.22	5.89
4.50	2.80	135.95	7.01

Table
Rating Table for Generic Orifice

Grid 1103

Headwater Elevation (ft)	Tailwater Elevation (ft)	Discharge (cfs)	Velocity (ft/s)
5.00	2.80	154.65	7.97
5.50	2.80	171.33	8.83
6.00	2.80	186.52	9.61
6.50	2.80	200.56	10.34
7.00	2.80	213.68	11.01
7.50	2.80	226.04	11.65
8.00	2.80	237.76	12.26
3.00	2.90	32.97	1.70
3.50	2.90	80.76	4.16
4.00	2.90	109.36	5.64
4.50	2.90	131.89	6.80
5.00	2.90	151.10	7.79
5.50	2.90	168.12	8.67
6.00	2.90	183.58	9.46
6.50	2.90	197.83	10.20
7.00	2.90	211.12	10.88
7.50	2.90	223.63	11.53
8.00	2.90	235.47	12.14
3.00	3.00	N/A	N/A
3.50	3.00	73.73	3.80
4.00	3.00	104.27	5.37
4.50	3.00	127.70	6.58
5.00	3.00	147.45	7.60
5.50	3.00	164.86	8.50
6.00	3.00	180.59	9.31
6.50	3.00	195.06	10.05
7.00	3.00	208.53	10.75
7.50	3.00	221.18	11.40
8.00	3.00	233.15	12.02
3.00	3.10	N/A	N/A
3.50	3.10	65.94	3.40
4.00	3.10	98.92	5.10
4.50	3.10	123.37	6.36
5.00	3.10	143.72	7.41
5.50	3.10	161.53	8.33
6.00	3.10	177.56	9.15
6.50	3.10	192.26	9.91
7.00	3.10	205.91	10.61
7.50	3.10	218.71	11.27
8.00	3.10	230.80	11.90
3.00	3.20	N/A	N/A
3.50	3.20	57.11	2.94
4.00	3.20	93.26	4.81
4.50	3.20	118.88	6.13
5.00	3.20	139.89	7.21
5.50	3.20	158.13	8.15
6.00	3.20	174.47	8.99
6.50	3.20	189.41	9.76
7.00	3.20	203.25	10.48
7.50	3.20	216.21	11.14
8.00	3.20	228.44	11.78
3.00	3.30	N/A	N/A
3.50	3.30	46.63	2.40

Table
Rating Table for Generic Orifice

Grid 1103

Headwater Elevation (ft)	Tailwater Elevation (ft)	Discharge (cfs)	Velocity (ft/s)
4.00	3.30	87.24	4.50
4.50	3.30	114.22	5.89
5.00	3.30	135.95	7.01
5.50	3.30	154.65	7.97
6.00	3.30	171.33	8.83
6.50	3.30	186.52	9.61
7.00	3.30	200.56	10.34
7.50	3.30	213.68	11.01
8.00	3.30	226.04	11.65
3.00	3.40	N/A	N/A
3.50	3.40	32.97	1.70
4.00	3.40	80.76	4.16
4.50	3.40	109.36	5.64
5.00	3.40	131.89	6.80
5.50	3.40	151.10	7.79
6.00	3.40	168.12	8.67
6.50	3.40	183.58	9.46
7.00	3.40	197.83	10.20
7.50	3.40	211.12	10.88
8.00	3.40	223.63	11.53
3.00	3.50	N/A	N/A
3.50	3.50	N/A	N/A
4.00	3.50	73.73	3.80
4.50	3.50	104.27	5.37
5.00	3.50	127.70	6.58
5.50	3.50	147.45	7.60
6.00	3.50	164.86	8.50
6.50	3.50	180.59	9.31
7.00	3.50	195.06	10.05
7.50	3.50	208.53	10.75
8.00	3.50	221.18	11.40
3.00	3.60	N/A	N/A
3.50	3.60	N/A	N/A
4.00	3.60	65.94	3.40
4.50	3.60	98.92	5.10
5.00	3.60	123.37	6.36
5.50	3.60	143.72	7.41
6.00	3.60	161.53	8.33
6.50	3.60	177.56	9.15
7.00	3.60	192.26	9.91
7.50	3.60	205.91	10.61
8.00	3.60	218.71	11.27
3.00	3.70	N/A	N/A
3.50	3.70	N/A	N/A
4.00	3.70	57.11	2.94
4.50	3.70	93.26	4.81
5.00	3.70	118.88	6.13
5.50	3.70	139.89	7.21
6.00	3.70	158.13	8.15
6.50	3.70	174.47	8.99
7.00	3.70	189.41	9.76
7.50	3.70	203.25	10.48
8.00	3.70	216.21	11.14

Table
Rating Table for Generic Orifice

Grid 1103

Headwater Elevation (ft)	Tailwater Elevation (ft)	Discharge (cfs)	Velocity (ft/s)
3.00	3.80	N/A	N/A
3.50	3.80	N/A	N/A
4.00	3.80	46.63	2.40
4.50	3.80	87.24	4.50
5.00	3.80	114.22	5.89
5.50	3.80	135.95	7.01
6.00	3.80	154.65	7.97
6.50	3.80	171.33	8.83
7.00	3.80	186.52	9.61
7.50	3.80	200.56	10.34
8.00	3.80	213.68	11.01
3.00	3.90	N/A	N/A
3.50	3.90	N/A	N/A
4.00	3.90	32.97	1.70
4.50	3.90	80.76	4.16
5.00	3.90	109.36	5.64
5.50	3.90	131.89	6.80
6.00	3.90	151.10	7.79
6.50	3.90	168.12	8.67
7.00	3.90	183.58	9.46
7.50	3.90	197.83	10.20
8.00	3.90	211.12	10.88
3.00	4.00	N/A	N/A
3.50	4.00	N/A	N/A
4.00	4.00	N/A	N/A
4.50	4.00	73.73	3.80
5.00	4.00	104.27	5.37
5.50	4.00	127.70	6.58
6.00	4.00	147.45	7.60
6.50	4.00	164.86	8.50
7.00	4.00	180.59	9.31
7.50	4.00	195.06	10.05
8.00	4.00	208.53	10.75

CURRENT DATE: 11-16-2000 FILE DATE: 11-16-2000
CURRENT TIME: 08:57:42 FILE NAME: 7THST_L

****
********** FHWA CULVERT ANALYSIS **********
********** HY-8, VERSION 6.0 **********
****

CULV NO.	SITE DATA: INLET ELEV. (ft)	OUTLET ELEV. (ft)	CULVERT LENGTH (ft)	CULVERT SHAPE, MATERIAL, INLET: BARRELS SHAPE MATERIAL	SPAN (ft)	RISE (ft)	MANNING n	INLET TYPE
1	1361.35	1360.80	108.00	5 CMPA	4.22	2.64	.028	CONVENTIONAL
2								
3								
4								
5								
6								

****

SUMMARY OF CULVERT FLOWS (cfs) FILE: 7THST_L DATE: 11-16-2000

Depth	ELEV (ft)	TOTAL	1	2	3	4	5	6	ROADWAY	ITR	Weir Area (sf)
0	1361.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1	
1.38	1362.73	70.0	70.0	0.0	0.0	0.0	0.0	0.0	0.00	1	
2.22	1363.57	140.0	140.0	0.0	0.0	0.0	0.0	0.0	0.00	1	
3.09	1364.44	210.0	210.0	0.0	0.0	0.0	0.0	0.0	0.00	1	
4.61	1365.96	280.0	280.0	0.0	0.0	0.0	0.0	0.0	0.00	1	
5.62	1366.97	350.0	314.9	0.0	0.0	0.0	0.0	0.0	34.30	3	18.50
5.88	1367.23	400.0	322.0	0.0	0.0	0.0	0.0	0.0	75.80	3	31.50
6.27	1367.62	490.0	332.1	0.0	0.0	0.0	0.0	0.0	156.10	3	51.00
6.54	1367.89	560.0	335.3	0.0	0.0	0.0	0.0	0.0	223.26	3	64.50
6.75	1368.10	630.0	350.0	0.0	0.0	0.0	0.0	0.0	278.55	3	75.00
6.99	1368.34	700.0	350.0	0.0	0.0	0.0	0.0	0.0	349.01	4	87.00
	1366.60	302.2	302.2	0.0	0.0	0.0	0.0	0.0	OVERTOPPING		

****

SUMMARY OF ITERATIVE SOLUTION ERRORS FILE: 7THST_L DATE: 11-16-2000

HEAD ELEV (ft)	HEAD ERROR (ft)	TOTAL FLOW (cfs)	FLOW ERROR (cfs)	% FLOW ERROR
1361.35	0.000	0.00	0.00	0.00
1362.73	0.000	70.00	0.00	0.00
1363.57	0.000	140.00	0.00	0.00
1364.44	0.000	210.00	0.00	0.00
1365.96	0.000	280.00	0.00	0.00
1366.97	-0.003	350.00	0.84	0.24
1367.23	-0.009	400.00	2.24	0.56
1367.62	-0.006	490.00	1.75	0.36
1367.89	-0.005	560.00	1.49	0.27
1368.10	-0.004	630.00	1.45	0.23
1368.34	-0.002	700.00	0.99	0.14

****

<1> TOLERANCE (ft) = 0.010 <2> TOLERANCE (%) = 1.000

****

CURRENT DATE: 11-16-2000 FILE DATE: 11-16-2000
CURRENT TIME: 08:57:42 FILE NAME: 7THST_L

PERFORMANCE CURVE FOR CULVERT 1 - 5(4.22 (ft) BY 2.64 (ft)) CMPA

DIS-CHARGE FLOW (cfs)	HEAD-WATER ELEV. (ft)	INLET CONTROL DEPTH (ft)	OUTLET CONTROL DEPTH (ft)	FLOW TYPE <F4>	NORMAL DEPTH (ft)	CRIT. DEPTH (ft)	OUTLET DEPTH (ft)	TW DEPTH (ft)	OUTLET VEL. (fps)	TW VEL. (fps)	Culvert Area sf
0.00	1361.35	0.00	-0.55	0-NF	0.00	0.00	0.00	0.00	0.00	0.00	0
70.00	1362.74	1.28	1.39	2-M2c	1.17	0.80	0.80	0.76	4.77	5.85	14.68
140.00	1363.57	1.98	2.22	2-M2c	2.07	1.20	1.20	1.15	6.13	7.52	22.84
210.00	1364.44	2.61	3.09	2-M2c	2.64	1.54	1.54	1.47	7.18	8.68	29.25
280.00	1365.96	3.32	4.61	2-M2c	2.64	1.82	1.82	1.74	8.17	9.59	34.27
314.86	1366.97	3.74	5.62	3-M2t	2.64	1.94	1.99	1.99	8.52	10.34	36.96
321.96	1367.23	3.83	5.88	3-M2t	2.64	1.96	2.16	2.16	8.16	10.81	39.46
332.15	1367.63	3.96	6.28	3-M2t	2.64	2.00	2.43	2.43	7.84	11.55	42.37
335.26	1367.89	4.00	6.54	3-M2t	2.64	2.01	2.63	2.63	7.66	12.06	43.78
350.00	1365.56	4.21	4.13	3-M1f	2.64	2.06	2.64	2.82	7.99	12.53	43.80
350.00	1365.56	4.21	4.13	3-M1f	2.64	2.06	2.64	3.00	7.99	12.95	43.80

El. inlet face invert 1361.35 ft El. outlet invert 1360.80 ft
El. inlet throat invert 0.00 ft El. inlet crest 0.00 ft

***** SITE DATA ***** CULVERT INVERT **********

INLET STATION	1000.00 ft
INLET ELEVATION	1361.35 ft
OUTLET STATION	1108.00 ft
OUTLET ELEVATION	1360.80 ft
NUMBER OF BARRELS	5
SLOPE (V/H)	0.0051
CULVERT LENGTH ALONG SLOPE	108.00 ft

***** CULVERT DATA SUMMARY **********

BARREL SHAPE	PIPE ARCH
BARREL SPAN	4.22 ft
BARREL RISE	2.64 ft
BARREL MATERIAL	STEEL OR ALUMINUM
BARREL MANNING'S n	0.028
INLET TYPE	CONVENTIONAL
INLET EDGE AND WALL	HEADWALL
INLET DEPRESSION	NONE

CURRENT DATE: 11-16-2000 FILE DATE: 11-16-2000
CURRENT TIME: 08:57:42 FILE NAME: 7THST_L

****
********** TAILWATER **********
****

******* REGULAR CHANNEL CROSS SECTION **********

BOTTOM WIDTH	15.00 ft
SIDE SLOPE H/V (X:1)	1.0
CHANNEL SLOPE V/H (ft/ft)	0.010
MANNING'S n (.01-0.1)	0.020
CHANNEL INVERT ELEVATION	1360.80 ft
CULVERT NO.1 OUTLET INVERT ELEVATION	1360.80 ft

******* UNIFORM FLOW RATING CURVE FOR DOWNSTREAM CHANNEL

FLOW (cfs)	W.S.E. (ft)	FROUDE NUMBER	DEPTH (ft)	VEL. (f/s)	SHEAR (psf)
0.00	1360.80	0.000	0.00	0.00	0.00
70.00	1361.56	1.182	0.76	5.85	0.47
140.00	1361.95	1.235	1.15	7.52	0.72
210.00	1362.27	1.262	1.47	8.68	0.92
280.00	1362.54	1.279	1.74	9.59	1.09
350.00	1362.79	1.291	1.99	10.34	1.24
400.00	1362.96	1.297	2.16	10.81	1.35
490.00	1363.23	1.305	2.43	11.55	1.52
560.00	1363.43	1.310	2.63	12.06	1.64
630.00	1363.62	1.314	2.82	12.53	1.76
700.00	1363.80	1.317	3.00	12.95	1.87

****
********** ROADWAY OVERTOPPING DATA **********
****

ROADWAY SURFACE	PAVED
EMBANKMENT TOP WIDTH	100.00 ft
CREST LENGTH	50.00 ft
OVERTOPPING CREST ELEVATION	1366.60 ft

****

FLO-2D INPUT RATING CURVE

Depth	Flow	Area Culvert	Area Weir	Area TOTAL
0	0	0	0	0
1.38	70	14.68	0	14.68
2.22	140	22.84	0	22.84
3.09	210	29.25	0	29.25
4.61	280	34.27	0	34.27
5.62	350	36.96	18.50	55.46
5.88	400	39.46	31.50	70.96
6.27	490	42.37	51.00	93.37
6.54	560	43.78	64.50	108.28
6.75	630	43.80	75.00	118.80
6.99	700	43.80	87.00	130.80

Table E-3-E

Existing Conditions
Grid Element Area and Width Reduction Factors

Grid Element Number	Area Reduction Factor	Width Reduction Factor			
		North	East	Northeast	Southeast
177	0.00	0.00	0.00	0.00	0.00
181	0.00	0.00	0.00	0.00	0.00
187	0.00	0.00	0.00	0.00	0.00
188	0.00	0.00	0.00	0.00	0.00
219	0.00	0.00	0.00	0.00	0.00
220	0.00	0.00	0.00	0.00	0.00
287	0.00	0.00	0.00	0.00	0.00
288	0.00	0.00	0.00	0.00	0.00
316	0.00	0.00	0.00	0.00	0.00
332	0.00	0.00	0.00	0.00	0.00
333	0.00	0.00	0.00	0.00	0.00
377	0.00	0.00	0.00	0.00	0.00
378	0.00	0.00	0.00	0.00	0.00
451	0.00	0.00	0.00	0.00	0.00
454	0.00	0.00	0.00	0.00	0.00
460	0.00	0.00	0.00	0.00	0.00
496	0.00	0.00	0.00	0.00	0.00
514	0.00	0.00	0.00	0.00	0.00
515	0.00	0.00	0.00	0.00	0.00
558	0.00	0.00	0.00	0.00	0.00
559	0.00	0.00	0.00	0.00	0.00
560	0.00	0.00	0.00	0.00	0.00
575	0.00	0.00	0.00	0.00	0.00
576	0.00	0.00	0.00	0.00	0.00
589	0.00	0.00	0.00	0.00	0.00
618	0.00	0.00	0.00	0.00	0.00
631	0.00	0.00	0.00	0.00	0.00
749	0.00	0.00	0.00	0.00	0.00
750	0.00	0.00	0.00	0.00	0.00
758	0.00	0.00	0.00	0.00	0.00
759	0.00	0.00	0.00	0.00	0.00
760	0.00	0.00	0.00	0.00	0.00
794	0.00	0.00	0.00	0.00	0.00
795	0.00	0.00	0.00	0.00	0.00
843	0.00	0.00	0.00	0.00	0.00
884	0.00	0.00	0.00	0.00	0.00
929	0.00	0.00	0.00	0.00	0.00
978	0.00	0.00	0.00	0.00	0.00
980	0.00	0.00	0.00	0.00	0.00
981	0.00	0.00	0.00	0.00	0.00
1019	0.00	0.00	0.00	0.00	0.00
1020	0.00	0.00	0.00	0.00	0.00
1064	0.00	0.00	0.00	0.00	0.00
1065	0.00	0.00	0.00	0.00	0.00
1068	0.00	0.00	0.00	0.00	0.00
1113	0.00	0.00	0.00	0.00	0.00
1129	0.00	0.00	0.00	0.00	0.00

Table E-3-E

Existing Conditions
Grid Element Area and Width Reduction Factors

Grid Element	Area Reduction	Width Reduction Factor			
Number	Factor	North	East	Northeast	Southeast
1130	0.00	0.00	0.00	0.00	0.00
1134	0.00	0.00	0.00	0.00	0.00
1135	0.00	0.00	0.00	0.00	0.00
1142	0.00	0.00	0.00	0.00	0.00
1143	0.00	0.00	0.00	0.00	0.00
1152	0.00	0.00	0.00	0.00	0.00
1153	0.00	0.00	0.00	0.00	0.00
1174	0.00	0.00	0.00	0.00	0.00
1175	0.00	0.00	0.00	0.00	0.00
1179	0.00	0.00	0.00	0.00	0.00
1180	0.00	0.00	0.00	0.00	0.00
1187	0.00	0.00	0.00	0.00	0.00
1188	0.00	0.00	0.00	0.00	0.00
1197	0.00	0.00	0.00	0.00	0.00
1198	0.00	0.00	0.00	0.00	0.00
1203	0.00	0.00	0.00	0.00	0.00
1318	0.00	0.00	0.00	0.00	0.00
1319	0.00	0.00	0.00	0.00	0.00
1320	0.00	0.00	0.00	0.00	0.00
1325	0.00	0.00	0.00	0.00	0.00
1364	0.00	0.00	0.00	0.00	0.00
86	0.00	0.50	0.00	0.00	0.00
87	0.00	0.70	0.00	0.00	0.00
88	0.00	0.50	0.00	0.00	0.00
115	0.10	0.80	0.00	0.70	0.00
116	0.05	0.05	0.00	0.00	0.00
117	0.30	1.00	0.00	0.85	0.00
118	0.25	0.45	0.45	1.00	0.00
119	0.20	0.30	0.00	0.00	0.00
122	0.35	0.90	0.00	0.80	1.00
123	0.15	0.45	0.50	1.00	0.00
124	0.30	0.55	0.50	0.30	0.00
125	0.40	1.00	0.50	1.00	0.00
126	0.10	0.10	0.40	0.90	0.00
127	0.15	0.55	0.00	0.00	0.00
130	0.00	0.00	0.90	1.00	0.00
131	0.03	0.10	0.00	0.20	0.00
132	0.05	0.20	0.00	0.00	0.00
133	0.00	0.00	1.00	1.00	1.00
138	0.08	0.60	0.50	1.00	0.00
139	0.60	1.00	0.60	1.00	0.00
140	0.12	0.25	0.00	0.00	0.00
144	0.08	0.15	0.80	1.00	0.00
145	0.25	1.00	0.00	0.25	0.00
146	0.40	0.95	0.20	1.00	0.00
147	0.01	0.00	0.00	0.00	0.00
160	0.45	0.00	1.00	0.10	1.00

Table E-3-E

Existing Conditions
Grid Element Area and Width Reduction Factors

Grid Element Number	Area Reduction Factor	Width Reduction Factor			
		North	East	Northeast	Southeast
161	0.20	0.00	1.00	1.00	0.00
162	0.50	0.00	0.00	0.00	0.80
163	0.30	0.00	1.00	0.20	1.00
164	0.40	0.00	0.00	0.00	0.00
167	0.50	0.00	1.00	1.00	1.00
168	0.25	0.00	0.55	0.00	1.00
169	0.30	0.00	0.90	0.00	0.25
170	0.30	1.00	1.00	1.00	1.00
171	0.10	0.00	0.50	0.00	0.80
172	0.30	0.00	0.00	0.00	0.00
174	0.01	0.00	0.00	0.00	0.00
175	0.25	0.90	1.00	1.00	1.00
176	0.20	0.00	1.00	0.80	0.90
178	0.30	1.00	1.00	1.00	1.00
180	0.25	0.30	0.45	1.00	0.00
182	0.28	0.00	0.50	1.00	0.00
183	0.08	0.60	0.45	0.00	1.00
184	0.32	1.00	1.00	1.00	1.00
185	0.07	1.00	0.00	0.00	0.00
189	0.12	0.30	1.00	1.00	1.00
190	0.25	0.00	0.00	0.00	0.30
191	0.45	0.00	0.20	0.00	1.00
192	0.01	0.00	0.00	0.00	0.00
196	0.10	0.00	0.60	0.60	0.00
197	0.55	1.00	0.70	0.80	0.00
206	0.00	0.00	0.50	0.00	1.00
207	0.00	0.00	0.50	0.00	1.00
208	0.25	0.00	0.00	0.00	0.00
209	0.05	0.10	0.00	0.00	0.00
212	0.00	0.50	1.00	1.00	1.00
213	0.00	1.00	0.00	1.00	0.00
214	0.10	1.00	1.00	1.00	1.00
215	0.45	0.75	0.20	0.85	0.00
216	0.08	0.00	0.00	0.00	0.00
217	0.40	1.00	0.20	0.20	0.50
221	0.07	0.00	0.10	0.00	0.80
222	0.50	0.00	0.50	0.00	1.00
223	0.18	0.00	1.00	1.00	1.00
225	0.25	0.45	0.80	1.00	1.00
226	0.25	0.00	0.00	0.00	0.80
227	0.00	0.00	1.00	1.00	1.00
228	0.00	0.00	0.00	0.00	1.00
229	0.15	0.50	1.00	1.00	1.00
230	0.15	1.00	1.00	1.00	1.00
232	0.60	0.40	0.90	1.00	1.00
233	0.70	0.50	0.00	0.00	1.00
234	0.23	0.00	1.00	1.00	1.00

Table E-3-E

Existing Conditions
Grid Element Area and Width Reduction Factors

Grid Element Number	Area Reduction Factor	Width Reduction Factor			
		North	East	Northeast	Southeast
235	0.55	0.90	0.95	1.00	0.10
236	0.40	0.50	0.00	0.00	0.00
241	0.05	0.00	0.00	0.00	0.50
242	0.30	0.50	0.00	0.60	0.50
243	0.10	0.35	0.00	0.00	0.00
250	0.00	1.00	0.00	1.00	0.00
251	0.00	1.00	0.00	1.00	0.00
252	0.00	1.00	0.00	1.00	0.00
253	0.35	0.30	1.00	1.00	1.00
254	0.30	0.10	0.00	0.00	0.00
257	0.45	0.50	1.00	1.00	1.00
258	0.60	1.00	0.00	1.00	1.00
259	0.05	1.00	1.00	1.00	1.00
260	0.30	0.00	0.70	0.00	0.80
261	0.55	0.10	0.00	0.00	0.00
262	0.30	0.00	0.00	0.00	0.40
264	0.02	0.00	0.00	0.00	0.10
265	0.02	0.20	1.00	1.00	1.00
268	0.00	0.00	1.00	1.00	1.00
269	0.05	0.00	0.00	0.00	0.00
270	0.23	1.00	0.60	1.00	0.90
271	0.08	1.00	0.00	1.00	0.00
272	0.00	1.00	1.00	1.00	1.00
273	0.00	0.60	0.00	1.00	0.00
274	0.30	1.00	1.00	1.00	1.00
275	0.25	0.00	0.00	0.00	0.00
277	0.20	0.50	0.40	0.50	1.00
278	0.20	0.30	0.00	0.00	0.00
280	0.35	0.60	0.60	1.00	0.60
281	0.18	0.05	0.00	0.00	0.00
296	0.10	0.00	0.00	0.00	0.00
297	0.00	0.00	1.00	1.00	1.00
298	0.40	0.20	0.00	0.00	0.00
299	0.15	0.20	0.35	1.00	0.00
302	0.25	0.50	0.50	1.00	1.00
303	0.40	1.00	0.00	0.00	1.00
304	0.00	0.00	1.00	1.00	1.00
306	0.05	0.00	0.00	0.00	0.00
310	0.20	0.00	1.00	1.00	1.00
313	0.35	0.30	0.50	1.00	1.00
315	0.12	0.15	0.90	1.00	1.00
316	0.70	1.00	0.80	1.00	0.00
317	0.13	1.00	0.90	1.00	1.00
318	0.00	0.60	0.00	1.00	1.00
319	0.35	1.00	1.00	1.00	1.00
320	0.35	0.50	0.00	0.00	0.00
322	0.30	0.50	0.70	1.00	1.00

Table E-3-E

Existing Conditions
Grid Element Area and Width Reduction Factors

Grid Element Number	Area Reduction Factor	Width Reduction Factor			
		North	East	Northeast	Southeast
323	0.30	0.30	0.00	0.00	0.00
324	0.10	0.00	0.65	0.00	0.20
325	0.40	0.45	0.75	0.90	1.00
326	0.22	0.30	0.00	0.00	0.00
331	0.10	0.00	0.50	0.50	0.00
334	0.15	0.00	0.00	0.00	0.00
341	0.10	0.00	0.00	0.00	0.00
342	0.00	0.00	1.00	1.00	1.00
343	0.20	0.00	0.00	0.00	0.00
344	0.15	0.40	0.80	0.30	1.00
345	0.30	0.35	0.00	0.00	0.00
347	0.20	1.00	0.90	1.00	1.00
348	0.40	1.00	0.00	1.00	0.00
349	0.00	1.00	1.00	1.00	1.00
355	0.00	0.00	0.90	0.00	1.00
358	0.00	0.00	1.00	1.00	1.00
360	0.20	0.00	0.80	1.00	1.00
361	0.80	1.00	0.90	0.00	0.00
362	0.03	0.00	0.80	1.00	1.00
363	0.00	0.00	0.00	0.00	1.00
364	0.25	0.50	0.90	1.00	1.00
365	0.20	0.25	1.00	0.00	1.00
367	0.37	0.00	0.10	0.15	1.00
368	0.20	0.00	0.00	0.00	0.00
369	0.10	0.00	0.00	0.00	0.00
370	0.40	0.00	1.00	0.00	1.00
371	0.30	1.00	1.00	1.00	0.00
376	0.20	0.00	0.00	0.30	0.30
385	0.05	0.00	0.10	0.00	0.50
386	0.05	0.00	0.00	0.00	0.00
387	0.00	0.00	1.00	1.00	1.00
389	0.40	0.40	1.00	1.00	1.00
390	0.40	0.40	0.00	0.00	0.00
392	0.40	0.60	0.90	1.00	1.00
393	0.35	0.20	0.00	0.00	1.00
394	0.05	0.35	0.00	0.00	0.00
403	0.05	0.00	1.00	1.00	1.00
404	0.05	0.00	0.00	0.00	0.00
405	0.08	0.50	0.90	1.00	1.00
406	0.70	1.00	0.00	1.00	0.00
407	0.05	1.00	0.90	1.00	1.00
408	0.04	0.60	0.00	1.00	0.00
409	0.40	1.00	0.90	1.00	1.00
410	0.13	0.60	0.00	0.00	0.00
412	0.30	0.30	1.00	1.00	0.85
413	0.30	0.25	0.00	0.00	0.00
421	0.05	0.00	0.00	0.00	0.50

Table E-3-E

Existing Conditions
Grid Element Area and Width Reduction Factors

Grid Element	Area Reduction	Width Reduction Factor			
Number	Factor	North	East	Northeast	Southeast
422	0.30	0.00	0.00	0.00	1.00
423	0.30	0.00	0.00	0.00	1.00
424	0.10	0.00	0.00	0.00	0.00
432	0.00	0.00	0.80	0.00	1.00
434	0.25	0.60	0.10	0.90	0.50
435	0.20	0.30	0.00	0.00	0.00
437	0.35	0.55	0.35	0.75	1.00
438	0.20	1.00	0.00	0.20	0.00
439	0.15	0.20	0.30	0.90	0.00
440	0.10	0.20	0.00	0.00	0.00
448	0.00	0.00	1.00	1.00	1.00
450	0.08	0.00	1.00	0.65	0.65
452	0.10	0.00	1.00	1.00	1.00
453	0.18	0.60	1.00	1.00	1.00
455	0.10	0.80	0.50	1.00	0.00
457	0.45	1.00	0.90	1.00	0.50
458	0.15	1.00	0.00	1.00	0.00
461	0.35	0.65	0.00	0.00	0.00
462	0.10	1.00	1.00	1.00	1.00
468	0.35	1.00	0.45	1.00	0.00
469	0.40	1.00	0.45	1.00	0.00
470	0.50	1.00	0.50	1.00	0.00
471	0.20	0.20	0.00	0.00	0.00
477	0.00	0.00	0.00	1.00	0.00
478	0.00	1.00	0.00	1.00	0.00
479	0.40	1.00	0.90	1.00	1.00
480	0.35	1.00	1.00	1.00	0.00
482	0.25	0.00	0.50	0.00	1.00
483	0.40	0.00	0.00	0.00	0.25
484	0.10	0.00	0.25	0.00	1.00
485	0.25	0.00	0.00	0.00	0.00
493	0.00	0.00	1.00	1.00	1.00
495	0.20	0.30	0.80	1.00	1.00
497	0.00	0.00	0.90	0.90	0.90
498	0.00	0.00	0.00	0.00	1.00
499	0.00	0.00	0.00	0.00	1.00
502	0.25	0.60	0.70	1.00	1.00
503	0.10	0.00	0.00	0.00	0.00
505	0.25	0.20	0.50	1.00	0.75
506	0.30	0.40	0.00	0.00	0.00
511	0.00	0.00	0.00	0.00	0.00
512	0.10	0.50	0.00	0.55	0.00
513	0.90	1.00	1.00	1.00	1.00
516	0.25	0.00	0.00	0.00	0.00
522	0.00	0.00	0.90	1.00	0.50
523	0.00	0.00	0.00	0.00	1.00
524	0.35	0.50	1.00	1.00	1.00

Table E-3-E

Existing Conditions
Grid Element Area and Width Reduction Factors

Grid Element Number	Area Reduction Factor	Width Reduction Factor			
		North	East	Northeast	Southeast
525	0.35	0.35	0.00	0.00	0.00
528	0.30	0.20	1.00	1.00	0.85
529	0.30	0.15	0.00	0.00	0.00
530	0.35	1.00	0.20	1.00	0.00
531	0.30	1.00	0.10	1.00	0.00
532	0.05	0.00	0.00	0.00	0.00
538	0.00	0.00	1.00	1.00	1.00
540	0.10	0.90	0.50	0.90	1.00
541	0.40	1.00	0.00	0.90	0.00
542	0.00	1.00	0.90	1.00	1.00
544	0.25	0.85	0.00	0.00	0.00
547	0.75	1.00	1.00	1.00	1.00
548	0.20	0.20	0.00	0.00	0.00
550	0.10	0.00	0.20	0.00	1.00
551	0.15	0.00	0.00	0.00	0.00
557	0.50	0.50	1.00	1.00	1.00
561	0.25	0.00	0.00	0.00	0.00
567	0.00	0.00	1.00	1.00	1.00
568	0.30	1.00	0.00	0.20	0.00
569	0.45	1.00	0.25	0.65	1.00
570	0.25	0.25	0.00	0.00	0.00
572	0.05	0.50	0.00	0.20	0.00
573	0.20	1.00	0.30	0.20	1.00
574	0.15	0.00	0.00	0.00	0.00
577	0.10	0.00	0.00	0.00	0.00
583	0.00	0.00	1.00	1.00	1.00
585	0.00	0.00	0.00	0.00	1.00
586	0.00	1.00	1.00	1.00	1.00
587	0.00	0.00	1.00	1.00	0.90
588	0.03	0.00	0.30	0.00	0.40
590	0.10	0.00	0.00	0.00	0.00
592	0.25	0.00	0.10	0.00	1.00
593	0.07	0.00	0.00	0.30	0.00
594	0.07	0.45	0.00	0.00	0.00
596	0.45	0.60	1.00	0.65	0.20
597	0.10	0.00	0.00	0.00	0.00
602	0.15	0.00	0.00	0.00	0.75
603	0.50	0.00	0.55	0.00	1.00
604	0.60	0.00	0.55	0.00	1.00
605	0.60	0.00	0.55	0.00	1.00
606	0.20	0.00	0.00	0.00	0.00
612	0.00	0.00	1.00	0.50	1.00
613	0.25	1.00	1.00	1.00	0.00
614	0.45	0.00	0.55	0.00	1.00
615	0.20	0.00	0.00	0.00	0.00
617	0.30	0.00	0.80	0.00	1.00
626	0.00	1.00	0.00	1.00	0.00

Table E-3-E

Existing Conditions
Grid Element Area and Width Reduction Factors

Grid Element Number	Area Reduction Factor	Width Reduction Factor			
		North	East	Northeast	Southeast
627	0.00	1.00	0.00	1.00	0.00
628	0.00	1.00	1.00	1.00	1.00
630	0.05	0.50	1.00	1.00	0.00
632	0.00	1.00	1.00	1.00	1.00
633	0.12	0.10	0.65	1.00	0.00
634	0.65	1.00	0.65	1.00	0.00
635	0.15	0.20	0.00	0.00	0.00
637	0.30	0.45	0.85	1.00	0.00
638	0.38	0.60	0.00	0.00	0.00
639	0.20	0.00	0.00	0.00	0.00
640	0.05	0.00	0.10	0.75	0.00
641	0.72	1.00	1.00	1.00	1.00
642	0.10	0.00	0.00	0.00	0.00
657	0.00	0.00	0.00	1.00	1.00
658	0.00	1.00	0.00	1.00	0.00
659	0.00	1.00	0.00	1.00	0.00
660	0.00	1.00	0.00	0.00	0.00
664	0.00	0.20	0.00	1.00	0.00
665	0.00	1.00	0.00	1.00	1.00
666	0.00	1.00	0.00	0.50	1.00
675	0.40	0.00	0.50	0.00	1.00
677	0.10	1.00	0.00	0.00	0.00
676	0.50	0.00	0.50	0.00	1.00
678	0.05	0.00	0.10	0.00	1.00
679	0.20	0.00	0.10	0.00	1.00
680	0.70	0.00	0.00	0.00	0.00
685	0.05	0.00	0.25	0.00	0.85
686	0.30	0.00	0.15	0.00	1.00
687	0.03	0.00	0.00	0.00	0.00
702	0.00	0.00	1.00	1.00	0.50
703	0.45	0.00	0.50	0.00	1.00
704	0.30	0.75	0.75	1.00	1.00
705	0.35	0.75	0.00	0.00	0.00
707	0.40	0.60	1.00	1.00	0.10
708	0.20	0.20	0.20	0.00	0.00
709	0.00	0.00	1.00	1.00	0.00
710	0.10	0.40	0.15	1.00	1.00
711	0.25	1.00	0.50	0.00	1.00
712	0.00	0.00	0.60	1.00	0.00
713	0.20	0.75	0.50	1.00	0.00
714	0.28	0.50	0.50	0.85	0.00
715	0.30	1.00	0.25	1.00	0.00
716	0.03	0.00	0.00	0.00	0.00
717	0.05	0.25	0.00	0.00	0.00
721	0.00	1.00	0.20	1.00	0.00
722	0.60	0.90	1.00	1.00	1.00
747	0.00	0.00	1.00	1.00	1.00

Table E-3-E

Existing Conditions
Grid Element Area and Width Reduction Factors

Grid Element Number	Area Reduction Factor	Width Reduction Factor			
		North	East	Northeast	Southeast
748	0.00	1.00	0.00	1.00	0.00
752	0.10	0.00	0.00	0.00	0.90
753	0.22	0.65	0.25	1.00	0.00
754	0.10	0.50	1.00	1.00	1.00
755	0.30	0.00	0.90	0.10	1.00
756	0.75	0.00	0.00	0.00	0.85
757	0.03	0.25	1.00	1.00	1.00
761	0.04	0.00	0.00	0.00	0.00
762	0.05	1.00	0.00	0.50	0.00
763	0.05	0.20	0.00	0.00	0.00
765	0.00	0.50	0.00	1.00	0.00
766	0.60	0.00	0.50	0.00	1.00
767	0.70	0.00	1.00	1.00	1.00
783	0.15	1.00	0.00	0.10	0.00
792	0.00	0.00	1.00	1.00	1.00
793	0.00	0.00	0.00	0.00	1.00
798	0.30	0.00	0.60	0.00	1.00
799	0.28	0.00	0.40	0.00	1.00
802	0.05	0.00	1.00	1.00	1.00
803	0.00	0.00	0.00	0.00	1.00
804	0.02	0.00	0.00	0.00	1.00
805	0.02	0.00	0.00	0.00	0.50
806	0.00	0.00	0.50	1.00	0.00
807	0.33	0.75	0.75	1.00	1.00
808	0.20	0.65	0.00	0.00	0.00
810	0.10	0.50	0.00	1.00	0.00
811	0.20	0.70	0.50	1.00	0.00
812	0.10	0.50	1.00	1.00	1.00
827	0.05	0.00	0.60	0.00	0.10
828	0.50	0.00	0.00	0.00	0.50
837	0.00	0.00	1.00	1.00	1.00
838	0.00	1.00	0.00	1.00	0.00
839	0.30	1.00	0.20	1.00	1.00
840	0.20	1.00	0.00	0.00	0.00
842	0.20	0.00	1.00	0.85	0.40
847	0.25	0.00	1.00	1.00	1.00
848	0.03	0.00	0.00	0.00	0.00
851	0.00	0.00	1.00	1.00	1.00
852	0.32	0.75	0.40	0.90	1.00
853	0.35	0.65	0.00	0.00	0.00
855	0.60	0.60	1.00	1.00	1.00
856	0.80	0.90	1.00	0.90	0.00
857	0.60	0.60	1.00	1.00	1.00
882	0.00	0.00	1.00	1.00	1.00
883	0.15	1.00	0.00	1.00	1.00
885	0.15	1.00	0.00	0.00	0.00
887	0.10	0.00	0.15	0.00	0.90

Table E-3-E

Existing Conditions
Grid Element Area and Width Reduction Factors

Grid Element Number	Area Reduction Factor	Width Reduction Factor			
		North	East	Northeast	Southeast
888	0.20	0.00	0.00	0.00	0.00
889	0.13	0.00	0.00	0.00	0.00
892	0.00	0.00	0.00	1.00	1.00
893	0.00	1.00	0.50	1.00	0.00
894	0.00	1.00	0.50	1.00	0.00
895	0.00	1.00	0.50	1.00	0.00
896	0.00	1.00	1.00	1.00	1.00
897	0.55	0.00	1.00	0.20	1.00
898	0.27	0.00	0.00	0.00	0.00
900	0.20	1.00	0.50	1.00	1.00
901	0.30	1.00	0.20	1.00	0.90
902	0.20	1.00	1.00	1.00	1.00
905	0.10	0.35	0.20	1.00	0.00
906	0.03	0.00	0.00	0.00	0.00
913	0.20	0.40	0.50	1.00	0.00
927	0.00	0.00	1.00	1.00	1.00
928	0.50	1.00	1.00	1.00	1.00
930	0.30	0.50	0.00	0.00	0.00
934	0.00	0.00	0.00	1.00	0.00
935	0.00	1.00	0.00	1.00	0.00
936	0.00	0.50	0.00	0.00	0.00
937	0.00	0.00	1.00	1.00	1.00
938	0.40	0.50	0.90	1.00	1.00
939	0.55	0.80	0.00	0.00	1.00
940	0.75	1.00	0.00	0.90	1.00
941	0.35	0.70	0.65	1.00	1.00
942	0.37	0.50	0.50	0.85	0.00
943	0.40	0.90	0.00	0.00	0.00
945	0.20	0.70	0.50	1.00	1.00
946	0.30	0.90	0.50	1.00	1.00
947	0.40	0.90	1.00	1.00	1.00
958	0.23	0.00	0.60	0.00	1.00
972	0.00	0.00	1.00	1.00	1.00
973	0.00	1.00	0.00	1.00	0.00
974	0.00	1.00	0.00	1.00	0.00
975	0.05	0.60	0.00	0.00	0.00
977	0.04	0.00	0.75	0.15	0.00
979	0.20	0.40	1.00	1.00	0.00
983	0.32	0.00	0.10	0.00	1.00
984	0.40	0.00	0.65	0.00	0.40
985	0.50	0.00	0.30	0.00	1.00
986	0.25	0.00	0.70	0.00	1.00
987	0.45	0.00	0.70	0.00	1.00
988	0.30	0.00	0.00	0.00	0.00
990	0.40	0.00	0.90	0.00	1.00
991	0.80	0.00	0.90	0.00	1.00
992	0.80	0.00	1.00	1.00	1.00

Table E-3-E

Existing Conditions
Grid Element Area and Width Reduction Factors

Grid Element Number	Area Reduction Factor	Width Reduction Factor			
		North	East	Northeast	Southeast
1007	0.05	0.00	0.00	0.80	0.00
1008	0.10	0.10	0.00	0.00	0.00
1017	0.00	0.00	1.00	1.00	1.00
1018	0.00	1.00	0.00	1.00	1.00
1023	0.40	1.00	0.00	0.20	0.40
1024	0.03	0.00	1.00	1.00	1.00
1025	0.38	0.00	0.50	0.00	1.00
1026	0.35	0.00	0.00	0.00	0.00
1035	0.10	0.00	0.00	0.00	0.90
1036	0.20	0.00	0.00	0.00	0.00
1037	0.10	0.00	1.00	1.00	1.00
1042	0.15	0.00	0.80	0.10	0.00
1043	0.75	0.00	0.90	0.30	0.00
1044	0.10	0.00	0.00	0.00	0.00
1048	0.08	0.50	0.00	0.80	0.00
1051	0.00	1.00	0.00	1.00	0.00
1052	0.30	1.00	0.00	1.00	0.00
1053	0.30	1.00	0.00	1.00	0.00
1054	0.00	1.00	0.00	1.00	0.00
1055	0.00	1.00	0.00	1.00	0.00
1056	0.00	1.00	0.00	1.00	0.00
1057	0.00	1.00	0.00	1.00	0.00
1058	0.00	1.00	0.00	1.00	0.00
1059	0.00	1.00	0.00	1.00	0.00
1060	0.00	1.00	0.00	1.00	0.00
1061	0.00	1.00	0.00	1.00	0.00
1062	0.00	1.00	1.00	1.00	1.00
1063	0.00	1.00	0.00	1.00	1.00
1067	0.20	0.00	0.85	0.30	0.00
1069	0.00	0.00	1.00	1.00	1.00
1070	0.10	0.15	0.50	1.00	0.00
1071	0.25	0.60	0.00	0.00	0.00
1074	0.25	0.25	0.75	1.00	0.00
1075	0.27	0.95	0.00	0.10	0.00
1076	0.35	0.85	0.70	1.00	0.00
1077	0.18	0.35	0.00	0.00	0.00
1078	0.35	0.75	0.60	1.00	0.00
1079	0.27	0.35	0.00	0.00	0.00
1080	0.60	0.90	0.60	1.00	0.00
1081	0.70	0.90	0.60	1.00	0.00
1082	0.60	0.90	1.00	1.00	1.00
1083	0.20	0.45	0.50	1.00	0.00
1084	0.50	1.00	0.50	1.00	0.00
1085	0.50	1.00	0.50	1.00	0.00
1086	0.05	0.05	0.00	0.00	0.00
1089	0.50	1.00	0.50	1.00	0.00
1090	0.50	1.00	0.50	1.00	0.00

Table E-3-E

Existing Conditions
Grid Element Area and Width Reduction Factors

Grid Element Number	Area Reduction Factor	Width Reduction Factor			
		North	East	Northeast	Southeast
1093	0.45	0.05	1.00	0.90	1.00
1096	0.10	0.50	0.00	1.00	1.00
1097	0.10	1.00	0.00	1.00	1.00
1098	0.00	1.00	0.00	1.00	1.00
1099	0.00	0.50	0.00	0.00	1.00
1100	0.00	0.00	0.00	0.00	1.00
1101	0.00	0.00	1.00	1.00	1.00
1102	0.00	0.00	0.00	0.00	1.00
1103	0.00	0.00	0.00	0.00	1.00
1104	0.00	0.00	0.00	0.00	1.00
1105	0.00	0.00	0.00	0.00	1.00
1106	0.00	0.00	1.00	1.00	1.00
1107	0.00	0.00	1.00	1.00	1.00
1108	0.00	0.00	0.00	0.00	1.00
1109	0.25	0.00	0.50	0.00	1.00
1110	0.25	0.00	1.00	1.00	1.00
1112	0.12	0.00	0.60	0.00	0.75
1114	0.00	1.00	1.00	1.00	1.00
1115	0.45	0.00	1.00	0.75	1.00
1116	0.55	0.00	0.00	0.00	0.00
1118	0.12	0.50	0.25	1.00	0.00
1119	0.15	0.00	0.90	0.10	1.00
1120	0.50	0.00	0.00	0.00	0.00
1121	0.40	0.00	0.80	0.00	1.00
1122	0.25	0.00	0.00	0.00	0.00
1123	0.38	0.00	0.60	0.00	1.00
1124	0.25	0.00	0.00	0.00	0.00
1125	0.40	1.00	0.50	1.00	1.00
1126	0.30	1.00	0.50	1.00	1.00
1127	0.30	1.00	1.00	1.00	1.00
1128	0.40	0.45	1.00	1.00	1.00
1131	0.10	0.00	0.00	0.00	0.00
1141	0.30	0.50	1.00	1.00	1.00
1144	0.40	0.50	0.00	0.00	0.00
1146	0.00	0.00	1.00	1.00	1.00
1147	0.10	0.45	0.00	0.85	0.00
1148	0.15	0.50	0.00	0.00	0.00
1150	0.25	0.50	0.00	1.00	0.00
1151	0.30	0.60	1.00	1.00	0.00
1154	0.25	0.40	0.60	1.00	0.00
1155	0.55	1.00	0.00	0.45	0.00
1157	0.05	0.00	0.00	0.10	1.00
1158	0.30	0.00	0.00	0.00	0.20
1159	0.05	0.00	0.20	0.00	0.00
1160	0.15	0.85	0.75	1.00	1.00
1161	0.27	0.85	0.00	0.00	0.00
1163	0.53	0.95	0.75	1.00	0.20

Table E-3-E

Existing Conditions
Grid Element Area and Width Reduction Factors

Grid Element Number	Area Reduction Factor	Width Reduction Factor			
		North	East	Northeast	Southeast
1164	0.25	0.45	0.50	1.00	0.00
1165	0.40	0.75	0.50	1.00	0.00
1166	0.33	0.85	0.00	0.00	0.00
1167	0.37	0.85	0.50	1.00	0.00
1168	0.45	0.75	0.70	1.00	1.00
1169	0.20	0.00	1.00	1.00	1.00
1170	0.40	0.90	0.50	1.00	1.00
1171	0.30	0.80	0.50	1.00	1.00
1172	0.40	0.80	1.00	1.00	1.00
1173	0.40	0.45	1.00	1.00	1.00
1176	0.10	0.00	0.00	0.00	0.00
1183	0.15	0.25	0.50	1.00	0.00
1186	0.45	0.00	1.00	0.65	1.00
1189	0.40	0.00	0.00	0.00	0.00
1191	0.00	0.00	1.00	0.50	1.00
1192	0.15	0.00	0.40	0.00	1.00
1196	0.50	0.00	1.00	0.00	1.00
1204	0.00	1.00	1.00	1.00	1.00
1205	0.60	1.00	1.00	1.00	1.00
1206	0.60	0.50	0.00	0.00	0.00
1215	0.70	0.00	0.50	0.00	1.00
1216	0.60	0.00	0.50	0.00	1.00
1217	0.70	0.00	1.00	0.00	0.90
1218	0.20	0.50	0.50	1.00	1.00
1219	0.50	1.00	0.50	1.00	1.00
1220	0.50	1.00	1.00	1.00	1.00
1317	0.20	0.50	0.80	1.00	0.00
1324	0.40	0.50	1.00	1.00	1.00
1331	0.20	0.00	0.50	0.00	1.00
1332	0.50	0.00	0.50	0.00	0.00
NOTE: WRF values are assumed 1.0 for grid elements that are totally blocked					

Table E-3-P

Proposed Conditions
Grid Element Area and Width Reduction Factors

Grid Element	Area Reduction	Width Reduction Factor			
Number	Factor	North	East	Northeast	Southeast
177	0.00	0.00	0.00	0.00	0.00
181	0.00	0.00	0.00	0.00	0.00
187	0.00	0.00	0.00	0.00	0.00
188	0.00	0.00	0.00	0.00	0.00
219	0.00	0.00	0.00	0.00	0.00
220	0.00	0.00	0.00	0.00	0.00
287	0.00	0.00	0.00	0.00	0.00
288	0.00	0.00	0.00	0.00	0.00
316	0.00	0.00	0.00	0.00	0.00
332	0.00	0.00	0.00	0.00	0.00
333	0.00	0.00	0.00	0.00	0.00
361	0.00	0.00	0.00	0.00	0.00
377	0.00	0.00	0.00	0.00	0.00
378	0.00	0.00	0.00	0.00	0.00
406	0.00	0.00	0.00	0.00	0.00
451	0.00	0.00	0.00	0.00	0.00
454	0.00	0.00	0.00	0.00	0.00
460	0.00	0.00	0.00	0.00	0.00
496	0.00	0.00	0.00	0.00	0.00
514	0.00	0.00	0.00	0.00	0.00
515	0.00	0.00	0.00	0.00	0.00
558	0.00	0.00	0.00	0.00	0.00
559	0.00	0.00	0.00	0.00	0.00
560	0.00	0.00	0.00	0.00	0.00
566	0.00	0.00	0.00	0.00	0.00
575	0.00	0.00	0.00	0.00	0.00
576	0.00	0.00	0.00	0.00	0.00
589	0.00	0.00	0.00	0.00	0.00
611	0.00	0.00	0.00	0.00	0.00
618	0.00	0.00	0.00	0.00	0.00
631	0.00	0.00	0.00	0.00	0.00
656	0.00	0.00	0.00	0.00	0.00
692	0.00	0.00	0.00	0.00	0.00
693	0.00	0.00	0.00	0.00	0.00
694	0.00	0.00	0.00	0.00	0.00
695	0.00	0.00	0.00	0.00	0.00
696	0.00	0.00	0.00	0.00	0.00
697	0.00	0.00	0.00	0.00	0.00
698	0.00	0.00	0.00	0.00	0.00
699	0.00	0.00	0.00	0.00	0.00
700	0.00	0.00	0.00	0.00	0.00
701	0.00	0.00	0.00	0.00	0.00
737	0.00	0.00	0.00	0.00	0.00
738	0.00	0.00	0.00	0.00	0.00
739	0.00	0.00	0.00	0.00	0.00
740	0.00	0.00	0.00	0.00	0.00
741	0.00	0.00	0.00	0.00	0.00

Table E-3-P

Proposed Conditions
Grid Element Area and Width Reduction Factors

Grid Element Number	Area Reduction Factor	Width Reduction Factor			
		North	East	Northeast	Southeast
742	0.00	0.00	0.00	0.00	0.00
743	0.00	0.00	0.00	0.00	0.00
744	0.00	0.00	0.00	0.00	0.00
745	0.00	0.00	0.00	0.00	0.00
749	0.00	0.00	0.00	0.00	0.00
750	0.00	0.00	0.00	0.00	0.00
758	0.00	0.00	0.00	0.00	0.00
759	0.00	0.00	0.00	0.00	0.00
760	0.00	0.00	0.00	0.00	0.00
794	0.00	0.00	0.00	0.00	0.00
795	0.00	0.00	0.00	0.00	0.00
843	0.00	0.00	0.00	0.00	0.00
884	0.00	0.00	0.00	0.00	0.00
929	0.00	0.00	0.00	0.00	0.00
978	0.00	0.00	0.00	0.00	0.00
980	0.00	0.00	0.00	0.00	0.00
981	0.00	0.00	0.00	0.00	0.00
1019	0.00	0.00	0.00	0.00	0.00
1020	0.00	0.00	0.00	0.00	0.00
1064	0.00	0.00	0.00	0.00	0.00
1065	0.00	0.00	0.00	0.00	0.00
1068	0.00	0.00	0.00	0.00	0.00
1113	0.00	0.00	0.00	0.00	0.00
1129	0.00	0.00	0.00	0.00	0.00
1130	0.00	0.00	0.00	0.00	0.00
1134	0.00	0.00	0.00	0.00	0.00
1135	0.00	0.00	0.00	0.00	0.00
1142	0.00	0.00	0.00	0.00	0.00
1143	0.00	0.00	0.00	0.00	0.00
1152	0.00	0.00	0.00	0.00	0.00
1153	0.00	0.00	0.00	0.00	0.00
1174	0.00	0.00	0.00	0.00	0.00
1175	0.00	0.00	0.00	0.00	0.00
1179	0.00	0.00	0.00	0.00	0.00
1180	0.00	0.00	0.00	0.00	0.00
1187	0.00	0.00	0.00	0.00	0.00
1188	0.00	0.00	0.00	0.00	0.00
1197	0.00	0.00	0.00	0.00	0.00
1198	0.00	0.00	0.00	0.00	0.00
1203	0.00	0.00	0.00	0.00	0.00
1318	0.00	0.00	0.00	0.00	0.00
1319	0.00	0.00	0.00	0.00	0.00
1320	0.00	0.00	0.00	0.00	0.00
1325	0.00	0.00	0.00	0.00	0.00
1364	0.00	0.00	0.00	0.00	0.00
86	0.00	0.50	0.00	0.00	0.00
87	0.00	0.70	0.00	0.00	0.00

Table E-3-P

Proposed Conditions
Grid Element Area and Width Reduction Factors

Grid Element Number	Area Reduction Factor	Width Reduction Factor			
		North	East	Northeast	Southeast
88	0.00	0.50	0.00	0.00	0.00
115	0.10	0.80	0.00	0.70	0.00
116	0.05	0.05	0.00	0.00	0.00
117	0.30	1.00	0.00	0.85	0.00
118	0.25	0.45	0.45	1.00	0.00
119	0.20	0.30	0.00	0.00	0.00
122	0.35	0.90	0.00	0.80	1.00
123	0.15	0.45	0.50	1.00	0.00
124	0.30	0.55	0.50	0.30	0.00
125	0.40	1.00	0.50	1.00	0.00
126	0.10	0.10	0.40	0.90	0.00
127	0.15	0.55	0.00	0.00	0.00
130	0.00	0.00	0.90	1.00	0.00
131	0.03	0.10	0.00	0.20	0.00
132	0.05	0.20	0.00	0.00	0.00
133	0.00	0.00	1.00	1.00	1.00
138	0.08	0.60	0.50	1.00	0.00
139	0.60	1.00	0.60	1.00	0.00
140	0.12	0.25	0.00	0.00	0.00
144	0.08	0.15	0.80	1.00	0.00
145	0.25	1.00	0.00	0.25	0.00
146	0.40	0.95	0.20	1.00	0.00
147	0.01	0.00	0.00	0.00	0.00
160	0.45	0.00	1.00	0.10	1.00
161	0.20	0.00	1.00	1.00	0.00
162	0.50	0.00	0.00	0.00	0.80
163	0.30	0.00	1.00	0.20	1.00
164	0.40	0.00	0.00	0.00	0.00
167	0.50	0.00	1.00	1.00	1.00
168	0.25	0.00	0.55	0.00	1.00
169	0.30	0.00	0.90	0.00	0.25
170	0.30	1.00	1.00	1.00	1.00
171	0.10	0.00	0.50	0.00	0.80
172	0.30	0.00	0.00	0.00	0.00
174	0.01	0.00	0.00	0.00	0.00
175	0.25	0.90	1.00	1.00	1.00
176	0.20	0.00	1.00	0.80	0.90
178	0.30	1.00	1.00	1.00	1.00
180	0.25	0.30	0.45	1.00	0.00
182	0.28	0.00	0.50	1.00	0.00
183	0.08	0.60	0.45	0.00	1.00
184	0.32	1.00	1.00	1.00	1.00
185	0.07	1.00	0.00	0.00	0.00
189	0.12	0.30	1.00	1.00	1.00
190	0.25	0.00	0.00	0.00	0.30
191	0.45	0.00	0.20	0.00	1.00
192	0.01	0.00	0.00	0.00	0.00

Table E-3-P

Proposed Conditions
Grid Element Area and Width Reduction Factors

Grid Element Number	Area Reduction Factor	Width Reduction Factor			
		North	East	Northeast	Southeast
196	0.10	0.00	0.60	0.60	0.00
197	0.55	1.00	0.70	0.80	0.00
206	0.00	0.00	0.50	0.00	1.00
207	0.00	0.00	0.50	0.00	1.00
208	0.25	0.00	0.00	0.00	0.00
209	0.05	0.10	0.00	0.00	0.00
212	0.00	0.50	1.00	1.00	1.00
213	0.00	1.00	0.00	1.00	0.00
214	0.10	1.00	1.00	1.00	1.00
215	0.45	0.75	0.20	0.85	0.00
216	0.08	0.00	0.00	0.00	0.00
217	0.40	1.00	0.20	0.20	0.50
221	0.07	0.00	0.10	0.00	0.80
222	0.50	0.00	0.50	0.00	1.00
223	0.18	0.00	1.00	1.00	1.00
225	0.25	0.45	0.80	1.00	1.00
226	0.25	0.00	0.00	0.00	0.80
227	0.00	0.00	1.00	1.00	1.00
228	0.00	0.00	0.00	0.00	1.00
229	0.15	0.50	1.00	1.00	1.00
230	0.15	1.00	1.00	1.00	1.00
232	0.60	0.40	0.90	1.00	1.00
233	0.70	0.50	0.00	0.00	1.00
234	0.23	0.00	1.00	1.00	1.00
235	0.55	0.90	0.95	1.00	0.10
236	0.40	0.50	0.00	0.00	0.00
241	0.05	0.00	0.00	0.00	0.50
242	0.30	0.50	0.00	0.60	0.50
243	0.10	0.35	0.00	0.00	0.00
250	0.00	1.00	0.00	1.00	0.00
251	0.00	1.00	0.00	1.00	0.00
252	0.00	1.00	0.00	1.00	0.00
253	0.35	0.30	1.00	1.00	1.00
254	0.30	0.10	0.00	0.00	0.00
257	0.45	0.50	1.00	1.00	1.00
258	0.60	1.00	0.00	1.00	1.00
259	0.05	1.00	1.00	1.00	1.00
260	0.30	0.00	0.70	0.00	0.80
261	0.55	0.10	0.00	0.00	0.00
262	0.30	0.00	0.00	0.00	0.40
264	0.02	0.00	0.00	0.00	0.10
265	0.02	0.20	1.00	1.00	1.00
268	0.00	0.00	1.00	1.00	1.00
269	0.05	0.00	0.00	0.00	0.00
270	0.23	1.00	0.60	1.00	0.90
271	0.08	1.00	0.00	1.00	0.00
272	0.00	1.00	1.00	1.00	1.00

Table E-3-P

Proposed Conditions
Grid Element Area and Width Reduction Factors

Grid Element Number	Area Reduction Factor	Width Reduction Factor			
		North	East	Northeast	Southeast
273	0.00	0.60	0.00	1.00	0.00
274	0.30	1.00	1.00	1.00	1.00
275	0.25	0.00	0.00	0.00	0.00
277	0.20	0.50	0.40	0.50	1.00
278	0.20	0.30	0.00	0.00	0.00
280	0.35	0.60	0.60	1.00	0.60
281	0.18	0.05	0.00	0.00	0.00
296	0.10	0.00	0.00	0.00	0.00
297	0.00	0.00	1.00	1.00	1.00
298	0.40	0.20	0.00	0.00	0.00
299	0.15	0.20	0.35	1.00	0.00
302	0.25	0.50	0.50	1.00	1.00
303	0.40	1.00	0.00	0.00	1.00
304	0.00	0.00	1.00	1.00	1.00
306	0.05	0.00	0.00	0.00	0.00
310	0.20	0.00	1.00	1.00	1.00
313	0.35	0.30	0.50	1.00	1.00
315	0.12	0.15	0.90	1.00	1.00
316	0.70	1.00	0.80	1.00	0.00
317	0.13	1.00	0.90	1.00	1.00
318	0.00	0.60	0.00	1.00	1.00
319	0.35	1.00	1.00	1.00	1.00
320	0.35	0.50	0.00	0.00	0.00
322	0.30	0.50	0.70	1.00	1.00
323	0.30	0.30	0.00	0.00	0.00
324	0.10	0.00	0.65	0.00	0.20
325	0.40	0.45	0.75	0.90	1.00
326	0.22	0.30	0.00	0.00	0.00
331	0.10	0.00	0.50	0.50	0.00
334	0.15	0.00	0.00	0.00	0.00
341	0.10	0.00	0.00	0.00	0.00
342	0.00	0.00	1.00	1.00	1.00
343	0.20	0.00	0.00	0.00	0.00
344	0.15	0.40	0.80	0.30	1.00
345	0.30	0.35	0.00	0.00	0.00
347	0.20	1.00	0.90	1.00	1.00
348	0.40	1.00	0.00	1.00	0.00
349	0.00	1.00	1.00	1.00	1.00
355	0.00	0.00	0.90	0.00	1.00
358	0.00	0.00	1.00	1.00	1.00
360	0.20	0.00	0.80	1.00	1.00
361	0.80	1.00	0.90	0.00	0.00
362	0.03	0.00	0.80	1.00	1.00
363	0.00	0.00	0.00	0.00	1.00
364	0.25	0.50	0.90	1.00	1.00
365	0.20	0.25	1.00	0.00	1.00
367	0.37	0.00	0.10	0.15	1.00

Table E-3-P

Proposed Conditions
Grid Element Area and Width Reduction Factors

Grid Element Number	Area Reduction Factor	Width Reduction Factor			
		North	East	Northeast	Southeast
368	0.20	0.00	0.00	0.00	0.00
369	0.10	0.00	0.00	0.00	0.00
370	0.40	0.00	1.00	0.00	1.00
371	0.30	1.00	1.00	1.00	0.00
376	0.20	0.00	0.00	0.30	0.30
385	0.05	0.00	0.10	0.00	0.50
386	0.05	0.00	0.00	0.00	0.00
387	0.00	0.00	1.00	1.00	1.00
389	0.40	0.40	1.00	1.00	1.00
390	0.40	0.40	0.00	0.00	0.00
392	0.40	0.60	0.90	1.00	1.00
393	0.35	0.20	0.00	0.00	1.00
394	0.05	0.35	0.00	0.00	0.00
403	0.05	0.00	1.00	1.00	1.00
404	0.05	0.00	0.00	0.00	0.00
405	0.08	0.50	0.90	1.00	1.00
406	0.70	1.00	0.00	1.00	0.00
407	0.05	1.00	0.90	1.00	1.00
408	0.04	0.60	0.00	1.00	0.00
409	0.40	1.00	0.90	1.00	1.00
410	0.13	0.60	0.00	0.00	0.00
412	0.30	0.30	1.00	1.00	0.85
413	0.30	0.25	0.00	0.00	0.00
421	0.05	0.00	0.00	0.00	0.50
422	0.30	0.00	0.00	0.00	1.00
423	0.30	0.00	0.00	0.00	1.00
424	0.10	0.00	0.00	0.00	0.00
425	0.00	1.00	0.00	1.00	0.00
426	0.00	1.00	0.00	1.00	0.00
427	0.00	1.00	0.00	1.00	0.00
428	0.00	1.00	0.00	1.00	0.00
429	0.00	1.00	0.00	1.00	0.00
430	0.00	1.00	0.00	1.00	0.00
431	0.00	1.00	0.00	1.00	0.00
432	0.00	1.00	0.80	0.00	1.00
434	0.25	0.60	0.10	0.90	0.50
435	0.20	0.30	0.00	0.00	0.00
437	0.35	0.55	0.35	0.75	1.00
438	0.20	1.00	0.00	0.20	0.00
439	0.15	0.20	0.30	0.90	0.00
440	0.10	0.20	0.00	0.00	0.00
448	0.00	0.00	1.00	1.00	1.00
450	0.08	0.00	1.00	0.65	0.65
452	0.10	0.00	1.00	1.00	1.00
453	0.18	0.60	1.00	1.00	1.00
455	0.10	0.80	0.50	1.00	0.00
457	0.45	1.00	0.90	1.00	0.50

Table E-3-P

Proposed Conditions
Grid Element Area and Width Reduction Factors

Grid Element Number	Area Reduction Factor	Width Reduction Factor			
		North	East	Northeast	Southeast
458	0.15	1.00	0.00	1.00	0.00
461	0.35	0.65	0.00	0.00	0.00
462	0.10	1.00	1.00	1.00	1.00
468	0.35	1.00	0.45	1.00	0.00
469	0.40	1.00	0.45	1.00	0.00
470	0.50	1.00	0.50	1.00	0.00
471	0.20	0.20	0.00	0.00	1.00
472	0.20	0.00	0.00	0.00	1.00
473	0.20	0.00	0.00	0.00	1.00
474	0.20	0.00	0.00	0.00	1.00
475	0.20	0.00	0.00	0.00	1.00
476	0.50	0.00	0.00	0.00	1.00
477	0.00	0.00	0.00	0.00	0.00
478	0.00	1.00	0.00	1.00	0.00
479	0.40	1.00	0.90	1.00	1.00
480	0.35	1.00	1.00	1.00	0.00
482	0.25	0.00	0.50	0.00	1.00
483	0.40	0.00	0.00	0.00	0.25
484	0.10	0.00	0.25	0.00	1.00
485	0.25	0.00	0.00	0.00	0.00
493	0.00	0.00	1.00	1.00	1.00
495	0.20	0.30	0.80	1.00	1.00
497	0.00	0.00	0.90	0.90	0.90
498	0.00	0.00	0.00	0.00	1.00
499	0.00	0.00	0.00	0.00	1.00
502	0.25	0.60	0.70	1.00	1.00
503	0.10	0.00	0.00	0.00	0.00
505	0.25	0.20	0.50	1.00	0.75
506	0.30	0.40	0.00	0.00	0.00
511	0.00	0.00	0.00	0.00	0.00
512	0.10	0.50	0.00	0.55	0.00
513	0.90	1.00	1.00	1.00	1.00
516	0.25	0.00	1.00	1.00	1.00
521	0.50	0.00	0.00	0.00	0.00
522	0.50	0.60	0.90	1.00	0.50
523	0.00	0.00	0.00	0.00	1.00
524	0.35	0.50	1.00	1.00	1.00
525	0.35	0.35	0.00	0.00	0.00
528	0.30	0.20	1.00	1.00	0.85
529	0.30	0.15	0.00	0.00	0.00
530	0.35	1.00	0.20	1.00	0.00
531	0.30	1.00	0.10	1.00	0.00
532	0.05	0.00	0.00	0.00	0.00
538	0.00	0.00	1.00	1.00	1.00
540	0.10	0.90	0.50	0.90	1.00
541	0.40	1.00	0.00	0.90	0.00
542	0.00	1.00	0.90	1.00	1.00

Table E-3-P

Proposed Conditions
Grid Element Area and Width Reduction Factors

Grid Element Number	Area Reduction Factor	Width Reduction Factor			
		North	East	Northeast	Southeast
544	0.25	0.85	0.00	0.00	0.00
547	0.75	1.00	1.00	1.00	1.00
548	0.20	0.20	0.00	0.00	0.00
550	0.10	0.00	0.20	0.00	1.00
551	0.15	0.00	0.00	0.00	0.00
557	0.50	0.50	1.00	1.00	1.00
561	0.25	0.00	1.00	1.00	1.00
567	0.70	0.60	1.00	1.00	1.00
568	0.30	1.00	0.00	0.20	0.00
569	0.45	1.00	0.25	0.65	1.00
570	0.25	0.25	0.00	0.00	0.00
572	0.05	0.50	0.00	0.20	0.00
573	0.20	1.00	0.30	0.20	1.00
574	0.15	0.00	0.00	0.00	0.00
577	0.10	0.00	0.00	0.00	0.00
583	0.00	0.00	1.00	1.00	1.00
585	0.00	0.00	0.00	0.00	1.00
586	0.00	1.00	1.00	1.00	1.00
587	0.00	0.00	1.00	1.00	0.90
588	0.03	0.00	0.30	0.00	0.40
590	0.10	0.00	0.00	0.00	0.00
592	0.25	0.00	0.10	0.00	1.00
593	0.07	0.00	0.00	0.30	0.00
594	0.07	0.45	0.00	0.00	0.00
596	0.45	0.60	1.00	0.65	0.20
597	0.10	0.00	0.00	0.00	0.00
602	0.15	0.00	0.00	0.00	0.75
603	0.40	0.00	0.50	0.00	1.00
604	0.50	0.00	0.50	0.00	1.00
605	0.50	0.00	0.50	0.00	1.00
606	0.20	1.00	1.00	1.00	1.00
612	0.70	0.60	1.00	0.80	1.00
613	0.25	1.00	1.00	1.00	0.00
614	0.45	0.00	0.55	0.00	1.00
615	0.20	0.00	0.00	0.00	0.00
617	0.30	0.00	0.80	0.00	1.00
626	0.00	1.00	0.00	1.00	0.00
627	0.00	1.00	0.00	1.00	0.00
628	0.00	1.00	1.00	1.00	1.00
630	0.05	0.50	1.00	1.00	0.00
632	0.00	1.00	1.00	1.00	1.00
633	0.12	0.10	0.65	1.00	0.00
634	0.65	1.00	0.65	1.00	0.00
635	0.15	0.20	0.00	0.00	0.00
637	0.30	0.45	0.85	1.00	0.00
638	0.38	0.60	0.00	0.00	0.00
639	0.20	0.00	0.00	0.00	0.00

Table E-3-P

Proposed Conditions
Grid Element Area and Width Reduction Factors

Grid Element Number	Area Reduction Factor	Width Reduction Factor			
		North	East	Northeast	Southeast
640	0.05	0.00	0.10	0.75	0.00
641	0.72	1.00	1.00	1.00	1.00
642	0.10	0.00	0.00	0.00	0.00
657	0.70	0.60	0.10	1.00	1.00
658	0.00	1.00	0.00	1.00	0.00
659	0.00	1.00	0.00	1.00	0.00
660	0.00	1.00	0.00	0.00	0.00
664	0.00	0.20	0.00	1.00	0.00
665	0.00	1.00	0.00	1.00	1.00
666	0.00	1.00	0.00	0.50	1.00
675	0.40	0.00	0.50	0.00	1.00
677	0.10	1.00	0.00	0.00	0.00
676	0.50	0.00	0.50	0.00	1.00
678	0.05	0.00	0.10	0.00	1.00
679	0.20	0.00	0.10	0.00	1.00
680	0.70	0.00	0.00	0.00	0.00
685	0.05	0.00	0.25	0.00	0.85
686	0.30	0.00	0.15	0.00	1.00
687	0.03	0.00	0.00	0.00	0.00
691	0.30	0.00	0.00	0.00	0.00
702	0.50	0.00	1.00	1.00	0.80
703	0.45	0.00	0.50	0.00	1.00
704	0.30	0.75	0.75	1.00	1.00
705	0.35	0.75	0.00	0.00	0.00
707	0.40	0.60	1.00	1.00	0.10
708	0.20	0.20	0.20	0.00	0.00
709	0.00	0.00	1.00	1.00	0.00
710	0.10	0.40	0.15	1.00	1.00
711	0.25	1.00	0.50	0.00	1.00
712	0.00	0.00	0.60	1.00	0.00
713	0.20	0.75	0.50	1.00	0.00
714	0.28	0.50	0.50	0.85	0.00
715	0.30	1.00	0.25	1.00	0.00
716	0.03	0.00	0.00	0.00	0.00
717	0.05	0.25	0.00	0.00	0.00
721	0.00	1.00	0.20	1.00	0.00
722	0.60	0.90	1.00	1.00	1.00
736	0.30	0.00	0.00	0.00	0.00
746	0.60	0.00	0.00	0.00	0.00
747	0.00	0.00	1.00	1.00	1.00
748	0.00	1.00	0.00	1.00	0.00
752	0.10	0.00	0.00	0.00	0.90
753	0.22	0.65	0.25	1.00	0.00
754	0.10	0.50	1.00	1.00	1.00
755	0.30	0.00	0.90	0.10	1.00
756	0.75	0.00	0.00	0.00	0.85
757	0.03	0.25	1.00	1.00	1.00

Table E-3-P

Proposed Conditions
Grid Element Area and Width Reduction Factors

Grid Element Number	Area Reduction Factor	Width Reduction Factor			
		North	East	Northeast	Southeast
761	0.04	0.00	0.00	0.00	0.00
762	0.05	1.00	0.00	0.50	0.00
763	0.05	0.20	0.00	0.00	0.00
765	0.00	0.50	0.00	1.00	0.00
766	0.60	0.00	0.50	0.00	1.00
767	0.70	0.00	1.00	1.00	1.00
781	0.60	1.00	0.00	1.00	0.00
782	0.20	0.50	0.00	1.00	0.00
783	0.20	0.50	0.00	1.00	0.00
784	0.20	0.50	0.00	1.00	0.00
785	0.20	0.50	0.00	1.00	0.00
786	0.20	0.70	0.00	1.00	0.00
787	0.20	0.70	0.00	1.00	0.00
788	0.20	0.70	0.00	1.00	0.00
789	0.20	0.70	0.00	1.00	0.00
790	0.20	0.70	0.00	1.00	0.00
791	0.20	1.00	0.00	1.00	0.00
792	0.60	1.00	1.00	1.00	1.00
793	0.00	0.00	0.00	0.00	1.00
798	0.30	0.00	0.60	0.00	1.00
799	0.28	0.00	0.40	0.00	1.00
802	0.05	0.00	1.00	1.00	1.00
803	0.00	0.00	0.00	0.00	1.00
804	0.02	0.00	0.00	0.00	1.00
805	0.02	0.00	0.00	0.00	0.50
806	0.00	0.00	0.50	1.00	0.00
807	0.33	0.75	0.75	1.00	1.00
808	0.20	0.65	0.00	0.00	0.00
810	0.10	0.50	0.00	1.00	0.00
811	0.20	0.70	0.50	1.00	0.00
812	0.10	0.50	1.00	1.00	1.00
826	0.00	0.00	0.00	0.00	1.00
827	0.05	0.00	0.60	0.00	1.00
828	0.50	0.00	0.00	0.00	1.00
829	0.00	0.00	0.00	0.00	1.00
830	0.00	0.00	0.00	0.00	1.00
831	0.00	0.00	0.00	0.00	1.00
832	0.00	0.00	0.00	0.00	1.00
833	0.00	0.00	0.00	0.00	1.00
834	0.00	0.00	0.00	0.00	1.00
835	0.00	0.00	0.00	0.00	1.00
836	0.00	0.00	0.00	0.00	1.00
837	0.00	0.00	1.00	1.00	1.00
838	0.00	1.00	0.00	1.00	0.00
839	0.30	1.00	0.20	1.00	1.00
840	0.20	1.00	0.00	0.00	0.00
842	0.20	0.00	1.00	0.85	0.40

Table E-3-P

Proposed Conditions
Grid Element Area and Width Reduction Factors

Grid Element Number	Area Reduction Factor	Width Reduction Factor			
		North	East	Northeast	Southeast
847	0.25	0.00	1.00	1.00	1.00
848	0.03	0.00	0.00	0.00	0.00
851	0.00	0.00	1.00	1.00	1.00
852	0.32	0.75	0.40	0.90	1.00
853	0.35	0.65	0.00	0.00	0.00
855	0.60	0.60	1.00	1.00	1.00
856	0.80	0.90	1.00	0.90	0.00
857	0.60	0.60	1.00	1.00	1.00
882	0.00	0.00	1.00	1.00	1.00
883	0.15	1.00	0.00	1.00	1.00
885	0.15	1.00	0.00	0.00	0.00
887	0.10	0.00	0.15	0.00	0.90
888	0.20	0.00	0.00	0.00	0.00
889	0.13	0.00	0.00	0.00	0.00
892	0.00	0.00	0.00	1.00	1.00
893	0.00	1.00	0.50	1.00	0.00
894	0.00	1.00	0.50	1.00	0.00
895	0.00	1.00	0.50	1.00	0.00
896	0.00	1.00	1.00	1.00	1.00
897	0.55	0.00	1.00	0.20	1.00
898	0.27	0.00	0.00	0.00	0.00
900	0.20	1.00	0.50	1.00	1.00
901	0.30	1.00	0.20	1.00	0.90
902	0.20	1.00	1.00	1.00	1.00
905	0.10	0.35	0.20	1.00	0.00
906	0.03	0.00	0.00	0.00	0.00
913	0.20	0.40	0.50	1.00	0.00
927	0.00	0.00	1.00	1.00	1.00
928	0.50	1.00	1.00	1.00	1.00
930	0.30	0.50	0.00	0.00	0.00
934	0.00	0.00	0.00	1.00	0.00
935	0.00	1.00	0.00	1.00	0.00
936	0.00	0.50	0.00	0.00	0.00
937	0.00	0.00	1.00	1.00	1.00
938	0.40	0.50	0.90	1.00	1.00
939	0.55	0.80	0.00	0.00	1.00
940	0.75	1.00	0.00	0.90	1.00
941	0.35	0.70	0.65	1.00	1.00
942	0.37	0.50	0.50	0.85	0.00
943	0.40	0.90	0.00	0.00	0.00
945	0.20	0.70	0.50	1.00	1.00
946	0.30	0.90	0.50	1.00	1.00
947	0.40	0.90	1.00	1.00	1.00
958	0.23	0.00	0.60	0.00	1.00
972	0.00	0.00	1.00	1.00	1.00
973	0.00	1.00	0.00	1.00	0.00
974	0.00	1.00	0.00	1.00	0.00

Table E-3-P

Proposed Conditions
Grid Element Area and Width Reduction Factors

Grid Element Number	Area Reduction Factor	Width Reduction Factor			
		North	East	Northeast	Southeast
975	0.05	0.60	0.00	0.00	0.00
977	0.04	0.00	0.75	0.15	0.00
979	0.20	0.40	1.00	1.00	0.00
983	0.32	0.00	0.10	0.00	1.00
984	0.40	0.00	0.65	0.00	0.40
985	0.50	0.00	0.30	0.00	1.00
986	0.25	0.00	0.70	0.00	1.00
987	0.45	0.00	0.70	0.00	1.00
988	0.30	0.00	0.00	0.00	0.00
990	0.40	0.00	0.90	0.00	1.00
991	0.80	0.00	0.90	0.00	1.00
992	0.80	0.00	1.00	1.00	1.00
1007	0.05	0.00	0.00	0.80	0.00
1008	0.10	0.10	0.00	0.00	0.00
1017	0.00	0.00	1.00	1.00	1.00
1018	0.00	1.00	0.00	1.00	1.00
1023	0.40	1.00	0.00	0.20	0.40
1024	0.03	0.00	1.00	1.00	1.00
1025	0.38	0.00	0.50	0.00	1.00
1026	0.35	0.00	0.00	0.00	0.00
1035	0.10	0.00	0.00	0.00	0.90
1036	0.20	0.00	0.00	0.00	0.00
1037	0.10	0.00	1.00	1.00	1.00
1042	0.15	0.00	0.80	0.10	0.00
1043	0.75	0.00	0.90	0.30	0.00
1044	0.10	0.00	0.00	0.00	0.00
1048	0.08	0.50	0.00	0.80	0.00
1051	0.00	1.00	0.00	1.00	0.00
1052	0.30	1.00	0.00	1.00	0.00
1053	0.30	1.00	0.00	1.00	0.00
1054	0.00	1.00	0.00	1.00	0.00
1055	0.00	1.00	0.00	1.00	0.00
1056	0.00	1.00	0.00	1.00	0.00
1057	0.00	1.00	0.00	1.00	0.00
1058	0.00	1.00	0.00	1.00	0.00
1059	0.00	1.00	0.00	1.00	0.00
1060	0.00	1.00	0.00	1.00	0.00
1061	0.00	1.00	0.00	1.00	0.00
1062	0.00	1.00	1.00	1.00	1.00
1063	0.00	1.00	0.00	1.00	1.00
1067	0.20	0.00	0.85	0.30	0.00
1069	0.00	0.00	1.00	1.00	1.00
1070	0.10	0.15	0.50	1.00	0.00
1071	0.25	0.60	0.00	0.00	0.00
1074	0.25	0.25	0.75	1.00	0.00
1075	0.27	0.95	0.00	0.10	0.00
1076	0.35	0.85	0.70	1.00	0.00

Table E-3-P

Proposed Conditions
Grid Element Area and Width Reduction Factors

Grid Element	Area Reduction	Width Reduction Factor			
Number	Factor	North	East	Northeast	Southeast
1077	0.18	0.35	0.00	0.00	0.00
1078	0.35	0.75	0.60	1.00	0.00
1079	0.27	0.35	0.00	0.00	0.00
1080	0.60	0.90	0.60	1.00	0.00
1081	0.70	0.90	0.60	1.00	0.00
1082	0.60	0.90	1.00	1.00	1.00
1083	0.20	0.45	0.50	1.00	0.00
1084	0.50	1.00	0.50	1.00	0.00
1085	0.50	1.00	0.50	1.00	0.00
1086	0.05	0.05	0.00	0.00	0.00
1089	0.50	1.00	0.50	1.00	0.00
1090	0.50	1.00	0.50	1.00	0.00
1093	0.45	0.05	1.00	0.90	1.00
1096	0.10	0.50	0.00	1.00	1.00
1097	0.10	1.00	0.00	1.00	1.00
1098	0.00	1.00	0.00	1.00	1.00
1099	0.00	0.50	0.00	0.00	1.00
1100	0.00	0.00	0.00	0.00	1.00
1101	0.00	0.00	1.00	1.00	1.00
1102	0.00	0.00	0.00	0.00	1.00
1103	0.00	0.00	0.00	0.00	1.00
1104	0.00	0.00	0.00	0.00	1.00
1105	0.00	0.00	0.00	0.00	1.00
1106	0.00	0.00	1.00	1.00	1.00
1107	0.00	0.00	1.00	1.00	1.00
1108	0.00	0.00	0.00	0.00	1.00
1109	0.25	0.00	0.50	0.00	1.00
1110	0.25	0.00	1.00	1.00	1.00
1112	0.12	0.00	0.60	0.00	0.75
1114	0.00	1.00	1.00	1.00	1.00
1115	0.45	0.00	1.00	0.75	1.00
1116	0.55	0.00	0.00	0.00	0.00
1118	0.12	0.50	0.25	1.00	0.00
1119	0.15	0.00	0.90	0.10	1.00
1120	0.50	0.00	0.00	0.00	0.00
1121	0.40	0.00	0.80	0.00	1.00
1122	0.25	0.00	0.00	0.00	0.00
1123	0.38	0.00	0.60	0.00	1.00
1124	0.25	0.00	0.00	0.00	0.00
1125	0.40	1.00	0.50	1.00	1.00
1126	0.30	1.00	0.50	1.00	1.00
1127	0.30	1.00	1.00	1.00	1.00
1128	0.40	0.45	1.00	1.00	1.00
1131	0.10	0.00	0.00	0.00	0.00
1141	0.30	0.50	1.00	1.00	1.00
1144	0.40	0.50	0.00	0.00	0.00
1146	0.00	0.00	1.00	1.00	1.00

Table E-3-P

Proposed Conditions
Grid Element Area and Width Reduction Factors

Grid Element Number	Area Reduction Factor	Width Reduction Factor			
		North	East	Northeast	Southeast
1147	0.10	0.45	0.00	0.85	0.00
1148	0.15	0.50	0.00	0.00	0.00
1150	0.25	0.50	0.00	1.00	0.00
1151	0.30	0.60	1.00	1.00	0.00
1154	0.25	0.40	0.60	1.00	0.00
1155	0.55	1.00	0.00	0.45	0.00
1157	0.05	0.00	0.00	0.10	1.00
1158	0.30	0.00	0.00	0.00	0.20
1159	0.05	0.00	0.20	0.00	0.00
1160	0.15	0.85	0.75	1.00	1.00
1161	0.27	0.85	0.00	0.00	0.00
1163	0.53	0.95	0.75	1.00	0.20
1164	0.25	0.45	0.50	1.00	0.00
1165	0.40	0.75	0.50	1.00	0.00
1166	0.33	0.85	0.00	0.00	0.00
1167	0.37	0.85	0.50	1.00	0.00
1168	0.45	0.75	0.70	1.00	1.00
1169	0.20	0.00	1.00	1.00	1.00
1170	0.40	0.90	0.50	1.00	1.00
1171	0.30	0.80	0.50	1.00	1.00
1172	0.40	0.80	1.00	1.00	1.00
1173	0.40	0.45	1.00	1.00	1.00
1176	0.10	0.00	0.00	0.00	0.00
1183	0.15	0.25	0.50	1.00	0.00
1186	0.45	0.00	1.00	0.65	1.00
1189	0.40	0.00	0.00	0.00	0.00
1191	0.00	0.00	1.00	0.50	1.00
1192	0.15	0.00	0.40	0.00	1.00
1196	0.50	0.00	1.00	0.00	1.00
1204	0.00	1.00	1.00	1.00	1.00
1205	0.60	1.00	1.00	1.00	1.00
1206	0.60	0.50	0.00	0.00	0.00
1215	0.70	0.00	0.50	0.00	1.00
1216	0.60	0.00	0.50	0.00	1.00
1217	0.70	0.00	1.00	0.00	0.90
1218	0.20	0.50	0.50	1.00	1.00
1219	0.50	1.00	0.50	1.00	1.00
1220	0.50	1.00	1.00	1.00	1.00
1317	0.20	0.50	0.80	1.00	0.00
1324	0.40	0.50	1.00	1.00	1.00
1331	0.20	0.00	0.50	0.00	1.00
1332	0.50	0.00	0.50	0.00	0.00
NOTE: WRF values are assumed 1.0 for grid elements that are totally blocked					

Table E-4-E

Summary of existing conditions FLO-2D model results

Grid Element	Grid Base Elevation feet	Channel Invert feet	FLO-2D Calculated Depths Overland feet	FLO-2D Calculated Depths Channel feet	Floodplain Water Surface Grid feet	Floodplain Water Surface Channel feet	Maximum Water Surface feet
1	1369.54	No Channel	0.00	0.00	1369.54	—	1369.54
2	1369.24	No Channel	0.00	0.00	1369.24	—	1369.24
3	1368.30	No Channel	0.00	0.00	1368.30	—	1368.30
4	1368.38	No Channel	0.00	0.00	1368.38	—	1368.38
5	1370.08	No Channel	0.00	0.00	1370.08	—	1370.08
6	1370.97	No Channel	0.00	0.00	1370.97	—	1370.97
7	1383.74	No Channel	0.00	0.00	1383.74	—	1383.74
8	1383.33	No Channel	0.00	0.00	1383.33	—	1383.33
9	1383.07	No Channel	0.00	0.00	1383.07	—	1383.07
10	1383.87	No Channel	0.00	0.00	1383.87	—	1383.87
11	1384.90	No Channel	0.00	0.00	1384.90	—	1384.90
12	1385.25	No Channel	0.00	0.00	1385.25	—	1385.25
13	1386.44	No Channel	0.00	0.00	1386.44	—	1386.44
14	1368.91	No Channel	0.00	0.00	1368.91	—	1368.91
15	1368.92	No Channel	0.00	0.00	1368.92	—	1368.92
16	1370.87	No Channel	0.00	0.00	1370.87	—	1370.87
17	1370.86	No Channel	0.00	0.00	1370.86	—	1370.86
18	1371.92	No Channel	0.00	0.00	1371.92	—	1371.92
19	1372.20	No Channel	0.00	0.00	1372.20	—	1372.20
20	1372.63	No Channel	0.00	0.00	1372.63	—	1372.63
21	1373.36	No Channel	0.00	0.00	1373.36	—	1373.36
22	1373.91	No Channel	0.00	0.00	1373.91	—	1373.91
23	1373.93	No Channel	0.00	0.00	1373.93	—	1373.93
24	1372.67	No Channel	0.00	0.00	1372.67	—	1372.67
25	1373.70	No Channel	0.00	0.00	1373.70	—	1373.70
26	1373.47	No Channel	0.00	0.00	1373.47	—	1373.47
27	1373.40	No Channel	0.00	0.00	1373.40	—	1373.40
28	1373.68	No Channel	0.00	0.00	1373.68	—	1373.68
29	1374.32	No Channel	0.00	0.00	1374.32	—	1374.32
30	1374.41	No Channel	0.00	0.00	1374.41	—	1374.41
31	1374.73	No Channel	0.00	0.00	1374.73	—	1374.73
32	1374.73	No Channel	0.00	0.00	1374.73	—	1374.73
33	1375.09	No Channel	0.03	0.00	1375.12	—	1375.12
34	1375.48	No Channel	0.10	0.00	1375.58	—	1375.58
35	1376.04	No Channel	0.10	0.00	1376.14	—	1376.14
36	1376.11	No Channel	0.29	0.00	1376.40	—	1376.40
37	1376.53	No Channel	0.34	0.00	1376.87	—	1376.87
38	1377.20	No Channel	0.37	0.00	1377.57	—	1377.57
39	1378.41	No Channel	0.01	0.00	1378.42	—	1378.42
40	1379.61	No Channel	0.00	0.00	1379.61	—	1379.61
41	1378.69	No Channel	0.12	0.00	1378.81	—	1378.81
42	1377.69	No Channel	1.22	0.00	1378.91	—	1378.91
43	1377.88	No Channel	1.08	0.00	1378.96	—	1378.96
44	1378.61	No Channel	0.61	0.00	1379.22	—	1379.22
45	1379.12	No Channel	0.51	0.00	1379.63	—	1379.63
46	1378.52	No Channel	1.24	0.00	1379.76	—	1379.76
47	1379.42	No Channel	0.53	0.00	1379.95	—	1379.95
48	1378.97	No Channel	1.14	0.00	1380.11	—	1380.11
49	1379.27	No Channel	0.94	0.00	1380.21	—	1380.21
50	1379.90	No Channel	0.52	0.00	1380.42	—	1380.42
51	1380.79	No Channel	0.10	0.00	1380.89	—	1380.89
52	1381.35	No Channel	0.00	0.00	1381.35	—	1381.35
53	1381.06	No Channel	0.28	0.00	1381.34	—	1381.34
54	1381.84	No Channel	0.28	0.00	1382.12	—	1382.12
55	1382.63	No Channel	0.34	0.00	1382.97	—	1382.97
56	1383.56	No Channel	0.20	0.00	1383.76	—	1383.76
57	1384.58	No Channel	0.10	0.00	1384.68	—	1384.68
58	1385.46	No Channel	0.00	0.00	1385.46	—	1385.46
59	1368.14	No Channel	0.00	0.00	1368.14	—	1368.14
60	1368.33	No Channel	0.00	0.00	1368.33	—	1368.33
61	1368.51	No Channel	0.00	0.00	1368.51	—	1368.51
62	1368.65	No Channel	0.03	0.00	1368.68	—	1368.68
63	1368.97	No Channel	0.10	0.00	1369.07	—	1369.07
64	1369.56	No Channel	0.16	0.00	1369.72	—	1369.72
65	1370.02	No Channel	0.34	0.00	1370.36	—	1370.36
66	1370.68	No Channel	0.37	0.00	1371.05	—	1371.05
67	1370.81	No Channel	0.45	0.00	1371.26	—	1371.26
68	1371.14	No Channel	0.34	0.00	1371.48	—	1371.48
69	1371.30	No Channel	0.52	0.00	1371.82	—	1371.82

Table E-4-E

Summary of existing conditions FLO-2D model results

Grid Element	Grid Base Elevation feet	Channel Invert feet	FLO-2D Calculated Depths Overland feet	FLO-2D Calculated Depths Channel feet	Floodplain Water Surface Grid feet	Floodplain Water Surface Channel feet	Maximum Water Surface feet
70	1371.36	No Channel	0.85	0.00	1372.21	—	1372.21
71	1371.73	No Channel	0.82	0.00	1372.55	—	1372.55
72	1372.00	No Channel	0.84	0.00	1372.84	—	1372.84
73	1372.17	No Channel	0.89	0.00	1373.06	—	1373.06
74	1372.53	No Channel	0.88	0.00	1373.41	—	1373.41
75	1372.94	No Channel	0.84	0.00	1373.78	—	1373.78
76	1373.30	No Channel	0.83	0.00	1374.13	—	1374.13
77	1373.39	No Channel	1.03	0.00	1374.42	—	1374.42
78	1373.65	No Channel	1.03	0.00	1374.68	—	1374.68
79	1373.93	No Channel	0.97	0.00	1374.90	—	1374.90
80	1374.54	No Channel	0.81	0.00	1375.35	—	1375.35
81	1375.19	No Channel	0.77	0.00	1375.96	—	1375.96
82	1375.87	No Channel	0.75	0.00	1376.62	—	1376.62
83	1376.73	No Channel	0.70	0.00	1377.43	—	1377.43
84	1377.28	No Channel	0.81	0.00	1378.09	—	1378.09
85	1377.53	No Channel	1.00	0.00	1378.53	—	1378.53
86	1377.60	No Channel	1.16	0.00	1378.76	—	1378.76
87	1377.77	No Channel	1.10	0.00	1378.87	—	1378.87
88	1378.08	No Channel	0.88	0.00	1378.96	—	1378.96
89	1378.42	No Channel	0.84	0.00	1379.26	—	1379.26
90	1378.49	No Channel	1.11	0.00	1379.60	—	1379.60
91	1378.75	No Channel	1.01	0.00	1379.76	—	1379.76
92	1378.91	No Channel	1.03	0.00	1379.94	—	1379.94
93	1379.16	No Channel	0.95	0.00	1380.11	—	1380.11
94	1379.30	No Channel	0.92	0.00	1380.22	—	1380.22
95	1379.63	No Channel	0.88	0.00	1380.51	—	1380.51
96	1379.96	No Channel	0.86	0.00	1380.82	—	1380.82
97	1380.36	No Channel	0.73	0.00	1381.09	—	1381.09
98	1380.93	No Channel	0.34	0.00	1381.27	—	1381.27
99	1381.70	No Channel	0.34	0.00	1382.04	—	1382.04
100	1383.32	No Channel	0.23	0.00	1383.55	—	1383.55
101	1384.08	No Channel	0.36	0.00	1384.44	—	1384.44
102	1385.11	No Channel	0.17	0.00	1385.28	—	1385.28
103	1386.27	No Channel	0.00	0.00	1386.27	—	1386.27
104	1367.36	No Channel	0.00	0.00	1367.36	—	1367.36
105	1367.34	No Channel	0.10	0.00	1367.44	—	1367.44
106	1368.06	No Channel	0.08	0.00	1368.14	—	1368.14
107	1367.52	No Channel	0.75	0.00	1368.27	—	1368.27
108	1367.75	No Channel	0.54	0.00	1368.29	—	1368.29
109	1368.60	No Channel	0.35	0.00	1368.95	—	1368.95
110	1370.35	No Channel	0.14	0.00	1370.49	—	1370.49
111	1371.40	No Channel	0.00	0.00	1371.40	—	1371.40
112	1371.63	No Channel	0.00	0.00	1371.63	—	1371.63
113	1370.75	No Channel	0.52	0.00	1371.27	—	1371.27
114	1370.97	No Channel	0.65	0.00	1371.62	—	1371.62
115	1371.90	No Channel	0.24	0.00	1372.14	—	1372.14
116	1372.13	No Channel	0.35	0.00	1372.48	—	1372.48
117	1372.46	No Channel	0.21	0.00	1372.67	—	1372.67
118	1372.97	No Channel	0.16	0.00	1373.13	—	1373.13
119	1373.29	No Channel	0.20	0.00	1373.49	—	1373.49
120	1373.38	No Channel	0.25	0.00	1373.63	—	1373.63
121	1373.50	No Channel	0.23	0.00	1373.73	—	1373.73
122	1374.18	No Channel	0.20	0.00	1374.38	—	1374.38
123	1374.13	No Channel	0.55	0.00	1374.68	—	1374.68
124	1374.45	No Channel	0.49	0.00	1374.94	—	1374.94
125	1374.98	No Channel	0.40	0.00	1375.38	—	1375.38
126	1375.54	No Channel	0.47	0.00	1376.01	—	1376.01
127	1376.49	No Channel	0.24	0.00	1376.73	—	1376.73
128	1378.51	No Channel	0.00	0.00	1378.51	—	1378.51
129	1379.07	No Channel	0.00	0.00	1379.07	—	1379.07
130	1377.59	No Channel	0.65	0.00	1378.24	—	1378.24
131	1377.42	No Channel	1.24	0.00	1378.66	—	1378.66
132	1377.80	No Channel	1.02	0.00	1378.82	—	1378.82
133	1377.86	No Channel	0.99	0.00	1378.85	—	1378.85
134	1379.30	No Channel	0.50	0.00	1379.80	—	1379.80
135	1379.90	No Channel	0.03	0.00	1379.93	—	1379.93
136	1380.09	No Channel	0.10	0.00	1380.19	—	1380.19
137	1380.09	No Channel	0.20	0.00	1380.29	—	1380.29
138	1380.32	No Channel	0.11	0.00	1380.43	—	1380.43

Table E-4-E

Summary of existing conditions FLO-2D model results

Grid Element	Grid Base Elevation feet	Channel Invert feet	FLO-2D Calculated Depths		Floodplain Water Surface		Maximum Water Surface feet
			Overland feet	Channel feet	Grid feet	Channel feet	
139	1380.91	No Channel	0.02	0.00	1380.93	---	1380.93
140	1380.70	No Channel	0.34	0.00	1381.04	---	1381.04
141	1380.96	No Channel	0.79	0.00	1381.75	---	1381.75
142	1382.25	No Channel	0.00	0.00	1382.25	---	1382.25
143	1382.74	No Channel	0.00	0.00	1382.74	---	1382.74
144	1383.85	No Channel	0.00	0.00	1383.85	---	1383.85
145	1384.45	No Channel	0.10	0.00	1384.55	---	1384.55
146	1385.00	No Channel	0.20	0.00	1385.20	---	1385.20
147	1385.57	No Channel	0.35	0.00	1385.92	---	1385.92
148	1386.86	No Channel	0.00	0.00	1386.86	---	1386.86
149	1366.79	No Channel	0.33	0.00	1367.12	---	1367.12
150	1366.58	No Channel	0.42	0.00	1367.00	---	1367.00
151	1367.70	No Channel	0.19	0.00	1367.89	---	1367.89
152	1369.58	No Channel	0.00	0.00	1369.58	---	1369.58
153	1369.48	No Channel	0.00	0.00	1369.48	---	1369.48
154	1368.61	No Channel	0.17	0.00	1368.78	---	1368.78
155	1370.75	No Channel	0.00	0.00	1370.75	---	1370.75
156	1371.80	No Channel	0.00	0.00	1371.80	---	1371.80
157	1371.31	No Channel	0.00	0.00	1371.31	---	1371.31
158	1370.47	No Channel	0.68	0.00	1371.15	---	1371.15
159	1370.54	No Channel	0.64	0.00	1371.18	---	1371.18
160	1371.47	No Channel	0.20	0.00	1371.67	---	1371.67
161	1371.54	No Channel	0.38	0.00	1371.92	---	1371.92
162	1372.16	No Channel	0.55	0.00	1372.71	---	1372.71
163	1372.79	No Channel	0.20	0.00	1372.99	---	1372.99
164	1373.20	No Channel	0.10	0.00	1373.30	---	1373.30
165	1372.59	No Channel	0.60	0.00	1373.19	---	1373.19
166	1373.15	No Channel	0.24	0.00	1373.39	---	1373.39
167	1374.57	No Channel	0.00	0.00	1374.57	---	1374.57
168	1373.74	No Channel	1.01	0.00	1374.75	---	1374.75
169	1374.42	No Channel	0.43	0.00	1374.85	---	1374.85
170	1375.11	No Channel	0.00	0.00	1375.11	---	1375.11
171	1375.36	No Channel	0.79	0.00	1376.15	---	1376.15
172	1376.64	No Channel	0.10	0.00	1376.74	---	1376.74
173	1376.22	No Channel	0.60	0.00	1376.82	---	1376.82
174	1376.39	No Channel	0.80	0.00	1377.19	---	1377.19
175	1376.33	No Channel	1.06	0.00	1377.39	---	1377.39
176	1377.29	No Channel	1.00	0.00	1378.29	---	1378.29
177	1377.67	No Channel	0.00	0.00	1377.67	---	1377.67
178	1378.10	No Channel	0.74	0.00	1378.84	---	1378.84
179	1378.90	No Channel	1.11	0.00	1380.01	---	1380.01
180	1379.76	No Channel	0.20	0.00	1379.96	---	1379.96
181	1380.27	No Channel	0.00	0.00	1380.27	---	1380.27
182	1380.35	No Channel	0.15	0.00	1380.50	---	1380.50
183	1380.21	No Channel	0.50	0.00	1380.71	---	1380.71
184	1381.12	No Channel	0.00	0.00	1381.12	---	1381.12
185	1381.69	No Channel	0.20	0.00	1381.89	---	1381.89
186	1383.16	No Channel	0.00	0.00	1383.16	---	1383.16
187	1383.62	No Channel	0.00	0.00	1383.62	---	1383.62
188	1383.59	No Channel	0.00	0.00	1383.59	---	1383.59
189	1383.65	No Channel	0.00	0.00	1383.65	---	1383.65
190	1383.98	No Channel	0.11	0.00	1384.09	---	1384.09
191	1386.08	No Channel	0.00	0.00	1386.08	---	1386.08
192	1386.11	No Channel	0.00	0.00	1386.11	---	1386.11
193	1387.82	No Channel	0.00	0.00	1387.82	---	1387.82
194	1366.40	No Channel	0.68	0.00	1367.08	---	1367.08
195	1366.20	No Channel	0.80	0.00	1367.00	---	1367.00
196	1366.79	No Channel	0.22	0.00	1367.01	---	1367.01
197	1368.33	No Channel	0.00	0.00	1368.33	---	1368.33
198	1368.12	No Channel	0.18	0.00	1368.30	---	1368.30
199	1370.40	No Channel	0.00	0.00	1370.40	---	1370.40
200	1371.75	No Channel	0.00	0.00	1371.75	---	1371.75
201	1371.88	No Channel	0.00	0.00	1371.88	---	1371.88
202	1370.87	No Channel	0.12	0.00	1370.99	---	1370.99
203	1370.33	No Channel	0.69	0.00	1371.02	---	1371.02
204	1370.39	No Channel	0.68	0.00	1371.07	---	1371.07
205	1371.27	No Channel	0.32	0.00	1371.59	---	1371.59
206	1371.32	No Channel	0.53	0.00	1371.85	---	1371.85
207	1372.12	No Channel	0.48	0.00	1372.60	---	1372.60

Table E-4-E

Summary of existing conditions FLO-2D model results

Grid Element	Grid Base Elevation feet	Channel Invert feet	FLO-2D Calculated Depths Overland feet	FLO-2D Calculated Depths Channel feet	Floodplain Water Surface Grid feet	Floodplain Water Surface Channel feet	Maximum Water Surface feet
208	1371.97	No Channel	0.90	0.00	1372.87	—	1372.87
209	1372.27	No Channel	0.83	0.00	1373.10	—	1373.10
210	1372.37	No Channel	0.76	0.00	1373.13	—	1373.13
211	1372.88	No Channel	0.36	0.00	1373.24	—	1373.24
212	1373.23	No Channel	0.05	0.00	1373.28	—	1373.28
213	1373.91	No Channel	0.85	0.00	1374.76	—	1374.76
214	1375.16	No Channel	0.00	0.00	1375.16	—	1375.16
215	1376.33	No Channel	0.00	0.00	1376.33	—	1376.33
216	1375.44	No Channel	0.73	0.00	1376.17	—	1376.17
217	1376.07	No Channel	0.28	0.00	1376.35	—	1376.35
218	1375.42	No Channel	1.06	0.00	1376.48	—	1376.48
219	1375.98	No Channel	0.00	0.00	1375.98	—	1375.98
220	1376.21	No Channel	0.00	0.00	1376.21	—	1376.21
221	1376.84	No Channel	1.06	0.00	1377.90	—	1377.90
222	1377.57	No Channel	0.26	0.00	1377.83	—	1377.83
223	1377.49	No Channel	0.31	0.00	1377.80	—	1377.80
224	1379.10	No Channel	0.98	0.00	1380.08	—	1380.08
225	1379.93	No Channel	0.08	0.00	1380.01	—	1380.01
226	1380.61	No Channel	0.00	0.00	1380.61	—	1380.61
227	1380.54	No Channel	0.00	0.00	1380.54	—	1380.54
228	1380.43	No Channel	0.78	0.00	1381.21	—	1381.21
229	1381.29	No Channel	0.00	0.00	1381.29	—	1381.29
230	1381.61	No Channel	0.00	0.00	1381.61	—	1381.61
231	1382.48	No Channel	0.32	0.00	1382.80	—	1382.80
232	1383.95	No Channel	0.00	0.00	1383.95	—	1383.95
233	1384.48	No Channel	0.00	0.00	1384.48	—	1384.48
234	1385.13	No Channel	0.00	0.00	1385.13	—	1385.13
235	1386.16	No Channel	0.00	0.00	1386.16	—	1386.16
236	1386.93	No Channel	0.00	0.00	1386.93	—	1386.93
237	1386.84	No Channel	0.00	0.00	1386.84	—	1386.84
238	1388.41	No Channel	0.00	0.00	1388.41	—	1388.41
239	1366.35	No Channel	0.76	0.00	1367.11	—	1367.11
240	1366.17	No Channel	0.85	0.00	1367.02	—	1367.02
241	1367.42	No Channel	0.03	0.00	1367.45	—	1367.45
242	1368.09	No Channel	0.10	0.00	1368.19	—	1368.19
243	1368.87	No Channel	0.00	0.00	1368.87	—	1368.87
244	1370.16	No Channel	0.00	0.00	1370.16	—	1370.16
245	1370.59	No Channel	0.00	0.00	1370.59	—	1370.59
246	1370.90	No Channel	0.01	0.00	1370.91	—	1370.91
247	1370.34	No Channel	0.46	0.00	1370.80	—	1370.80
248	1369.98	No Channel	0.83	0.00	1370.81	—	1370.81
249	1370.35	No Channel	0.63	0.00	1370.98	—	1370.98
250	1370.83	No Channel	0.53	0.00	1371.36	—	1371.36
251	1371.23	No Channel	0.61	0.00	1371.84	—	1371.84
252	1371.92	No Channel	0.57	0.00	1372.49	—	1372.49
253	1371.47	No Channel	1.36	0.00	1372.83	—	1372.83
254	1371.91	No Channel	1.16	0.00	1373.07	—	1373.07
255	1372.07	No Channel	1.06	0.00	1373.13	—	1373.13
256	1372.73	No Channel	0.50	0.00	1373.23	—	1373.23
257	1373.48	No Channel	0.00	0.00	1373.48	—	1373.48
258	1374.27	No Channel	0.00	0.00	1374.27	—	1374.27
259	1375.60	No Channel	0.00	0.00	1375.60	—	1375.60
260	1376.75	No Channel	0.00	0.00	1376.75	—	1376.75
261	1376.34	No Channel	0.00	0.00	1376.34	—	1376.34
262	1376.55	No Channel	0.00	0.00	1376.55	—	1376.55
263	1375.23	No Channel	1.14	0.00	1376.37	—	1376.37
264	1375.56	No Channel	0.81	0.00	1376.37	—	1376.37
265	1376.04	No Channel	0.32	0.00	1376.36	—	1376.36
266	1376.35	No Channel	1.45	0.00	1377.80	—	1377.80
267	1376.92	No Channel	0.88	0.00	1377.80	—	1377.80
268	1377.17	No Channel	0.63	0.00	1377.80	—	1377.80
269	1379.20	No Channel	0.95	0.00	1380.15	—	1380.15
270	1380.31	No Channel	0.00	0.00	1380.31	—	1380.31
271	1380.36	No Channel	0.00	0.00	1380.36	—	1380.36
272	1380.70	No Channel	0.00	0.00	1380.70	—	1380.70
273	1380.78	No Channel	0.52	0.00	1381.30	—	1381.30
274	1381.08	No Channel	0.13	0.00	1381.21	—	1381.21
275	1382.01	No Channel	1.13	0.00	1383.14	—	1383.14
276	1382.52	No Channel	0.50	0.00	1383.02	—	1383.02

Table E-4-E

Summary of existing conditions FLO-2D model results

Grid Element	Grid Base Elevation feet	Channel Invert feet	FLO-2D Calculated Depths Overland feet	FLO-2D Calculated Depths Channel feet	Floodplain Water Surface Grid feet	Floodplain Water Surface Channel feet	Maximum Water Surface feet
277	1383.83	No Channel	0.04	0.00	1383.87	—	1383.87
278	1384.15	No Channel	0.07	0.00	1384.22	—	1384.22
279	1385.05	No Channel	0.01	0.00	1385.06	—	1385.06
280	1386.02	No Channel	0.00	0.00	1386.02	—	1386.02
281	1386.60	No Channel	0.01	0.00	1386.61	—	1386.61
282	1386.89	No Channel	0.00	0.00	1386.89	—	1386.89
283	1388.72	No Channel	0.00	0.00	1388.72	—	1388.72
284	1366.42	No Channel	0.61	0.00	1367.03	—	1367.03
285	1366.20	No Channel	0.83	0.00	1367.03	—	1367.03
286	1367.85	No Channel	0.01	0.00	1367.86	—	1367.86
287	1369.45	No Channel	0.00	0.00	1369.45	—	1369.45
288	1369.98	No Channel	0.00	0.00	1369.98	—	1369.98
289	1369.89	No Channel	0.02	0.00	1369.91	—	1369.91
290	1369.36	No Channel	0.65	0.00	1370.01	—	1370.01
291	1370.27	No Channel	0.18	0.00	1370.45	—	1370.45
292	1369.85	No Channel	0.61	0.00	1370.46	—	1370.46
293	1369.92	No Channel	0.68	0.00	1370.60	—	1370.60
294	1370.55	No Channel	0.40	0.00	1370.95	—	1370.95
295	1371.06	No Channel	0.31	0.00	1371.37	—	1371.37
296	1371.38	No Channel	0.32	0.00	1371.70	—	1371.70
297	1371.62	No Channel	0.01	0.00	1371.63	—	1371.63
298	1371.75	No Channel	1.27	0.00	1373.02	—	1373.02
299	1372.03	No Channel	1.03	0.00	1373.06	—	1373.06
300	1372.44	No Channel	0.75	0.00	1373.19	—	1373.19
301	1372.52	No Channel	0.74	0.00	1373.26	—	1373.26
302	1374.06	No Channel	0.00	0.00	1374.06	—	1374.06
303	1374.26	No Channel	0.00	0.00	1374.26	—	1374.26
304	1374.06	No Channel	0.00	0.00	1374.06	—	1374.06
305	1374.47	No Channel	1.30	0.00	1375.77	—	1375.77
306	1374.56	No Channel	1.22	0.00	1375.78	—	1375.78
307	1375.89	No Channel	0.32	0.00	1376.21	—	1376.21
308	1375.41	No Channel	0.92	0.00	1376.33	—	1376.33
309	1375.65	No Channel	0.70	0.00	1376.35	—	1376.35
310	1376.00	No Channel	0.37	0.00	1376.37	—	1376.37
311	1376.70	No Channel	1.04	0.00	1377.74	—	1377.74
312	1377.14	No Channel	0.61	0.00	1377.75	—	1377.75
313	1377.73	No Channel	0.25	0.00	1377.98	—	1377.98
314	1379.30	No Channel	0.87	0.00	1380.17	—	1380.17
315	1379.32	No Channel	0.86	0.00	1380.18	—	1380.18
316	1379.50	No Channel	0.91	0.00	1380.41	—	1380.41
317	1379.47	No Channel	0.98	0.00	1380.45	—	1380.45
318	1380.46	No Channel	1.27	0.00	1381.73	—	1381.73
319	1381.58	No Channel	0.04	0.00	1381.62	—	1381.62
320	1381.96	No Channel	1.24	0.00	1383.20	—	1383.20
321	1382.79	No Channel	0.36	0.00	1383.15	—	1383.15
322	1383.71	No Channel	0.03	0.00	1383.74	—	1383.74
323	1384.15	No Channel	0.18	0.00	1384.33	—	1384.33
324	1384.63	No Channel	0.11	0.00	1384.74	—	1384.74
325	1386.01	No Channel	0.10	0.00	1386.11	—	1386.11
326	1386.28	No Channel	0.21	0.00	1386.49	—	1386.49
327	1386.76	No Channel	0.11	0.00	1386.87	—	1386.87
328	1388.44	No Channel	0.00	0.00	1388.44	—	1388.44
329	1366.39	No Channel	0.64	0.00	1367.03	—	1367.03
330	1366.33	No Channel	0.71	0.00	1367.04	—	1367.04
331	1368.23	No Channel	0.00	0.00	1368.23	—	1368.23
332	1369.29	No Channel	0.00	0.00	1369.29	—	1369.29
333	1369.88	No Channel	0.00	0.00	1369.88	—	1369.88
334	1369.60	No Channel	0.35	0.00	1369.95	—	1369.95
335	1369.07	No Channel	0.90	0.00	1369.97	—	1369.97
336	1369.11	No Channel	0.93	0.00	1370.04	—	1370.04
337	1369.34	No Channel	0.82	0.00	1370.16	—	1370.16
338	1369.68	No Channel	0.62	0.00	1370.30	—	1370.30
339	1370.67	No Channel	0.31	0.00	1370.98	—	1370.98
340	1371.04	No Channel	0.31	0.00	1371.35	—	1371.35
341	1371.44	No Channel	0.18	0.00	1371.62	—	1371.62
342	1371.76	No Channel	0.01	0.00	1371.77	—	1371.77
343	1371.65	No Channel	1.36	0.00	1373.01	—	1373.01
344	1372.09	No Channel	0.94	0.00	1373.03	—	1373.03
345	1372.67	No Channel	0.61	0.00	1373.28	—	1373.28

Table E-4-E

Summary of existing conditions FLO-2D model results

Grid Element	Grid Base Elevation feet	Channel Invert feet	FLO-2D Calculated Depths Overland feet	FLO-2D Calculated Depths Channel feet	Floodplain Water Surface Grid feet	Floodplain Water Surface Channel feet	Maximum Water Surface feet
346	1372.50	No Channel	0.83	0.00	1373.33	—	1373.33
347	1374.46	No Channel	0.00	0.00	1374.46	—	1374.46
348	1374.67	No Channel	0.00	0.00	1374.67	—	1374.67
349	1373.95	No Channel	0.00	0.00	1373.95	—	1373.95
350	1374.69	No Channel	1.04	0.00	1375.73	—	1375.73
351	1375.13	No Channel	0.66	0.00	1375.79	—	1375.79
352	1375.69	No Channel	0.41	0.00	1376.10	—	1376.10
353	1375.51	No Channel	0.77	0.00	1376.28	—	1376.28
354	1375.62	No Channel	0.70	0.00	1376.32	—	1376.32
355	1375.92	No Channel	0.48	0.00	1376.40	—	1376.40
356	1376.76	No Channel	0.75	0.00	1377.51	—	1377.51
357	1377.19	No Channel	0.42	0.00	1377.61	—	1377.61
358	1377.38	No Channel	0.26	0.00	1377.64	—	1377.64
359	1379.35	No Channel	0.86	0.00	1380.21	—	1380.21
360	1378.83	No Channel	1.39	0.00	1380.22	—	1380.22
361	1379.21	No Channel	1.23	0.00	1380.44	—	1380.44
362	1379.43	No Channel	1.03	0.00	1380.46	—	1380.46
363	1381.29	No Channel	0.98	0.00	1382.27	—	1382.27
364	1381.68	No Channel	0.68	0.00	1382.36	—	1382.36
365	1381.99	No Channel	1.29	0.00	1383.28	—	1383.28
366	1382.60	No Channel	0.70	0.00	1383.30	—	1383.30
367	1383.01	No Channel	0.55	0.00	1383.56	—	1383.56
368	1383.86	No Channel	0.47	0.00	1384.33	—	1384.33
369	1384.52	No Channel	0.24	0.00	1384.76	—	1384.76
370	1385.97	No Channel	0.32	0.00	1386.29	—	1386.29
371	1386.77	No Channel	0.01	0.00	1386.78	—	1386.78
372	1386.70	No Channel	0.25	0.00	1386.95	—	1386.95
373	1388.39	No Channel	0.00	0.00	1388.39	—	1388.39
374	1366.42	No Channel	0.63	0.00	1367.05	—	1367.05
375	1366.25	No Channel	0.81	0.00	1367.06	—	1367.06
376	1368.07	No Channel	0.21	0.00	1368.28	—	1368.28
377	1369.09	No Channel	0.00	0.00	1369.09	—	1369.09
378	1369.20	No Channel	0.00	0.00	1369.20	—	1369.20
379	1369.14	No Channel	0.76	0.00	1369.90	—	1369.90
380	1368.69	No Channel	1.24	0.00	1369.93	—	1369.93
381	1369.00	No Channel	0.99	0.00	1369.99	—	1369.99
382	1369.16	No Channel	0.92	0.00	1370.08	—	1370.08
383	1369.54	No Channel	0.70	0.00	1370.24	—	1370.24
384	1370.79	No Channel	0.37	0.00	1371.16	—	1371.16
385	1371.03	No Channel	0.39	0.00	1371.42	—	1371.42
386	1371.38	No Channel	0.29	0.00	1371.67	—	1371.67
387	1371.69	No Channel	0.13	0.00	1371.82	—	1371.82
388	1371.81	No Channel	1.17	0.00	1372.98	—	1372.98
389	1372.22	No Channel	0.76	0.00	1372.98	—	1372.98
390	1372.57	No Channel	0.77	0.00	1373.34	—	1373.34
391	1372.49	No Channel	0.93	0.00	1373.42	—	1373.42
392	1373.38	No Channel	0.25	0.00	1373.63	—	1373.63
393	1373.73	No Channel	1.63	0.00	1375.36	—	1375.36
394	1373.91	No Channel	1.49	0.00	1375.40	—	1375.40
395	1374.92	No Channel	0.73	0.00	1375.65	—	1375.65
396	1375.35	No Channel	0.47	0.00	1375.82	—	1375.82
397	1375.66	No Channel	0.39	0.00	1376.05	—	1376.05
398	1375.66	No Channel	0.51	0.00	1376.17	—	1376.17
399	1375.81	No Channel	0.50	0.00	1376.31	—	1376.31
400	1376.11	No Channel	0.48	0.00	1376.59	—	1376.59
401	1376.91	No Channel	0.33	0.00	1377.24	—	1377.24
402	1377.21	No Channel	0.28	0.00	1377.49	—	1377.49
403	1377.43	No Channel	0.12	0.00	1377.55	—	1377.55
404	1379.20	No Channel	1.03	0.00	1380.23	—	1380.23
405	1378.77	No Channel	1.46	0.00	1380.23	—	1380.23
406	1379.47	No Channel	0.97	0.00	1380.44	—	1380.44
407	1379.60	No Channel	0.85	0.00	1380.45	—	1380.45
408	1381.73	No Channel	0.66	0.00	1382.39	—	1382.39
409	1381.83	No Channel	0.51	0.00	1382.34	—	1382.34
410	1382.08	No Channel	1.24	0.00	1383.32	—	1383.32
411	1382.80	No Channel	0.57	0.00	1383.37	—	1383.37
412	1383.41	No Channel	0.15	0.00	1383.56	—	1383.56
413	1383.85	No Channel	0.62	0.00	1384.47	—	1384.47
414	1385.76	No Channel	0.10	0.00	1385.86	—	1385.86

Table E-4-E

Summary of existing conditions FLO-2D model results

Grid Element	Grid Base Elevation feet	Channel Invert feet	FLO-2D Calculated Depths Overland feet	FLO-2D Calculated Depths Channel feet	Floodplain Water Surface Grid feet	Floodplain Water Surface Channel feet	Maximum Water Surface feet
415	1386.64	No Channel	0.20	0.00	1386.84	—	1386.84
416	1386.63	No Channel	0.33	0.00	1386.96	—	1386.96
417	1386.49	No Channel	0.51	0.00	1387.00	—	1387.00
418	1387.68	No Channel	0.00	0.00	1387.68	—	1387.68
419	1366.46	No Channel	0.58	0.00	1367.04	—	1367.04
420	1366.26	No Channel	0.81	0.00	1367.07	—	1367.07
421	1367.39	No Channel	0.67	0.00	1368.06	—	1368.06
422	1368.09	No Channel	0.88	0.00	1368.97	—	1368.97
423	1368.37	No Channel	1.03	0.00	1369.40	—	1369.40
424	1368.59	No Channel	1.15	0.00	1369.74	—	1369.74
425	1368.64	No Channel	1.23	0.00	1369.87	—	1369.87
426	1369.20	No Channel	0.75	0.00	1369.95	—	1369.95
427	1370.00	No Channel	0.20	0.00	1370.20	—	1370.20
428	1370.56	No Channel	0.28	0.00	1370.84	—	1370.84
429	1370.90	No Channel	0.41	0.00	1371.31	—	1371.31
430	1371.11	No Channel	0.56	0.00	1371.67	—	1371.67
431	1371.45	No Channel	0.36	0.00	1371.81	—	1371.81
432	1371.78	No Channel	0.27	0.00	1372.05	—	1372.05
433	1371.89	No Channel	0.94	0.00	1372.83	—	1372.83
434	1372.07	No Channel	0.93	0.00	1373.00	—	1373.00
435	1372.39	No Channel	0.98	0.00	1373.37	—	1373.37
436	1372.65	No Channel	0.81	0.00	1373.46	—	1373.46
437	1373.55	No Channel	0.49	0.00	1374.04	—	1374.04
438	1374.01	No Channel	1.29	0.00	1375.30	—	1375.30
439	1373.62	No Channel	1.73	0.00	1375.35	—	1375.35
440	1375.10	No Channel	0.55	0.00	1375.65	—	1375.65
441	1375.32	No Channel	0.51	0.00	1375.83	—	1375.83
442	1375.35	No Channel	0.59	0.00	1375.94	—	1375.94
443	1375.74	No Channel	0.38	0.00	1376.12	—	1376.12
444	1376.11	No Channel	0.21	0.00	1376.32	—	1376.32
445	1376.53	No Channel	0.19	0.00	1376.72	—	1376.72
446	1377.18	No Channel	0.10	0.00	1377.28	—	1377.28
447	1377.83	No Channel	0.00	0.00	1377.83	—	1377.83
448	1378.10	No Channel	0.00	0.00	1378.10	—	1378.10
449	1379.30	No Channel	0.95	0.00	1380.25	—	1380.25
450	1379.25	No Channel	1.01	0.00	1380.26	—	1380.26
451	1379.86	No Channel	0.00	0.00	1379.86	—	1379.86
452	1379.94	No Channel	2.90	0.00	1382.84	—	1382.84
453	1382.01	No Channel	1.34	0.00	1383.35	—	1383.35
454	1382.49	No Channel	0.00	0.00	1382.49	—	1382.49
455	1383.00	No Channel	0.42	0.00	1383.42	—	1383.42
456	1383.00	No Channel	0.57	0.00	1383.57	—	1383.57
457	1383.92	No Channel	0.17	0.00	1384.09	—	1384.09
458	1384.42	No Channel	0.54	0.00	1384.96	—	1384.96
459	1384.95	No Channel	0.49	0.00	1385.44	—	1385.44
460	1385.37	No Channel	0.00	0.00	1385.37	—	1385.37
461	1385.63	No Channel	1.41	0.00	1387.04	—	1387.04
462	1385.25	No Channel	1.77	0.00	1387.02	—	1387.02
463	1386.91	No Channel	0.21	0.00	1387.12	—	1387.12
464	1366.38	No Channel	0.64	0.00	1367.02	—	1367.02
465	1366.14	No Channel	0.90	0.00	1367.04	—	1367.04
466	1367.39	No Channel	0.58	0.00	1367.97	—	1367.97
467	1368.40	No Channel	0.51	0.00	1368.91	—	1368.91
468	1368.80	No Channel	0.56	0.00	1369.36	—	1369.36
469	1369.00	No Channel	0.68	0.00	1369.68	—	1369.68
470	1369.30	No Channel	0.55	0.00	1369.85	—	1369.85
471	1370.11	No Channel	0.08	0.00	1370.19	—	1370.19
472	1370.10	No Channel	0.10	0.00	1370.20	—	1370.20
473	1371.40	No Channel	0.01	0.00	1371.41	—	1371.41
474	1371.20	No Channel	0.27	0.00	1371.47	—	1371.47
475	1371.33	No Channel	0.35	0.00	1371.68	—	1371.68
476	1371.10	No Channel	0.81	0.00	1371.91	—	1371.91
477	1369.56	No Channel	2.50	0.00	1372.06	—	1372.06
478	1372.27	No Channel	0.38	0.00	1372.65	—	1372.65
479	1372.52	No Channel	0.26	0.00	1372.78	—	1372.78
480	1373.07	No Channel	0.30	0.00	1373.37	—	1373.37
481	1372.60	No Channel	0.97	0.00	1373.57	—	1373.57
482	1374.03	No Channel	0.20	0.00	1374.23	—	1374.23
483	1374.31	No Channel	0.69	0.00	1375.00	—	1375.00

Table E-4-E

Summary of existing conditions FLO-2D model results

Grid Element	Grid Base Elevation feet	Channel Invert feet	FLO-2D Calculated Depths Overland feet	FLO-2D Calculated Depths Channel feet	Floodplain Water Surface Grid feet	Floodplain Water Surface Channel feet	Maximum Water Surface feet
484	1374.28	No Channel	0.92	0.00	1375.20	—	1375.20
485	1375.34	No Channel	0.30	0.00	1375.64	—	1375.64
486	1375.52	No Channel	0.31	0.00	1375.83	—	1375.83
487	1375.58	No Channel	0.39	0.00	1375.97	—	1375.97
488	1376.02	No Channel	0.27	0.00	1376.29	—	1376.29
489	1376.39	No Channel	0.20	0.00	1376.59	—	1376.59
490	1376.78	No Channel	0.10	0.00	1376.88	—	1376.88
491	1377.71	No Channel	0.00	0.00	1377.71	—	1377.71
492	1378.15	No Channel	0.00	0.00	1378.15	—	1378.15
493	1378.57	No Channel	0.00	0.00	1378.57	—	1378.57
494	1379.64	No Channel	0.64	0.00	1380.28	—	1380.28
495	1379.86	No Channel	0.43	0.00	1380.29	—	1380.29
496	1380.81	No Channel	0.00	0.00	1380.81	—	1380.81
497	1381.02	No Channel	1.83	0.00	1382.85	—	1382.85
498	1381.53	No Channel	2.17	0.00	1383.70	—	1383.70
499	1382.48	No Channel	1.32	0.00	1383.80	—	1383.80
500	1382.66	No Channel	1.21	0.00	1383.87	—	1383.87
501	1383.16	No Channel	0.64	0.00	1383.80	—	1383.80
502	1384.06	No Channel	0.22	0.00	1384.28	—	1384.28
503	1384.29	No Channel	1.18	0.00	1385.47	—	1385.47
504	1384.90	No Channel	0.65	0.00	1385.55	—	1385.55
505	1385.18	No Channel	0.74	0.00	1385.92	—	1385.92
506	1385.66	No Channel	1.39	0.00	1387.05	—	1387.05
507	1384.23	No Channel	2.92	0.00	1387.15	—	1387.15
508	1386.22	No Channel	0.99	0.00	1387.21	—	1387.21
509	1366.41	No Channel	0.55	0.00	1366.96	—	1366.96
510	1366.06	No Channel	0.91	0.00	1366.97	—	1366.97
511	1366.93	No Channel	0.42	0.00	1367.35	—	1367.35
512	1369.52	No Channel	0.00	0.00	1369.52	—	1369.52
513	1369.83	No Channel	0.00	0.00	1369.83	—	1369.83
514	1369.75	No Channel	0.00	0.00	1369.75	—	1369.75
515	1369.72	No Channel	0.00	0.00	1369.72	—	1369.72
516	1369.85	No Channel	0.10	0.00	1369.95	—	1369.95
517	1367.32	No Channel	2.13	0.00	1369.45	—	1369.45
518	1370.06	No Channel	0.15	0.00	1370.21	—	1370.21
519	1370.53	No Channel	0.27	0.00	1370.80	—	1370.80
520	1371.04	No Channel	0.33	0.00	1371.37	—	1371.37
521	1371.21	No Channel	0.43	0.00	1371.64	—	1371.64
522	1371.18	No Channel	0.62	0.00	1371.80	—	1371.80
523	1372.08	No Channel	1.47	0.00	1373.55	—	1373.55
524	1372.65	No Channel	0.91	0.00	1373.56	—	1373.56
525	1373.03	No Channel	0.58	0.00	1373.61	—	1373.61
526	1372.71	No Channel	0.93	0.00	1373.64	—	1373.64
527	1373.58	No Channel	0.43	0.00	1374.01	—	1374.01
528	1374.21	No Channel	0.28	0.00	1374.49	—	1374.49
529	1374.50	No Channel	0.56	0.00	1375.06	—	1375.06
530	1376.43	No Channel	0.00	0.00	1376.43	—	1376.43
531	1376.50	No Channel	0.00	0.00	1376.50	—	1376.50
532	1376.25	No Channel	0.31	0.00	1376.56	—	1376.56
533	1376.28	No Channel	0.35	0.00	1376.63	—	1376.63
534	1376.71	No Channel	0.23	0.00	1376.94	—	1376.94
535	1376.93	No Channel	0.23	0.00	1377.16	—	1377.16
536	1377.30	No Channel	0.10	0.00	1377.40	—	1377.40
537	1378.03	No Channel	0.00	0.00	1378.03	—	1378.03
538	1378.83	No Channel	0.00	0.00	1378.83	—	1378.83
539	1379.55	No Channel	0.74	0.00	1380.29	—	1380.29
540	1380.32	No Channel	0.53	0.00	1380.85	—	1380.85
541	1380.99	No Channel	1.81	0.00	1382.80	—	1382.80
542	1381.32	No Channel	1.52	0.00	1382.84	—	1382.84
543	1381.74	No Channel	1.95	0.00	1383.69	—	1383.69
544	1382.68	No Channel	1.13	0.00	1383.81	—	1383.81
545	1382.58	No Channel	1.34	0.00	1383.92	—	1383.92
546	1382.44	No Channel	1.53	0.00	1383.97	—	1383.97
547	1383.70	No Channel	0.28	0.00	1383.98	—	1383.98
548	1383.66	No Channel	1.74	0.00	1385.40	—	1385.40
549	1384.22	No Channel	1.28	0.00	1385.50	—	1385.50
550	1385.24	No Channel	0.71	0.00	1385.95	—	1385.95
551	1384.50	1381.20	2.56	6.25	1387.06	1387.45	1387.45
552	1384.50	1383.00	2.67	4.91	1387.17	1387.91	1387.91

Table E-4-E

Summary of existing conditions FLO-2D model results

Grid Element	Grid Base Elevation feet	Channel Invert feet	FLO-2D Calculated Depths Overland feet	FLO-2D Calculated Depths Channel feet	Floodplain Water Surface Grid feet	Floodplain Water Surface Channel feet	Maximum Water Surface feet
553	1387.00	1385.10	0.66	2.90	1387.66	1388.00	1388.00
554	1366.29	No Channel	0.59	0.00	1366.88	—	1366.88
555	1366.05	No Channel	0.82	0.00	1366.87	—	1366.87
556	1367.02	No Channel	0.16	0.00	1367.18	—	1367.18
557	1369.55	No Channel	0.00	0.00	1369.55	—	1369.55
558	1369.69	No Channel	0.00	0.00	1369.69	—	1369.69
559	1369.58	No Channel	0.00	0.00	1369.58	—	1369.58
560	1369.53	No Channel	0.00	0.00	1369.53	—	1369.53
561	1369.33	No Channel	0.05	0.00	1369.38	—	1369.38
562	1367.11	No Channel	2.33	0.00	1369.44	—	1369.44
563	1369.92	No Channel	0.20	0.00	1370.12	—	1370.12
564	1370.43	No Channel	0.27	0.00	1370.70	—	1370.70
565	1371.18	No Channel	0.20	0.00	1371.38	—	1371.38
566	1371.48	No Channel	0.15	0.00	1371.63	—	1371.63
567	1371.66	No Channel	0.07	0.00	1371.73	—	1371.73
568	1372.40	No Channel	1.16	0.00	1373.56	—	1373.56
569	1372.61	No Channel	0.99	0.00	1373.60	—	1373.60
570	1372.79	No Channel	0.85	0.00	1373.64	—	1373.64
571	1372.58	No Channel	1.07	0.00	1373.65	—	1373.65
572	1373.75	No Channel	0.21	0.00	1373.96	—	1373.96
573	1374.00	No Channel	0.28	0.00	1374.28	—	1374.28
574	1374.35	No Channel	0.36	0.00	1374.71	—	1374.71
575	1376.57	No Channel	0.00	0.00	1376.57	—	1376.57
576	1376.67	No Channel	0.00	0.00	1376.67	—	1376.67
577	1376.67	No Channel	0.09	0.00	1376.76	—	1376.76
578	1376.37	No Channel	0.44	0.00	1376.81	—	1376.81
579	1376.99	No Channel	0.26	0.00	1377.25	—	1377.25
580	1377.21	No Channel	0.22	0.00	1377.43	—	1377.43
581	1377.64	No Channel	0.10	0.00	1377.74	—	1377.74
582	1377.77	No Channel	0.10	0.00	1377.87	—	1377.87
583	1378.50	No Channel	0.05	0.00	1378.55	—	1378.55
584	1379.60	No Channel	0.66	0.00	1380.26	—	1380.26
585	1379.66	No Channel	0.59	0.00	1380.25	—	1380.25
586	1380.24	No Channel	0.11	0.00	1380.35	—	1380.35
587	1380.96	No Channel	2.05	0.00	1383.01	—	1383.01
588	1381.24	No Channel	2.43	0.00	1383.67	—	1383.67
589	1382.05	No Channel	0.00	0.00	1382.05	—	1382.05
590	1381.44	No Channel	2.56	0.00	1384.00	—	1384.00
591	1380.50	1380.30	3.61	4.04	1384.11	1384.34	1384.34
592	1382.98	1380.48	1.49	4.18	1384.47	1384.66	1384.66
593	1383.00	1380.60	2.13	4.74	1385.13	1385.34	1385.34
594	1383.00	1380.80	2.42	4.93	1385.42	1385.73	1385.73
595	1384.00	1381.00	1.77	4.85	1385.77	1385.85	1385.85
596	1384.69	No Channel	1.76	0.00	1386.45	—	1386.45
597	1384.56	No Channel	2.60	0.00	1387.16	—	1387.16
598	1386.13	No Channel	1.01	0.00	1387.14	—	1387.14
599	1366.05	No Channel	0.75	0.00	1366.80	—	1366.80
600	1366.02	No Channel	0.78	0.00	1366.80	—	1366.80
601	1367.30	No Channel	0.02	0.00	1367.32	—	1367.32
602	1368.80	No Channel	0.00	0.00	1368.80	—	1368.80
603	1369.24	No Channel	0.00	0.00	1369.24	—	1369.24
604	1369.30	No Channel	0.00	0.00	1369.30	—	1369.30
605	1369.36	No Channel	0.00	0.00	1369.36	—	1369.36
606	1369.37	No Channel	0.01	0.00	1369.38	—	1369.38
607	1368.28	No Channel	1.14	0.00	1369.42	—	1369.42
608	1369.86	No Channel	0.20	0.00	1370.06	—	1370.06
609	1370.29	No Channel	0.23	0.00	1370.52	—	1370.52
610	1371.01	No Channel	0.20	0.00	1371.21	—	1371.21
611	1371.32	No Channel	0.23	0.00	1371.55	—	1371.55
612	1371.53	No Channel	0.23	0.00	1371.76	—	1371.76
613	1371.77	No Channel	1.80	0.00	1373.57	—	1373.57
614	1372.77	No Channel	0.78	0.00	1373.55	—	1373.55
615	1372.91	No Channel	0.73	0.00	1373.64	—	1373.64
616	1372.53	No Channel	1.15	0.00	1373.68	—	1373.68
617	1374.19	No Channel	0.00	0.00	1374.19	—	1374.19
618	1374.25	No Channel	0.00	0.00	1374.25	—	1374.25
619	1374.33	No Channel	0.20	0.00	1374.53	—	1374.53
620	1375.68	No Channel	0.11	0.00	1375.79	—	1375.79
621	1375.75	No Channel	0.32	0.00	1376.07	—	1376.07

Table E-4-E

Summary of existing conditions FLO-2D model results

Grid Element	Grid Base Elevation feet	Channel Invert feet	FLO-2D Calculated Depths Overland feet	FLO-2D Calculated Depths Channel feet	Floodplain Water Surface Grid feet	Floodplain Water Surface Channel feet	Maximum Water Surface feet
622	1376.02	No Channel	0.49	0.00	1376.51	—	1376.51
623	1376.40	No Channel	0.43	0.00	1376.83	—	1376.83
624	1376.96	No Channel	0.52	0.00	1377.48	—	1377.48
625	1377.30	No Channel	0.59	0.00	1377.89	—	1377.89
626	1377.87	No Channel	0.10	0.00	1377.97	—	1377.97
627	1378.56	No Channel	0.04	0.00	1378.60	—	1378.60
628	1378.74	No Channel	0.12	0.00	1378.86	—	1378.86
629	1379.55	No Channel	0.67	0.00	1380.22	—	1380.22
630	1380.05	No Channel	0.21	0.00	1380.26	—	1380.26
631	1380.23	No Channel	0.00	0.00	1380.23	—	1380.23
632	1380.86	No Channel	2.15	0.00	1383.01	—	1383.01
633	1381.20	1378.70	2.28	4.88	1383.48	1383.58	1383.58
634	1381.90	1378.70	1.91	5.21	1383.81	1383.91	1383.91
635	1382.00	1379.40	2.09	4.78	1384.09	1384.18	1384.18
636	1381.81	No Channel	2.36	0.00	1384.17	—	1384.17
637	1382.74	No Channel	1.60	0.00	1384.34	—	1384.34
638	1383.18	No Channel	1.89	0.00	1385.07	—	1385.07
639	1383.33	No Channel	1.87	0.00	1385.20	—	1385.20
640	1384.49	No Channel	1.07	0.00	1385.56	—	1385.56
641	1385.26	No Channel	0.53	0.00	1385.79	—	1385.79
642	1385.43	No Channel	1.62	0.00	1387.05	—	1387.05
643	1386.54	No Channel	0.52	0.00	1387.06	—	1387.06
644	1365.90	No Channel	0.85	0.00	1366.75	—	1366.75
645	1365.93	No Channel	0.82	0.00	1366.75	—	1366.75
646	1366.50	No Channel	0.31	0.00	1366.81	—	1366.81
647	1367.20	No Channel	0.21	0.00	1367.41	—	1367.41
648	1367.56	No Channel	0.30	0.00	1367.86	—	1367.86
649	1367.63	No Channel	0.66	0.00	1368.29	—	1368.29
650	1368.34	No Channel	0.53	0.00	1368.87	—	1368.87
651	1368.61	No Channel	0.62	0.00	1369.23	—	1369.23
652	1369.09	No Channel	0.35	0.00	1369.44	—	1369.44
653	1369.64	No Channel	0.27	0.00	1369.91	—	1369.91
654	1370.00	No Channel	0.28	0.00	1370.28	—	1370.28
655	1370.47	No Channel	0.29	0.00	1370.76	—	1370.76
656	1370.87	No Channel	0.46	0.00	1371.33	—	1371.33
657	1371.16	No Channel	0.62	0.00	1371.78	—	1371.78
658	1372.52	No Channel	0.61	0.00	1373.13	—	1373.13
659	1372.16	No Channel	1.38	0.00	1373.54	—	1373.54
660	1372.47	No Channel	1.17	0.00	1373.64	—	1373.64
661	1372.54	No Channel	1.16	0.00	1373.70	—	1373.70
662	1372.57	No Channel	1.26	0.00	1373.83	—	1373.83
663	1373.57	No Channel	0.53	0.00	1374.10	—	1374.10
664	1373.76	No Channel	0.48	0.00	1374.24	—	1374.24
665	1374.52	No Channel	0.29	0.00	1374.81	—	1374.81
666	1375.14	No Channel	0.51	0.00	1375.65	—	1375.65
667	1375.50	No Channel	0.52	0.00	1376.02	—	1376.02
668	1376.48	No Channel	0.30	0.00	1376.78	—	1376.78
669	1377.27	No Channel	0.32	0.00	1377.59	—	1377.59
670	1377.67	No Channel	0.53	0.00	1378.20	—	1378.20
671	1378.02	No Channel	0.57	0.00	1378.59	—	1378.59
672	1378.53	No Channel	0.48	0.00	1379.01	—	1379.01
673	1379.04	No Channel	0.28	0.00	1379.32	—	1379.32
674	1379.55	No Channel	0.57	0.00	1380.12	—	1380.12
675	1380.09	No Channel	0.52	0.00	1380.61	—	1380.61
676	1379.71	No Channel	1.57	0.00	1381.28	—	1381.28
677	1380.50	1378.70	2.33	3.99	1382.83	1382.69	1382.83
678	1381.24	No Channel	2.21	0.00	1383.45	—	1383.45
679	1381.52	No Channel	2.11	0.00	1383.63	—	1383.63
680	1381.71	No Channel	2.24	0.00	1383.95	—	1383.95
681	1381.55	No Channel	2.60	0.00	1384.15	—	1384.15
682	1382.51	No Channel	1.93	0.00	1384.44	—	1384.44
683	1383.13	No Channel	1.83	0.00	1384.96	—	1384.96
684	1383.61	No Channel	1.53	0.00	1385.14	—	1385.14
685	1384.65	No Channel	0.73	0.00	1385.38	—	1385.38
686	1385.31	No Channel	0.65	0.00	1385.96	—	1385.96
687	1386.27	No Channel	0.64	0.00	1386.91	—	1386.91
688	1386.78	No Channel	0.20	0.00	1386.98	—	1386.98
689	1365.83	No Channel	0.88	0.00	1366.71	—	1366.71
690	1365.80	No Channel	0.92	0.00	1366.72	—	1366.72

Table E-4-E

Summary of existing conditions FLO-2D model results

Grid Element	Grid Base Elevation feet	Channel Invert feet	FLO-2D Calculated Depths		Floodplain Water Surface		Maximum Water Surface feet
			Overland feet	Channel feet	Grid feet	Channel feet	
691	1366.16	No Channel	0.59	0.00	1366.75	—	1366.75
692	1366.58	No Channel	0.41	0.00	1366.99	—	1366.99
693	1367.29	No Channel	0.33	0.00	1367.62	—	1367.62
694	1368.15	No Channel	0.19	0.00	1368.34	—	1368.34
695	1368.74	No Channel	0.13	0.00	1368.87	—	1368.87
696	1369.01	No Channel	0.15	0.00	1369.16	—	1369.16
697	1369.40	No Channel	0.19	0.00	1369.59	—	1369.59
698	1369.40	No Channel	0.38	0.00	1369.78	—	1369.78
699	1369.63	No Channel	0.50	0.00	1370.13	—	1370.13
700	1369.87	No Channel	0.58	0.00	1370.45	—	1370.45
701	1370.35	No Channel	0.53	0.00	1370.88	—	1370.88
702	1371.10	No Channel	0.31	0.00	1371.41	—	1371.41
703	1373.28	No Channel	0.00	0.00	1373.28	—	1373.28
704	1373.82	No Channel	0.00	0.00	1373.82	—	1373.82
705	1373.70	No Channel	0.00	0.00	1373.70	—	1373.70
706	1372.54	No Channel	1.19	0.00	1373.73	—	1373.73
707	1373.31	No Channel	0.41	0.00	1373.72	—	1373.72
708	1373.95	No Channel	0.20	0.00	1374.15	—	1374.15
709	1373.76	No Channel	0.41	0.00	1374.17	—	1374.17
710	1375.25	No Channel	0.36	0.00	1375.61	—	1375.61
711	1375.69	No Channel	0.23	0.00	1375.92	—	1375.92
712	1375.69	No Channel	0.33	0.00	1376.02	—	1376.02
713	1377.46	No Channel	0.10	0.00	1377.56	—	1377.56
714	1377.89	No Channel	0.12	0.00	1378.01	—	1378.01
715	1378.44	No Channel	0.20	0.00	1378.64	—	1378.64
716	1378.38	No Channel	0.60	0.00	1378.98	—	1378.98
717	1376.98	No Channel	2.35	0.00	1379.33	—	1379.33
718	1377.94	No Channel	1.56	0.00	1379.50	—	1379.50
719	1376.90	No Channel	2.81	0.00	1379.71	—	1379.71
720	1379.62	No Channel	0.83	0.00	1380.45	—	1380.45
721	1379.50	1377.50	1.62	3.63	1381.12	1381.13	1381.13
722	1381.48	No Channel	0.00	0.00	1381.48	—	1381.48
723	1381.79	No Channel	1.73	0.00	1383.52	—	1383.52
724	1381.69	No Channel	1.90	0.00	1383.59	—	1383.59
725	1382.26	No Channel	1.41	0.00	1383.67	—	1383.67
726	1383.96	No Channel	0.20	0.00	1384.16	—	1384.16
727	1384.28	No Channel	0.21	0.00	1384.49	—	1384.49
728	1384.80	No Channel	0.13	0.00	1384.93	—	1384.93
729	1385.60	No Channel	0.00	0.00	1385.60	—	1385.60
730	1386.31	No Channel	0.00	0.00	1386.31	—	1386.31
731	1386.67	No Channel	0.06	0.00	1386.73	—	1386.73
732	1387.12	No Channel	0.00	0.00	1387.12	—	1387.12
733	1389.37	No Channel	0.00	0.00	1389.37	—	1389.37
734	1365.82	No Channel	0.86	0.00	1366.68	—	1366.68
735	1365.63	No Channel	1.05	0.00	1366.68	—	1366.68
736	1366.28	No Channel	0.43	0.00	1366.71	—	1366.71
737	1366.81	No Channel	0.21	0.00	1367.02	—	1367.02
738	1367.14	No Channel	0.23	0.00	1367.37	—	1367.37
739	1367.74	No Channel	0.20	0.00	1367.94	—	1367.94
740	1368.06	No Channel	0.20	0.00	1368.26	—	1368.26
741	1368.41	No Channel	0.24	0.00	1368.65	—	1368.65
742	1368.82	No Channel	0.38	0.00	1369.20	—	1369.20
743	1369.09	No Channel	0.47	0.00	1369.56	—	1369.56
744	1369.48	No Channel	0.43	0.00	1369.91	—	1369.91
745	1369.77	No Channel	0.42	0.00	1370.19	—	1370.19
746	1370.26	No Channel	0.29	0.00	1370.55	—	1370.55
747	1371.13	No Channel	0.10	0.00	1371.23	—	1371.23
748	1372.63	No Channel	0.00	0.00	1372.63	—	1372.63
749	1373.69	No Channel	0.00	0.00	1373.69	—	1373.69
750	1373.83	No Channel	0.00	0.00	1373.83	—	1373.83
751	1372.59	No Channel	1.10	0.00	1373.69	—	1373.69
752	1372.97	No Channel	0.73	0.00	1373.70	—	1373.70
753	1373.79	No Channel	0.20	0.00	1373.99	—	1373.99
754	1374.36	No Channel	0.14	0.00	1374.50	—	1374.50
755	1375.60	No Channel	0.00	0.00	1375.60	—	1375.60
756	1375.64	No Channel	0.10	0.00	1375.74	—	1375.74
757	1375.67	No Channel	0.20	0.00	1375.87	—	1375.87
758	1377.89	No Channel	0.00	0.00	1377.89	—	1377.89
759	1378.21	No Channel	0.00	0.00	1378.21	—	1378.21

Table E-4-E

Summary of existing conditions FLO-2D model results

Grid Element	Grid Base Elevation feet	Channel Invert feet	FLO-2D Calculated Depths Overland feet	FLO-2D Calculated Depths Channel feet	Floodplain Water Surface Grid feet	Floodplain Water Surface Channel feet	Maximum Water Surface feet
760	1378.07	No Channel	0.00	0.00	1378.07	—	1378.07
761	1377.68	No Channel	1.33	0.00	1379.01	—	1379.01
762	1377.74	1374.74	1.49	4.42	1379.23	1379.16	1379.23
763	1377.00	1375.00	2.56	4.72	1379.56	1379.72	1379.72
764	1375.38	1375.18	4.28	4.81	1379.66	1379.99	1379.99
765	1379.06	1375.96	0.98	4.27	1380.04	1380.23	1380.23
766	1381.48	No Channel	0.00	0.00	1381.48	—	1381.48
767	1381.48	No Channel	0.00	0.00	1381.48	—	1381.48
768	1380.34	No Channel	3.22	0.00	1383.56	—	1383.56
769	1380.55	No Channel	3.03	0.00	1383.58	—	1383.58
770	1380.87	No Channel	2.76	0.00	1383.63	—	1383.63
771	1384.08	No Channel	0.10	0.00	1384.18	—	1384.18
772	1384.65	No Channel	0.02	0.00	1384.67	—	1384.67
773	1385.47	No Channel	0.00	0.00	1385.47	—	1385.47
774	1386.06	No Channel	0.00	0.00	1386.06	—	1386.06
775	1386.76	No Channel	0.00	0.00	1386.76	—	1386.76
776	1387.34	No Channel	0.00	0.00	1387.34	—	1387.34
777	1388.01	No Channel	0.00	0.00	1388.01	—	1388.01
778	1389.44	No Channel	0.00	0.00	1389.44	—	1389.44
779	1365.79	No Channel	0.81	0.00	1366.60	—	1366.60
780	1365.46	No Channel	1.14	0.00	1366.60	—	1366.60
781	1366.08	No Channel	0.54	0.00	1366.62	—	1366.62
782	1366.59	No Channel	0.27	0.00	1366.86	—	1366.86
783	1367.02	No Channel	0.28	0.00	1367.30	—	1367.30
784	1367.56	No Channel	0.26	0.00	1367.82	—	1367.82
785	1367.65	No Channel	0.40	0.00	1368.05	—	1368.05
786	1367.76	No Channel	0.50	0.00	1368.26	—	1368.26
787	1368.27	No Channel	0.45	0.00	1368.72	—	1368.72
788	1368.94	No Channel	0.35	0.00	1369.29	—	1369.29
789	1369.23	No Channel	0.36	0.00	1369.59	—	1369.59
790	1369.75	No Channel	0.20	0.00	1369.95	—	1369.95
791	1370.53	No Channel	0.08	0.00	1370.61	—	1370.61
792	1371.08	No Channel	0.03	0.00	1371.11	—	1371.11
793	1372.37	No Channel	1.06	0.00	1373.43	—	1373.43
794	1373.65	No Channel	0.00	0.00	1373.65	—	1373.65
795	1373.75	No Channel	0.00	0.00	1373.75	—	1373.75
796	1372.49	No Channel	1.18	0.00	1373.67	—	1373.67
797	1372.75	No Channel	0.93	0.00	1373.68	—	1373.68
798	1373.51	No Channel	0.53	0.00	1374.04	—	1374.04
799	1373.80	No Channel	0.91	0.00	1374.71	—	1374.71
800	1374.48	No Channel	0.59	0.00	1375.07	—	1375.07
801	1374.85	No Channel	0.43	0.00	1375.28	—	1375.28
802	1375.33	No Channel	0.20	0.00	1375.53	—	1375.53
803	1374.88	No Channel	3.02	0.00	1377.90	—	1377.90
804	1374.57	No Channel	3.38	0.00	1377.95	—	1377.95
805	1376.74	No Channel	1.33	0.00	1378.07	—	1378.07
806	1377.15	1374.45	1.27	4.13	1378.42	1378.58	1378.58
807	1379.70	No Channel	0.00	0.00	1379.70	—	1379.70
808	1379.88	No Channel	0.00	0.00	1379.88	—	1379.88
809	1377.49	No Channel	2.20	0.00	1379.69	—	1379.69
810	1379.23	No Channel	0.41	0.00	1379.64	—	1379.64
811	1379.66	No Channel	0.00	0.00	1379.66	—	1379.66
812	1379.86	No Channel	0.00	0.00	1379.86	—	1379.86
813	1380.23	No Channel	3.33	0.00	1383.56	—	1383.56
814	1380.44	No Channel	3.13	0.00	1383.57	—	1383.57
815	1381.04	No Channel	2.55	0.00	1383.59	—	1383.59
816	1383.85	No Channel	0.01	0.00	1383.86	—	1383.86
817	1384.93	No Channel	0.00	0.00	1384.93	—	1384.93
818	1385.67	No Channel	0.00	0.00	1385.67	—	1385.67
819	1386.36	No Channel	0.00	0.00	1386.36	—	1386.36
820	1387.00	No Channel	0.00	0.00	1387.00	—	1387.00
821	1387.78	No Channel	0.00	0.00	1387.78	—	1387.78
822	1388.79	No Channel	0.00	0.00	1388.79	—	1388.79
823	1389.90	No Channel	0.00	0.00	1389.90	—	1389.90
824	1365.67	No Channel	0.86	0.00	1366.53	—	1366.53
825	1365.20	No Channel	1.35	0.00	1366.55	—	1366.55
826	1365.56	No Channel	1.01	0.00	1366.57	—	1366.57
827	1366.03	No Channel	0.60	0.00	1366.63	—	1366.63
828	1366.51	No Channel	0.47	0.00	1366.98	—	1366.98

Table E-4-E

Summary of existing conditions FLO-2D model results

Grid Element	Grid Base Elevation feet	Channel Invert feet	FLO-2D Calculated Depths Overland feet	FLO-2D Calculated Depths Channel feet	Floodplain Water Surface Grid feet	Floodplain Water Surface Channel feet	Maximum Water Surface feet
829	1367.11	No Channel	0.40	0.00	1367.51	—	1367.51
830	1367.33	No Channel	0.67	0.00	1368.00	—	1368.00
831	1367.36	No Channel	0.76	0.00	1368.12	—	1368.12
832	1367.86	No Channel	0.45	0.00	1368.31	—	1368.31
833	1368.42	No Channel	0.33	0.00	1368.75	—	1368.75
834	1368.93	No Channel	0.27	0.00	1369.20	—	1369.20
835	1369.56	No Channel	0.10	0.00	1369.66	—	1369.66
836	1370.14	No Channel	0.00	0.00	1370.14	—	1370.14
837	1370.61	No Channel	0.00	0.00	1370.61	—	1370.61
838	1372.61	No Channel	0.82	0.00	1373.43	—	1373.43
839	1373.11	No Channel	0.33	0.00	1373.44	—	1373.44
840	1373.04	No Channel	0.54	0.00	1373.58	—	1373.58
841	1371.97	No Channel	1.66	0.00	1373.63	—	1373.63
842	1373.70	No Channel	0.12	0.00	1373.82	—	1373.82
843	1373.58	No Channel	0.00	0.00	1373.58	—	1373.58
844	1374.10	No Channel	0.57	0.00	1374.67	—	1374.67
845	1374.66	No Channel	0.44	0.00	1375.10	—	1375.10
846	1375.09	No Channel	0.39	0.00	1375.48	—	1375.48
847	1375.57	No Channel	0.21	0.00	1375.78	—	1375.78
848	1374.38	No Channel	3.52	0.00	1377.90	—	1377.90
849	1376.50	1373.00	1.45	4.70	1377.95	1377.70	1377.95
850	1376.70	1373.80	1.33	4.38	1378.03	1378.18	1378.18
851	1376.70	No Channel	1.40	0.00	1378.10	—	1378.10
852	1380.16	No Channel	0.00	0.00	1380.16	—	1380.16
853	1380.06	No Channel	0.00	0.00	1380.06	—	1380.06
854	1378.84	No Channel	0.77	0.00	1379.61	—	1379.61
855	1380.55	No Channel	0.00	0.00	1380.55	—	1380.55
856	1380.55	No Channel	0.00	0.00	1380.55	—	1380.55
857	1380.55	No Channel	0.00	0.00	1380.55	—	1380.55
858	1380.46	No Channel	3.10	0.00	1383.56	—	1383.56
859	1380.66	No Channel	2.90	0.00	1383.56	—	1383.56
860	1381.06	No Channel	2.51	0.00	1383.57	—	1383.57
861	1383.86	No Channel	0.00	0.00	1383.86	—	1383.86
862	1385.05	No Channel	0.00	0.00	1385.05	—	1385.05
863	1385.65	No Channel	0.00	0.00	1385.65	—	1385.65
864	1386.61	No Channel	0.00	0.00	1386.61	—	1386.61
865	1387.40	No Channel	0.00	0.00	1387.40	—	1387.40
866	1388.17	No Channel	0.00	0.00	1388.17	—	1388.17
867	1389.47	No Channel	0.00	0.00	1389.47	—	1389.47
868	1390.77	No Channel	0.00	0.00	1390.77	—	1390.77
869	1365.50	No Channel	1.00	0.00	1366.50	—	1366.50
870	1365.14	No Channel	1.38	0.00	1366.52	—	1366.52
871	1365.61	No Channel	0.94	0.00	1366.55	—	1366.55
872	1366.11	No Channel	0.53	0.00	1366.64	—	1366.64
873	1366.48	No Channel	0.47	0.00	1366.95	—	1366.95
874	1367.06	No Channel	0.35	0.00	1367.41	—	1367.41
875	1367.64	No Channel	0.26	0.00	1367.90	—	1367.90
876	1367.69	No Channel	0.39	0.00	1368.08	—	1368.08
877	1367.98	No Channel	0.25	0.00	1368.23	—	1368.23
878	1368.59	No Channel	0.16	0.00	1368.75	—	1368.75
879	1369.11	No Channel	0.10	0.00	1369.21	—	1369.21
880	1369.63	No Channel	0.02	0.00	1369.65	—	1369.65
881	1370.35	No Channel	0.00	0.00	1370.35	—	1370.35
882	1370.75	No Channel	0.00	0.00	1370.75	—	1370.75
883	1371.69	No Channel	0.00	0.00	1371.69	—	1371.69
884	1372.20	No Channel	0.00	0.00	1372.20	—	1372.20
885	1372.16	No Channel	1.42	0.00	1373.58	—	1373.58
886	1370.50	No Channel	3.12	0.00	1373.62	—	1373.62
887	1373.20	No Channel	0.53	0.00	1373.73	—	1373.73
888	1373.63	No Channel	0.56	0.00	1374.19	—	1374.19
889	1374.13	No Channel	0.52	0.00	1374.65	—	1374.65
890	1374.93	No Channel	0.27	0.00	1375.20	—	1375.20
891	1374.22	No Channel	1.26	0.00	1375.48	—	1375.48
892	1375.16	1372.56	1.03	3.80	1376.19	1376.36	1376.36
893	1375.50	1373.00	2.16	4.44	1377.66	1377.44	1377.66
894	1376.12	No Channel	1.81	0.00	1377.93	—	1377.93
895	1376.13	No Channel	1.90	0.00	1378.03	—	1378.03
896	1376.85	No Channel	1.21	0.00	1378.06	—	1378.06
897	1379.52	No Channel	0.00	0.00	1379.52	—	1379.52

Table E-4-E

Summary of existing conditions FLO-2D model results

Grid Element	Grid Base Elevation feet	Channel Invert feet	FLO-2D Calculated Depths Overland feet	FLO-2D Calculated Depths Channel feet	Floodplain Water Surface Grid feet	Floodplain Water Surface Channel feet	Maximum Water Surface feet
898	1379.64	No Channel	0.00	0.00	1379.64	—	1379.64
899	1379.25	No Channel	0.28	0.00	1379.53	—	1379.53
900	1380.55	No Channel	0.00	0.00	1380.55	—	1380.55
901	1380.55	No Channel	0.00	0.00	1380.55	—	1380.55
902	1380.55	No Channel	0.00	0.00	1380.55	—	1380.55
903	1381.65	No Channel	1.91	0.00	1383.56	—	1383.56
904	1381.98	No Channel	1.58	0.00	1383.56	—	1383.56
905	1382.56	No Channel	1.00	0.00	1383.56	—	1383.56
906	1383.70	No Channel	0.00	0.00	1383.70	—	1383.70
907	1384.93	No Channel	0.00	0.00	1384.93	—	1384.93
908	1385.72	No Channel	0.00	0.00	1385.72	—	1385.72
909	1386.77	No Channel	0.00	0.00	1386.77	—	1386.77
910	1387.67	No Channel	0.00	0.00	1387.67	—	1387.67
911	1388.43	No Channel	0.00	0.00	1388.43	—	1388.43
912	1389.97	No Channel	0.00	0.00	1389.97	—	1389.97
913	1392.54	No Channel	0.00	0.00	1392.54	—	1392.54
914	1365.36	No Channel	1.12	0.00	1366.48	—	1366.48
915	1365.07	No Channel	1.42	0.00	1366.49	—	1366.49
916	1365.82	No Channel	0.69	0.00	1366.51	—	1366.51
917	1366.39	No Channel	0.32	0.00	1366.71	—	1366.71
918	1366.74	No Channel	0.30	0.00	1367.04	—	1367.04
919	1367.07	No Channel	0.27	0.00	1367.34	—	1367.34
920	1367.60	No Channel	0.21	0.00	1367.81	—	1367.81
921	1367.89	No Channel	0.23	0.00	1368.12	—	1368.12
922	1368.02	No Channel	0.27	0.00	1368.29	—	1368.29
923	1368.57	No Channel	0.16	0.00	1368.73	—	1368.73
924	1369.05	No Channel	0.14	0.00	1369.19	—	1369.19
925	1369.64	No Channel	0.10	0.00	1369.74	—	1369.74
926	1370.37	No Channel	0.00	0.00	1370.37	—	1370.37
927	1370.82	No Channel	0.00	0.00	1370.82	—	1370.82
928	1371.31	No Channel	0.00	0.00	1371.31	—	1371.31
929	1371.82	No Channel	0.00	0.00	1371.82	—	1371.82
930	1372.07	No Channel	1.44	0.00	1373.51	—	1373.51
931	1369.45	No Channel	4.11	0.00	1373.56	—	1373.56
932	1373.07	No Channel	0.63	0.00	1373.70	—	1373.70
933	1373.20	1369.60	0.83	4.55	1374.03	1374.15	1374.15
934	1374.00	1370.00	0.62	4.77	1374.62	1374.77	1374.77
935	1373.50	1370.40	1.52	4.68	1375.02	1375.08	1375.08
936	1374.75	1371.55	0.76	4.02	1375.51	1375.57	1375.57
937	1375.55	No Channel	0.37	0.00	1375.92	—	1375.92
938	1377.30	No Channel	0.00	0.00	1377.30	—	1377.30
939	1377.55	No Channel	0.00	0.00	1377.55	—	1377.55
940	1377.74	No Channel	0.00	0.00	1377.74	—	1377.74
941	1378.25	No Channel	0.00	0.00	1378.25	—	1378.25
942	1378.29	No Channel	0.00	0.00	1378.29	—	1378.29
943	1379.80	No Channel	0.00	0.00	1379.80	—	1379.80
944	1379.24	No Channel	0.23	0.00	1379.47	—	1379.47
945	1381.95	No Channel	0.00	0.00	1381.95	—	1381.95
946	1382.30	No Channel	0.00	0.00	1382.30	—	1382.30
947	1382.65	No Channel	0.00	0.00	1382.65	—	1382.65
948	1381.79	No Channel	1.77	0.00	1383.56	—	1383.56
949	1382.76	No Channel	0.80	0.00	1383.56	—	1383.56
950	1383.56	No Channel	0.00	0.00	1383.56	—	1383.56
951	1383.65	No Channel	0.00	0.00	1383.65	—	1383.65
952	1384.33	No Channel	0.00	0.00	1384.33	—	1384.33
953	1385.90	No Channel	0.00	0.00	1385.90	—	1385.90
954	1386.82	No Channel	0.00	0.00	1386.82	—	1386.82
955	1387.74	No Channel	0.03	0.00	1387.77	—	1387.77
956	1388.50	No Channel	0.02	0.00	1388.52	—	1388.52
957	1390.23	No Channel	0.00	0.00	1390.23	—	1390.23
958	1392.38	No Channel	0.00	0.00	1392.38	—	1392.38
959	1365.22	No Channel	1.22	0.00	1366.44	—	1366.44
960	1365.02	No Channel	1.44	0.00	1366.46	—	1366.46
961	1366.11	No Channel	0.38	0.00	1366.49	—	1366.49
962	1366.59	No Channel	0.30	0.00	1366.89	—	1366.89
963	1366.78	No Channel	0.32	0.00	1367.10	—	1367.10
964	1366.93	No Channel	0.35	0.00	1367.28	—	1367.28
965	1367.28	No Channel	0.29	0.00	1367.57	—	1367.57
966	1367.81	No Channel	0.27	0.00	1368.08	—	1368.08

Table E-4-E

Summary of existing conditions FLO-2D model results

Grid Element	Grid Base Elevation feet	Channel Invert feet	FLO-2D Calculated Depths Overland feet	FLO-2D Calculated Depths Channel feet	Floodplain Water Surface Grid feet	Floodplain Water Surface Channel feet	Maximum Water Surface feet
967	1368.19	No Channel	0.24	0.00	1368.43	—	1368.43
968	1368.51	No Channel	0.25	0.00	1368.76	—	1368.76
969	1369.11	No Channel	0.23	0.00	1369.34	—	1369.34
970	1369.53	No Channel	0.21	0.00	1369.74	—	1369.74
971	1370.04	No Channel	0.12	0.00	1370.16	—	1370.16
972	1370.26	No Channel	0.12	0.00	1370.38	—	1370.38
973	1371.00	1367.70	2.30	5.40	1373.30	1373.10	1373.30
974	1371.50	1368.30	1.92	4.99	1373.42	1373.29	1373.42
975	1371.92	1368.62	1.58	4.87	1373.50	1373.49	1373.50
976	1369.20	1369.00	4.34	4.57	1373.54	1373.57	1373.57
977	1372.45	1369.25	1.13	4.50	1373.58	1373.75	1373.75
978	1373.36	No Channel	0.00	0.00	1373.36	—	1373.36
979	1373.95	No Channel	0.57	0.00	1374.52	—	1374.52
980	1375.92	No Channel	0.00	0.00	1375.92	—	1375.92
981	1377.24	No Channel	0.00	0.00	1377.24	—	1377.24
982	1375.86	No Channel	0.01	0.00	1375.87	—	1375.87
983	1377.17	No Channel	0.00	0.00	1377.17	—	1377.17
984	1377.51	No Channel	0.00	0.00	1377.51	—	1377.51
985	1377.79	No Channel	0.00	0.00	1377.79	—	1377.79
986	1378.11	No Channel	0.00	0.00	1378.11	—	1378.11
987	1378.17	No Channel	0.00	0.00	1378.17	—	1378.17
988	1379.54	No Channel	0.00	0.00	1379.54	—	1379.54
989	1379.23	No Channel	0.14	0.00	1379.37	—	1379.37
990	1381.95	No Channel	0.00	0.00	1381.95	—	1381.95
991	1382.30	No Channel	0.00	0.00	1382.30	—	1382.30
992	1382.65	No Channel	0.00	0.00	1382.65	—	1382.65
993	1382.22	No Channel	1.34	0.00	1383.56	—	1383.56
994	1383.14	No Channel	0.42	0.00	1383.56	—	1383.56
995	1383.64	No Channel	0.00	0.00	1383.64	—	1383.64
996	1383.65	No Channel	0.00	0.00	1383.65	—	1383.65
997	1384.82	No Channel	0.00	0.00	1384.82	—	1384.82
998	1385.92	No Channel	0.00	0.00	1385.92	—	1385.92
999	1386.12	No Channel	0.00	0.00	1386.12	—	1386.12
1000	1387.59	No Channel	0.10	0.00	1387.69	—	1387.69
1001	1388.75	No Channel	0.12	0.00	1388.87	—	1388.87
1002	1390.39	No Channel	0.00	0.00	1390.39	—	1390.39
1003	1391.01	No Channel	0.00	0.00	1391.01	—	1391.01
1004	1365.14	No Channel	1.29	0.00	1366.43	—	1366.43
1005	1365.03	No Channel	1.33	0.00	1366.36	—	1366.36
1006	1366.04	No Channel	0.41	0.00	1366.45	—	1366.45
1007	1366.55	No Channel	0.27	0.00	1366.82	—	1366.82
1008	1366.71	No Channel	0.42	0.00	1367.13	—	1367.13
1009	1366.78	No Channel	0.47	0.00	1367.25	—	1367.25
1010	1367.15	No Channel	0.38	0.00	1367.53	—	1367.53
1011	1367.75	No Channel	0.31	0.00	1368.06	—	1368.06
1012	1368.03	No Channel	0.39	0.00	1368.42	—	1368.42
1013	1368.33	No Channel	0.45	0.00	1368.78	—	1368.78
1014	1368.75	No Channel	0.37	0.00	1369.12	—	1369.12
1015	1369.00	1366.40	0.66	3.39	1369.66	1369.79	1369.79
1016	1369.60	1366.90	0.57	3.45	1370.17	1370.35	1370.35
1017	1370.23	1367.33	0.27	3.27	1370.50	1370.60	1370.60
1018	1369.65	No Channel	0.00	0.00	1369.65	—	1369.65
1019	1372.57	No Channel	0.00	0.00	1372.57	—	1372.57
1020	1373.29	No Channel	0.00	0.00	1373.29	—	1373.29
1021	1370.15	No Channel	3.32	0.00	1373.47	—	1373.47
1022	1372.95	No Channel	0.53	0.00	1373.48	—	1373.48
1023	1373.38	No Channel	0.31	0.00	1373.69	—	1373.69
1024	1374.05	No Channel	0.20	0.00	1374.25	—	1374.25
1025	1376.98	No Channel	0.00	0.00	1376.98	—	1376.98
1026	1377.29	No Channel	0.00	0.00	1377.29	—	1377.29
1027	1375.27	No Channel	0.17	0.00	1375.44	—	1375.44
1028	1375.82	No Channel	0.00	0.00	1375.82	—	1375.82
1029	1376.28	No Channel	0.00	0.00	1376.28	—	1376.28
1030	1376.80	No Channel	0.00	0.00	1376.80	—	1376.80
1031	1377.63	No Channel	0.00	0.00	1377.63	—	1377.63
1032	1378.30	No Channel	0.00	0.00	1378.30	—	1378.30
1033	1378.66	No Channel	0.10	0.00	1378.76	—	1378.76
1034	1379.24	No Channel	0.08	0.00	1379.32	—	1379.32
1035	1379.80	No Channel	0.00	0.00	1379.80	—	1379.80

Table E-4-E

Summary of existing conditions FLO-2D model results

Grid Element	Grid Base Elevation feet	Channel Invert feet	FLO-2D Calculated Depths		Floodplain Water Surface		Maximum Water Surface feet
			Overland feet	Channel feet	Grid feet	Channel feet	
1036	1381.15	No Channel	0.00	0.00	1381.15	—	1381.15
1037	1382.55	No Channel	0.00	0.00	1382.55	—	1382.55
1038	1383.04	No Channel	0.52	0.00	1383.56	—	1383.56
1039	1383.52	No Channel	0.00	0.00	1383.52	—	1383.52
1040	1383.88	No Channel	0.00	0.00	1383.88	—	1383.88
1041	1383.99	No Channel	0.00	0.00	1383.99	—	1383.99
1042	1385.70	No Channel	0.00	0.00	1385.70	—	1385.70
1043	1386.38	No Channel	0.00	0.00	1386.38	—	1386.38
1044	1388.05	No Channel	0.00	0.00	1388.05	—	1388.05
1045	1388.94	No Channel	0.01	0.00	1388.95	—	1388.95
1046	1389.08	No Channel	0.10	0.00	1389.18	—	1389.18
1047	1390.19	No Channel	0.13	0.00	1390.32	—	1390.32
1048	1392.72	No Channel	0.00	0.00	1392.72	—	1392.72
1049	1365.15	No Channel	1.20	0.00	1366.35	—	1366.35
1050	1364.94	No Channel	1.21	0.00	1366.15	—	1366.15
1051	1365.68	No Channel	0.56	0.00	1366.24	—	1366.24
1052	1366.39	No Channel	0.44	0.00	1366.83	—	1366.83
1053	1366.35	No Channel	0.80	0.00	1367.15	—	1367.15
1054	1366.53	No Channel	0.70	0.00	1367.23	—	1367.23
1055	1366.84	No Channel	0.61	0.00	1367.45	—	1367.45
1056	1367.36	No Channel	0.57	0.00	1367.93	—	1367.93
1057	1367.76	No Channel	0.64	0.00	1368.40	—	1368.40
1058	1368.12	No Channel	0.66	0.00	1368.78	—	1368.78
1059	1368.10	1365.70	1.02	3.56	1369.12	1369.26	1369.26
1060	1369.09	No Channel	0.58	0.00	1369.67	—	1369.67
1061	1369.65	No Channel	0.29	0.00	1369.94	—	1369.94
1062	1370.53	No Channel	0.00	0.00	1370.53	—	1370.53
1063	1370.86	No Channel	0.00	0.00	1370.86	—	1370.86
1064	1373.15	No Channel	0.00	0.00	1373.15	—	1373.15
1065	1373.30	No Channel	0.00	0.00	1373.30	—	1373.30
1066	1371.60	No Channel	1.76	0.00	1373.36	—	1373.36
1067	1373.67	No Channel	0.00	0.00	1373.67	—	1373.67
1068	1373.74	No Channel	0.00	0.00	1373.74	—	1373.74
1069	1373.76	No Channel	0.18	0.00	1373.94	—	1373.94
1070	1374.91	No Channel	0.00	0.00	1374.91	—	1374.91
1071	1375.68	No Channel	0.00	0.00	1375.68	—	1375.68
1072	1375.35	No Channel	0.04	0.00	1375.39	—	1375.39
1073	1375.41	No Channel	0.00	0.00	1375.41	—	1375.41
1074	1376.98	No Channel	0.00	0.00	1376.98	—	1376.98
1075	1377.35	No Channel	0.00	0.00	1377.35	—	1377.35
1076	1378.22	No Channel	0.00	0.00	1378.22	—	1378.22
1077	1378.32	No Channel	0.00	0.00	1378.32	—	1378.32
1078	1379.52	No Channel	0.00	0.00	1379.52	—	1379.52
1079	1379.50	No Channel	0.00	0.00	1379.50	—	1379.50
1080	1381.70	No Channel	0.00	0.00	1381.70	—	1381.70
1081	1382.60	No Channel	0.00	0.00	1382.60	—	1382.60
1082	1383.55	No Channel	0.00	0.00	1383.55	—	1383.55
1083	1383.51	No Channel	0.00	0.00	1383.51	—	1383.51
1084	1383.74	No Channel	0.00	0.00	1383.74	—	1383.74
1085	1384.07	No Channel	0.00	0.00	1384.07	—	1384.07
1086	1384.43	No Channel	0.00	0.00	1384.43	—	1384.43
1087	1385.47	No Channel	0.00	0.00	1385.47	—	1385.47
1088	1388.08	No Channel	0.00	0.00	1388.08	—	1388.08
1089	1391.03	No Channel	0.00	0.00	1391.03	—	1391.03
1090	1391.04	No Channel	0.00	0.00	1391.04	—	1391.04
1091	1391.11	No Channel	0.00	0.00	1391.11	—	1391.11
1092	1390.53	No Channel	0.00	0.00	1390.53	—	1390.53
1093	1394.13	No Channel	0.00	0.00	1394.13	—	1394.13
1094	1364.88	No Channel	1.06	0.00	1365.94	—	1365.94
1095	1364.94	No Channel	1.13	0.00	1366.07	—	1366.07
1096	1365.29	No Channel	0.77	0.00	1366.06	—	1366.06
1097	1365.06	No Channel	1.17	0.00	1366.23	—	1366.23
1098	1364.85	No Channel	1.53	0.00	1366.38	—	1366.38
1099	1364.68	No Channel	1.79	0.00	1366.47	—	1366.47
1100	1364.61	No Channel	1.89	0.00	1366.50	—	1366.50
1101	1364.94	No Channel	1.57	0.00	1366.51	—	1366.51
1102	1367.00	No Channel	1.22	0.00	1368.22	—	1368.22
1103	1367.50	1364.70	0.87	3.89	1368.37	1368.59	1368.59
1104	1368.36	No Channel	0.00	0.00	1368.36	—	1368.36

Table E-4-E

Summary of existing conditions FLO-2D model results

Grid Element	Grid Base Elevation feet	Channel Invert feet	FLO-2D Calculated Depths Overland feet	FLO-2D Calculated Depths Channel feet	Floodplain Water Surface Grid feet	Floodplain Water Surface Channel feet	Maximum Water Surface feet
1105	1369.10	No Channel	0.00	0.00	1369.10	—	1369.10
1106	1369.32	No Channel	0.00	0.00	1369.32	—	1369.32
1107	1368.79	No Channel	0.00	0.00	1368.79	—	1368.79
1108	1370.60	No Channel	0.00	0.00	1370.60	—	1370.60
1109	1372.13	No Channel	0.00	0.00	1372.13	—	1372.13
1110	1372.05	No Channel	0.00	0.00	1372.05	—	1372.05
1111	1372.64	No Channel	0.43	0.00	1373.07	—	1373.07
1112	1373.82	No Channel	0.00	0.00	1373.82	—	1373.82
1113	1373.76	No Channel	0.00	0.00	1373.76	—	1373.76
1114	1373.78	No Channel	0.11	0.00	1373.89	—	1373.89
1115	1375.04	No Channel	0.00	0.00	1375.04	—	1375.04
1116	1375.80	No Channel	0.00	0.00	1375.80	—	1375.80
1117	1375.14	No Channel	0.04	0.00	1375.18	—	1375.18
1118	1374.91	No Channel	0.00	0.00	1374.91	—	1374.91
1119	1376.98	No Channel	0.00	0.00	1376.98	—	1376.98
1120	1376.91	No Channel	0.00	0.00	1376.91	—	1376.91
1121	1378.11	No Channel	0.00	0.00	1378.11	—	1378.11
1122	1377.96	No Channel	0.00	0.00	1377.96	—	1377.96
1123	1379.69	No Channel	0.00	0.00	1379.69	—	1379.69
1124	1379.66	No Channel	0.00	0.00	1379.66	—	1379.66
1125	1381.70	No Channel	0.00	0.00	1381.70	—	1381.70
1126	1382.60	No Channel	0.00	0.00	1382.60	—	1382.60
1127	1383.55	No Channel	0.00	0.00	1383.55	—	1383.55
1128	1384.52	No Channel	0.00	0.00	1384.52	—	1384.52
1129	1385.19	No Channel	0.00	0.00	1385.19	—	1385.19
1130	1385.99	No Channel	0.00	0.00	1385.99	—	1385.99
1131	1385.97	No Channel	0.00	0.00	1385.97	—	1385.97
1132	1386.55	No Channel	0.00	0.00	1386.55	—	1386.55
1133	1389.01	No Channel	0.00	0.00	1389.01	—	1389.01
1134	1391.08	No Channel	0.00	0.00	1391.08	—	1391.08
1135	1391.11	No Channel	0.00	0.00	1391.11	—	1391.11
1136	1391.45	No Channel	0.00	0.00	1391.45	—	1391.45
1137	1391.98	No Channel	0.00	0.00	1391.98	—	1391.98
1138	1394.88	No Channel	0.00	0.00	1394.88	—	1394.88
1139	1364.79	No Channel	0.93	0.00	1365.72	—	1365.72
1140	1365.04	No Channel	0.96	0.00	1366.00	—	1366.00
1141	1366.01	No Channel	0.00	0.00	1366.01	—	1366.01
1142	1365.46	No Channel	0.00	0.00	1365.46	—	1365.46
1143	1365.74	No Channel	0.00	0.00	1365.74	—	1365.74
1144	1366.15	No Channel	0.33	0.00	1366.48	—	1366.48
1145	1364.47	No Channel	2.04	0.00	1366.51	—	1366.51
1146	1364.30	1364.10	2.25	2.57	1366.55	1366.67	1366.67
1147	1367.25	1364.45	0.25	2.74	1367.50	1367.19	1367.50
1148	1367.55	No Channel	0.45	0.00	1368.00	—	1368.00
1149	1367.96	No Channel	0.17	0.00	1368.13	—	1368.13
1150	1368.41	No Channel	0.00	0.00	1368.41	—	1368.41
1151	1369.60	No Channel	0.00	0.00	1369.60	—	1369.60
1152	1370.40	No Channel	0.00	0.00	1370.40	—	1370.40
1153	1371.45	No Channel	0.00	0.00	1371.45	—	1371.45
1154	1373.63	No Channel	0.00	0.00	1373.63	—	1373.63
1155	1373.24	No Channel	0.00	0.00	1373.24	—	1373.24
1156	1372.03	No Channel	0.33	0.00	1372.36	—	1372.36
1157	1373.63	No Channel	0.00	0.00	1373.63	—	1373.63
1158	1373.61	No Channel	0.03	0.00	1373.64	—	1373.64
1159	1373.56	No Channel	0.00	0.00	1373.56	—	1373.56
1160	1375.44	No Channel	0.00	0.00	1375.44	—	1375.44
1161	1376.00	No Channel	0.00	0.00	1376.00	—	1376.00
1162	1374.95	No Channel	0.10	0.00	1375.05	—	1375.05
1163	1375.70	No Channel	0.00	0.00	1375.70	—	1375.70
1164	1378.00	No Channel	0.00	0.00	1378.00	—	1378.00
1165	1378.51	No Channel	0.00	0.00	1378.51	—	1378.51
1166	1379.39	No Channel	0.00	0.00	1379.39	—	1379.39
1167	1380.68	No Channel	0.00	0.00	1380.68	—	1380.68
1168	1382.38	No Channel	0.00	0.00	1382.38	—	1382.38
1169	1382.47	No Channel	0.00	0.00	1382.47	—	1382.47
1170	1384.05	No Channel	0.00	0.00	1384.05	—	1384.05
1171	1385.30	No Channel	0.00	0.00	1385.30	—	1385.30
1172	1386.50	No Channel	0.00	0.00	1386.50	—	1386.50
1173	1385.58	No Channel	0.00	0.00	1385.58	—	1385.58

Table E-4-E

Summary of existing conditions FLO-2D model results

Grid Element	Grid Base Elevation feet	Channel Invert feet	FLO-2D Calculated Depths Overland feet	FLO-2D Calculated Depths Channel feet	Floodplain Water Surface Grid feet	Floodplain Water Surface Channel feet	Maximum Water Surface feet
1174	1386.05	No Channel	0.00	0.00	1386.05	—	1386.05
1175	1386.73	No Channel	0.00	0.00	1386.73	—	1386.73
1176	1386.83	No Channel	0.00	0.00	1386.83	—	1386.83
1177	1388.13	No Channel	0.00	0.00	1388.13	—	1388.13
1178	1389.79	No Channel	0.00	0.00	1389.79	—	1389.79
1179	1391.16	No Channel	0.00	0.00	1391.16	—	1391.16
1180	1391.29	No Channel	0.00	0.00	1391.29	—	1391.29
1181	1391.59	No Channel	0.00	0.00	1391.59	—	1391.59
1182	1393.52	No Channel	0.00	0.00	1393.52	—	1393.52
1183	1398.54	No Channel	0.00	0.00	1398.54	—	1398.54
1184	1364.77	No Channel	0.73	0.00	1365.50	—	1365.50
1185	1365.12	No Channel	0.81	0.00	1365.93	—	1365.93
1186	1365.97	No Channel	0.10	0.00	1366.07	—	1366.07
1187	1365.70	No Channel	0.00	0.00	1365.70	—	1365.70
1188	1365.51	No Channel	0.00	0.00	1365.51	—	1365.51
1189	1364.83	1363.93	1.66	2.45	1366.49	1366.38	1366.49
1190	1364.20	1364.00	2.31	2.56	1366.51	1366.56	1366.56
1191	1365.31	No Channel	1.26	0.00	1366.57	—	1366.57
1192	1367.26	No Channel	0.10	0.00	1367.36	—	1367.36
1193	1367.23	No Channel	0.20	0.00	1367.43	—	1367.43
1194	1367.41	No Channel	0.20	0.00	1367.61	—	1367.61
1195	1368.36	No Channel	0.00	0.00	1368.36	—	1368.36
1196	1368.77	No Channel	0.00	0.00	1368.77	—	1368.77
1197	1370.36	No Channel	0.00	0.00	1370.36	—	1370.36
1198	1371.24	No Channel	0.00	0.00	1371.24	—	1371.24
1199	1372.74	No Channel	0.00	0.00	1372.74	—	1372.74
1200	1372.80	No Channel	0.00	0.00	1372.80	—	1372.80
1201	1370.76	No Channel	0.25	0.00	1371.01	—	1371.01
1202	1373.25	No Channel	0.00	0.00	1373.25	—	1373.25
1203	1373.51	No Channel	0.00	0.00	1373.51	—	1373.51
1204	1373.56	No Channel	0.00	0.00	1373.56	—	1373.56
1205	1375.22	No Channel	0.00	0.00	1375.22	—	1375.22
1206	1375.94	No Channel	0.00	0.00	1375.94	—	1375.94
1207	1374.93	No Channel	0.00	0.00	1374.93	—	1374.93
1208	1375.90	No Channel	0.00	0.00	1375.90	—	1375.90
1209	1378.08	No Channel	0.00	0.00	1378.08	—	1378.08
1210	1378.58	No Channel	0.00	0.00	1378.58	—	1378.58
1211	1379.45	No Channel	0.00	0.00	1379.45	—	1379.45
1212	1380.73	No Channel	0.00	0.00	1380.73	—	1380.73
1213	1382.40	No Channel	0.00	0.00	1382.40	—	1382.40
1214	1382.63	No Channel	0.00	0.00	1382.63	—	1382.63
1215	1384.05	No Channel	0.00	0.00	1384.05	—	1384.05
1216	1385.30	No Channel	0.00	0.00	1385.30	—	1385.30
1217	1386.50	No Channel	0.00	0.00	1386.50	—	1386.50
1218	1386.77	No Channel	0.00	0.00	1386.77	—	1386.77
1219	1387.16	No Channel	0.00	0.00	1387.16	—	1387.16
1220	1387.04	No Channel	0.00	0.00	1387.04	—	1387.04
1221	1388.11	No Channel	0.00	0.00	1388.11	—	1388.11
1222	1389.65	No Channel	0.00	0.00	1389.65	—	1389.65
1223	1390.83	No Channel	0.00	0.00	1390.83	—	1390.83
1224	1391.76	No Channel	0.00	0.00	1391.76	—	1391.76
1225	1392.01	No Channel	0.00	0.00	1392.01	—	1392.01
1226	1391.85	No Channel	0.00	0.00	1391.85	—	1391.85
1227	1395.34	No Channel	0.00	0.00	1395.34	—	1395.34
1228	1398.31	No Channel	0.00	0.00	1398.31	—	1398.31
1229	1364.95	No Channel	0.46	0.00	1365.41	—	1365.41
1230	1365.45	No Channel	0.51	0.00	1365.96	—	1365.96
1231	1364.85	No Channel	1.28	0.00	1366.13	—	1366.13
1232	1364.34	No Channel	1.89	0.00	1366.23	—	1366.23
1233	1363.98	1363.78	2.39	2.45	1366.37	1366.23	1366.37
1234	1364.24	No Channel	2.22	0.00	1366.46	—	1366.46
1235	1365.12	No Channel	1.42	0.00	1366.54	—	1366.54
1236	1365.80	No Channel	0.80	0.00	1366.60	—	1366.60
1237	1366.16	No Channel	0.64	0.00	1366.80	—	1366.80
1238	1366.41	No Channel	0.62	0.00	1367.03	—	1367.03
1239	1366.60	No Channel	0.60	0.00	1367.20	—	1367.20
1240	1366.89	No Channel	0.54	0.00	1367.43	—	1367.43
1241	1367.25	No Channel	0.51	0.00	1367.76	—	1367.76
1242	1367.60	No Channel	0.51	0.00	1368.11	—	1368.11

Table E-4-E

Summary of existing conditions FLO-2D model results

Grid Element	Grid Base Elevation feet	Channel Invert feet	FLO-2D Calculated Depths Overland feet	FLO-2D Calculated Depths Channel feet	Floodplain Water Surface Grid feet	Floodplain Water Surface Channel feet	Maximum Water Surface feet
1243	1367.99	No Channel	0.50	0.00	1368.49	---	1368.49
1244	1368.52	No Channel	0.49	0.00	1369.01	---	1369.01
1245	1369.08	No Channel	0.50	0.00	1369.58	---	1369.58
1246	1365.22	No Channel	0.20	0.00	1365.42	---	1365.42
1247	1365.92	No Channel	0.10	0.00	1366.02	---	1366.02
1248	1365.80	1362.00	0.18	3.27	1365.98	1365.27	1365.98
1249	1365.00	1362.70	1.07	3.10	1366.07	1365.80	1366.07
1250	1367.32	No Channel	0.00	0.00	1367.32	---	1367.32
1251	1367.56	No Channel	0.00	0.00	1367.56	---	1367.56
1252	1367.86	No Channel	0.00	0.00	1367.86	---	1367.86
1253	1367.88	No Channel	0.00	0.00	1367.88	---	1367.88
1254	1367.60	No Channel	0.00	0.00	1367.60	---	1367.60
1255	1367.64	No Channel	0.00	0.00	1367.64	---	1367.64
1256	1367.95	No Channel	0.00	0.00	1367.95	---	1367.95
1257	1368.22	No Channel	0.00	0.00	1368.22	---	1368.22
1258	1368.61	No Channel	0.00	0.00	1368.61	---	1368.61
1259	1369.24	No Channel	0.00	0.00	1369.24	---	1369.24
1260	1369.92	No Channel	0.00	0.00	1369.92	---	1369.92
1261	1370.22	No Channel	0.00	0.00	1370.22	---	1370.22
1262	1370.44	No Channel	0.00	0.00	1370.44	---	1370.44
1263	1365.43	No Channel	0.03	0.00	1365.46	---	1365.46
1264	1366.01	1361.31	0.00	3.93	1366.01	1365.24	1366.01
1265	1366.49	No Channel	0.00	0.00	1366.49	---	1366.49
1266	1367.13	No Channel	0.00	0.00	1367.13	---	1367.13
1267	1367.32	No Channel	0.00	0.00	1367.32	---	1367.32
1268	1367.82	No Channel	0.00	0.00	1367.82	---	1367.82
1269	1368.10	No Channel	0.00	0.00	1368.10	---	1368.10
1270	1367.89	No Channel	0.00	0.00	1367.89	---	1367.89
1271	1368.27	No Channel	0.00	0.00	1368.27	---	1368.27
1272	1368.10	No Channel	0.00	0.00	1368.10	---	1368.10
1273	1368.22	No Channel	0.00	0.00	1368.22	---	1368.22
1274	1368.12	No Channel	0.00	0.00	1368.12	---	1368.12
1275	1368.90	No Channel	0.00	0.00	1368.90	---	1368.90
1276	1365.34	1360.84	0.00	3.93	1365.34	1364.77	1365.34
1277	1365.92	No Channel	0.00	0.00	1365.92	---	1365.92
1278	1366.46	No Channel	0.00	0.00	1366.46	---	1366.46
1279	1367.08	No Channel	0.00	0.00	1367.08	---	1367.08
1280	1367.45	No Channel	0.00	0.00	1367.45	---	1367.45
1281	1367.74	No Channel	0.00	0.00	1367.74	---	1367.74
1282	1367.95	No Channel	0.00	0.00	1367.95	---	1367.95
1283	1367.63	No Channel	0.00	0.00	1367.63	---	1367.63
1284	1368.40	No Channel	0.00	0.00	1368.40	---	1368.40
1285	1365.32	No Channel	0.00	0.00	1365.32	---	1365.32
1286	1365.90	No Channel	0.00	0.00	1365.90	---	1365.90
1287	1366.39	No Channel	0.00	0.00	1366.39	---	1366.39
1288	1366.64	No Channel	0.00	0.00	1366.64	---	1366.64
1289	1365.26	No Channel	0.00	0.00	1365.26	---	1365.26
1290	1366.75	No Channel	0.00	0.00	1366.75	---	1366.75
1291	1367.85	No Channel	0.00	0.00	1367.85	---	1367.85
1292	1368.22	No Channel	0.00	0.00	1368.22	---	1368.22
1293	1365.36	No Channel	0.08	0.00	1365.44	---	1365.44
1294	1365.82	No Channel	0.00	0.00	1365.82	---	1365.82
1295	1366.44	No Channel	0.00	0.00	1366.44	---	1366.44
1296	1365.86	No Channel	0.00	0.00	1365.86	---	1365.86
1297	1366.04	No Channel	0.00	0.00	1366.04	---	1366.04
1298	1366.95	No Channel	0.00	0.00	1366.95	---	1366.95
1299	1368.21	No Channel	0.00	0.00	1368.21	---	1368.21
1300	1370.00	No Channel	0.29	0.00	1370.29	---	1370.29
1301	1370.50	No Channel	0.10	0.00	1370.60	---	1370.60
1302	1371.30	No Channel	0.00	0.00	1371.30	---	1371.30
1303	1371.90	No Channel	0.00	0.00	1371.90	---	1371.90
1304	1373.00	No Channel	0.00	0.00	1373.00	---	1373.00
1305	1373.60	No Channel	0.00	0.00	1373.60	---	1373.60
1306	1374.60	No Channel	0.00	0.00	1374.60	---	1374.60
1307	1375.40	No Channel	0.00	0.00	1375.40	---	1375.40
1308	1365.22	No Channel	0.33	0.00	1365.55	---	1365.55
1309	1365.77	No Channel	0.00	0.00	1365.77	---	1365.77
1310	1366.52	No Channel	0.00	0.00	1366.52	---	1366.52
1311	1367.21	No Channel	0.00	0.00	1367.21	---	1367.21

Table E-4-E

Summary of existing conditions FLO-2D model results

Grid Element	Grid Base Elevation feet	Channel Invert feet	FLO-2D Calculated Depths		Floodplain Water Surface		Maximum Water Surface feet
			Overland feet	Channel feet	Grid feet	Channel feet	
1312	1367.38	No Channel	0.00	0.00	1367.38	—	1367.38
1313	1367.52	No Channel	0.00	0.00	1367.52	—	1367.52
1314	1367.82	No Channel	0.00	0.00	1367.82	—	1367.82
1315	1365.07	No Channel	0.48	0.00	1365.55	—	1365.55
1316	1365.50	No Channel	0.01	0.00	1365.51	—	1365.51
1317	1366.29	No Channel	0.00	0.00	1366.29	—	1366.29
1318	1367.15	No Channel	0.00	0.00	1367.15	—	1367.15
1319	1367.17	No Channel	0.00	0.00	1367.17	—	1367.17
1320	1367.25	No Channel	0.00	0.00	1367.25	—	1367.25
1321	1366.98	No Channel	0.00	0.00	1366.98	—	1366.98
1322	1364.98	No Channel	0.56	0.00	1365.54	—	1365.54
1323	1365.27	No Channel	0.34	0.00	1365.61	—	1365.61
1324	1366.16	No Channel	0.00	0.00	1366.16	—	1366.16
1325	1367.25	No Channel	0.00	0.00	1367.25	—	1367.25
1326	1366.80	No Channel	0.00	0.00	1366.80	—	1366.80
1327	1367.00	No Channel	0.00	0.00	1367.00	—	1367.00
1328	1366.71	No Channel	0.00	0.00	1366.71	—	1366.71
1329	1364.96	No Channel	0.56	0.00	1365.52	—	1365.52
1330	1365.03	No Channel	0.60	0.00	1365.63	—	1365.63
1331	1365.54	No Channel	0.28	0.00	1365.82	—	1365.82
1332	1366.31	No Channel	0.00	0.00	1366.31	—	1366.31
1333	1366.37	No Channel	0.00	0.00	1366.37	—	1366.37
1334	1366.09	No Channel	0.00	0.00	1366.09	—	1366.09
1335	1366.41	No Channel	0.00	0.00	1366.41	—	1366.41
1336	1364.64	No Channel	0.83	0.00	1365.47	—	1365.47
1337	1365.15	No Channel	0.74	0.00	1365.89	—	1365.89
1338	1365.54	No Channel	0.35	0.00	1365.89	—	1365.89
1339	1365.65	No Channel	0.16	0.00	1365.81	—	1365.81
1340	1365.92	No Channel	0.00	0.00	1365.92	—	1365.92
1341	1366.24	No Channel	0.00	0.00	1366.24	—	1366.24
1342	1366.79	No Channel	0.00	0.00	1366.79	—	1366.79
1343	1364.84	No Channel	1.34	0.00	1366.18	—	1366.18
1344	1365.53	No Channel	0.67	0.00	1366.20	—	1366.20
1345	1366.72	No Channel	0.00	0.00	1366.72	—	1366.72
1346	1367.68	No Channel	0.00	0.00	1367.68	—	1367.68
1347	1369.24	No Channel	0.00	0.00	1369.24	—	1369.24
1348	1365.08	No Channel	1.39	0.00	1366.47	—	1366.47
1349	1365.62	No Channel	0.88	0.00	1366.50	—	1366.50
1350	1367.18	No Channel	0.00	0.00	1367.18	—	1367.18
1351	1368.46	No Channel	0.00	0.00	1368.46	—	1368.46
1352	1368.97	No Channel	0.00	0.00	1368.97	—	1368.97
1353	1365.28	No Channel	1.40	0.00	1366.68	—	1366.68
1354	1365.88	No Channel	0.78	0.00	1366.66	—	1366.66
1355	1365.65	No Channel	0.98	0.00	1366.63	—	1366.63
1356	1366.42	No Channel	0.14	0.00	1366.56	—	1366.56
1357	1367.15	No Channel	0.00	0.00	1367.15	—	1367.15
1358	1365.48	No Channel	1.43	0.00	1366.91	—	1366.91
1359	1366.12	No Channel	0.74	0.00	1366.86	—	1366.86
1360	1366.78	No Channel	0.16	0.00	1366.94	—	1366.94
1361	1367.27	No Channel	0.00	0.00	1367.27	—	1367.27
1362	1365.67	No Channel	1.48	0.00	1367.15	—	1367.15
1363	1366.34	No Channel	0.79	0.00	1367.13	—	1367.13
1364	1367.51	No Channel	0.00	0.00	1367.51	—	1367.51
1365	1367.86	No Channel	0.00	0.00	1367.86	—	1367.86
1366	1365.87	No Channel	1.48	0.00	1367.35	—	1367.35
1367	1366.50	No Channel	0.88	0.00	1367.38	—	1367.38
1368	1366.94	No Channel	0.53	0.00	1367.47	—	1367.47
1369	1367.26	No Channel	0.22	0.00	1367.48	—	1367.48
1370	1366.06	No Channel	1.38	0.00	1367.44	—	1367.44
1371	1366.72	No Channel	1.01	0.00	1367.73	—	1367.73
1372	1366.49	No Channel	1.02	0.00	1367.51	—	1367.51
1373	1367.13	No Channel	0.35	0.00	1367.48	—	1367.48

Table E-4-P

Summary of proposed conditions FLO-2D model results

Grid Element	Grid Base Elevation feet	Channel Invert feet	FLO-2D Calculated Depths Overland feet	FLO-2D Calculated Depths Channel feet	Floodplain Water Surface Grid feet	Floodplain Water Surface Channel feet	Maximum Water Surface feet
1	1369.54	No Channel	0.00	0.00	1369.54	---	1369.54
2	1369.24	No Channel	0.00	0.00	1369.24	---	1369.24
3	1368.30	No Channel	0.00	0.00	1368.30	---	1368.30
4	1368.38	No Channel	0.00	0.00	1368.38	---	1368.38
5	1370.08	No Channel	0.00	0.00	1370.08	---	1370.08
6	1370.97	No Channel	0.00	0.00	1370.97	---	1370.97
7	1383.74	No Channel	0.00	0.00	1383.74	---	1383.74
8	1383.33	No Channel	0.00	0.00	1383.33	---	1383.33
9	1383.07	No Channel	0.00	0.00	1383.07	---	1383.07
10	1383.87	No Channel	0.00	0.00	1383.87	---	1383.87
11	1384.90	No Channel	0.00	0.00	1384.90	---	1384.90
12	1385.25	No Channel	0.00	0.00	1385.25	---	1385.25
13	1386.44	No Channel	0.00	0.00	1386.44	---	1386.44
14	1368.91	No Channel	0.00	0.00	1368.91	---	1368.91
15	1368.92	No Channel	0.00	0.00	1368.92	---	1368.92
16	1370.87	No Channel	0.00	0.00	1370.87	---	1370.87
17	1370.86	No Channel	0.00	0.00	1370.86	---	1370.86
18	1371.92	No Channel	0.00	0.00	1371.92	---	1371.92
19	1372.20	No Channel	0.00	0.00	1372.20	---	1372.20
20	1372.63	No Channel	0.00	0.00	1372.63	---	1372.63
21	1373.36	No Channel	0.00	0.00	1373.36	---	1373.36
22	1373.91	No Channel	0.00	0.00	1373.91	---	1373.91
23	1373.93	No Channel	0.00	0.00	1373.93	---	1373.93
24	1372.67	No Channel	0.00	0.00	1372.67	---	1372.67
25	1373.70	No Channel	0.00	0.00	1373.70	---	1373.70
26	1373.47	No Channel	0.00	0.00	1373.47	---	1373.47
27	1373.40	No Channel	0.00	0.00	1373.40	---	1373.40
28	1373.68	No Channel	0.00	0.00	1373.68	---	1373.68
29	1374.32	No Channel	0.00	0.00	1374.32	---	1374.32
30	1374.41	No Channel	0.00	0.00	1374.41	---	1374.41
31	1374.73	No Channel	0.00	0.00	1374.73	---	1374.73
32	1374.73	No Channel	0.00	0.00	1374.73	---	1374.73
33	1375.09	No Channel	0.02	0.00	1375.11	---	1375.11
34	1375.48	No Channel	0.10	0.00	1375.58	---	1375.58
35	1376.04	No Channel	0.10	0.00	1376.14	---	1376.14
36	1376.11	No Channel	0.29	0.00	1376.40	---	1376.40
37	1376.53	No Channel	0.33	0.00	1376.86	---	1376.86
38	1377.20	No Channel	0.37	0.00	1377.57	---	1377.57
39	1378.41	No Channel	0.01	0.00	1378.42	---	1378.42
40	1379.61	No Channel	0.00	0.00	1379.61	---	1379.61
41	1378.69	No Channel	0.12	0.00	1378.81	---	1378.81
42	1377.69	No Channel	1.21	0.00	1378.90	---	1378.90
43	1377.88	No Channel	1.08	0.00	1378.96	---	1378.96
44	1378.61	No Channel	0.61	0.00	1379.22	---	1379.22
45	1379.12	No Channel	0.51	0.00	1379.63	---	1379.63
46	1378.52	No Channel	1.24	0.00	1379.76	---	1379.76
47	1379.42	No Channel	0.53	0.00	1379.95	---	1379.95
48	1378.97	No Channel	1.14	0.00	1380.11	---	1380.11
49	1379.27	No Channel	0.93	0.00	1380.20	---	1380.20
50	1379.90	No Channel	0.52	0.00	1380.42	---	1380.42
51	1380.79	No Channel	0.10	0.00	1380.89	---	1380.89
52	1381.35	No Channel	0.00	0.00	1381.35	---	1381.35
53	1381.06	No Channel	0.28	0.00	1381.34	---	1381.34
54	1381.84	No Channel	0.28	0.00	1382.12	---	1382.12
55	1382.63	No Channel	0.34	0.00	1382.97	---	1382.97
56	1383.56	No Channel	0.20	0.00	1383.76	---	1383.76
57	1384.58	No Channel	0.10	0.00	1384.68	---	1384.68
58	1385.46	No Channel	0.00	0.00	1385.46	---	1385.46
59	1368.14	No Channel	0.00	0.00	1368.14	---	1368.14
60	1368.33	No Channel	0.00	0.00	1368.33	---	1368.33
61	1368.51	No Channel	0.00	0.00	1368.51	---	1368.51
62	1368.65	No Channel	0.02	0.00	1368.67	---	1368.67
63	1368.97	No Channel	0.10	0.00	1369.07	---	1369.07
64	1369.56	No Channel	0.15	0.00	1369.71	---	1369.71
65	1370.02	No Channel	0.34	0.00	1370.36	---	1370.36
66	1370.68	No Channel	0.37	0.00	1371.05	---	1371.05
67	1370.81	No Channel	0.45	0.00	1371.26	---	1371.26
68	1371.14	No Channel	0.34	0.00	1371.48	---	1371.48
69	1371.30	No Channel	0.52	0.00	1371.82	---	1371.82

Table E-4-P

Summary of proposed conditions FLO-2D model results

Grid Element	Grid Base Elevation feet	Channel Invert feet	FLO-2D Calculated Depths Overland feet	FLO-2D Calculated Depths Channel feet	Floodplain Water Surface Grid feet	Floodplain Water Surface Channel feet	Maximum Water Surface feet
70	1371.36	No Channel	0.85	0.00	1372.21	—	1372.21
71	1371.73	No Channel	0.82	0.00	1372.55	—	1372.55
72	1372.00	No Channel	0.84	0.00	1372.84	—	1372.84
73	1372.17	No Channel	0.89	0.00	1373.06	—	1373.06
74	1372.53	No Channel	0.88	0.00	1373.41	—	1373.41
75	1372.94	No Channel	0.84	0.00	1373.78	—	1373.78
76	1373.30	No Channel	0.83	0.00	1374.13	—	1374.13
77	1373.39	No Channel	1.03	0.00	1374.42	—	1374.42
78	1373.65	No Channel	1.03	0.00	1374.68	—	1374.68
79	1373.93	No Channel	0.97	0.00	1374.90	—	1374.90
80	1374.54	No Channel	0.81	0.00	1375.35	—	1375.35
81	1375.19	No Channel	0.77	0.00	1375.96	—	1375.96
82	1375.87	No Channel	0.75	0.00	1376.62	—	1376.62
83	1376.73	No Channel	0.70	0.00	1377.43	—	1377.43
84	1377.28	No Channel	0.80	0.00	1378.08	—	1378.08
85	1377.53	No Channel	1.00	0.00	1378.53	—	1378.53
86	1377.60	No Channel	1.15	0.00	1378.75	—	1378.75
87	1377.77	No Channel	1.09	0.00	1378.86	—	1378.86
88	1378.08	No Channel	0.88	0.00	1378.96	—	1378.96
89	1378.42	No Channel	0.84	0.00	1379.26	—	1379.26
90	1378.49	No Channel	1.11	0.00	1379.60	—	1379.60
91	1378.75	No Channel	1.01	0.00	1379.76	—	1379.76
92	1378.91	No Channel	1.03	0.00	1379.94	—	1379.94
93	1379.16	No Channel	0.95	0.00	1380.11	—	1380.11
94	1379.30	No Channel	0.92	0.00	1380.22	—	1380.22
95	1379.63	No Channel	0.88	0.00	1380.51	—	1380.51
96	1379.96	No Channel	0.86	0.00	1380.82	—	1380.82
97	1380.36	No Channel	0.72	0.00	1381.08	—	1381.08
98	1380.93	No Channel	0.34	0.00	1381.27	—	1381.27
99	1381.70	No Channel	0.34	0.00	1382.04	—	1382.04
100	1383.32	No Channel	0.23	0.00	1383.55	—	1383.55
101	1384.08	No Channel	0.35	0.00	1384.43	—	1384.43
102	1385.11	No Channel	0.17	0.00	1385.28	—	1385.28
103	1386.27	No Channel	0.00	0.00	1386.27	—	1386.27
104	1367.36	No Channel	0.00	0.00	1367.36	—	1367.36
105	1367.34	No Channel	0.10	0.00	1367.44	—	1367.44
106	1368.06	No Channel	0.07	0.00	1368.13	—	1368.13
107	1367.52	No Channel	0.74	0.00	1368.26	—	1368.26
108	1367.75	No Channel	0.54	0.00	1368.29	—	1368.29
109	1368.60	No Channel	0.35	0.00	1368.95	—	1368.95
110	1370.35	No Channel	0.14	0.00	1370.49	—	1370.49
111	1371.40	No Channel	0.00	0.00	1371.40	—	1371.40
112	1371.63	No Channel	0.00	0.00	1371.63	—	1371.63
113	1370.75	No Channel	0.52	0.00	1371.27	—	1371.27
114	1370.97	No Channel	0.65	0.00	1371.62	—	1371.62
115	1371.90	No Channel	0.24	0.00	1372.14	—	1372.14
116	1372.13	No Channel	0.35	0.00	1372.48	—	1372.48
117	1372.46	No Channel	0.21	0.00	1372.67	—	1372.67
118	1372.97	No Channel	0.16	0.00	1373.13	—	1373.13
119	1373.29	No Channel	0.20	0.00	1373.49	—	1373.49
120	1373.38	No Channel	0.25	0.00	1373.63	—	1373.63
121	1373.50	No Channel	0.23	0.00	1373.73	—	1373.73
122	1374.18	No Channel	0.20	0.00	1374.38	—	1374.38
123	1374.13	No Channel	0.55	0.00	1374.68	—	1374.68
124	1374.45	No Channel	0.48	0.00	1374.93	—	1374.93
125	1374.98	No Channel	0.39	0.00	1375.37	—	1375.37
126	1375.54	No Channel	0.47	0.00	1376.01	—	1376.01
127	1376.49	No Channel	0.24	0.00	1376.73	—	1376.73
128	1378.51	No Channel	0.00	0.00	1378.51	—	1378.51
129	1379.07	No Channel	0.00	0.00	1379.07	—	1379.07
130	1377.59	No Channel	0.65	0.00	1378.24	—	1378.24
131	1377.42	No Channel	1.23	0.00	1378.65	—	1378.65
132	1377.80	No Channel	1.01	0.00	1378.81	—	1378.81
133	1377.86	No Channel	0.99	0.00	1378.85	—	1378.85
134	1379.30	No Channel	0.50	0.00	1379.80	—	1379.80
135	1379.90	No Channel	0.03	0.00	1379.93	—	1379.93
136	1380.09	No Channel	0.10	0.00	1380.19	—	1380.19
137	1380.09	No Channel	0.20	0.00	1380.29	—	1380.29
138	1380.32	No Channel	0.11	0.00	1380.43	—	1380.43

Table E-4-P

Summary of proposed conditions FLO-2D model results

Grid Element	Grid Base Elevation feet	Channel Invert feet	FLO-2D Calculated Depths Overland feet	FLO-2D Calculated Depths Channel feet	Floodplain Water Surface Grid feet	Floodplain Water Surface Channel feet	Maximum Water Surface feet
139	1380.91	No Channel	0.02	0.00	1380.93	—	1380.93
140	1380.70	No Channel	0.34	0.00	1381.04	—	1381.04
141	1380.96	No Channel	0.79	0.00	1381.75	—	1381.75
142	1382.25	No Channel	0.00	0.00	1382.25	—	1382.25
143	1382.74	No Channel	0.00	0.00	1382.74	—	1382.74
144	1383.85	No Channel	0.00	0.00	1383.85	—	1383.85
145	1384.45	No Channel	0.10	0.00	1384.55	—	1384.55
146	1385.00	No Channel	0.20	0.00	1385.20	—	1385.20
147	1385.57	No Channel	0.35	0.00	1385.92	—	1385.92
148	1386.86	No Channel	0.00	0.00	1386.86	—	1386.86
149	1366.79	No Channel	0.27	0.00	1367.06	—	1367.06
150	1366.58	No Channel	0.30	0.00	1366.88	—	1366.88
151	1367.70	No Channel	0.19	0.00	1367.89	—	1367.89
152	1369.58	No Channel	0.00	0.00	1369.58	—	1369.58
153	1369.48	No Channel	0.00	0.00	1369.48	—	1369.48
154	1368.61	No Channel	0.17	0.00	1368.78	—	1368.78
155	1370.75	No Channel	0.00	0.00	1370.75	—	1370.75
156	1371.80	No Channel	0.00	0.00	1371.80	—	1371.80
157	1371.31	No Channel	0.00	0.00	1371.31	—	1371.31
158	1370.47	No Channel	0.67	0.00	1371.14	—	1371.14
159	1370.54	No Channel	0.62	0.00	1371.16	—	1371.16
160	1371.47	No Channel	0.19	0.00	1371.66	—	1371.66
161	1371.54	No Channel	0.37	0.00	1371.91	—	1371.91
162	1372.16	No Channel	0.51	0.00	1372.67	—	1372.67
163	1372.79	No Channel	0.13	0.00	1372.92	—	1372.92
164	1373.20	No Channel	0.10	0.00	1373.30	—	1373.30
165	1372.59	No Channel	0.59	0.00	1373.18	—	1373.18
166	1373.15	No Channel	0.23	0.00	1373.38	—	1373.38
167	1374.57	No Channel	0.00	0.00	1374.57	—	1374.57
168	1373.74	No Channel	1.00	0.00	1374.74	—	1374.74
169	1374.42	No Channel	0.43	0.00	1374.85	—	1374.85
170	1375.11	No Channel	0.00	0.00	1375.11	—	1375.11
171	1375.36	No Channel	0.78	0.00	1376.14	—	1376.14
172	1376.64	No Channel	0.10	0.00	1376.74	—	1376.74
173	1376.22	No Channel	0.60	0.00	1376.82	—	1376.82
174	1376.39	No Channel	0.79	0.00	1377.18	—	1377.18
175	1376.33	No Channel	1.06	0.00	1377.39	—	1377.39
176	1377.29	No Channel	1.01	0.00	1378.30	—	1378.30
177	1377.67	No Channel	0.00	0.00	1377.67	—	1377.67
178	1378.10	No Channel	0.72	0.00	1378.82	—	1378.82
179	1378.90	No Channel	1.11	0.00	1380.01	—	1380.01
180	1379.76	No Channel	0.21	0.00	1379.97	—	1379.97
181	1380.27	No Channel	0.00	0.00	1380.27	—	1380.27
182	1380.35	No Channel	0.15	0.00	1380.50	—	1380.50
183	1380.21	No Channel	0.50	0.00	1380.71	—	1380.71
184	1381.12	No Channel	0.00	0.00	1381.12	—	1381.12
185	1381.69	No Channel	0.20	0.00	1381.89	—	1381.89
186	1383.16	No Channel	0.00	0.00	1383.16	—	1383.16
187	1383.62	No Channel	0.00	0.00	1383.62	—	1383.62
188	1383.59	No Channel	0.00	0.00	1383.59	—	1383.59
189	1383.65	No Channel	0.00	0.00	1383.65	—	1383.65
190	1383.98	No Channel	0.11	0.00	1384.09	—	1384.09
191	1386.08	No Channel	0.00	0.00	1386.08	—	1386.08
192	1386.11	No Channel	0.00	0.00	1386.11	—	1386.11
193	1387.82	No Channel	0.00	0.00	1387.82	—	1387.82
194	1366.40	No Channel	0.56	0.00	1366.96	—	1366.96
195	1366.20	No Channel	0.68	0.00	1366.88	—	1366.88
196	1366.79	No Channel	0.16	0.00	1366.95	—	1366.95
197	1368.33	No Channel	0.00	0.00	1368.33	—	1368.33
198	1368.12	No Channel	0.19	0.00	1368.31	—	1368.31
199	1370.40	No Channel	0.00	0.00	1370.40	—	1370.40
200	1371.75	No Channel	0.00	0.00	1371.75	—	1371.75
201	1371.88	No Channel	0.00	0.00	1371.88	—	1371.88
202	1370.87	No Channel	0.11	0.00	1370.98	—	1370.98
203	1370.33	No Channel	0.67	0.00	1371.00	—	1371.00
204	1370.39	No Channel	0.66	0.00	1371.05	—	1371.05
205	1371.27	No Channel	0.31	0.00	1371.58	—	1371.58
206	1371.32	No Channel	0.51	0.00	1371.83	—	1371.83
207	1372.12	No Channel	0.46	0.00	1372.58	—	1372.58

Table E-4-P

Summary of proposed conditions FLO-2D model results

Grid Element	Grid Base Elevation feet	Channel Invert feet	FLO-2D Calculated Depths		Floodplain Water Surface		Maximum Water Surface feet
			Overland feet	Channel feet	Grid feet	Channel feet	
208	1371.97	No Channel	0.88	0.00	1372.85	—	1372.85
209	1372.27	No Channel	0.80	0.00	1373.07	—	1373.07
210	1372.37	No Channel	0.74	0.00	1373.11	—	1373.11
211	1372.88	No Channel	0.34	0.00	1373.22	—	1373.22
212	1373.23	No Channel	0.05	0.00	1373.28	—	1373.28
213	1373.91	No Channel	0.85	0.00	1374.76	—	1374.76
214	1375.16	No Channel	0.00	0.00	1375.16	—	1375.16
215	1376.33	No Channel	0.00	0.00	1376.33	—	1376.33
216	1375.44	No Channel	0.72	0.00	1376.16	—	1376.16
217	1376.07	No Channel	0.28	0.00	1376.35	—	1376.35
218	1375.42	No Channel	1.06	0.00	1376.48	—	1376.48
219	1375.98	No Channel	0.00	0.00	1375.98	—	1375.98
220	1376.21	No Channel	0.00	0.00	1376.21	—	1376.21
221	1376.84	No Channel	1.06	0.00	1377.90	—	1377.90
222	1377.57	No Channel	0.27	0.00	1377.84	—	1377.84
223	1377.49	No Channel	0.32	0.00	1377.81	—	1377.81
224	1379.10	No Channel	0.99	0.00	1380.09	—	1380.09
225	1379.93	No Channel	0.08	0.00	1380.01	—	1380.01
226	1380.61	No Channel	0.00	0.00	1380.61	—	1380.61
227	1380.54	No Channel	0.00	0.00	1380.54	—	1380.54
228	1380.43	No Channel	0.78	0.00	1381.21	—	1381.21
229	1381.29	No Channel	0.00	0.00	1381.29	—	1381.29
230	1381.61	No Channel	0.00	0.00	1381.61	—	1381.61
231	1382.48	No Channel	0.32	0.00	1382.80	—	1382.80
232	1383.95	No Channel	0.00	0.00	1383.95	—	1383.95
233	1384.48	No Channel	0.00	0.00	1384.48	—	1384.48
234	1385.13	No Channel	0.00	0.00	1385.13	—	1385.13
235	1386.16	No Channel	0.00	0.00	1386.16	—	1386.16
236	1386.93	No Channel	0.00	0.00	1386.93	—	1386.93
237	1386.84	No Channel	0.00	0.00	1386.84	—	1386.84
238	1388.41	No Channel	0.00	0.00	1388.41	—	1388.41
239	1366.35	No Channel	0.64	0.00	1366.99	—	1366.99
240	1366.17	No Channel	0.72	0.00	1366.89	—	1366.89
241	1367.42	No Channel	0.04	0.00	1367.46	—	1367.46
242	1368.09	No Channel	0.10	0.00	1368.19	—	1368.19
243	1368.87	No Channel	0.00	0.00	1368.87	—	1368.87
244	1370.16	No Channel	0.00	0.00	1370.16	—	1370.16
245	1370.59	No Channel	0.00	0.00	1370.59	—	1370.59
246	1370.90	No Channel	0.01	0.00	1370.91	—	1370.91
247	1370.34	No Channel	0.43	0.00	1370.77	—	1370.77
248	1369.98	No Channel	0.81	0.00	1370.79	—	1370.79
249	1370.35	No Channel	0.61	0.00	1370.96	—	1370.96
250	1370.83	No Channel	0.51	0.00	1371.34	—	1371.34
251	1371.23	No Channel	0.58	0.00	1371.81	—	1371.81
252	1371.92	No Channel	0.55	0.00	1372.47	—	1372.47
253	1371.47	No Channel	1.34	0.00	1372.81	—	1372.81
254	1371.91	No Channel	1.14	0.00	1373.05	—	1373.05
255	1372.07	No Channel	1.04	0.00	1373.11	—	1373.11
256	1372.73	No Channel	0.47	0.00	1373.20	—	1373.20
257	1373.48	No Channel	0.00	0.00	1373.48	—	1373.48
258	1374.27	No Channel	0.00	0.00	1374.27	—	1374.27
259	1375.60	No Channel	0.00	0.00	1375.60	—	1375.60
260	1376.75	No Channel	0.00	0.00	1376.75	—	1376.75
261	1376.34	No Channel	0.00	0.00	1376.34	—	1376.34
262	1376.55	No Channel	0.00	0.00	1376.55	—	1376.55
263	1375.23	No Channel	1.14	0.00	1376.37	—	1376.37
264	1375.56	No Channel	0.81	0.00	1376.37	—	1376.37
265	1376.04	No Channel	0.32	0.00	1376.36	—	1376.36
266	1376.35	No Channel	1.46	0.00	1377.81	—	1377.81
267	1376.92	No Channel	0.89	0.00	1377.81	—	1377.81
268	1377.17	No Channel	0.64	0.00	1377.81	—	1377.81
269	1379.20	No Channel	0.95	0.00	1380.15	—	1380.15
270	1380.31	No Channel	0.00	0.00	1380.31	—	1380.31
271	1380.36	No Channel	0.00	0.00	1380.36	—	1380.36
272	1380.70	No Channel	0.00	0.00	1380.70	—	1380.70
273	1380.78	No Channel	0.52	0.00	1381.30	—	1381.30
274	1381.08	No Channel	0.13	0.00	1381.21	—	1381.21
275	1382.01	No Channel	1.12	0.00	1383.13	—	1383.13
276	1382.52	No Channel	0.50	0.00	1383.02	—	1383.02

Table E-4-P

Summary of proposed conditions FLO-2D model results

Grid Element	Grid Base Elevation feet	Channel Invert feet	FLO-2D Calculated Depths		Floodplain Water Surface		Maximum Water Surface feet
			Overland feet	Channel feet	Grid feet	Channel feet	
277	1383.83	No Channel	0.03	0.00	1383.86	—	1383.86
278	1384.15	No Channel	0.06	0.00	1384.21	—	1384.21
279	1385.05	No Channel	0.01	0.00	1385.06	—	1385.06
280	1386.02	No Channel	0.00	0.00	1386.02	—	1386.02
281	1386.60	No Channel	0.01	0.00	1386.61	—	1386.61
282	1386.89	No Channel	0.00	0.00	1386.89	—	1386.89
283	1388.72	No Channel	0.00	0.00	1388.72	—	1388.72
284	1366.42	No Channel	0.47	0.00	1366.89	—	1366.89
285	1366.20	No Channel	0.69	0.00	1366.89	—	1366.89
286	1367.85	No Channel	0.02	0.00	1367.87	—	1367.87
287	1369.45	No Channel	0.00	0.00	1369.45	—	1369.45
288	1369.98	No Channel	0.00	0.00	1369.98	—	1369.98
289	1369.89	No Channel	0.00	0.00	1369.89	—	1369.89
290	1369.36	No Channel	0.48	0.00	1369.84	—	1369.84
291	1370.27	No Channel	0.15	0.00	1370.42	—	1370.42
292	1369.85	No Channel	0.65	0.00	1370.50	—	1370.50
293	1369.92	No Channel	0.68	0.00	1370.60	—	1370.60
294	1370.55	No Channel	0.34	0.00	1370.89	—	1370.89
295	1371.06	No Channel	0.31	0.00	1371.37	—	1371.37
296	1371.38	No Channel	0.32	0.00	1371.70	—	1371.70
297	1371.62	No Channel	0.01	0.00	1371.63	—	1371.63
298	1371.75	No Channel	1.24	0.00	1372.99	—	1372.99
299	1372.03	No Channel	1.00	0.00	1373.03	—	1373.03
300	1372.44	No Channel	0.72	0.00	1373.16	—	1373.16
301	1372.52	No Channel	0.72	0.00	1373.24	—	1373.24
302	1374.06	No Channel	0.00	0.00	1374.06	—	1374.06
303	1374.26	No Channel	0.00	0.00	1374.26	—	1374.26
304	1374.06	No Channel	0.00	0.00	1374.06	—	1374.06
305	1374.47	No Channel	1.30	0.00	1375.77	—	1375.77
306	1374.56	No Channel	1.22	0.00	1375.78	—	1375.78
307	1375.89	No Channel	0.33	0.00	1376.22	—	1376.22
308	1375.41	No Channel	0.93	0.00	1376.34	—	1376.34
309	1375.65	No Channel	0.71	0.00	1376.36	—	1376.36
310	1376.00	No Channel	0.37	0.00	1376.37	—	1376.37
311	1376.70	No Channel	1.05	0.00	1377.75	—	1377.75
312	1377.14	No Channel	0.61	0.00	1377.75	—	1377.75
313	1377.73	No Channel	0.25	0.00	1377.98	—	1377.98
314	1379.30	No Channel	0.88	0.00	1380.18	—	1380.18
315	1379.32	No Channel	0.86	0.00	1380.18	—	1380.18
316	1379.50	No Channel	0.92	0.00	1380.42	—	1380.42
317	1379.47	No Channel	0.99	0.00	1380.46	—	1380.46
318	1380.46	No Channel	1.28	0.00	1381.74	—	1381.74
319	1381.58	No Channel	0.04	0.00	1381.62	—	1381.62
320	1381.96	No Channel	1.24	0.00	1383.20	—	1383.20
321	1382.79	No Channel	0.36	0.00	1383.15	—	1383.15
322	1383.71	No Channel	0.03	0.00	1383.74	—	1383.74
323	1384.15	No Channel	0.17	0.00	1384.32	—	1384.32
324	1384.63	No Channel	0.11	0.00	1384.74	—	1384.74
325	1386.01	No Channel	0.10	0.00	1386.11	—	1386.11
326	1386.28	No Channel	0.19	0.00	1386.47	—	1386.47
327	1386.76	No Channel	0.11	0.00	1386.87	—	1386.87
328	1388.44	No Channel	0.00	0.00	1388.44	—	1388.44
329	1366.39	No Channel	0.51	0.00	1366.90	—	1366.90
330	1366.33	No Channel	0.57	0.00	1366.90	—	1366.90
331	1368.23	No Channel	0.00	0.00	1368.23	—	1368.23
332	1369.29	No Channel	0.00	0.00	1369.29	—	1369.29
333	1369.88	No Channel	0.00	0.00	1369.88	—	1369.88
334	1369.60	No Channel	0.16	0.00	1369.76	—	1369.76
335	1369.07	No Channel	0.73	0.00	1369.80	—	1369.80
336	1369.11	No Channel	0.75	0.00	1369.86	—	1369.86
337	1369.34	No Channel	0.76	0.00	1370.10	—	1370.10
338	1369.68	No Channel	0.57	0.00	1370.25	—	1370.25
339	1370.67	No Channel	0.21	0.00	1370.88	—	1370.88
340	1371.04	No Channel	0.24	0.00	1371.28	—	1371.28
341	1371.44	No Channel	0.13	0.00	1371.57	—	1371.57
342	1371.76	No Channel	0.00	0.00	1371.76	—	1371.76
343	1371.65	No Channel	1.32	0.00	1372.97	—	1372.97
344	1372.09	No Channel	0.90	0.00	1372.99	—	1372.99
345	1372.67	No Channel	0.58	0.00	1373.25	—	1373.25

Table E-4-P

Summary of proposed conditions FLO-2D model results

Grid Element	Grid Base Elevation feet	Channel Invert feet	FLO-2D Calculated Depths		Floodplain Water Surface		Maximum Water Surface feet
			Overland feet	Channel feet	Grid feet	Channel feet	
346	1372.50	No Channel	0.80	0.00	1373.30	—	1373.30
347	1374.46	No Channel	0.00	0.00	1374.46	—	1374.46
348	1374.67	No Channel	0.00	0.00	1374.67	—	1374.67
349	1373.95	No Channel	0.00	0.00	1373.95	—	1373.95
350	1374.69	No Channel	1.04	0.00	1375.73	—	1375.73
351	1375.13	No Channel	0.66	0.00	1375.79	—	1375.79
352	1375.69	No Channel	0.42	0.00	1376.11	—	1376.11
353	1375.51	No Channel	0.77	0.00	1376.28	—	1376.28
354	1375.62	No Channel	0.71	0.00	1376.33	—	1376.33
355	1375.92	No Channel	0.48	0.00	1376.40	—	1376.40
356	1376.76	No Channel	0.76	0.00	1377.52	—	1377.52
357	1377.19	No Channel	0.43	0.00	1377.62	—	1377.62
358	1377.38	No Channel	0.26	0.00	1377.64	—	1377.64
359	1379.35	No Channel	0.87	0.00	1380.22	—	1380.22
360	1378.83	No Channel	1.38	0.00	1380.21	—	1380.21
361	1379.21	No Channel	1.24	0.00	1380.45	—	1380.45
362	1379.43	No Channel	1.02	0.00	1380.45	—	1380.45
363	1381.29	No Channel	0.98	0.00	1382.27	—	1382.27
364	1381.68	No Channel	0.68	0.00	1382.36	—	1382.36
365	1381.99	No Channel	1.29	0.00	1383.28	—	1383.28
366	1382.60	No Channel	0.69	0.00	1383.29	—	1383.29
367	1383.01	No Channel	0.55	0.00	1383.56	—	1383.56
368	1383.86	No Channel	0.47	0.00	1384.33	—	1384.33
369	1384.52	No Channel	0.24	0.00	1384.76	—	1384.76
370	1385.97	No Channel	0.32	0.00	1386.29	—	1386.29
371	1386.77	No Channel	0.01	0.00	1386.78	—	1386.78
372	1386.70	No Channel	0.24	0.00	1386.94	—	1386.94
373	1388.39	No Channel	0.00	0.00	1388.39	—	1388.39
374	1366.42	No Channel	0.49	0.00	1366.91	—	1366.91
375	1366.25	No Channel	0.67	0.00	1366.92	—	1366.92
376	1368.07	No Channel	0.20	0.00	1368.27	—	1368.27
377	1369.09	No Channel	0.00	0.00	1369.09	—	1369.09
378	1369.20	No Channel	0.00	0.00	1369.20	—	1369.20
379	1369.14	No Channel	0.59	0.00	1369.73	—	1369.73
380	1368.69	No Channel	1.06	0.00	1369.75	—	1369.75
381	1369.00	No Channel	0.81	0.00	1369.81	—	1369.81
382	1369.16	No Channel	0.74	0.00	1369.90	—	1369.90
383	1369.54	No Channel	0.48	0.00	1370.02	—	1370.02
384	1370.79	No Channel	0.15	0.00	1370.94	—	1370.94
385	1371.03	No Channel	0.23	0.00	1371.26	—	1371.26
386	1371.38	No Channel	0.23	0.00	1371.61	—	1371.61
387	1371.69	No Channel	0.11	0.00	1371.80	—	1371.80
388	1371.81	No Channel	1.12	0.00	1372.93	—	1372.93
389	1372.22	No Channel	0.72	0.00	1372.94	—	1372.94
390	1372.57	No Channel	0.74	0.00	1373.31	—	1373.31
391	1372.49	No Channel	0.90	0.00	1373.39	—	1373.39
392	1373.38	No Channel	0.25	0.00	1373.63	—	1373.63
393	1373.73	No Channel	1.64	0.00	1375.37	—	1375.37
394	1373.91	No Channel	1.52	0.00	1375.43	—	1375.43
395	1374.92	No Channel	0.73	0.00	1375.65	—	1375.65
396	1375.35	No Channel	0.47	0.00	1375.82	—	1375.82
397	1375.66	No Channel	0.39	0.00	1376.05	—	1376.05
398	1375.66	No Channel	0.51	0.00	1376.17	—	1376.17
399	1375.81	No Channel	0.50	0.00	1376.31	—	1376.31
400	1376.11	No Channel	0.49	0.00	1376.60	—	1376.60
401	1376.91	No Channel	0.34	0.00	1377.25	—	1377.25
402	1377.21	No Channel	0.29	0.00	1377.50	—	1377.50
403	1377.43	No Channel	0.13	0.00	1377.56	—	1377.56
404	1379.20	No Channel	1.04	0.00	1380.24	—	1380.24
405	1378.77	No Channel	1.46	0.00	1380.23	—	1380.23
406	1379.47	No Channel	0.97	0.00	1380.44	—	1380.44
407	1379.60	No Channel	0.85	0.00	1380.45	—	1380.45
408	1381.73	No Channel	0.65	0.00	1382.38	—	1382.38
409	1381.83	No Channel	0.51	0.00	1382.34	—	1382.34
410	1382.08	No Channel	1.25	0.00	1383.33	—	1383.33
411	1382.80	No Channel	0.58	0.00	1383.38	—	1383.38
412	1383.41	No Channel	0.14	0.00	1383.55	—	1383.55
413	1383.85	No Channel	0.62	0.00	1384.47	—	1384.47
414	1385.76	No Channel	0.10	0.00	1385.86	—	1385.86

Table E-4-P

Summary of proposed conditions FLO-2D model results

Grid Element	Grid Base Elevation feet	Channel Invert feet	FLO-2D Calculated Depths		Floodplain Water Surface		Maximum Water Surface feet
			Overland feet	Channel feet	Grid feet	Channel feet	
415	1386.64	No Channel	0.20	0.00	1386.84	---	1386.84
416	1386.63	No Channel	0.31	0.00	1386.94	---	1386.94
417	1386.49	No Channel	0.50	0.00	1386.99	---	1386.99
418	1387.68	No Channel	0.00	0.00	1387.68	---	1387.68
419	1366.46	No Channel	0.45	0.00	1366.91	---	1366.91
420	1366.26	No Channel	0.67	0.00	1366.93	---	1366.93
421	1367.39	No Channel	0.62	0.00	1368.01	---	1368.01
422	1368.09	No Channel	0.82	0.00	1368.91	---	1368.91
423	1368.37	No Channel	0.93	0.00	1369.30	---	1369.30
424	1368.59	No Channel	1.00	0.00	1369.59	---	1369.59
425	1368.64	No Channel	1.06	0.00	1369.70	---	1369.70
426	1369.20	No Channel	0.59	0.00	1369.79	---	1369.79
427	1370.00	No Channel	0.07	0.00	1370.07	---	1370.07
428	1370.56	No Channel	0.10	0.00	1370.66	---	1370.66
429	1370.90	No Channel	0.12	0.00	1371.02	---	1371.02
430	1371.11	No Channel	0.18	0.00	1371.29	---	1371.29
431	1371.45	No Channel	0.21	0.00	1371.66	---	1371.66
432	1371.78	No Channel	0.33	0.00	1372.11	---	1372.11
433	1371.89	No Channel	0.86	0.00	1372.75	---	1372.75
434	1372.07	No Channel	0.89	0.00	1372.96	---	1372.96
435	1372.39	No Channel	0.94	0.00	1373.33	---	1373.33
436	1372.65	No Channel	0.78	0.00	1373.43	---	1373.43
437	1373.55	No Channel	0.50	0.00	1374.05	---	1374.05
438	1374.01	No Channel	1.30	0.00	1375.31	---	1375.31
439	1373.62	No Channel	1.71	0.00	1375.33	---	1375.33
440	1375.10	No Channel	0.55	0.00	1375.65	---	1375.65
441	1375.32	No Channel	0.51	0.00	1375.83	---	1375.83
442	1375.35	No Channel	0.60	0.00	1375.95	---	1375.95
443	1375.74	No Channel	0.38	0.00	1376.12	---	1376.12
444	1376.11	No Channel	0.21	0.00	1376.32	---	1376.32
445	1376.53	No Channel	0.20	0.00	1376.73	---	1376.73
446	1377.18	No Channel	0.10	0.00	1377.28	---	1377.28
447	1377.83	No Channel	0.00	0.00	1377.83	---	1377.83
448	1378.10	No Channel	0.00	0.00	1378.10	---	1378.10
449	1379.30	No Channel	0.95	0.00	1380.25	---	1380.25
450	1379.25	No Channel	1.02	0.00	1380.27	---	1380.27
451	1379.86	No Channel	0.00	0.00	1379.86	---	1379.86
452	1379.94	No Channel	2.90	0.00	1382.84	---	1382.84
453	1382.01	No Channel	1.35	0.00	1383.36	---	1383.36
454	1382.49	No Channel	0.00	0.00	1382.49	---	1382.49
455	1383.00	No Channel	0.42	0.00	1383.42	---	1383.42
456	1383.00	No Channel	0.57	0.00	1383.57	---	1383.57
457	1383.92	No Channel	0.17	0.00	1384.09	---	1384.09
458	1384.42	No Channel	0.54	0.00	1384.96	---	1384.96
459	1384.95	No Channel	0.49	0.00	1385.44	---	1385.44
460	1385.37	No Channel	0.00	0.00	1385.37	---	1385.37
461	1385.63	No Channel	1.40	0.00	1387.03	---	1387.03
462	1385.25	No Channel	1.76	0.00	1387.01	---	1387.01
463	1386.91	No Channel	0.21	0.00	1387.12	---	1387.12
464	1366.38	No Channel	0.51	0.00	1366.89	---	1366.89
465	1366.14	No Channel	0.77	0.00	1366.91	---	1366.91
466	1367.39	No Channel	0.48	0.00	1367.87	---	1367.87
467	1368.40	No Channel	0.41	0.00	1368.81	---	1368.81
468	1368.80	No Channel	0.52	0.00	1369.32	---	1369.32
469	1369.00	No Channel	0.53	0.00	1369.53	---	1369.53
470	1369.30	No Channel	0.41	0.00	1369.71	---	1369.71
471	1370.11	No Channel	0.50	0.00	1370.61	---	1370.61
472	1370.20	1368.50	0.63	2.41	1370.83	1370.91	1370.91
473	1370.50	1368.40	0.38	2.56	1370.88	1370.96	1370.96
474	1370.70	1368.00	0.28	3.01	1370.98	1371.01	1371.01
475	1370.90	1367.50	0.23	3.53	1371.13	1371.03	1371.13
476	1366.50	No Channel	4.91	0.00	1371.41	---	1371.41
477	1366.50	No Channel	4.99	0.00	1371.49	---	1371.49
478	1372.27	No Channel	0.29	0.00	1372.56	---	1372.56
479	1372.52	No Channel	0.20	0.00	1372.72	---	1372.72
480	1373.07	No Channel	0.26	0.00	1373.33	---	1373.33
481	1372.60	No Channel	0.94	0.00	1373.54	---	1373.54
482	1374.03	No Channel	0.20	0.00	1374.23	---	1374.23
483	1374.31	No Channel	0.69	0.00	1375.00	---	1375.00

Table E-4-P

Summary of proposed conditions FLO-2D model results

Grid Element	Grid Base Elevation feet	Channel Invert feet	FLO-2D Calculated Depths		Floodplain Water Surface		Maximum Water Surface feet
			Overland feet	Channel feet	Grid feet	Channel feet	
484	1374.28	No Channel	0.91	0.00	1375.19	---	1375.19
485	1375.34	No Channel	0.30	0.00	1375.64	---	1375.64
486	1375.52	No Channel	0.32	0.00	1375.84	---	1375.84
487	1375.58	No Channel	0.40	0.00	1375.98	---	1375.98
488	1376.02	No Channel	0.28	0.00	1376.30	---	1376.30
489	1376.39	No Channel	0.20	0.00	1376.59	---	1376.59
490	1376.78	No Channel	0.10	0.00	1376.88	---	1376.88
491	1377.71	No Channel	0.00	0.00	1377.71	---	1377.71
492	1378.15	No Channel	0.00	0.00	1378.15	---	1378.15
493	1378.57	No Channel	0.00	0.00	1378.57	---	1378.57
494	1379.64	No Channel	0.64	0.00	1380.28	---	1380.28
495	1379.86	No Channel	0.43	0.00	1380.29	---	1380.29
496	1380.81	No Channel	0.00	0.00	1380.81	---	1380.81
497	1381.02	No Channel	1.82	0.00	1382.84	---	1382.84
498	1381.53	No Channel	2.18	0.00	1383.71	---	1383.71
499	1382.48	No Channel	1.33	0.00	1383.81	---	1383.81
500	1382.66	No Channel	1.21	0.00	1383.87	---	1383.87
501	1383.16	No Channel	0.64	0.00	1383.80	---	1383.80
502	1384.06	No Channel	0.22	0.00	1384.28	---	1384.28
503	1384.29	No Channel	1.18	0.00	1385.47	---	1385.47
504	1384.90	No Channel	0.65	0.00	1385.55	---	1385.55
505	1385.18	No Channel	0.74	0.00	1385.92	---	1385.92
506	1385.66	No Channel	1.37	0.00	1387.03	---	1387.03
507	1384.23	No Channel	2.90	0.00	1387.13	---	1387.13
508	1386.22	No Channel	0.98	0.00	1387.20	---	1387.20
509	1366.41	No Channel	0.44	0.00	1366.85	---	1366.85
510	1366.06	No Channel	0.79	0.00	1366.85	---	1366.85
511	1366.93	No Channel	0.34	0.00	1367.27	---	1367.27
512	1369.52	No Channel	0.00	0.00	1369.52	---	1369.52
513	1369.83	No Channel	0.00	0.00	1369.83	---	1369.83
514	1369.75	No Channel	0.00	0.00	1369.75	---	1369.75
515	1369.72	No Channel	0.00	0.00	1369.72	---	1369.72
516	1368.00	No Channel	1.12	0.00	1369.12	---	1369.12
517	1370.50	No Channel	0.31	0.00	1370.81	---	1370.81
518	1370.00	No Channel	0.87	0.00	1370.87	---	1370.87
519	1370.00	No Channel	0.92	0.00	1370.92	---	1370.92
520	1370.60	No Channel	0.52	0.00	1371.12	---	1371.12
521	1368.50	No Channel	2.90	0.00	1371.40	---	1371.40
522	1369.20	No Channel	2.26	0.00	1371.46	---	1371.46
523	1372.08	No Channel	0.55	0.00	1372.63	---	1372.63
524	1372.65	No Channel	0.32	0.00	1372.97	---	1372.97
525	1373.03	No Channel	0.53	0.00	1373.56	---	1373.56
526	1372.71	No Channel	0.89	0.00	1373.60	---	1373.60
527	1373.58	No Channel	0.43	0.00	1374.01	---	1374.01
528	1374.21	No Channel	0.28	0.00	1374.49	---	1374.49
529	1374.50	No Channel	0.55	0.00	1375.05	---	1375.05
530	1376.43	No Channel	0.00	0.00	1376.43	---	1376.43
531	1376.50	No Channel	0.00	0.00	1376.50	---	1376.50
532	1376.25	No Channel	0.31	0.00	1376.56	---	1376.56
533	1376.28	No Channel	0.35	0.00	1376.63	---	1376.63
534	1376.71	No Channel	0.23	0.00	1376.94	---	1376.94
535	1376.93	No Channel	0.23	0.00	1377.16	---	1377.16
536	1377.30	No Channel	0.10	0.00	1377.40	---	1377.40
537	1378.03	No Channel	0.00	0.00	1378.03	---	1378.03
538	1378.83	No Channel	0.00	0.00	1378.83	---	1378.83
539	1379.55	No Channel	0.74	0.00	1380.29	---	1380.29
540	1380.32	No Channel	0.53	0.00	1380.85	---	1380.85
541	1380.99	No Channel	1.80	0.00	1382.79	---	1382.79
542	1381.32	No Channel	1.52	0.00	1382.84	---	1382.84
543	1381.74	No Channel	1.96	0.00	1383.70	---	1383.70
544	1382.68	No Channel	1.13	0.00	1383.81	---	1383.81
545	1382.58	No Channel	1.34	0.00	1383.92	---	1383.92
546	1382.44	No Channel	1.53	0.00	1383.97	---	1383.97
547	1383.70	No Channel	0.29	0.00	1383.99	---	1383.99
548	1383.66	No Channel	1.75	0.00	1385.41	---	1385.41
549	1384.22	No Channel	1.28	0.00	1385.50	---	1385.50
550	1385.24	No Channel	0.71	0.00	1385.95	---	1385.95
551	1384.50	1381.20	2.56	6.25	1387.06	1387.45	1387.45
552	1384.50	1383.00	2.66	4.90	1387.16	1387.90	1387.90

Table E-4-P

Summary of proposed conditions FLO-2D model results

Grid Element	Grid Base Elevation feet	Channel Invert feet	FLO-2D Calculated Depths		Floodplain Water Surface		Maximum Water Surface feet
			Overland feet	Channel feet	Grid feet	Channel feet	
553	1387.00	1385.10	0.66	2.90	1387.66	1388.00	1388.00
554	1366.29	No Channel	0.50	0.00	1366.79	---	1366.79
555	1366.05	No Channel	0.71	0.00	1366.76	---	1366.76
556	1367.02	No Channel	0.10	0.00	1367.12	---	1367.12
557	1369.55	No Channel	0.00	0.00	1369.55	---	1369.55
558	1369.69	No Channel	0.00	0.00	1369.69	---	1369.69
559	1369.58	No Channel	0.00	0.00	1369.58	---	1369.58
560	1369.53	No Channel	0.00	0.00	1369.53	---	1369.53
561	1368.00	No Channel	1.11	0.00	1369.11	---	1369.11
562	1370.50	No Channel	0.30	0.00	1370.80	---	1370.80
563	1370.00	No Channel	0.85	0.00	1370.85	---	1370.85
564	1370.00	No Channel	0.90	0.00	1370.90	---	1370.90
565	1370.50	No Channel	0.53	0.00	1371.03	---	1371.03
566	1372.20	No Channel	0.00	0.00	1372.20	---	1372.20
567	1369.10	No Channel	2.39	0.00	1371.49	---	1371.49
568	1372.40	No Channel	0.62	0.00	1373.02	---	1373.02
569	1372.61	No Channel	0.46	0.00	1373.07	---	1373.07
570	1372.79	No Channel	0.79	0.00	1373.58	---	1373.58
571	1372.58	No Channel	1.05	0.00	1373.63	---	1373.63
572	1373.75	No Channel	0.21	0.00	1373.96	---	1373.96
573	1374.00	No Channel	0.28	0.00	1374.28	---	1374.28
574	1374.35	No Channel	0.35	0.00	1374.70	---	1374.70
575	1376.57	No Channel	0.00	0.00	1376.57	---	1376.57
576	1376.67	No Channel	0.00	0.00	1376.67	---	1376.67
577	1376.67	No Channel	0.10	0.00	1376.77	---	1376.77
578	1376.37	No Channel	0.45	0.00	1376.82	---	1376.82
579	1376.99	No Channel	0.27	0.00	1377.26	---	1377.26
580	1377.21	No Channel	0.22	0.00	1377.43	---	1377.43
581	1377.64	No Channel	0.10	0.00	1377.74	---	1377.74
582	1377.77	No Channel	0.10	0.00	1377.87	---	1377.87
583	1378.50	No Channel	0.05	0.00	1378.55	---	1378.55
584	1379.60	No Channel	0.66	0.00	1380.26	---	1380.26
585	1379.66	No Channel	0.59	0.00	1380.25	---	1380.25
586	1380.24	No Channel	0.11	0.00	1380.35	---	1380.35
587	1380.96	No Channel	2.05	0.00	1383.01	---	1383.01
588	1381.24	No Channel	2.44	0.00	1383.68	---	1383.68
589	1382.05	No Channel	0.00	0.00	1382.05	---	1382.05
590	1381.44	No Channel	2.58	0.00	1384.02	---	1384.02
591	1380.50	1380.30	3.60	4.04	1384.10	1384.34	1384.34
592	1382.98	1380.48	1.49	4.18	1384.47	1384.66	1384.66
593	1383.00	1380.60	2.13	4.74	1385.13	1385.34	1385.34
594	1383.00	1380.80	2.42	4.93	1385.42	1385.73	1385.73
595	1384.00	1381.00	1.77	4.85	1385.77	1385.85	1385.85
596	1384.69	No Channel	1.76	0.00	1386.45	---	1386.45
597	1384.56	No Channel	2.61	0.00	1387.17	---	1387.17
598	1386.13	No Channel	1.01	0.00	1387.14	---	1387.14
599	1366.05	No Channel	0.66	0.00	1366.71	---	1366.71
600	1366.02	No Channel	0.70	0.00	1366.72	---	1366.72
601	1367.30	No Channel	0.13	0.00	1367.43	---	1367.43
602	1368.00	No Channel	0.10	0.00	1368.10	---	1368.10
603	1368.20	No Channel	0.21	0.00	1368.41	---	1368.41
604	1368.40	No Channel	0.34	0.00	1368.74	---	1368.74
605	1368.60	No Channel	0.59	0.00	1369.19	---	1369.19
606	1368.00	No Channel	1.05	0.00	1369.05	---	1369.05
607	1370.30	No Channel	0.35	0.00	1370.65	---	1370.65
608	1370.00	No Channel	0.71	0.00	1370.71	---	1370.71
609	1370.50	No Channel	0.28	0.00	1370.78	---	1370.78
610	1371.01	No Channel	0.00	0.00	1371.01	---	1371.01
611	1372.20	No Channel	0.00	0.00	1372.20	---	1372.20
612	1369.00	No Channel	2.49	0.00	1371.49	---	1371.49
613	1371.77	No Channel	1.30	0.00	1373.07	---	1373.07
614	1372.77	No Channel	0.68	0.00	1373.45	---	1373.45
615	1372.91	No Channel	0.67	0.00	1373.58	---	1373.58
616	1372.53	No Channel	1.13	0.00	1373.66	---	1373.66
617	1374.19	No Channel	0.00	0.00	1374.19	---	1374.19
618	1374.25	No Channel	0.00	0.00	1374.25	---	1374.25
619	1374.33	No Channel	0.20	0.00	1374.53	---	1374.53
620	1375.68	No Channel	0.11	0.00	1375.79	---	1375.79
621	1375.75	No Channel	0.32	0.00	1376.07	---	1376.07

Table E-4-P

Summary of proposed conditions FLO-2D model results

Grid Element	Grid Base Elevation feet	Channel Invert feet	FLO-2D Calculated Depths		Floodplain Water Surface		Maximum Water Surface feet
			Overland feet	Channel feet	Grid feet	Channel feet	
622	1376.02	No Channel	0.49	0.00	1376.51	---	1376.51
623	1376.40	No Channel	0.43	0.00	1376.83	---	1376.83
624	1376.96	No Channel	0.52	0.00	1377.48	---	1377.48
625	1377.30	No Channel	0.59	0.00	1377.89	---	1377.89
626	1377.87	No Channel	0.10	0.00	1377.97	---	1377.97
627	1378.56	No Channel	0.04	0.00	1378.60	---	1378.60
628	1378.74	No Channel	0.12	0.00	1378.86	---	1378.86
629	1379.55	No Channel	0.67	0.00	1380.22	---	1380.22
630	1380.05	No Channel	0.21	0.00	1380.26	---	1380.26
631	1380.23	No Channel	0.00	0.00	1380.23	---	1380.23
632	1380.86	No Channel	2.15	0.00	1383.01	---	1383.01
633	1381.20	1378.70	2.28	4.87	1383.48	1383.57	1383.57
634	1381.90	1378.70	1.92	5.21	1383.82	1383.91	1383.91
635	1382.00	1379.40	2.10	4.79	1384.10	1384.19	1384.19
636	1381.81	No Channel	2.35	0.00	1384.16	---	1384.16
637	1382.74	No Channel	1.60	0.00	1384.34	---	1384.34
638	1383.18	No Channel	1.89	0.00	1385.07	---	1385.07
639	1383.33	No Channel	1.87	0.00	1385.20	---	1385.20
640	1384.49	No Channel	1.07	0.00	1385.56	---	1385.56
641	1385.26	No Channel	0.53	0.00	1385.79	---	1385.79
642	1385.43	No Channel	1.62	0.00	1387.05	---	1387.05
643	1386.54	No Channel	0.53	0.00	1387.07	---	1387.07
644	1365.90	No Channel	0.78	0.00	1366.68	---	1366.68
645	1365.93	No Channel	0.75	0.00	1366.68	---	1366.68
646	1366.50	No Channel	0.47	0.00	1366.97	---	1366.97
647	1367.00	No Channel	0.71	0.00	1367.71	---	1367.71
648	1367.30	No Channel	0.93	0.00	1368.23	---	1368.23
649	1367.60	No Channel	0.92	0.00	1368.52	---	1368.52
650	1368.20	No Channel	0.75	0.00	1368.95	---	1368.95
651	1369.00	No Channel	0.76	0.00	1369.76	---	1369.76
652	1369.90	No Channel	0.64	0.00	1370.54	---	1370.54
653	1369.90	No Channel	0.76	0.00	1370.66	---	1370.66
654	1370.00	No Channel	0.70	0.00	1370.70	---	1370.70
655	1370.50	No Channel	0.20	0.00	1370.70	---	1370.70
656	1372.20	No Channel	0.00	0.00	1372.20	---	1372.20
657	1369.00	No Channel	2.35	0.00	1371.35	---	1371.35
658	1372.52	No Channel	0.52	0.00	1373.04	---	1373.04
659	1372.16	No Channel	1.31	0.00	1373.47	---	1373.47
660	1372.47	No Channel	1.12	0.00	1373.59	---	1373.59
661	1372.54	No Channel	1.13	0.00	1373.67	---	1373.67
662	1372.57	No Channel	1.24	0.00	1373.81	---	1373.81
663	1373.57	No Channel	0.53	0.00	1374.10	---	1374.10
664	1373.76	No Channel	0.49	0.00	1374.25	---	1374.25
665	1374.52	No Channel	0.29	0.00	1374.81	---	1374.81
666	1375.14	No Channel	0.51	0.00	1375.65	---	1375.65
667	1375.50	No Channel	0.52	0.00	1376.02	---	1376.02
668	1376.48	No Channel	0.30	0.00	1376.78	---	1376.78
669	1377.27	No Channel	0.31	0.00	1377.58	---	1377.58
670	1377.67	No Channel	0.53	0.00	1378.20	---	1378.20
671	1378.02	No Channel	0.57	0.00	1378.59	---	1378.59
672	1378.53	No Channel	0.48	0.00	1379.01	---	1379.01
673	1379.04	No Channel	0.28	0.00	1379.32	---	1379.32
674	1379.55	No Channel	0.56	0.00	1380.11	---	1380.11
675	1380.09	No Channel	0.52	0.00	1380.61	---	1380.61
676	1379.71	No Channel	1.56	0.00	1381.27	---	1381.27
677	1380.50	1378.70	2.32	3.99	1382.82	1382.69	1382.82
678	1381.24	No Channel	2.20	0.00	1383.44	---	1383.44
679	1381.52	No Channel	2.10	0.00	1383.62	---	1383.62
680	1381.71	No Channel	2.22	0.00	1383.93	---	1383.93
681	1381.55	No Channel	2.59	0.00	1384.14	---	1384.14
682	1382.51	No Channel	1.93	0.00	1384.44	---	1384.44
683	1383.13	No Channel	1.83	0.00	1384.96	---	1384.96
684	1383.61	No Channel	1.53	0.00	1385.14	---	1385.14
685	1384.65	No Channel	0.73	0.00	1385.38	---	1385.38
686	1385.31	No Channel	0.66	0.00	1385.97	---	1385.97
687	1386.27	No Channel	0.65	0.00	1386.92	---	1386.92
688	1386.78	No Channel	0.20	0.00	1386.98	---	1386.98
689	1365.83	No Channel	0.83	0.00	1366.66	---	1366.66
690	1365.80	No Channel	0.86	0.00	1366.66	---	1366.66

Table E-4-P

Summary of proposed conditions FLO-2D model results

Grid Element	Grid Base Elevation feet	Channel Invert feet	FLO-2D Calculated Depths Overland feet	FLO-2D Calculated Depths Channel feet	Floodplain Water Surface Grid feet	Floodplain Water Surface Channel feet	Maximum Water Surface feet
691	1362.50	No Channel	4.25	0.00	1366.75	---	1366.75
692	1368.30	No Channel	0.00	0.00	1368.30	---	1368.30
693	1368.80	No Channel	0.00	0.00	1368.80	---	1368.80
694	1369.30	No Channel	0.00	0.00	1369.30	---	1369.30
695	1369.60	No Channel	0.00	0.00	1369.60	---	1369.60
696	1370.00	No Channel	0.00	0.00	1370.00	---	1370.00
697	1370.00	No Channel	0.00	0.00	1370.00	---	1370.00
698	1370.00	No Channel	0.00	0.00	1370.00	---	1370.00
699	1370.00	No Channel	0.00	0.00	1370.00	---	1370.00
700	1370.00	No Channel	0.00	0.00	1370.00	---	1370.00
701	1371.30	No Channel	0.00	0.00	1371.30	---	1371.30
702	1369.00	No Channel	1.75	0.00	1370.75	---	1370.75
703	1373.28	No Channel	0.00	0.00	1373.28	---	1373.28
704	1373.82	No Channel	0.00	0.00	1373.82	---	1373.82
705	1373.70	No Channel	0.00	0.00	1373.70	---	1373.70
706	1372.54	No Channel	1.16	0.00	1373.70	---	1373.70
707	1373.31	No Channel	0.39	0.00	1373.70	---	1373.70
708	1373.95	No Channel	0.20	0.00	1374.15	---	1374.15
709	1373.76	No Channel	0.41	0.00	1374.17	---	1374.17
710	1375.25	No Channel	0.36	0.00	1375.61	---	1375.61
711	1375.69	No Channel	0.23	0.00	1375.92	---	1375.92
712	1375.69	No Channel	0.33	0.00	1376.02	---	1376.02
713	1377.46	No Channel	0.10	0.00	1377.56	---	1377.56
714	1377.89	No Channel	0.12	0.00	1378.01	---	1378.01
715	1378.44	No Channel	0.20	0.00	1378.64	---	1378.64
716	1378.38	No Channel	0.60	0.00	1378.98	---	1378.98
717	1376.98	No Channel	2.35	0.00	1379.33	---	1379.33
718	1377.94	No Channel	1.56	0.00	1379.50	---	1379.50
719	1376.90	No Channel	2.74	0.00	1379.64	---	1379.64
720	1379.62	No Channel	0.83	0.00	1380.45	---	1380.45
721	1379.50	1377.50	1.62	3.62	1381.12	1381.12	1381.12
722	1381.48	No Channel	0.00	0.00	1381.48	---	1381.48
723	1381.79	No Channel	1.73	0.00	1383.52	---	1383.52
724	1381.69	No Channel	1.91	0.00	1383.60	---	1383.60
725	1382.26	No Channel	1.46	0.00	1383.72	---	1383.72
726	1383.96	No Channel	0.20	0.00	1384.16	---	1384.16
727	1384.28	No Channel	0.21	0.00	1384.49	---	1384.49
728	1384.80	No Channel	0.13	0.00	1384.93	---	1384.93
729	1385.60	No Channel	0.00	0.00	1385.60	---	1385.60
730	1386.31	No Channel	0.00	0.00	1386.31	---	1386.31
731	1386.67	No Channel	0.06	0.00	1386.73	---	1386.73
732	1387.12	No Channel	0.00	0.00	1387.12	---	1387.12
733	1389.37	No Channel	0.00	0.00	1389.37	---	1389.37
734	1365.82	No Channel	0.83	0.00	1366.65	---	1366.65
735	1365.63	No Channel	1.03	0.00	1366.66	---	1366.66
736	1362.50	No Channel	4.23	0.00	1366.73	---	1366.73
737	1368.30	No Channel	0.00	0.00	1368.30	---	1368.30
738	1368.30	No Channel	0.00	0.00	1368.30	---	1368.30
739	1369.30	No Channel	0.00	0.00	1369.30	---	1369.30
740	1369.30	No Channel	0.00	0.00	1369.30	---	1369.30
741	1370.00	No Channel	0.00	0.00	1370.00	---	1370.00
742	1370.00	No Channel	0.00	0.00	1370.00	---	1370.00
743	1370.00	No Channel	0.00	0.00	1370.00	---	1370.00
744	1370.00	No Channel	0.00	0.00	1370.00	---	1370.00
745	1370.00	No Channel	0.00	0.00	1370.00	---	1370.00
746	1366.50	No Channel	4.14	0.00	1370.64	---	1370.64
747	1367.00	No Channel	3.66	0.00	1370.66	---	1370.66
748	1372.63	No Channel	0.00	0.00	1372.63	---	1372.63
749	1373.69	No Channel	0.00	0.00	1373.69	---	1373.69
750	1373.83	No Channel	0.00	0.00	1373.83	---	1373.83
751	1372.59	No Channel	1.07	0.00	1373.66	---	1373.66
752	1372.97	No Channel	0.71	0.00	1373.68	---	1373.68
753	1373.79	No Channel	0.20	0.00	1373.99	---	1373.99
754	1374.36	No Channel	0.14	0.00	1374.50	---	1374.50
755	1375.60	No Channel	0.00	0.00	1375.60	---	1375.60
756	1375.64	No Channel	0.10	0.00	1375.74	---	1375.74
757	1375.67	No Channel	0.20	0.00	1375.87	---	1375.87
758	1377.89	No Channel	0.00	0.00	1377.89	---	1377.89
759	1378.21	No Channel	0.00	0.00	1378.21	---	1378.21

Table E-4-P

Summary of proposed conditions FLO-2D model results

Grid Element	Grid Base Elevation feet	Channel Invert feet	FLO-2D Calculated Depths		Floodplain Water Surface		Maximum Water Surface feet
			Overland feet	Channel feet	Grid feet	Channel feet	
760	1378.07	No Channel	0.00	0.00	1378.07	---	1378.07
761	1377.68	No Channel	1.34	0.00	1379.02	---	1379.02
762	1377.74	1374.74	1.49	4.42	1379.23	1379.16	1379.23
763	1377.00	1375.00	2.57	4.72	1379.57	1379.72	1379.72
764	1375.38	1375.18	4.28	4.80	1379.66	1379.98	1379.98
765	1379.06	1375.96	0.97	4.27	1380.03	1380.23	1380.23
766	1381.48	No Channel	0.00	0.00	1381.48	---	1381.48
767	1381.48	No Channel	0.00	0.00	1381.48	---	1381.48
768	1380.34	No Channel	3.23	0.00	1383.57	---	1383.57
769	1380.55	No Channel	3.03	0.00	1383.58	---	1383.58
770	1380.87	No Channel	2.76	0.00	1383.63	---	1383.63
771	1384.08	No Channel	0.10	0.00	1384.18	---	1384.18
772	1384.65	No Channel	0.02	0.00	1384.67	---	1384.67
773	1385.47	No Channel	0.00	0.00	1385.47	---	1385.47
774	1386.06	No Channel	0.00	0.00	1386.06	---	1386.06
775	1386.76	No Channel	0.00	0.00	1386.76	---	1386.76
776	1387.34	No Channel	0.00	0.00	1387.34	---	1387.34
777	1388.01	No Channel	0.00	0.00	1388.01	---	1388.01
778	1389.44	No Channel	0.00	0.00	1389.44	---	1389.44
779	1365.79	No Channel	0.81	0.00	1366.60	---	1366.60
780	1365.46	No Channel	1.17	0.00	1366.63	---	1366.63
781	1363.50	No Channel	3.20	0.00	1366.70	---	1366.70
782	1366.59	1365.20	0.48	2.14	1367.07	1367.34	1367.34
783	1367.02	1365.30	0.23	2.05	1367.25	1367.35	1367.35
784	1367.56	1365.40	0.00	1.96	1367.56	1367.36	1367.56
785	1367.65	1365.50	0.32	1.91	1367.97	1367.41	1367.97
786	1368.50	No Channel	0.95	0.00	1369.45	---	1369.45
787	1368.27	1367.00	1.53	3.14	1369.80	1370.14	1370.14
788	1368.94	1367.01	0.99	3.14	1369.93	1370.15	1370.15
789	1369.23	1367.02	0.81	3.15	1370.04	1370.17	1370.17
790	1369.75	1367.03	0.65	3.18	1370.40	1370.21	1370.40
791	1369.00	1367.04	1.59	3.19	1370.59	1370.23	1370.59
792	1366.50	No Channel	4.21	0.00	1370.71	---	1370.71
793	1372.37	No Channel	1.02	0.00	1373.39	---	1373.39
794	1373.65	No Channel	0.00	0.00	1373.65	---	1373.65
795	1373.75	No Channel	0.00	0.00	1373.75	---	1373.75
796	1372.49	No Channel	1.16	0.00	1373.65	---	1373.65
797	1372.75	No Channel	0.91	0.00	1373.66	---	1373.66
798	1373.51	No Channel	0.53	0.00	1374.04	---	1374.04
799	1373.80	No Channel	0.91	0.00	1374.71	---	1374.71
800	1374.48	No Channel	0.59	0.00	1375.07	---	1375.07
801	1374.85	No Channel	0.43	0.00	1375.28	---	1375.28
802	1375.33	No Channel	0.20	0.00	1375.53	---	1375.53
803	1374.88	No Channel	3.04	0.00	1377.92	---	1377.92
804	1374.57	No Channel	3.40	0.00	1377.97	---	1377.97
805	1376.74	No Channel	1.33	0.00	1378.07	---	1378.07
806	1377.15	1374.45	1.26	4.12	1378.41	1378.57	1378.57
807	1379.70	No Channel	0.00	0.00	1379.70	---	1379.70
808	1379.88	No Channel	0.00	0.00	1379.88	---	1379.88
809	1377.49	No Channel	2.19	0.00	1379.68	---	1379.68
810	1379.23	No Channel	0.40	0.00	1379.63	---	1379.63
811	1379.66	No Channel	0.00	0.00	1379.66	---	1379.66
812	1379.86	No Channel	0.00	0.00	1379.86	---	1379.86
813	1380.23	No Channel	3.34	0.00	1383.57	---	1383.57
814	1380.44	No Channel	3.14	0.00	1383.58	---	1383.58
815	1381.04	No Channel	2.55	0.00	1383.59	---	1383.59
816	1383.85	No Channel	0.01	0.00	1383.86	---	1383.86
817	1384.93	No Channel	0.00	0.00	1384.93	---	1384.93
818	1385.67	No Channel	0.00	0.00	1385.67	---	1385.67
819	1386.36	No Channel	0.00	0.00	1386.36	---	1386.36
820	1387.00	No Channel	0.00	0.00	1387.00	---	1387.00
821	1387.78	No Channel	0.00	0.00	1387.78	---	1387.78
822	1388.79	No Channel	0.00	0.00	1388.79	---	1388.79
823	1389.90	No Channel	0.00	0.00	1389.90	---	1389.90
824	1365.67	No Channel	0.87	0.00	1366.54	---	1366.54
825	1365.20	No Channel	1.37	0.00	1366.57	---	1366.57
826	1365.56	No Channel	1.02	0.00	1366.58	---	1366.58
827	1366.03	No Channel	0.62	0.00	1366.65	---	1366.65
828	1366.51	No Channel	0.50	0.00	1367.01	---	1367.01

Table E-4-P

Summary of proposed conditions FLO-2D model results

Grid Element	Grid Base Elevation feet	Channel Invert feet	FLO-2D Calculated Depths Overland feet	FLO-2D Calculated Depths Channel feet	Floodplain Water Surface Grid feet	Floodplain Water Surface Channel feet	Maximum Water Surface feet
829	1367.11	No Channel	0.38	0.00	1367.49	---	1367.49
830	1367.33	No Channel	0.61	0.00	1367.94	---	1367.94
831	1367.36	No Channel	0.86	0.00	1368.22	---	1368.22
832	1367.86	No Channel	0.60	0.00	1368.46	---	1368.46
833	1368.42	No Channel	0.35	0.00	1368.77	---	1368.77
834	1368.93	No Channel	0.27	0.00	1369.20	---	1369.20
835	1369.56	No Channel	0.20	0.00	1369.76	---	1369.76
836	1370.14	No Channel	0.00	0.00	1370.14	---	1370.14
837	1370.61	No Channel	0.00	0.00	1370.61	---	1370.61
838	1372.61	No Channel	0.78	0.00	1373.39	---	1373.39
839	1373.11	No Channel	0.34	0.00	1373.45	---	1373.45
840	1373.04	No Channel	0.51	0.00	1373.55	---	1373.55
841	1371.97	No Channel	1.66	0.00	1373.63	---	1373.63
842	1373.70	No Channel	0.12	0.00	1373.82	---	1373.82
843	1373.58	No Channel	0.00	0.00	1373.58	---	1373.58
844	1374.10	No Channel	0.57	0.00	1374.67	---	1374.67
845	1374.66	No Channel	0.44	0.00	1375.10	---	1375.10
846	1375.09	No Channel	0.39	0.00	1375.48	---	1375.48
847	1375.57	No Channel	0.21	0.00	1375.78	---	1375.78
848	1374.38	No Channel	3.53	0.00	1377.91	---	1377.91
849	1376.50	1373.00	1.44	4.69	1377.94	1377.69	1377.94
850	1376.70	1373.80	1.34	4.38	1378.04	1378.18	1378.18
851	1376.70	No Channel	1.40	0.00	1378.10	---	1378.10
852	1380.16	No Channel	0.00	0.00	1380.16	---	1380.16
853	1380.06	No Channel	0.00	0.00	1380.06	---	1380.06
854	1378.84	No Channel	0.76	0.00	1379.60	---	1379.60
855	1380.55	No Channel	0.00	0.00	1380.55	---	1380.55
856	1380.55	No Channel	0.00	0.00	1380.55	---	1380.55
857	1380.55	No Channel	0.00	0.00	1380.55	---	1380.55
858	1380.46	No Channel	3.11	0.00	1383.57	---	1383.57
859	1380.66	No Channel	2.91	0.00	1383.57	---	1383.57
860	1381.06	No Channel	2.51	0.00	1383.57	---	1383.57
861	1383.86	No Channel	0.00	0.00	1383.86	---	1383.86
862	1385.05	No Channel	0.00	0.00	1385.05	---	1385.05
863	1385.65	No Channel	0.00	0.00	1385.65	---	1385.65
864	1386.61	No Channel	0.00	0.00	1386.61	---	1386.61
865	1387.40	No Channel	0.00	0.00	1387.40	---	1387.40
866	1388.17	No Channel	0.00	0.00	1388.17	---	1388.17
867	1389.47	No Channel	0.00	0.00	1389.47	---	1389.47
868	1390.77	No Channel	0.00	0.00	1390.77	---	1390.77
869	1365.50	No Channel	1.00	0.00	1366.50	---	1366.50
870	1365.14	No Channel	1.38	0.00	1366.52	---	1366.52
871	1365.61	No Channel	0.93	0.00	1366.54	---	1366.54
872	1366.11	No Channel	0.55	0.00	1366.66	---	1366.66
873	1366.48	No Channel	0.49	0.00	1366.97	---	1366.97
874	1367.06	No Channel	0.37	0.00	1367.43	---	1367.43
875	1367.64	No Channel	0.29	0.00	1367.93	---	1367.93
876	1367.69	No Channel	0.45	0.00	1368.14	---	1368.14
877	1367.98	No Channel	0.32	0.00	1368.30	---	1368.30
878	1368.59	No Channel	0.18	0.00	1368.77	---	1368.77
879	1369.11	No Channel	0.10	0.00	1369.21	---	1369.21
880	1369.63	No Channel	0.07	0.00	1369.70	---	1369.70
881	1370.35	No Channel	0.00	0.00	1370.35	---	1370.35
882	1370.75	No Channel	0.00	0.00	1370.75	---	1370.75
883	1371.69	No Channel	0.00	0.00	1371.69	---	1371.69
884	1372.20	No Channel	0.00	0.00	1372.20	---	1372.20
885	1372.16	No Channel	1.41	0.00	1373.57	---	1373.57
886	1370.50	No Channel	3.09	0.00	1373.59	---	1373.59
887	1373.20	No Channel	0.53	0.00	1373.73	---	1373.73
888	1373.63	No Channel	0.56	0.00	1374.19	---	1374.19
889	1374.13	No Channel	0.52	0.00	1374.65	---	1374.65
890	1374.93	No Channel	0.27	0.00	1375.20	---	1375.20
891	1374.22	No Channel	1.26	0.00	1375.48	---	1375.48
892	1375.16	1372.56	1.03	3.80	1376.19	1376.36	1376.36
893	1375.50	1373.00	2.16	4.43	1377.66	1377.43	1377.66
894	1376.12	No Channel	1.80	0.00	1377.92	---	1377.92
895	1376.13	No Channel	1.88	0.00	1378.01	---	1378.01
896	1376.85	No Channel	1.20	0.00	1378.05	---	1378.05
897	1379.52	No Channel	0.00	0.00	1379.52	---	1379.52

Table E-4-P

Summary of proposed conditions FLO-2D model results

Grid Element	Grid Base Elevation feet	Channel Invert feet	FLO-2D Calculated Depths		Floodplain Water Surface		Maximum Water Surface feet
			Overland feet	Channel feet	Grid feet	Channel feet	
898	1379.64	No Channel	0.00	0.00	1379.64	—	1379.64
899	1379.25	No Channel	0.27	0.00	1379.52	—	1379.52
900	1380.55	No Channel	0.00	0.00	1380.55	—	1380.55
901	1380.55	No Channel	0.00	0.00	1380.55	—	1380.55
902	1380.55	No Channel	0.00	0.00	1380.55	—	1380.55
903	1381.65	No Channel	1.92	0.00	1383.57	—	1383.57
904	1381.98	No Channel	1.59	0.00	1383.57	—	1383.57
905	1382.56	No Channel	1.01	0.00	1383.57	—	1383.57
906	1383.70	No Channel	0.00	0.00	1383.70	—	1383.70
907	1384.93	No Channel	0.00	0.00	1384.93	—	1384.93
908	1385.72	No Channel	0.00	0.00	1385.72	—	1385.72
909	1386.77	No Channel	0.00	0.00	1386.77	—	1386.77
910	1387.67	No Channel	0.00	0.00	1387.67	—	1387.67
911	1388.43	No Channel	0.00	0.00	1388.43	—	1388.43
912	1389.97	No Channel	0.00	0.00	1389.97	—	1389.97
913	1392.54	No Channel	0.00	0.00	1392.54	—	1392.54
914	1365.36	No Channel	1.11	0.00	1366.47	—	1366.47
915	1365.07	No Channel	1.41	0.00	1366.48	—	1366.48
916	1365.82	No Channel	0.70	0.00	1366.52	—	1366.52
917	1366.39	No Channel	0.34	0.00	1366.73	—	1366.73
918	1366.74	No Channel	0.33	0.00	1367.07	—	1367.07
919	1367.07	No Channel	0.29	0.00	1367.36	—	1367.36
920	1367.60	No Channel	0.23	0.00	1367.83	—	1367.83
921	1367.89	No Channel	0.23	0.00	1368.12	—	1368.12
922	1368.02	No Channel	0.27	0.00	1368.29	—	1368.29
923	1368.57	No Channel	0.17	0.00	1368.74	—	1368.74
924	1369.05	No Channel	0.14	0.00	1369.19	—	1369.19
925	1369.64	No Channel	0.10	0.00	1369.74	—	1369.74
926	1370.37	No Channel	0.00	0.00	1370.37	—	1370.37
927	1370.82	No Channel	0.00	0.00	1370.82	—	1370.82
928	1371.31	No Channel	0.00	0.00	1371.31	—	1371.31
929	1371.82	No Channel	0.00	0.00	1371.82	—	1371.82
930	1372.07	No Channel	1.44	0.00	1373.51	—	1373.51
931	1369.45	No Channel	4.11	0.00	1373.56	—	1373.56
932	1373.07	No Channel	0.63	0.00	1373.70	—	1373.70
933	1373.20	1369.60	0.83	4.55	1374.03	1374.15	1374.15
934	1374.00	1370.00	0.62	4.77	1374.62	1374.77	1374.77
935	1373.50	1370.40	1.52	4.68	1375.02	1375.08	1375.08
936	1374.75	1371.55	0.76	4.02	1375.51	1375.57	1375.57
937	1375.55	No Channel	0.38	0.00	1375.93	—	1375.93
938	1377.30	No Channel	0.00	0.00	1377.30	—	1377.30
939	1377.55	No Channel	0.00	0.00	1377.55	—	1377.55
940	1377.74	No Channel	0.00	0.00	1377.74	—	1377.74
941	1378.25	No Channel	0.00	0.00	1378.25	—	1378.25
942	1378.29	No Channel	0.00	0.00	1378.29	—	1378.29
943	1379.80	No Channel	0.00	0.00	1379.80	—	1379.80
944	1379.24	No Channel	0.23	0.00	1379.47	—	1379.47
945	1381.95	No Channel	0.00	0.00	1381.95	—	1381.95
946	1382.30	No Channel	0.00	0.00	1382.30	—	1382.30
947	1382.65	No Channel	0.00	0.00	1382.65	—	1382.65
948	1381.79	No Channel	1.78	0.00	1383.57	—	1383.57
949	1382.76	No Channel	0.81	0.00	1383.57	—	1383.57
950	1383.56	No Channel	0.00	0.00	1383.56	—	1383.56
951	1383.65	No Channel	0.00	0.00	1383.65	—	1383.65
952	1384.33	No Channel	0.00	0.00	1384.33	—	1384.33
953	1385.90	No Channel	0.00	0.00	1385.90	—	1385.90
954	1386.82	No Channel	0.00	0.00	1386.82	—	1386.82
955	1387.74	No Channel	0.04	0.00	1387.78	—	1387.78
956	1388.50	No Channel	0.02	0.00	1388.52	—	1388.52
957	1390.23	No Channel	0.00	0.00	1390.23	—	1390.23
958	1392.38	No Channel	0.00	0.00	1392.38	—	1392.38
959	1365.22	No Channel	1.22	0.00	1366.44	—	1366.44
960	1365.02	No Channel	1.43	0.00	1366.45	—	1366.45
961	1366.11	No Channel	0.38	0.00	1366.49	—	1366.49
962	1366.59	No Channel	0.29	0.00	1366.88	—	1366.88
963	1366.78	No Channel	0.34	0.00	1367.12	—	1367.12
964	1366.93	No Channel	0.36	0.00	1367.29	—	1367.29
965	1367.28	No Channel	0.30	0.00	1367.58	—	1367.58
966	1367.81	No Channel	0.28	0.00	1368.09	—	1368.09

Table E-4-P

Summary of proposed conditions FLO-2D model results

Grid Element	Grid Base Elevation feet	Channel Invert feet	FLO-2D Calculated Depths		Floodplain Water Surface		Maximum Water Surface feet
			Overland feet	Channel feet	Grid feet	Channel feet	
967	1368.19	No Channel	0.24	0.00	1368.43	—	1368.43
968	1368.51	No Channel	0.25	0.00	1368.76	—	1368.76
969	1369.11	No Channel	0.22	0.00	1369.33	—	1369.33
970	1369.53	No Channel	0.21	0.00	1369.74	—	1369.74
971	1370.04	No Channel	0.12	0.00	1370.16	—	1370.16
972	1370.26	No Channel	0.11	0.00	1370.37	—	1370.37
973	1371.00	1367.70	2.29	5.39	1373.29	1373.09	1373.29
974	1371.50	1368.30	1.92	4.99	1373.42	1373.29	1373.42
975	1371.92	1368.62	1.59	4.86	1373.51	1373.48	1373.51
976	1369.20	1369.00	4.37	4.56	1373.57	1373.56	1373.57
977	1372.45	1369.25	1.13	4.50	1373.58	1373.75	1373.75
978	1373.36	No Channel	0.00	0.00	1373.36	—	1373.36
979	1373.95	No Channel	0.57	0.00	1374.52	—	1374.52
980	1375.92	No Channel	0.00	0.00	1375.92	—	1375.92
981	1377.24	No Channel	0.00	0.00	1377.24	—	1377.24
982	1375.86	No Channel	0.01	0.00	1375.87	—	1375.87
983	1377.17	No Channel	0.00	0.00	1377.17	—	1377.17
984	1377.51	No Channel	0.00	0.00	1377.51	—	1377.51
985	1377.79	No Channel	0.00	0.00	1377.79	—	1377.79
986	1378.11	No Channel	0.00	0.00	1378.11	—	1378.11
987	1378.17	No Channel	0.00	0.00	1378.17	—	1378.17
988	1379.54	No Channel	0.00	0.00	1379.54	—	1379.54
989	1379.23	No Channel	0.13	0.00	1379.36	—	1379.36
990	1381.95	No Channel	0.00	0.00	1381.95	—	1381.95
991	1382.30	No Channel	0.00	0.00	1382.30	—	1382.30
992	1382.65	No Channel	0.00	0.00	1382.65	—	1382.65
993	1382.22	No Channel	1.34	0.00	1383.56	—	1383.56
994	1383.14	No Channel	0.42	0.00	1383.56	—	1383.56
995	1383.64	No Channel	0.00	0.00	1383.64	—	1383.64
996	1383.65	No Channel	0.00	0.00	1383.65	—	1383.65
997	1384.82	No Channel	0.00	0.00	1384.82	—	1384.82
998	1385.92	No Channel	0.00	0.00	1385.92	—	1385.92
999	1386.12	No Channel	0.00	0.00	1386.12	—	1386.12
1000	1387.59	No Channel	0.10	0.00	1387.69	—	1387.69
1001	1388.75	No Channel	0.12	0.00	1388.87	—	1388.87
1002	1390.39	No Channel	0.00	0.00	1390.39	—	1390.39
1003	1391.01	No Channel	0.00	0.00	1391.01	—	1391.01
1004	1365.14	No Channel	1.28	0.00	1366.42	—	1366.42
1005	1365.03	No Channel	1.33	0.00	1366.36	—	1366.36
1006	1366.04	No Channel	0.41	0.00	1366.45	—	1366.45
1007	1366.55	No Channel	0.28	0.00	1366.83	—	1366.83
1008	1366.71	No Channel	0.43	0.00	1367.14	—	1367.14
1009	1366.78	No Channel	0.48	0.00	1367.26	—	1367.26
1010	1367.15	No Channel	0.38	0.00	1367.53	—	1367.53
1011	1367.75	No Channel	0.31	0.00	1368.06	—	1368.06
1012	1368.03	No Channel	0.39	0.00	1368.42	—	1368.42
1013	1368.33	No Channel	0.44	0.00	1368.77	—	1368.77
1014	1368.75	No Channel	0.37	0.00	1369.12	—	1369.12
1015	1369.00	1366.40	0.66	3.39	1369.66	1369.79	1369.79
1016	1369.60	1366.90	0.56	3.45	1370.16	1370.35	1370.35
1017	1370.23	1367.33	0.27	3.27	1370.50	1370.60	1370.60
1018	1369.65	No Channel	0.00	0.00	1369.65	—	1369.65
1019	1372.57	No Channel	0.00	0.00	1372.57	—	1372.57
1020	1373.29	No Channel	0.00	0.00	1373.29	—	1373.29
1021	1370.15	No Channel	3.31	0.00	1373.46	—	1373.46
1022	1372.95	No Channel	0.53	0.00	1373.48	—	1373.48
1023	1373.38	No Channel	0.31	0.00	1373.69	—	1373.69
1024	1374.05	No Channel	0.20	0.00	1374.25	—	1374.25
1025	1376.98	No Channel	0.00	0.00	1376.98	—	1376.98
1026	1377.29	No Channel	0.00	0.00	1377.29	—	1377.29
1027	1375.27	No Channel	0.17	0.00	1375.44	—	1375.44
1028	1375.82	No Channel	0.00	0.00	1375.82	—	1375.82
1029	1376.28	No Channel	0.00	0.00	1376.28	—	1376.28
1030	1376.80	No Channel	0.00	0.00	1376.80	—	1376.80
1031	1377.63	No Channel	0.00	0.00	1377.63	—	1377.63
1032	1378.30	No Channel	0.00	0.00	1378.30	—	1378.30
1033	1378.66	No Channel	0.10	0.00	1378.76	—	1378.76
1034	1379.24	No Channel	0.07	0.00	1379.31	—	1379.31
1035	1379.80	No Channel	0.00	0.00	1379.80	—	1379.80

Table E-4-P

Summary of proposed conditions FLO-2D model results

Grid Element	Grid Base Elevation feet	Channel Invert feet	FLO-2D Calculated Depths		Floodplain Water Surface		Maximum Water Surface feet
			Overland feet	Channel feet	Grid feet	Channel feet	
1036	1381.15	No Channel	0.00	0.00	1381.15	—	1381.15
1037	1382.55	No Channel	0.00	0.00	1382.55	—	1382.55
1038	1383.04	No Channel	0.52	0.00	1383.56	—	1383.56
1039	1383.52	No Channel	0.00	0.00	1383.52	—	1383.52
1040	1383.88	No Channel	0.00	0.00	1383.88	—	1383.88
1041	1383.99	No Channel	0.00	0.00	1383.99	—	1383.99
1042	1385.70	No Channel	0.00	0.00	1385.70	—	1385.70
1043	1386.38	No Channel	0.00	0.00	1386.38	—	1386.38
1044	1388.05	No Channel	0.00	0.00	1388.05	—	1388.05
1045	1388.94	No Channel	0.01	0.00	1388.95	—	1388.95
1046	1389.08	No Channel	0.10	0.00	1389.18	—	1389.18
1047	1390.19	No Channel	0.13	0.00	1390.32	—	1390.32
1048	1392.72	No Channel	0.00	0.00	1392.72	—	1392.72
1049	1365.15	No Channel	1.18	0.00	1366.33	—	1366.33
1050	1364.94	No Channel	1.20	0.00	1366.14	—	1366.14
1051	1365.68	No Channel	0.56	0.00	1366.24	—	1366.24
1052	1366.39	No Channel	0.44	0.00	1366.83	—	1366.83
1053	1366.35	No Channel	0.81	0.00	1367.16	—	1367.16
1054	1366.53	No Channel	0.71	0.00	1367.24	—	1367.24
1055	1366.84	No Channel	0.61	0.00	1367.45	—	1367.45
1056	1367.36	No Channel	0.57	0.00	1367.93	—	1367.93
1057	1367.76	No Channel	0.64	0.00	1368.40	—	1368.40
1058	1368.12	No Channel	0.66	0.00	1368.78	—	1368.78
1059	1368.10	1365.70	1.02	3.56	1369.12	1369.26	1369.26
1060	1369.09	No Channel	0.58	0.00	1369.67	—	1369.67
1061	1369.65	No Channel	0.29	0.00	1369.94	—	1369.94
1062	1370.53	No Channel	0.00	0.00	1370.53	—	1370.53
1063	1370.86	No Channel	0.00	0.00	1370.86	—	1370.86
1064	1373.15	No Channel	0.00	0.00	1373.15	—	1373.15
1065	1373.30	No Channel	0.00	0.00	1373.30	—	1373.30
1066	1371.60	No Channel	1.75	0.00	1373.35	—	1373.35
1067	1373.67	No Channel	0.00	0.00	1373.67	—	1373.67
1068	1373.74	No Channel	0.00	0.00	1373.74	—	1373.74
1069	1373.76	No Channel	0.19	0.00	1373.95	—	1373.95
1070	1374.91	No Channel	0.00	0.00	1374.91	—	1374.91
1071	1375.68	No Channel	0.00	0.00	1375.68	—	1375.68
1072	1375.35	No Channel	0.04	0.00	1375.39	—	1375.39
1073	1375.41	No Channel	0.00	0.00	1375.41	—	1375.41
1074	1376.98	No Channel	0.00	0.00	1376.98	—	1376.98
1075	1377.35	No Channel	0.00	0.00	1377.35	—	1377.35
1076	1378.22	No Channel	0.00	0.00	1378.22	—	1378.22
1077	1378.32	No Channel	0.00	0.00	1378.32	—	1378.32
1078	1379.52	No Channel	0.00	0.00	1379.52	—	1379.52
1079	1379.50	No Channel	0.00	0.00	1379.50	—	1379.50
1080	1381.70	No Channel	0.00	0.00	1381.70	—	1381.70
1081	1382.60	No Channel	0.00	0.00	1382.60	—	1382.60
1082	1383.55	No Channel	0.00	0.00	1383.55	—	1383.55
1083	1383.51	No Channel	0.00	0.00	1383.51	—	1383.51
1084	1383.74	No Channel	0.00	0.00	1383.74	—	1383.74
1085	1384.07	No Channel	0.00	0.00	1384.07	—	1384.07
1086	1384.43	No Channel	0.00	0.00	1384.43	—	1384.43
1087	1385.47	No Channel	0.00	0.00	1385.47	—	1385.47
1088	1388.08	No Channel	0.00	0.00	1388.08	—	1388.08
1089	1391.03	No Channel	0.00	0.00	1391.03	—	1391.03
1090	1391.04	No Channel	0.00	0.00	1391.04	—	1391.04
1091	1391.11	No Channel	0.00	0.00	1391.11	—	1391.11
1092	1390.53	No Channel	0.00	0.00	1390.53	—	1390.53
1093	1394.13	No Channel	0.00	0.00	1394.13	—	1394.13
1094	1364.88	No Channel	1.04	0.00	1365.92	—	1365.92
1095	1364.94	No Channel	1.10	0.00	1366.04	—	1366.04
1096	1365.29	No Channel	0.76	0.00	1366.05	—	1366.05
1097	1365.06	No Channel	1.17	0.00	1366.23	—	1366.23
1098	1364.85	No Channel	1.53	0.00	1366.38	—	1366.38
1099	1364.68	No Channel	1.79	0.00	1366.47	—	1366.47
1100	1364.61	No Channel	1.89	0.00	1366.50	—	1366.50
1101	1364.94	No Channel	1.56	0.00	1366.50	—	1366.50
1102	1367.00	No Channel	1.22	0.00	1368.22	—	1368.22
1103	1367.50	1364.70	0.87	3.89	1368.37	1368.59	1368.59
1104	1368.36	No Channel	0.00	0.00	1368.36	—	1368.36

Table E-4-P

Summary of proposed conditions FLO-2D model results

Grid Element	Grid Base Elevation feet	Channel Invert feet	FLO-2D Calculated Depths		Floodplain Water Surface		Maximum Water Surface feet
			Overland feet	Channel feet	Grid feet	Channel feet	
1105	1369.10	No Channel	0.00	0.00	1369.10	—	1369.10
1106	1369.32	No Channel	0.00	0.00	1369.32	—	1369.32
1107	1368.79	No Channel	0.00	0.00	1368.79	—	1368.79
1108	1370.60	No Channel	0.00	0.00	1370.60	—	1370.60
1109	1372.13	No Channel	0.00	0.00	1372.13	—	1372.13
1110	1372.05	No Channel	0.00	0.00	1372.05	—	1372.05
1111	1372.64	No Channel	0.42	0.00	1373.06	—	1373.06
1112	1373.82	No Channel	0.00	0.00	1373.82	—	1373.82
1113	1373.76	No Channel	0.00	0.00	1373.76	—	1373.76
1114	1373.78	No Channel	0.11	0.00	1373.89	—	1373.89
1115	1375.04	No Channel	0.00	0.00	1375.04	—	1375.04
1116	1375.80	No Channel	0.00	0.00	1375.80	—	1375.80
1117	1375.14	No Channel	0.04	0.00	1375.18	—	1375.18
1118	1374.91	No Channel	0.00	0.00	1374.91	—	1374.91
1119	1376.98	No Channel	0.00	0.00	1376.98	—	1376.98
1120	1376.91	No Channel	0.00	0.00	1376.91	—	1376.91
1121	1378.11	No Channel	0.00	0.00	1378.11	—	1378.11
1122	1377.96	No Channel	0.00	0.00	1377.96	—	1377.96
1123	1379.69	No Channel	0.00	0.00	1379.69	—	1379.69
1124	1379.66	No Channel	0.00	0.00	1379.66	—	1379.66
1125	1381.70	No Channel	0.00	0.00	1381.70	—	1381.70
1126	1382.60	No Channel	0.00	0.00	1382.60	—	1382.60
1127	1383.55	No Channel	0.00	0.00	1383.55	—	1383.55
1128	1384.52	No Channel	0.00	0.00	1384.52	—	1384.52
1129	1385.19	No Channel	0.00	0.00	1385.19	—	1385.19
1130	1385.99	No Channel	0.00	0.00	1385.99	—	1385.99
1131	1385.97	No Channel	0.00	0.00	1385.97	—	1385.97
1132	1386.55	No Channel	0.00	0.00	1386.55	—	1386.55
1133	1389.01	No Channel	0.00	0.00	1389.01	—	1389.01
1134	1391.08	No Channel	0.00	0.00	1391.08	—	1391.08
1135	1391.11	No Channel	0.00	0.00	1391.11	—	1391.11
1136	1391.45	No Channel	0.00	0.00	1391.45	—	1391.45
1137	1391.98	No Channel	0.00	0.00	1391.98	—	1391.98
1138	1394.88	No Channel	0.00	0.00	1394.88	—	1394.88
1139	1364.79	No Channel	0.90	0.00	1365.69	—	1365.69
1140	1365.04	No Channel	0.94	0.00	1365.98	—	1365.98
1141	1366.01	No Channel	0.00	0.00	1366.01	—	1366.01
1142	1365.46	No Channel	0.00	0.00	1365.46	—	1365.46
1143	1365.74	No Channel	0.00	0.00	1365.74	—	1365.74
1144	1366.15	No Channel	0.32	0.00	1366.47	—	1366.47
1145	1364.47	No Channel	2.03	0.00	1366.50	—	1366.50
1146	1364.30	1364.10	2.24	2.55	1366.54	1366.65	1366.65
1147	1367.25	1364.45	0.24	2.74	1367.49	1367.19	1367.49
1148	1367.55	No Channel	0.45	0.00	1368.00	—	1368.00
1149	1367.96	No Channel	0.17	0.00	1368.13	—	1368.13
1150	1368.41	No Channel	0.00	0.00	1368.41	—	1368.41
1151	1369.60	No Channel	0.00	0.00	1369.60	—	1369.60
1152	1370.40	No Channel	0.00	0.00	1370.40	—	1370.40
1153	1371.45	No Channel	0.00	0.00	1371.45	—	1371.45
1154	1373.63	No Channel	0.00	0.00	1373.63	—	1373.63
1155	1373.24	No Channel	0.00	0.00	1373.24	—	1373.24
1156	1372.03	No Channel	0.32	0.00	1372.35	—	1372.35
1157	1373.63	No Channel	0.00	0.00	1373.63	—	1373.63
1158	1373.61	No Channel	0.04	0.00	1373.65	—	1373.65
1159	1373.56	No Channel	0.00	0.00	1373.56	—	1373.56
1160	1375.44	No Channel	0.00	0.00	1375.44	—	1375.44
1161	1376.00	No Channel	0.00	0.00	1376.00	—	1376.00
1162	1374.95	No Channel	0.09	0.00	1375.04	—	1375.04
1163	1375.70	No Channel	0.00	0.00	1375.70	—	1375.70
1164	1378.00	No Channel	0.00	0.00	1378.00	—	1378.00
1165	1378.51	No Channel	0.00	0.00	1378.51	—	1378.51
1166	1379.39	No Channel	0.00	0.00	1379.39	—	1379.39
1167	1380.68	No Channel	0.00	0.00	1380.68	—	1380.68
1168	1382.38	No Channel	0.00	0.00	1382.38	—	1382.38
1169	1382.47	No Channel	0.00	0.00	1382.47	—	1382.47
1170	1384.05	No Channel	0.00	0.00	1384.05	—	1384.05
1171	1385.30	No Channel	0.00	0.00	1385.30	—	1385.30
1172	1386.50	No Channel	0.00	0.00	1386.50	—	1386.50
1173	1385.58	No Channel	0.00	0.00	1385.58	—	1385.58

Table E-4-P

Summary of proposed conditions FLO-2D model results

Grid Element	Grid Base Elevation feet	Channel Invert feet	FLO-2D Calculated Depths Overland feet	FLO-2D Calculated Depths Channel feet	Floodplain Water Surface Grid feet	Floodplain Water Surface Channel feet	Maximum Water Surface feet
1174	1386.05	No Channel	0.00	0.00	1386.05	—	1386.05
1175	1386.73	No Channel	0.00	0.00	1386.73	—	1386.73
1176	1386.83	No Channel	0.00	0.00	1386.83	—	1386.83
1177	1388.13	No Channel	0.00	0.00	1388.13	—	1388.13
1178	1389.79	No Channel	0.00	0.00	1389.79	—	1389.79
1179	1391.16	No Channel	0.00	0.00	1391.16	—	1391.16
1180	1391.29	No Channel	0.00	0.00	1391.29	—	1391.29
1181	1391.59	No Channel	0.00	0.00	1391.59	—	1391.59
1182	1393.52	No Channel	0.00	0.00	1393.52	—	1393.52
1183	1398.54	No Channel	0.00	0.00	1398.54	—	1398.54
1184	1364.77	No Channel	0.71	0.00	1365.48	—	1365.48
1185	1365.12	No Channel	0.79	0.00	1365.91	—	1365.91
1186	1365.97	No Channel	0.10	0.00	1366.07	—	1366.07
1187	1365.70	No Channel	0.00	0.00	1365.70	—	1365.70
1188	1365.51	No Channel	0.00	0.00	1365.51	—	1365.51
1189	1364.83	1363.93	1.64	2.44	1366.47	1366.37	1366.47
1190	1364.20	1364.00	2.31	2.55	1366.51	1366.55	1366.55
1191	1365.31	No Channel	1.25	0.00	1366.56	—	1366.56
1192	1367.26	No Channel	0.10	0.00	1367.36	—	1367.36
1193	1367.23	No Channel	0.20	0.00	1367.43	—	1367.43
1194	1367.41	No Channel	0.20	0.00	1367.61	—	1367.61
1195	1368.36	No Channel	0.00	0.00	1368.36	—	1368.36
1196	1368.77	No Channel	0.00	0.00	1368.77	—	1368.77
1197	1370.36	No Channel	0.00	0.00	1370.36	—	1370.36
1198	1371.24	No Channel	0.00	0.00	1371.24	—	1371.24
1199	1372.74	No Channel	0.00	0.00	1372.74	—	1372.74
1200	1372.80	No Channel	0.00	0.00	1372.80	—	1372.80
1201	1370.76	No Channel	0.25	0.00	1371.01	—	1371.01
1202	1373.25	No Channel	0.00	0.00	1373.25	—	1373.25
1203	1373.51	No Channel	0.00	0.00	1373.51	—	1373.51
1204	1373.56	No Channel	0.00	0.00	1373.56	—	1373.56
1205	1375.22	No Channel	0.00	0.00	1375.22	—	1375.22
1206	1375.94	No Channel	0.00	0.00	1375.94	—	1375.94
1207	1374.93	No Channel	0.00	0.00	1374.93	—	1374.93
1208	1375.90	No Channel	0.00	0.00	1375.90	—	1375.90
1209	1378.08	No Channel	0.00	0.00	1378.08	—	1378.08
1210	1378.58	No Channel	0.00	0.00	1378.58	—	1378.58
1211	1379.45	No Channel	0.00	0.00	1379.45	—	1379.45
1212	1380.73	No Channel	0.00	0.00	1380.73	—	1380.73
1213	1382.40	No Channel	0.00	0.00	1382.40	—	1382.40
1214	1382.63	No Channel	0.00	0.00	1382.63	—	1382.63
1215	1384.05	No Channel	0.00	0.00	1384.05	—	1384.05
1216	1385.30	No Channel	0.00	0.00	1385.30	—	1385.30
1217	1386.50	No Channel	0.00	0.00	1386.50	—	1386.50
1218	1386.77	No Channel	0.00	0.00	1386.77	—	1386.77
1219	1387.16	No Channel	0.00	0.00	1387.16	—	1387.16
1220	1387.04	No Channel	0.00	0.00	1387.04	—	1387.04
1221	1388.11	No Channel	0.00	0.00	1388.11	—	1388.11
1222	1389.65	No Channel	0.00	0.00	1389.65	—	1389.65
1223	1390.83	No Channel	0.00	0.00	1390.83	—	1390.83
1224	1391.76	No Channel	0.00	0.00	1391.76	—	1391.76
1225	1392.01	No Channel	0.00	0.00	1392.01	—	1392.01
1226	1391.85	No Channel	0.00	0.00	1391.85	—	1391.85
1227	1395.34	No Channel	0.00	0.00	1395.34	—	1395.34
1228	1398.31	No Channel	0.00	0.00	1398.31	—	1398.31
1229	1364.95	No Channel	0.45	0.00	1365.40	—	1365.40
1230	1365.45	No Channel	0.49	0.00	1365.94	—	1365.94
1231	1364.85	No Channel	1.27	0.00	1366.12	—	1366.12
1232	1364.34	No Channel	1.90	0.00	1366.24	—	1366.24
1233	1363.98	1363.78	2.37	2.43	1366.35	1366.21	1366.35
1234	1364.24	No Channel	2.21	0.00	1366.45	—	1366.45
1235	1365.12	No Channel	1.41	0.00	1366.53	—	1366.53
1236	1365.80	No Channel	0.81	0.00	1366.61	—	1366.61
1237	1366.16	No Channel	0.63	0.00	1366.79	—	1366.79
1238	1366.41	No Channel	0.61	0.00	1367.02	—	1367.02
1239	1366.60	No Channel	0.59	0.00	1367.19	—	1367.19
1240	1366.89	No Channel	0.53	0.00	1367.42	—	1367.42
1241	1367.25	No Channel	0.51	0.00	1367.76	—	1367.76
1242	1367.60	No Channel	0.51	0.00	1368.11	—	1368.11

Table E-4-P

Summary of proposed conditions FLO-2D model results

Grid Element	Grid Base Elevation feet	Channel Invert feet	FLO-2D Calculated Depths		Floodplain Water Surface		Maximum Water Surface feet
			Overland feet	Channel feet	Grid feet	Channel feet	
1243	1367.99	No Channel	0.50	0.00	1368.49	—	1368.49
1244	1368.52	No Channel	0.48	0.00	1369.00	—	1369.00
1245	1369.08	No Channel	0.48	0.00	1369.56	—	1369.56
1246	1365.22	No Channel	0.19	0.00	1365.41	—	1365.41
1247	1365.92	No Channel	0.10	0.00	1366.02	—	1366.02
1248	1365.80	1362.00	0.18	3.26	1365.98	1365.26	1365.98
1249	1365.00	1362.70	1.07	3.10	1366.07	1365.80	1366.07
1250	1367.32	No Channel	0.00	0.00	1367.32	—	1367.32
1251	1367.56	No Channel	0.00	0.00	1367.56	—	1367.56
1252	1367.86	No Channel	0.00	0.00	1367.86	—	1367.86
1253	1367.88	No Channel	0.00	0.00	1367.88	—	1367.88
1254	1367.60	No Channel	0.00	0.00	1367.60	—	1367.60
1255	1367.64	No Channel	0.00	0.00	1367.64	—	1367.64
1256	1367.95	No Channel	0.00	0.00	1367.95	—	1367.95
1257	1368.22	No Channel	0.00	0.00	1368.22	—	1368.22
1258	1368.61	No Channel	0.00	0.00	1368.61	—	1368.61
1259	1369.24	No Channel	0.00	0.00	1369.24	—	1369.24
1260	1369.92	No Channel	0.00	0.00	1369.92	—	1369.92
1261	1370.22	No Channel	0.00	0.00	1370.22	—	1370.22
1262	1370.44	No Channel	0.00	0.00	1370.44	—	1370.44
1263	1365.43	No Channel	0.03	0.00	1365.46	—	1365.46
1264	1366.01	1361.31	0.00	3.92	1366.01	1365.23	1366.01
1265	1366.49	No Channel	0.00	0.00	1366.49	—	1366.49
1266	1367.13	No Channel	0.00	0.00	1367.13	—	1367.13
1267	1367.32	No Channel	0.00	0.00	1367.32	—	1367.32
1268	1367.82	No Channel	0.00	0.00	1367.82	—	1367.82
1269	1368.10	No Channel	0.00	0.00	1368.10	—	1368.10
1270	1367.89	No Channel	0.00	0.00	1367.89	—	1367.89
1271	1368.27	No Channel	0.00	0.00	1368.27	—	1368.27
1272	1368.10	No Channel	0.00	0.00	1368.10	—	1368.10
1273	1368.22	No Channel	0.00	0.00	1368.22	—	1368.22
1274	1368.12	No Channel	0.00	0.00	1368.12	—	1368.12
1275	1368.90	No Channel	0.00	0.00	1368.90	—	1368.90
1276	1365.34	1360.84	0.00	3.92	1365.34	1364.76	1365.34
1277	1365.92	No Channel	0.00	0.00	1365.92	—	1365.92
1278	1366.46	No Channel	0.00	0.00	1366.46	—	1366.46
1279	1367.08	No Channel	0.00	0.00	1367.08	—	1367.08
1280	1367.45	No Channel	0.00	0.00	1367.45	—	1367.45
1281	1367.74	No Channel	0.00	0.00	1367.74	—	1367.74
1282	1367.95	No Channel	0.00	0.00	1367.95	—	1367.95
1283	1367.63	No Channel	0.00	0.00	1367.63	—	1367.63
1284	1368.40	No Channel	0.00	0.00	1368.40	—	1368.40
1285	1365.32	No Channel	0.00	0.00	1365.32	—	1365.32
1286	1365.90	No Channel	0.00	0.00	1365.90	—	1365.90
1287	1366.39	No Channel	0.00	0.00	1366.39	—	1366.39
1288	1366.64	No Channel	0.00	0.00	1366.64	—	1366.64
1289	1365.26	No Channel	0.00	0.00	1365.26	—	1365.26
1290	1366.75	No Channel	0.00	0.00	1366.75	—	1366.75
1291	1367.85	No Channel	0.00	0.00	1367.85	—	1367.85
1292	1368.22	No Channel	0.00	0.00	1368.22	—	1368.22
1293	1365.36	No Channel	0.08	0.00	1365.44	—	1365.44
1294	1365.82	No Channel	0.00	0.00	1365.82	—	1365.82
1295	1366.44	No Channel	0.00	0.00	1366.44	—	1366.44
1296	1365.86	No Channel	0.00	0.00	1365.86	—	1365.86
1297	1366.04	No Channel	0.00	0.00	1366.04	—	1366.04
1298	1366.95	No Channel	0.00	0.00	1366.95	—	1366.95
1299	1368.21	No Channel	0.00	0.00	1368.21	—	1368.21
1300	1370.00	No Channel	0.29	0.00	1370.29	—	1370.29
1301	1370.50	No Channel	0.10	0.00	1370.60	—	1370.60
1302	1371.30	No Channel	0.00	0.00	1371.30	—	1371.30
1303	1371.90	No Channel	0.00	0.00	1371.90	—	1371.90
1304	1373.00	No Channel	0.00	0.00	1373.00	—	1373.00
1305	1373.60	No Channel	0.00	0.00	1373.60	—	1373.60
1306	1374.60	No Channel	0.00	0.00	1374.60	—	1374.60
1307	1375.40	No Channel	0.00	0.00	1375.40	—	1375.40
1308	1365.22	No Channel	0.33	0.00	1365.55	—	1365.55
1309	1365.77	No Channel	0.00	0.00	1365.77	—	1365.77
1310	1366.52	No Channel	0.00	0.00	1366.52	—	1366.52
1311	1367.21	No Channel	0.00	0.00	1367.21	—	1367.21

Table E-4-P

Summary of proposed conditions FLO-2D model results

Grid Element	Grid Base Elevation feet	Channel Invert feet	FLO-2D Calculated Depths		Floodplain Water Surface		Maximum Water Surface feet
			Overland feet	Channel feet	Grid feet	Channel feet	
1312	1367.38	No Channel	0.00	0.00	1367.38	—	1367.38
1313	1367.52	No Channel	0.00	0.00	1367.52	—	1367.52
1314	1367.82	No Channel	0.00	0.00	1367.82	—	1367.82
1315	1365.07	No Channel	0.48	0.00	1365.55	—	1365.55
1316	1365.50	No Channel	0.01	0.00	1365.51	—	1365.51
1317	1366.29	No Channel	0.00	0.00	1366.29	—	1366.29
1318	1367.15	No Channel	0.00	0.00	1367.15	—	1367.15
1319	1367.17	No Channel	0.00	0.00	1367.17	—	1367.17
1320	1367.25	No Channel	0.00	0.00	1367.25	—	1367.25
1321	1366.98	No Channel	0.00	0.00	1366.98	—	1366.98
1322	1364.98	No Channel	0.56	0.00	1365.54	—	1365.54
1323	1365.27	No Channel	0.34	0.00	1365.61	—	1365.61
1324	1366.16	No Channel	0.00	0.00	1366.16	—	1366.16
1325	1367.25	No Channel	0.00	0.00	1367.25	—	1367.25
1326	1366.80	No Channel	0.00	0.00	1366.80	—	1366.80
1327	1367.00	No Channel	0.00	0.00	1367.00	—	1367.00
1328	1366.71	No Channel	0.00	0.00	1366.71	—	1366.71
1329	1364.96	No Channel	0.55	0.00	1365.51	—	1365.51
1330	1365.03	No Channel	0.60	0.00	1365.63	—	1365.63
1331	1365.54	No Channel	0.28	0.00	1365.82	—	1365.82
1332	1366.31	No Channel	0.00	0.00	1366.31	—	1366.31
1333	1366.37	No Channel	0.00	0.00	1366.37	—	1366.37
1334	1366.09	No Channel	0.00	0.00	1366.09	—	1366.09
1335	1366.41	No Channel	0.00	0.00	1366.41	—	1366.41
1336	1364.64	No Channel	0.83	0.00	1365.47	—	1365.47
1337	1365.15	No Channel	0.75	0.00	1365.90	—	1365.90
1338	1365.54	No Channel	0.35	0.00	1365.89	—	1365.89
1339	1365.65	No Channel	0.16	0.00	1365.81	—	1365.81
1340	1365.92	No Channel	0.00	0.00	1365.92	—	1365.92
1341	1366.24	No Channel	0.00	0.00	1366.24	—	1366.24
1342	1366.79	No Channel	0.00	0.00	1366.79	—	1366.79
1343	1364.84	No Channel	1.34	0.00	1366.18	—	1366.18
1344	1365.53	No Channel	0.66	0.00	1366.19	—	1366.19
1345	1366.72	No Channel	0.00	0.00	1366.72	—	1366.72
1346	1367.68	No Channel	0.00	0.00	1367.68	—	1367.68
1347	1369.24	No Channel	0.00	0.00	1369.24	—	1369.24
1348	1365.08	No Channel	1.39	0.00	1366.47	—	1366.47
1349	1365.62	No Channel	0.87	0.00	1366.49	—	1366.49
1350	1367.18	No Channel	0.00	0.00	1367.18	—	1367.18
1351	1368.46	No Channel	0.00	0.00	1368.46	—	1368.46
1352	1368.97	No Channel	0.00	0.00	1368.97	—	1368.97
1353	1365.28	No Channel	1.41	0.00	1366.69	—	1366.69
1354	1365.88	No Channel	0.78	0.00	1366.66	—	1366.66
1355	1365.65	No Channel	0.98	0.00	1366.63	—	1366.63
1356	1366.42	No Channel	0.13	0.00	1366.55	—	1366.55
1357	1367.15	No Channel	0.00	0.00	1367.15	—	1367.15
1358	1365.48	No Channel	1.43	0.00	1366.91	—	1366.91
1359	1366.12	No Channel	0.73	0.00	1366.85	—	1366.85
1360	1366.78	No Channel	0.16	0.00	1366.94	—	1366.94
1361	1367.27	No Channel	0.00	0.00	1367.27	—	1367.27
1362	1365.67	No Channel	1.46	0.00	1367.13	—	1367.13
1363	1366.34	No Channel	0.80	0.00	1367.14	—	1367.14
1364	1367.51	No Channel	0.00	0.00	1367.51	—	1367.51
1365	1367.86	No Channel	0.00	0.00	1367.86	—	1367.86
1366	1365.87	No Channel	1.45	0.00	1367.32	—	1367.32
1367	1366.50	No Channel	0.87	0.00	1367.37	—	1367.37
1368	1366.94	No Channel	0.53	0.00	1367.47	—	1367.47
1369	1367.26	No Channel	0.22	0.00	1367.48	—	1367.48
1370	1366.06	No Channel	1.39	0.00	1367.45	—	1367.45
1371	1366.72	No Channel	1.01	0.00	1367.73	—	1367.73
1372	1366.49	No Channel	1.01	0.00	1367.50	—	1367.50
1373	1367.13	No Channel	0.35	0.00	1367.48	—	1367.48

Table E-5
Comparison of Existing and Proposed Conditions FLO-2D Modeling Results

Grid Element	Maximum WSEL Existing Condition	Maximum WSEL Proposed MVCC	Delta WSEL
1	1369.54	1369.54	0.00
2	1369.24	1369.24	0.00
3	1368.30	1368.30	0.00
4	1368.38	1368.38	0.00
5	1370.08	1370.08	0.00
6	1370.97	1370.97	0.00
7	1383.74	1383.74	0.00
8	1383.33	1383.33	0.00
9	1383.07	1383.07	0.00
10	1383.87	1383.87	0.00
11	1384.90	1384.90	0.00
12	1385.25	1385.25	0.00
13	1386.44	1386.44	0.00
14	1368.91	1368.91	0.00
15	1368.92	1368.92	0.00
16	1370.87	1370.87	0.00
17	1370.86	1370.86	0.00
18	1371.92	1371.92	0.00
19	1372.20	1372.20	0.00
20	1372.63	1372.63	0.00
21	1373.36	1373.36	0.00
22	1373.91	1373.91	0.00
23	1373.93	1373.93	0.00
24	1372.67	1372.67	0.00
25	1373.70	1373.70	0.00
26	1373.47	1373.47	0.00
27	1373.40	1373.40	0.00
28	1373.68	1373.68	0.00
29	1374.32	1374.32	0.00
30	1374.41	1374.41	0.00
31	1374.73	1374.73	0.00
32	1374.73	1374.73	0.00
33	1375.12	1375.11	(0.01)
34	1375.58	1375.58	0.00
35	1376.14	1376.14	0.00
36	1376.40	1376.40	0.00
37	1376.87	1376.86	(0.01)
38	1377.57	1377.57	0.00
39	1378.42	1378.42	0.00
40	1379.61	1379.61	0.00
41	1378.81	1378.81	0.00
42	1378.91	1378.90	(0.01)
43	1378.96	1378.96	0.00
44	1379.22	1379.22	0.00
45	1379.63	1379.63	0.00
46	1379.76	1379.76	0.00
47	1379.95	1379.95	0.00
48	1380.11	1380.11	0.00
49	1380.21	1380.20	(0.01)
50	1380.42	1380.42	0.00
51	1380.89	1380.89	0.00
52	1381.35	1381.35	0.00
53	1381.34	1381.34	0.00
54	1382.12	1382.12	0.00

Grid Element	Maximum WSEL Existing Condition	Maximum WSEL Proposed MVCC	Delta WSEL
691	1366.75	1366.75	0.00
692	1366.99	1368.30	1.31
693	1367.62	1368.80	1.18
694	1368.34	1369.30	0.96
695	1368.87	1369.60	0.73
696	1369.16	1370.00	0.84
697	1369.59	1370.00	0.41
698	1369.78	1370.00	0.22
699	1370.13	1370.00	(0.13)
700	1370.45	1370.00	(0.45)
701	1370.88	1371.30	0.42
702	1371.41	1370.75	(0.66)
703	1373.28	1373.28	0.00
704	1373.82	1373.82	0.00
705	1373.70	1373.70	0.00
706	1373.73	1373.70	(0.03)
707	1373.72	1373.70	(0.02)
708	1374.15	1374.15	0.00
709	1374.17	1374.17	0.00
710	1375.61	1375.61	0.00
711	1375.92	1375.92	0.00
712	1376.02	1376.02	0.00
713	1377.56	1377.56	0.00
714	1378.01	1378.01	0.00
715	1378.64	1378.64	0.00
716	1378.98	1378.98	0.00
717	1379.33	1379.33	0.00
718	1379.50	1379.50	0.00
719	1379.71	1379.64	(0.07)
720	1380.45	1380.45	0.00
721	1381.13	1381.12	(0.01)
722	1381.48	1381.48	0.00
723	1383.52	1383.52	0.00
724	1383.59	1383.60	0.01
725	1383.67	1383.72	0.05
726	1384.16	1384.16	0.00
727	1384.49	1384.49	0.00
728	1384.93	1384.93	0.00
729	1385.60	1385.60	0.00
730	1386.31	1386.31	0.00
731	1386.73	1386.73	0.00
732	1387.12	1387.12	0.00
733	1389.37	1389.37	0.00
734	1366.68	1366.65	(0.03)
735	1366.68	1366.66	(0.02)
736	1366.71	1366.73	0.02
737	1367.02	1368.30	1.28
738	1367.37	1368.30	0.93
739	1367.94	1369.30	1.36
740	1368.26	1369.30	1.04
741	1368.65	1370.00	1.35
742	1369.20	1370.00	0.80
743	1369.56	1370.00	0.44
744	1369.91	1370.00	0.09

Table E-5
Comparison of Existing and Proposed Conditions FLO-2D Modeling Results

Grid Element	Maximum WSEL Existing Condition	Maximum WSEL Proposed MVCC	Delta WSEL
55	1382.97	1382.97	0.00
56	1383.76	1383.76	0.00
57	1384.68	1384.68	0.00
58	1385.46	1385.46	0.00
59	1368.14	1368.14	0.00
60	1368.33	1368.33	0.00
61	1368.51	1368.51	0.00
62	1368.68	1368.67	(0.01)
63	1369.07	1369.07	0.00
64	1369.72	1369.71	(0.01)
65	1370.36	1370.36	0.00
66	1371.05	1371.05	0.00
67	1371.26	1371.26	0.00
68	1371.48	1371.48	0.00
69	1371.82	1371.82	0.00
70	1372.21	1372.21	0.00
71	1372.55	1372.55	0.00
72	1372.84	1372.84	0.00
73	1373.06	1373.06	0.00
74	1373.41	1373.41	0.00
75	1373.78	1373.78	0.00
76	1374.13	1374.13	0.00
77	1374.42	1374.42	0.00
78	1374.68	1374.68	0.00
79	1374.90	1374.90	0.00
80	1375.35	1375.35	0.00
81	1375.96	1375.96	0.00
82	1376.62	1376.62	0.00
83	1377.43	1377.43	0.00
84	1378.09	1378.08	(0.01)
85	1378.53	1378.53	0.00
86	1378.76	1378.75	(0.01)
87	1378.87	1378.86	(0.01)
88	1378.96	1378.96	0.00
89	1379.26	1379.26	0.00
90	1379.60	1379.60	0.00
91	1379.76	1379.76	0.00
92	1379.94	1379.94	0.00
93	1380.11	1380.11	0.00
94	1380.22	1380.22	0.00
95	1380.51	1380.51	0.00
96	1380.82	1380.82	0.00
97	1381.09	1381.08	(0.01)
98	1381.27	1381.27	0.00
99	1382.04	1382.04	0.00
100	1383.55	1383.55	0.00
101	1384.44	1384.43	(0.01)
102	1385.28	1385.28	0.00
103	1386.27	1386.27	0.00
104	1367.36	1367.36	0.00
105	1367.44	1367.44	0.00
106	1368.14	1368.13	(0.01)
107	1368.27	1368.26	(0.01)
108	1368.29	1368.29	0.00

Grid Element	Maximum WSEL Existing Condition	Maximum WSEL Proposed MVCC	Delta WSEL
745	1370.19	1370.00	(0.19)
746	1370.55	1370.64	0.09
747	1371.23	1370.66	(0.57)
748	1372.63	1372.63	0.00
749	1373.69	1373.69	0.00
750	1373.83	1373.83	0.00
751	1373.69	1373.66	(0.03)
752	1373.70	1373.68	(0.02)
753	1373.99	1373.99	0.00
754	1374.50	1374.50	0.00
755	1375.60	1375.60	0.00
756	1375.74	1375.74	0.00
757	1375.87	1375.87	0.00
758	1377.89	1377.89	0.00
759	1378.21	1378.21	0.00
760	1378.07	1378.07	0.00
761	1379.01	1379.02	0.01
762	1379.23	1379.23	0.00
763	1379.72	1379.72	0.00
764	1379.99	1379.98	(0.01)
765	1380.23	1380.23	0.00
766	1381.48	1381.48	0.00
767	1381.48	1381.48	0.00
768	1383.56	1383.57	0.01
769	1383.58	1383.58	0.00
770	1383.63	1383.63	0.00
771	1384.18	1384.18	0.00
772	1384.67	1384.67	0.00
773	1385.47	1385.47	0.00
774	1386.06	1386.06	0.00
775	1386.76	1386.76	0.00
776	1387.34	1387.34	0.00
777	1388.01	1388.01	0.00
778	1389.44	1389.44	0.00
779	1366.60	1366.60	0.00
780	1366.60	1366.63	0.03
781	1366.62	1366.70	0.08
782	1366.86	1367.34	0.48
783	1367.30	1367.35	0.05
784	1367.82	1367.56	(0.26)
785	1368.05	1367.97	(0.08)
786	1368.26	1369.45	1.19
787	1368.72	1370.14	1.42
788	1369.29	1370.15	0.86
789	1369.59	1370.17	0.58
790	1369.95	1370.40	0.45
791	1370.61	1370.59	(0.02)
792	1371.11	1370.71	(0.40)
793	1373.43	1373.39	(0.04)
794	1373.65	1373.65	0.00
795	1373.75	1373.75	0.00
796	1373.67	1373.65	(0.02)
797	1373.68	1373.66	(0.02)
798	1374.04	1374.04	0.00

Table E-5
Comparison of Existing and Proposed Conditions FLO-2D Modeling Results

Grid Element	Maximum WSEL Existing Condition	Maximum WSEL Proposed MVCC	Delta WSEL
109	1368.95	1368.95	0.00
110	1370.49	1370.49	0.00
111	1371.40	1371.40	0.00
112	1371.63	1371.63	0.00
113	1371.27	1371.27	0.00
114	1371.62	1371.62	0.00
115	1372.14	1372.14	0.00
116	1372.48	1372.48	0.00
117	1372.67	1372.67	0.00
118	1373.13	1373.13	0.00
119	1373.49	1373.49	0.00
120	1373.63	1373.63	0.00
121	1373.73	1373.73	0.00
122	1374.38	1374.38	0.00
123	1374.68	1374.68	0.00
124	1374.94	1374.93	(0.01)
125	1375.38	1375.37	(0.01)
126	1376.01	1376.01	0.00
127	1376.73	1376.73	0.00
128	1378.51	1378.51	0.00
129	1379.07	1379.07	0.00
130	1378.24	1378.24	0.00
131	1378.66	1378.65	(0.01)
132	1378.82	1378.81	(0.01)
133	1378.85	1378.85	0.00
134	1379.80	1379.80	0.00
135	1379.93	1379.93	0.00
136	1380.19	1380.19	0.00
137	1380.29	1380.29	0.00
138	1380.43	1380.43	0.00
139	1380.93	1380.93	0.00
140	1381.04	1381.04	0.00
141	1381.75	1381.75	0.00
142	1382.25	1382.25	0.00
143	1382.74	1382.74	0.00
144	1383.85	1383.85	0.00
145	1384.55	1384.55	0.00
146	1385.20	1385.20	0.00
147	1385.92	1385.92	0.00
148	1386.86	1386.86	0.00
149	1367.12	1367.06	(0.06)
150	1367.00	1366.88	(0.12)
151	1367.89	1367.89	0.00
152	1369.58	1369.58	0.00
153	1369.48	1369.48	0.00
154	1368.78	1368.78	0.00
155	1370.75	1370.75	0.00
156	1371.80	1371.80	0.00
157	1371.31	1371.31	0.00
158	1371.15	1371.14	(0.01)
159	1371.18	1371.16	(0.02)
160	1371.67	1371.66	(0.01)
161	1371.92	1371.91	(0.01)
162	1372.71	1372.67	(0.04)

Grid Element	Maximum WSEL Existing Condition	Maximum WSEL Proposed MVCC	Delta WSEL
799	1374.71	1374.71	0.00
800	1375.07	1375.07	0.00
801	1375.28	1375.28	0.00
802	1375.53	1375.53	0.00
803	1377.90	1377.92	0.02
804	1377.95	1377.97	0.02
805	1378.07	1378.07	0.00
806	1378.58	1378.57	(0.01)
807	1379.70	1379.70	0.00
808	1379.88	1379.88	0.00
809	1379.69	1379.68	(0.01)
810	1379.64	1379.63	(0.01)
811	1379.66	1379.66	0.00
812	1379.86	1379.86	0.00
813	1383.56	1383.57	0.01
814	1383.57	1383.58	0.01
815	1383.59	1383.59	0.00
816	1383.86	1383.86	0.00
817	1384.93	1384.93	0.00
818	1385.67	1385.67	0.00
819	1386.36	1386.36	0.00
820	1387.00	1387.00	0.00
821	1387.78	1387.78	0.00
822	1388.79	1388.79	0.00
823	1389.90	1389.90	0.00
824	1366.53	1366.54	0.01
825	1366.55	1366.57	0.02
826	1366.57	1366.58	0.01
827	1366.63	1366.65	0.02
828	1366.98	1367.01	0.03
829	1367.51	1367.49	(0.02)
830	1368.00	1367.94	(0.06)
831	1368.12	1368.22	0.10
832	1368.31	1368.46	0.15
833	1368.75	1368.77	0.02
834	1369.20	1369.20	0.00
835	1369.66	1369.76	0.10
836	1370.14	1370.14	0.00
837	1370.61	1370.61	0.00
838	1373.43	1373.39	(0.04)
839	1373.44	1373.45	0.01
840	1373.58	1373.55	(0.03)
841	1373.63	1373.63	0.00
842	1373.82	1373.82	0.00
843	1373.58	1373.58	0.00
844	1374.67	1374.67	0.00
845	1375.10	1375.10	0.00
846	1375.48	1375.48	0.00
847	1375.78	1375.78	0.00
848	1377.90	1377.91	0.01
849	1377.95	1377.94	(0.01)
850	1378.18	1378.18	0.00
851	1378.10	1378.10	0.00
852	1380.16	1380.16	0.00

Table E-5
Comparison of Existing and Proposed Conditions FLO-2D Modeling Results

Grid Element	Maximum WSEL Existing Condition	Maximum WSEL Proposed MVCC	Delta WSEL
163	1372.99	1372.92	(0.07)
164	1373.30	1373.30	0.00
165	1373.19	1373.18	(0.01)
166	1373.39	1373.38	(0.01)
167	1374.57	1374.57	0.00
168	1374.75	1374.74	(0.01)
169	1374.85	1374.85	0.00
170	1375.11	1375.11	0.00
171	1376.15	1376.14	(0.01)
172	1376.74	1376.74	0.00
173	1376.82	1376.82	0.00
174	1377.19	1377.18	(0.01)
175	1377.39	1377.39	0.00
176	1378.29	1378.30	0.01
177	1377.67	1377.67	0.00
178	1378.84	1378.82	(0.02)
179	1380.01	1380.01	0.00
180	1379.96	1379.97	0.01
181	1380.27	1380.27	0.00
182	1380.50	1380.50	0.00
183	1380.71	1380.71	0.00
184	1381.12	1381.12	0.00
185	1381.89	1381.89	0.00
186	1383.16	1383.16	0.00
187	1383.62	1383.62	0.00
188	1383.59	1383.59	0.00
189	1383.65	1383.65	0.00
190	1384.09	1384.09	0.00
191	1386.08	1386.08	0.00
192	1386.11	1386.11	0.00
193	1387.82	1387.82	0.00
194	1367.08	1366.96	(0.12)
195	1367.00	1366.88	(0.12)
196	1367.01	1366.95	(0.06)
197	1368.33	1368.33	0.00
198	1368.30	1368.31	0.01
199	1370.40	1370.40	0.00
200	1371.75	1371.75	0.00
201	1371.88	1371.88	0.00
202	1370.99	1370.98	(0.01)
203	1371.02	1371.00	(0.02)
204	1371.07	1371.05	(0.02)
205	1371.59	1371.58	(0.01)
206	1371.85	1371.83	(0.02)
207	1372.60	1372.58	(0.02)
208	1372.87	1372.85	(0.02)
209	1373.10	1373.07	(0.03)
210	1373.13	1373.11	(0.02)
211	1373.24	1373.22	(0.02)
212	1373.28	1373.28	0.00
213	1374.76	1374.76	0.00
214	1375.16	1375.16	0.00
215	1376.33	1376.33	0.00
216	1376.17	1376.16	(0.01)

Grid Element	Maximum WSEL Existing Condition	Maximum WSEL Proposed MVCC	Delta WSEL
853	1380.06	1380.06	0.00
854	1379.61	1379.60	(0.01)
855	1380.55	1380.55	0.00
856	1380.55	1380.55	0.00
857	1380.55	1380.55	0.00
858	1383.56	1383.57	0.01
859	1383.56	1383.57	0.01
860	1383.57	1383.57	0.00
861	1383.86	1383.86	0.00
862	1385.05	1385.05	0.00
863	1385.65	1385.65	0.00
864	1386.61	1386.61	0.00
865	1387.40	1387.40	0.00
866	1388.17	1388.17	0.00
867	1389.47	1389.47	0.00
868	1390.77	1390.77	0.00
869	1366.50	1366.50	0.00
870	1366.52	1366.52	0.00
871	1366.55	1366.54	(0.01)
872	1366.64	1366.66	0.02
873	1366.95	1366.97	0.02
874	1367.41	1367.43	0.02
875	1367.90	1367.93	0.03
876	1368.08	1368.14	0.06
877	1368.23	1368.30	0.07
878	1368.75	1368.77	0.02
879	1369.21	1369.21	0.00
880	1369.65	1369.70	0.05
881	1370.35	1370.35	0.00
882	1370.75	1370.75	0.00
883	1371.69	1371.69	0.00
884	1372.20	1372.20	0.00
885	1373.58	1373.57	(0.01)
886	1373.62	1373.59	(0.03)
887	1373.73	1373.73	0.00
888	1374.19	1374.19	0.00
889	1374.65	1374.65	0.00
890	1375.20	1375.20	0.00
891	1375.48	1375.48	0.00
892	1376.36	1376.36	0.00
893	1377.66	1377.66	0.00
894	1377.93	1377.92	(0.01)
895	1378.03	1378.01	(0.02)
896	1378.06	1378.05	(0.01)
897	1379.52	1379.52	0.00
898	1379.64	1379.64	0.00
899	1379.53	1379.52	(0.01)
900	1380.55	1380.55	0.00
901	1380.55	1380.55	0.00
902	1380.55	1380.55	0.00
903	1383.56	1383.57	0.01
904	1383.56	1383.57	0.01
905	1383.56	1383.57	0.01
906	1383.70	1383.70	0.00

Table E-5
Comparison of Existing and Proposed Conditions FLO-2D Modeling Results

Grid Element	Maximum WSEL Existing Condition	Maximum WSEL Proposed MVCC	Delta WSEL	Grid Element	Maximum WSEL Existing Condition	Maximum WSEL Proposed MVCC	Delta WSEL
217	1376.35	1376.35	0.00	907	1384.93	1384.93	0.00
218	1376.48	1376.48	0.00	908	1385.72	1385.72	0.00
219	1375.98	1375.98	0.00	909	1386.77	1386.77	0.00
220	1376.21	1376.21	0.00	910	1387.67	1387.67	0.00
221	1377.90	1377.90	0.00	911	1388.43	1388.43	0.00
222	1377.83	1377.84	0.01	912	1389.97	1389.97	0.00
223	1377.80	1377.81	0.01	913	1392.54	1392.54	0.00
224	1380.08	1380.09	0.01	914	1366.48	1366.47	(0.01)
225	1380.01	1380.01	0.00	915	1366.49	1366.48	(0.01)
226	1380.61	1380.61	0.00	916	1366.51	1366.52	0.01
227	1380.54	1380.54	0.00	917	1366.71	1366.73	0.02
228	1381.21	1381.21	0.00	918	1367.04	1367.07	0.03
229	1381.29	1381.29	0.00	919	1367.34	1367.36	0.02
230	1381.61	1381.61	0.00	920	1367.81	1367.83	0.02
231	1382.80	1382.80	0.00	921	1368.12	1368.12	0.00
232	1383.95	1383.95	0.00	922	1368.29	1368.29	0.00
233	1384.48	1384.48	0.00	923	1368.73	1368.74	0.01
234	1385.13	1385.13	0.00	924	1369.19	1369.19	0.00
235	1386.16	1386.16	0.00	925	1369.74	1369.74	0.00
236	1386.93	1386.93	0.00	926	1370.37	1370.37	0.00
237	1386.84	1386.84	0.00	927	1370.82	1370.82	0.00
238	1388.41	1388.41	0.00	928	1371.31	1371.31	0.00
239	1367.11	1366.99	(0.12)	929	1371.82	1371.82	0.00
240	1367.02	1366.89	(0.13)	930	1373.51	1373.51	0.00
241	1367.45	1367.46	0.01	931	1373.56	1373.56	0.00
242	1368.19	1368.19	0.00	932	1373.70	1373.70	0.00
243	1368.87	1368.87	0.00	933	1374.15	1374.15	0.00
244	1370.16	1370.16	0.00	934	1374.77	1374.77	0.00
245	1370.59	1370.59	0.00	935	1375.08	1375.08	0.00
246	1370.91	1370.91	0.00	936	1375.57	1375.57	0.00
247	1370.80	1370.77	(0.03)	937	1375.92	1375.93	0.01
248	1370.81	1370.79	(0.02)	938	1377.30	1377.30	0.00
249	1370.98	1370.96	(0.02)	939	1377.55	1377.55	0.00
250	1371.36	1371.34	(0.02)	940	1377.74	1377.74	0.00
251	1371.84	1371.81	(0.03)	941	1378.25	1378.25	0.00
252	1372.49	1372.47	(0.02)	942	1378.29	1378.29	0.00
253	1372.83	1372.81	(0.02)	943	1379.80	1379.80	0.00
254	1373.07	1373.05	(0.02)	944	1379.47	1379.47	0.00
255	1373.13	1373.11	(0.02)	945	1381.95	1381.95	0.00
256	1373.23	1373.20	(0.03)	946	1382.30	1382.30	0.00
257	1373.48	1373.48	0.00	947	1382.65	1382.65	0.00
258	1374.27	1374.27	0.00	948	1383.56	1383.57	0.01
259	1375.60	1375.60	0.00	949	1383.56	1383.57	0.01
260	1376.75	1376.75	0.00	950	1383.56	1383.56	0.00
261	1376.34	1376.34	0.00	951	1383.65	1383.65	0.00
262	1376.55	1376.55	0.00	952	1384.33	1384.33	0.00
263	1376.37	1376.37	0.00	953	1385.90	1385.90	0.00
264	1376.37	1376.37	0.00	954	1386.82	1386.82	0.00
265	1376.36	1376.36	0.00	955	1387.77	1387.78	0.01
266	1377.80	1377.81	0.01	956	1388.52	1388.52	0.00
267	1377.80	1377.81	0.01	957	1390.23	1390.23	0.00
268	1377.80	1377.81	0.01	958	1392.38	1392.38	0.00
269	1380.15	1380.15	0.00	959	1366.44	1366.44	0.00
270	1380.31	1380.31	0.00	960	1366.46	1366.45	(0.01)

Table E-5
Comparison of Existing and Proposed Conditions FLO-2D Modeling Results

Grid Element	Maximum WSEL Existing Condition	Maximum WSEL Proposed MVCC	Delta WSEL	Grid Element	Maximum WSEL Existing Condition	Maximum WSEL Proposed MVCC	Delta WSEL
271	1380.36	1380.36	0.00	961	1366.49	1366.49	0.00
272	1380.70	1380.70	0.00	962	1366.89	1366.88	(0.01)
273	1381.30	1381.30	0.00	963	1367.10	1367.12	0.02
274	1381.21	1381.21	0.00	964	1367.28	1367.29	0.01
275	1383.14	1383.13	(0.01)	965	1367.57	1367.58	0.01
276	1383.02	1383.02	0.00	966	1368.08	1368.09	0.01
277	1383.87	1383.86	(0.01)	967	1368.43	1368.43	0.00
278	1384.22	1384.21	(0.01)	968	1368.76	1368.76	0.00
279	1385.06	1385.06	0.00	969	1369.34	1369.33	(0.01)
280	1386.02	1386.02	0.00	970	1369.74	1369.74	0.00
281	1386.61	1386.61	0.00	971	1370.16	1370.16	0.00
282	1386.89	1386.89	0.00	972	1370.38	1370.37	(0.01)
283	1388.72	1388.72	0.00	973	1373.30	1373.29	(0.01)
284	1367.03	1366.89	(0.14)	974	1373.42	1373.42	0.00
285	1367.03	1366.89	(0.14)	975	1373.50	1373.51	0.01
286	1367.86	1367.87	0.01	976	1373.57	1373.57	0.00
287	1369.45	1369.45	0.00	977	1373.75	1373.75	0.00
288	1369.98	1369.98	0.00	978	1373.36	1373.36	0.00
289	1369.91	1369.89	(0.02)	979	1374.52	1374.52	0.00
290	1370.01	1369.84	(0.17)	980	1375.92	1375.92	0.00
291	1370.45	1370.42	(0.03)	981	1377.24	1377.24	0.00
292	1370.46	1370.50	0.04	982	1375.87	1375.87	0.00
293	1370.60	1370.60	0.00	983	1377.17	1377.17	0.00
294	1370.95	1370.89	(0.06)	984	1377.51	1377.51	0.00
295	1371.37	1371.37	0.00	985	1377.79	1377.79	0.00
296	1371.70	1371.70	0.00	986	1378.11	1378.11	0.00
297	1371.63	1371.63	0.00	987	1378.17	1378.17	0.00
298	1373.02	1372.99	(0.03)	988	1379.54	1379.54	0.00
299	1373.06	1373.03	(0.03)	989	1379.37	1379.36	(0.01)
300	1373.19	1373.16	(0.03)	990	1381.95	1381.95	0.00
301	1373.26	1373.24	(0.02)	991	1382.30	1382.30	0.00
302	1374.06	1374.06	0.00	992	1382.65	1382.65	0.00
303	1374.26	1374.26	0.00	993	1383.56	1383.56	0.00
304	1374.06	1374.06	0.00	994	1383.56	1383.56	0.00
305	1375.77	1375.77	0.00	995	1383.64	1383.64	0.00
306	1375.78	1375.78	0.00	996	1383.65	1383.65	0.00
307	1376.21	1376.22	0.01	997	1384.82	1384.82	0.00
308	1376.33	1376.34	0.01	998	1385.92	1385.92	0.00
309	1376.35	1376.36	0.01	999	1386.12	1386.12	0.00
310	1376.37	1376.37	0.00	1000	1387.69	1387.69	0.00
311	1377.74	1377.75	0.01	1001	1388.87	1388.87	0.00
312	1377.75	1377.75	0.00	1002	1390.39	1390.39	0.00
313	1377.98	1377.98	0.00	1003	1391.01	1391.01	0.00
314	1380.17	1380.18	0.01	1004	1366.43	1366.42	(0.01)
315	1380.18	1380.18	0.00	1005	1366.36	1366.36	0.00
316	1380.41	1380.42	0.01	1006	1366.45	1366.45	0.00
317	1380.45	1380.46	0.01	1007	1366.82	1366.83	0.01
318	1381.73	1381.74	0.01	1008	1367.13	1367.14	0.01
319	1381.62	1381.62	0.00	1009	1367.25	1367.26	0.01
320	1383.20	1383.20	0.00	1010	1367.53	1367.53	0.00
321	1383.15	1383.15	0.00	1011	1368.06	1368.06	0.00
322	1383.74	1383.74	0.00	1012	1368.42	1368.42	0.00
323	1384.33	1384.32	(0.01)	1013	1368.78	1368.77	(0.01)
324	1384.74	1384.74	0.00	1014	1369.12	1369.12	0.00

Table E-5
Comparison of Existing and Proposed Conditions FLO-2D Modeling Results

Grid Element	Maximum WSEL Existing Condition	Maximum WSEL Proposed MVCC	Delta WSEL
325	1386.11	1386.11	0.00
326	1386.49	1386.47	(0.02)
327	1386.87	1386.87	0.00
328	1388.44	1388.44	0.00
329	1367.03	1366.90	(0.13)
330	1367.04	1366.90	(0.14)
331	1368.23	1368.23	0.00
332	1369.29	1369.29	0.00
333	1369.88	1369.88	0.00
334	1369.95	1369.76	(0.19)
335	1369.97	1369.80	(0.17)
336	1370.04	1369.86	(0.18)
337	1370.16	1370.10	(0.06)
338	1370.30	1370.25	(0.05)
339	1370.98	1370.88	(0.10)
340	1371.35	1371.28	(0.07)
341	1371.62	1371.57	(0.05)
342	1371.77	1371.76	(0.01)
343	1373.01	1372.97	(0.04)
344	1373.03	1372.99	(0.04)
345	1373.28	1373.25	(0.03)
346	1373.33	1373.30	(0.03)
347	1374.46	1374.46	0.00
348	1374.67	1374.67	0.00
349	1373.95	1373.95	0.00
350	1375.73	1375.73	0.00
351	1375.79	1375.79	0.00
352	1376.10	1376.11	0.01
353	1376.28	1376.28	0.00
354	1376.32	1376.33	0.01
355	1376.40	1376.40	0.00
356	1377.51	1377.52	0.01
357	1377.61	1377.62	0.01
358	1377.64	1377.64	0.00
359	1380.21	1380.22	0.01
360	1380.22	1380.21	(0.01)
361	1380.44	1380.45	0.01
362	1380.46	1380.45	(0.01)
363	1382.27	1382.27	0.00
364	1382.36	1382.36	0.00
365	1383.28	1383.28	0.00
366	1383.30	1383.29	(0.01)
367	1383.56	1383.56	0.00
368	1384.33	1384.33	0.00
369	1384.76	1384.76	0.00
370	1386.29	1386.29	0.00
371	1386.78	1386.78	0.00
372	1386.95	1386.94	(0.01)
373	1388.39	1388.39	0.00
374	1367.05	1366.91	(0.14)
375	1367.06	1366.92	(0.14)
376	1368.28	1368.27	(0.01)
377	1369.09	1369.09	0.00
378	1369.20	1369.20	0.00

Grid Element	Maximum WSEL Existing Condition	Maximum WSEL Proposed MVCC	Delta WSEL
1015	1369.79	1369.79	0.00
1016	1370.35	1370.35	0.00
1017	1370.60	1370.60	0.00
1018	1369.65	1369.65	0.00
1019	1372.57	1372.57	0.00
1020	1373.29	1373.29	0.00
1021	1373.47	1373.46	(0.01)
1022	1373.48	1373.48	0.00
1023	1373.69	1373.69	0.00
1024	1374.25	1374.25	0.00
1025	1376.98	1376.98	0.00
1026	1377.29	1377.29	0.00
1027	1375.44	1375.44	0.00
1028	1375.82	1375.82	0.00
1029	1376.28	1376.28	0.00
1030	1376.80	1376.80	0.00
1031	1377.63	1377.63	0.00
1032	1378.30	1378.30	0.00
1033	1378.76	1378.76	0.00
1034	1379.32	1379.31	(0.01)
1035	1379.80	1379.80	0.00
1036	1381.15	1381.15	0.00
1037	1382.55	1382.55	0.00
1038	1383.56	1383.56	0.00
1039	1383.52	1383.52	0.00
1040	1383.88	1383.88	0.00
1041	1383.99	1383.99	0.00
1042	1385.70	1385.70	0.00
1043	1386.38	1386.38	0.00
1044	1388.05	1388.05	0.00
1045	1388.95	1388.95	0.00
1046	1389.18	1389.18	0.00
1047	1390.32	1390.32	0.00
1048	1392.72	1392.72	0.00
1049	1366.35	1366.33	(0.02)
1050	1366.15	1366.14	(0.01)
1051	1366.24	1366.24	0.00
1052	1366.83	1366.83	0.00
1053	1367.15	1367.16	0.01
1054	1367.23	1367.24	0.01
1055	1367.45	1367.45	0.00
1056	1367.93	1367.93	0.00
1057	1368.40	1368.40	0.00
1058	1368.78	1368.78	0.00
1059	1369.26	1369.26	0.00
1060	1369.67	1369.67	0.00
1061	1369.94	1369.94	0.00
1062	1370.53	1370.53	0.00
1063	1370.86	1370.86	0.00
1064	1373.15	1373.15	0.00
1065	1373.30	1373.30	0.00
1066	1373.36	1373.35	(0.01)
1067	1373.67	1373.67	0.00
1068	1373.74	1373.74	0.00

Table E-5
Comparison of Existing and Proposed Conditions FLO-2D Modeling Results

Grid Element	Maximum WSEL Existing Condition	Maximum WSEL Proposed MVCC	Delta WSEL
379	1369.90	1369.73	(0.17)
380	1369.93	1369.75	(0.18)
381	1369.99	1369.81	(0.18)
382	1370.08	1369.90	(0.18)
383	1370.24	1370.02	(0.22)
384	1371.16	1370.94	(0.22)
385	1371.42	1371.26	(0.16)
386	1371.67	1371.61	(0.06)
387	1371.82	1371.80	(0.02)
388	1372.98	1372.93	(0.05)
389	1372.98	1372.94	(0.04)
390	1373.34	1373.31	(0.03)
391	1373.42	1373.39	(0.03)
392	1373.63	1373.63	0.00
393	1375.36	1375.37	0.01
394	1375.40	1375.43	0.03
395	1375.65	1375.65	0.00
396	1375.82	1375.82	0.00
397	1376.05	1376.05	0.00
398	1376.17	1376.17	0.00
399	1376.31	1376.31	0.00
400	1376.59	1376.60	0.01
401	1377.24	1377.25	0.01
402	1377.49	1377.50	0.01
403	1377.55	1377.56	0.01
404	1380.23	1380.24	0.01
405	1380.23	1380.23	0.00
406	1380.44	1380.44	0.00
407	1380.45	1380.45	0.00
408	1382.39	1382.38	(0.01)
409	1382.34	1382.34	0.00
410	1383.32	1383.33	0.01
411	1383.37	1383.38	0.01
412	1383.56	1383.55	(0.01)
413	1384.47	1384.47	0.00
414	1385.86	1385.86	0.00
415	1386.84	1386.84	0.00
416	1386.96	1386.94	(0.02)
417	1387.00	1386.99	(0.01)
418	1387.68	1387.68	0.00
419	1367.04	1366.91	(0.13)
420	1367.07	1366.93	(0.14)
421	1368.06	1368.01	(0.05)
422	1368.97	1368.91	(0.06)
423	1369.40	1369.30	(0.10)
424	1369.74	1369.59	(0.15)
425	1369.87	1369.70	(0.17)
426	1369.95	1369.79	(0.16)
427	1370.20	1370.07	(0.13)
428	1370.84	1370.66	(0.18)
429	1371.31	1371.02	(0.29)
430	1371.67	1371.29	(0.38)
431	1371.81	1371.66	(0.15)
432	1372.05	1372.11	0.06

Grid Element	Maximum WSEL Existing Condition	Maximum WSEL Proposed MVCC	Delta WSEL
1069	1373.94	1373.95	0.01
1070	1374.91	1374.91	0.00
1071	1375.68	1375.68	0.00
1072	1375.39	1375.39	0.00
1073	1375.41	1375.41	0.00
1074	1376.98	1376.98	0.00
1075	1377.35	1377.35	0.00
1076	1378.22	1378.22	0.00
1077	1378.32	1378.32	0.00
1078	1379.52	1379.52	0.00
1079	1379.50	1379.50	0.00
1080	1381.70	1381.70	0.00
1081	1382.60	1382.60	0.00
1082	1383.55	1383.55	0.00
1083	1383.51	1383.51	0.00
1084	1383.74	1383.74	0.00
1085	1384.07	1384.07	0.00
1086	1384.43	1384.43	0.00
1087	1385.47	1385.47	0.00
1088	1388.08	1388.08	0.00
1089	1391.03	1391.03	0.00
1090	1391.04	1391.04	0.00
1091	1391.11	1391.11	0.00
1092	1390.53	1390.53	0.00
1093	1394.13	1394.13	0.00
1094	1365.94	1365.92	(0.02)
1095	1366.07	1366.04	(0.03)
1096	1366.06	1366.05	(0.01)
1097	1366.23	1366.23	0.00
1098	1366.38	1366.38	0.00
1099	1366.47	1366.47	0.00
1100	1366.50	1366.50	0.00
1101	1366.51	1366.50	(0.01)
1102	1368.22	1368.22	0.00
1103	1368.59	1368.59	0.00
1104	1368.36	1368.36	0.00
1105	1369.10	1369.10	0.00
1106	1369.32	1369.32	0.00
1107	1368.79	1368.79	0.00
1108	1370.60	1370.60	0.00
1109	1372.13	1372.13	0.00
1110	1372.05	1372.05	0.00
1111	1373.07	1373.06	(0.01)
1112	1373.82	1373.82	0.00
1113	1373.76	1373.76	0.00
1114	1373.89	1373.89	0.00
1115	1375.04	1375.04	0.00
1116	1375.80	1375.80	0.00
1117	1375.18	1375.18	0.00
1118	1374.91	1374.91	0.00
1119	1376.98	1376.98	0.00
1120	1376.91	1376.91	0.00
1121	1378.11	1378.11	0.00
1122	1377.96	1377.96	0.00

Table E-5
Comparison of Existing and Proposed Conditions FLO-2D Modeling Results

Grid Element	Maximum WSEL Existing Condition	Maximum WSEL Proposed MVCC	Delta WSEL
433	1372.83	1372.75	(0.08)
434	1373.00	1372.96	(0.04)
435	1373.37	1373.33	(0.04)
436	1373.46	1373.43	(0.03)
437	1374.04	1374.05	0.01
438	1375.30	1375.31	0.01
439	1375.35	1375.33	(0.02)
440	1375.65	1375.65	0.00
441	1375.83	1375.83	0.00
442	1375.94	1375.95	0.01
443	1376.12	1376.12	0.00
444	1376.32	1376.32	0.00
445	1376.72	1376.73	0.01
446	1377.28	1377.28	0.00
447	1377.83	1377.83	0.00
448	1378.10	1378.10	0.00
449	1380.25	1380.25	0.00
450	1380.26	1380.27	0.01
451	1379.86	1379.86	0.00
452	1382.84	1382.84	0.00
453	1383.35	1383.36	0.01
454	1382.49	1382.49	0.00
455	1383.42	1383.42	0.00
456	1383.57	1383.57	0.00
457	1384.09	1384.09	0.00
458	1384.96	1384.96	0.00
459	1385.44	1385.44	0.00
460	1385.37	1385.37	0.00
461	1387.04	1387.03	(0.01)
462	1387.02	1387.01	(0.01)
463	1387.12	1387.12	0.00
464	1367.02	1366.89	(0.13)
465	1367.04	1366.91	(0.13)
466	1367.97	1367.87	(0.10)
467	1368.91	1368.81	(0.10)
468	1369.36	1369.32	(0.04)
469	1369.68	1369.53	(0.15)
470	1369.85	1369.71	(0.14)
471	1370.19	1370.61	0.42
472	1370.20	1370.91	0.71
473	1371.41	1370.96	(0.45)
474	1371.47	1371.01	(0.46)
475	1371.68	1371.13	(0.55)
476	1371.91	1371.41	(0.50)
477	1372.06	1371.49	(0.57)
478	1372.65	1372.56	(0.09)
479	1372.78	1372.72	(0.06)
480	1373.37	1373.33	(0.04)
481	1373.57	1373.54	(0.03)
482	1374.23	1374.23	0.00
483	1375.00	1375.00	0.00
484	1375.20	1375.19	(0.01)
485	1375.64	1375.64	0.00
486	1375.83	1375.84	0.01

Grid Element	Maximum WSEL Existing Condition	Maximum WSEL Proposed MVCC	Delta WSEL
1123	1379.69	1379.69	0.00
1124	1379.66	1379.66	0.00
1125	1381.70	1381.70	0.00
1126	1382.60	1382.60	0.00
1127	1383.55	1383.55	0.00
1128	1384.52	1384.52	0.00
1129	1385.19	1385.19	0.00
1130	1385.99	1385.99	0.00
1131	1385.97	1385.97	0.00
1132	1386.55	1386.55	0.00
1133	1389.01	1389.01	0.00
1134	1391.08	1391.08	0.00
1135	1391.11	1391.11	0.00
1136	1391.45	1391.45	0.00
1137	1391.98	1391.98	0.00
1138	1394.88	1394.88	0.00
1139	1365.72	1365.69	(0.03)
1140	1366.00	1365.98	(0.02)
1141	1366.01	1366.01	0.00
1142	1365.46	1365.46	0.00
1143	1365.74	1365.74	0.00
1144	1366.48	1366.47	(0.01)
1145	1366.51	1366.50	(0.01)
1146	1366.67	1366.65	(0.02)
1147	1367.50	1367.49	(0.01)
1148	1368.00	1368.00	0.00
1149	1368.13	1368.13	0.00
1150	1368.41	1368.41	0.00
1151	1369.60	1369.60	0.00
1152	1370.40	1370.40	0.00
1153	1371.45	1371.45	0.00
1154	1373.63	1373.63	0.00
1155	1373.24	1373.24	0.00
1156	1372.36	1372.35	(0.01)
1157	1373.63	1373.63	0.00
1158	1373.64	1373.65	0.01
1159	1373.56	1373.56	0.00
1160	1375.44	1375.44	0.00
1161	1376.00	1376.00	0.00
1162	1375.05	1375.04	(0.01)
1163	1375.70	1375.70	0.00
1164	1378.00	1378.00	0.00
1165	1378.51	1378.51	0.00
1166	1379.39	1379.39	0.00
1167	1380.68	1380.68	0.00
1168	1382.38	1382.38	0.00
1169	1382.47	1382.47	0.00
1170	1384.05	1384.05	0.00
1171	1385.30	1385.30	0.00
1172	1386.50	1386.50	0.00
1173	1385.58	1385.58	0.00
1174	1386.05	1386.05	0.00
1175	1386.73	1386.73	0.00
1176	1386.83	1386.83	0.00

Table E-5
Comparison of Existing and Proposed Conditions FLO-2D Modeling Results

Grid Element	Maximum WSEL Existing Condition	Maximum WSEL Proposed MVCC	Delta WSEL	Grid Element	Maximum WSEL Existing Condition	Maximum WSEL Proposed MVCC	Delta WSEL
487	1375.97	1375.98	0.01	1177	1388.13	1388.13	0.00
488	1376.29	1376.30	0.01	1178	1389.79	1389.79	0.00
489	1376.59	1376.59	0.00	1179	1391.16	1391.16	0.00
490	1376.88	1376.88	0.00	1180	1391.29	1391.29	0.00
491	1377.71	1377.71	0.00	1181	1391.59	1391.59	0.00
492	1378.15	1378.15	0.00	1182	1393.52	1393.52	0.00
493	1378.57	1378.57	0.00	1183	1398.54	1398.54	0.00
494	1380.28	1380.28	0.00	1184	1365.50	1365.48	(0.02)
495	1380.29	1380.29	0.00	1185	1365.93	1365.91	(0.02)
496	1380.81	1380.81	0.00	1186	1366.07	1366.07	0.00
497	1382.85	1382.84	(0.01)	1187	1365.70	1365.70	0.00
498	1383.70	1383.71	0.01	1188	1365.51	1365.51	0.00
499	1383.80	1383.81	0.01	1189	1366.49	1366.47	(0.02)
500	1383.87	1383.87	0.00	1190	1366.56	1366.55	(0.01)
501	1383.80	1383.80	0.00	1191	1366.57	1366.56	(0.01)
502	1384.28	1384.28	0.00	1192	1367.36	1367.36	0.00
503	1385.47	1385.47	0.00	1193	1367.43	1367.43	0.00
504	1385.55	1385.55	0.00	1194	1367.61	1367.61	0.00
505	1385.92	1385.92	0.00	1195	1368.36	1368.36	0.00
506	1387.05	1387.03	(0.02)	1196	1368.77	1368.77	0.00
507	1387.15	1387.13	(0.02)	1197	1370.36	1370.36	0.00
508	1387.21	1387.20	(0.01)	1198	1371.24	1371.24	0.00
509	1366.96	1366.85	(0.11)	1199	1372.74	1372.74	0.00
510	1366.97	1366.85	(0.12)	1200	1372.80	1372.80	0.00
511	1367.35	1367.27	(0.08)	1201	1371.01	1371.01	0.00
512	1369.52	1369.52	0.00	1202	1373.25	1373.25	0.00
513	1369.83	1369.83	0.00	1203	1373.51	1373.51	0.00
514	1369.75	1369.75	0.00	1204	1373.56	1373.56	0.00
515	1369.72	1369.72	0.00	1205	1375.22	1375.22	0.00
516	1369.95	1369.12	(0.83)	1206	1375.94	1375.94	0.00
517	1369.45	1370.81	1.36	1207	1374.93	1374.93	0.00
518	1370.21	1370.87	0.66	1208	1375.90	1375.90	0.00
519	1370.80	1370.92	0.12	1209	1378.08	1378.08	0.00
520	1371.37	1371.12	(0.25)	1210	1378.58	1378.58	0.00
521	1371.64	1371.40	(0.24)	1211	1379.45	1379.45	0.00
522	1371.80	1371.46	(0.34)	1212	1380.73	1380.73	0.00
523	1373.55	1372.63	(0.92)	1213	1382.40	1382.40	0.00
524	1373.56	1372.97	(0.59)	1214	1382.63	1382.63	0.00
525	1373.61	1373.56	(0.05)	1215	1384.05	1384.05	0.00
526	1373.64	1373.60	(0.04)	1216	1385.30	1385.30	0.00
527	1374.01	1374.01	0.00	1217	1386.50	1386.50	0.00
528	1374.49	1374.49	0.00	1218	1386.77	1386.77	0.00
529	1375.06	1375.05	(0.01)	1219	1387.16	1387.16	0.00
530	1376.43	1376.43	0.00	1220	1387.04	1387.04	0.00
531	1376.50	1376.50	0.00	1221	1388.11	1388.11	0.00
532	1376.56	1376.56	0.00	1222	1389.65	1389.65	0.00
533	1376.63	1376.63	0.00	1223	1390.83	1390.83	0.00
534	1376.94	1376.94	0.00	1224	1391.76	1391.76	0.00
535	1377.16	1377.16	0.00	1225	1392.01	1392.01	0.00
536	1377.40	1377.40	0.00	1226	1391.85	1391.85	0.00
537	1378.03	1378.03	0.00	1227	1395.34	1395.34	0.00
538	1378.83	1378.83	0.00	1228	1398.31	1398.31	0.00
539	1380.29	1380.29	0.00	1229	1365.41	1365.40	(0.01)
540	1380.85	1380.85	0.00	1230	1365.96	1365.94	(0.02)

Table E-5
Comparison of Existing and Proposed Conditions FLO-2D Modeling Results

Grid Element	Maximum WSEL Existing Condition	Maximum WSEL Proposed MVCC	Delta WSEL
541	1382.80	1382.79	(0.01)
542	1382.84	1382.84	0.00
543	1383.69	1383.70	0.01
544	1383.81	1383.81	0.00
545	1383.92	1383.92	0.00
546	1383.97	1383.97	0.00
547	1383.98	1383.99	0.01
548	1385.40	1385.41	0.01
549	1385.50	1385.50	0.00
550	1385.95	1385.95	0.00
551	1387.45	1387.45	0.00
552	1387.91	1387.90	(0.01)
553	1388.00	1388.00	0.00
554	1366.88	1366.79	(0.09)
555	1366.87	1366.76	(0.11)
556	1367.18	1367.12	(0.06)
557	1369.55	1369.55	0.00
558	1369.69	1369.69	0.00
559	1369.58	1369.58	0.00
560	1369.53	1369.53	0.00
561	1369.38	1369.11	(0.27)
562	1369.44	1370.80	1.36
563	1370.12	1370.85	0.73
564	1370.70	1370.90	0.20
565	1371.38	1371.03	(0.35)
566	1371.63	1372.20	0.57
567	1371.73	1371.49	(0.24)
568	1373.56	1373.02	(0.54)
569	1373.60	1373.07	(0.53)
570	1373.64	1373.58	(0.06)
571	1373.65	1373.63	(0.02)
572	1373.96	1373.96	0.00
573	1374.28	1374.28	0.00
574	1374.71	1374.70	(0.01)
575	1376.57	1376.57	0.00
576	1376.67	1376.67	0.00
577	1376.76	1376.77	0.01
578	1376.81	1376.82	0.01
579	1377.25	1377.26	0.01
580	1377.43	1377.43	0.00
581	1377.74	1377.74	0.00
582	1377.87	1377.87	0.00
583	1378.55	1378.55	0.00
584	1380.26	1380.26	0.00
585	1380.25	1380.25	0.00
586	1380.35	1380.35	0.00
587	1383.01	1383.01	0.00
588	1383.67	1383.68	0.01
589	1382.05	1382.05	0.00
590	1384.00	1384.02	0.02
591	1384.34	1384.34	0.00
592	1384.66	1384.66	0.00
593	1385.34	1385.34	0.00
594	1385.73	1385.73	0.00

Grid Element	Maximum WSEL Existing Condition	Maximum WSEL Proposed MVCC	Delta WSEL
1231	1366.13	1366.12	(0.01)
1232	1366.23	1366.24	0.01
1233	1366.37	1366.35	(0.02)
1234	1366.46	1366.45	(0.01)
1235	1366.54	1366.53	(0.01)
1236	1366.60	1366.61	0.01
1237	1366.80	1366.79	(0.01)
1238	1367.03	1367.02	(0.01)
1239	1367.20	1367.19	(0.01)
1240	1367.43	1367.42	(0.01)
1241	1367.76	1367.76	0.00
1242	1368.11	1368.11	0.00
1243	1368.49	1368.49	0.00
1244	1369.01	1369.00	(0.01)
1245	1369.58	1369.56	(0.02)
1246	1365.42	1365.41	(0.01)
1247	1366.02	1366.02	0.00
1248	1365.98	1365.98	0.00
1249	1366.07	1366.07	0.00
1250	1367.32	1367.32	0.00
1251	1367.56	1367.56	0.00
1252	1367.86	1367.86	0.00
1253	1367.88	1367.88	0.00
1254	1367.60	1367.60	0.00
1255	1367.64	1367.64	0.00
1256	1367.95	1367.95	0.00
1257	1368.22	1368.22	0.00
1258	1368.61	1368.61	0.00
1259	1369.24	1369.24	0.00
1260	1369.92	1369.92	0.00
1261	1370.22	1370.22	0.00
1262	1370.44	1370.44	0.00
1263	1365.46	1365.46	0.00
1264	1366.01	1366.01	0.00
1265	1366.49	1366.49	0.00
1266	1367.13	1367.13	0.00
1267	1367.32	1367.32	0.00
1268	1367.82	1367.82	0.00
1269	1368.10	1368.10	0.00
1270	1367.89	1367.89	0.00
1271	1368.27	1368.27	0.00
1272	1368.10	1368.10	0.00
1273	1368.22	1368.22	0.00
1274	1368.12	1368.12	0.00
1275	1368.90	1368.90	0.00
1276	1365.34	1365.34	0.00
1277	1365.92	1365.92	0.00
1278	1366.46	1366.46	0.00
1279	1367.08	1367.08	0.00
1280	1367.45	1367.45	0.00
1281	1367.74	1367.74	0.00
1282	1367.95	1367.95	0.00
1283	1367.63	1367.63	0.00
1284	1368.40	1368.40	0.00

Table E-5
Comparison of Existing and Proposed Conditions FLO-2D Modeling Results

Grid Element	Maximum WSEL Existing Condition	Maximum WSEL Proposed MVCC	Delta WSEL
595	1385.85	1385.85	0.00
596	1386.45	1386.45	0.00
597	1387.16	1387.17	0.01
598	1387.14	1387.14	0.00
599	1366.80	1366.71	(0.09)
600	1366.80	1366.72	(0.08)
601	1367.32	1367.43	0.11
602	1368.80	1368.10	(0.70)
603	1369.24	1368.41	(0.83)
604	1369.30	1368.74	(0.56)
605	1369.36	1369.19	(0.17)
606	1369.38	1369.05	(0.33)
607	1369.42	1370.65	1.23
608	1370.06	1370.71	0.65
609	1370.52	1370.78	0.26
610	1371.21	1371.01	(0.20)
611	1371.55	1372.20	0.65
612	1371.76	1371.49	(0.27)
613	1373.57	1373.07	(0.50)
614	1373.55	1373.45	(0.10)
615	1373.64	1373.58	(0.06)
616	1373.68	1373.66	(0.02)
617	1374.19	1374.19	0.00
618	1374.25	1374.25	0.00
619	1374.53	1374.53	0.00
620	1375.79	1375.79	0.00
621	1376.07	1376.07	0.00
622	1376.51	1376.51	0.00
623	1376.83	1376.83	0.00
624	1377.48	1377.48	0.00
625	1377.89	1377.89	0.00
626	1377.97	1377.97	0.00
627	1378.60	1378.60	0.00
628	1378.86	1378.86	0.00
629	1380.22	1380.22	0.00
630	1380.26	1380.26	0.00
631	1380.23	1380.23	0.00
632	1383.01	1383.01	0.00
633	1383.58	1383.57	(0.01)
634	1383.91	1383.91	0.00
635	1384.18	1384.19	0.01
636	1384.17	1384.16	(0.01)
637	1384.34	1384.34	0.00
638	1385.07	1385.07	0.00
639	1385.20	1385.20	0.00
640	1385.56	1385.56	0.00
641	1385.79	1385.79	0.00
642	1387.05	1387.05	0.00
643	1387.06	1387.07	0.01
644	1366.75	1366.68	(0.07)
645	1366.75	1366.68	(0.07)
646	1366.81	1366.97	0.16
647	1367.41	1367.71	0.30
648	1367.86	1368.23	0.37

Grid Element	Maximum WSEL Existing Condition	Maximum WSEL Proposed MVCC	Delta WSEL
1285	1365.32	1365.32	0.00
1286	1365.90	1365.90	0.00
1287	1366.39	1366.39	0.00
1288	1366.64	1366.64	0.00
1289	1365.26	1365.26	0.00
1290	1366.75	1366.75	0.00
1291	1367.85	1367.85	0.00
1292	1368.22	1368.22	0.00
1293	1365.44	1365.44	0.00
1294	1365.82	1365.82	0.00
1295	1366.44	1366.44	0.00
1296	1365.86	1365.86	0.00
1297	1366.04	1366.04	0.00
1298	1366.95	1366.95	0.00
1299	1368.21	1368.21	0.00
1300	1370.29	1370.29	0.00
1301	1370.60	1370.60	0.00
1302	1371.30	1371.30	0.00
1303	1371.90	1371.90	0.00
1304	1373.00	1373.00	0.00
1305	1373.60	1373.60	0.00
1306	1374.60	1374.60	0.00
1307	1375.40	1375.40	0.00
1308	1365.55	1365.55	0.00
1309	1365.77	1365.77	0.00
1310	1366.52	1366.52	0.00
1311	1367.21	1367.21	0.00
1312	1367.38	1367.38	0.00
1313	1367.52	1367.52	0.00
1314	1367.82	1367.82	0.00
1315	1365.55	1365.55	0.00
1316	1365.51	1365.51	0.00
1317	1366.29	1366.29	0.00
1318	1367.15	1367.15	0.00
1319	1367.17	1367.17	0.00
1320	1367.25	1367.25	0.00
1321	1366.98	1366.98	0.00
1322	1365.54	1365.54	0.00
1323	1365.61	1365.61	0.00
1324	1366.16	1366.16	0.00
1325	1367.25	1367.25	0.00
1326	1366.80	1366.80	0.00
1327	1367.00	1367.00	0.00
1328	1366.71	1366.71	0.00
1329	1365.52	1365.51	(0.01)
1330	1365.63	1365.63	0.00
1331	1365.82	1365.82	0.00
1332	1366.31	1366.31	0.00
1333	1366.37	1366.37	0.00
1334	1366.09	1366.09	0.00
1335	1366.41	1366.41	0.00
1336	1365.47	1365.47	0.00
1337	1365.89	1365.90	0.01
1338	1365.89	1365.89	0.00

Table E-5
Comparison of Existing and Proposed Conditions FLO-2D Modeling Results

Grid Element	Maximum WSEL Existing Condition	Maximum WSEL Proposed MVCC	Delta WSEL
649	1368.29	1368.52	0.23
650	1368.87	1368.95	0.08
651	1369.23	1369.76	0.53
652	1369.44	1370.54	1.10
653	1369.91	1370.66	0.75
654	1370.28	1370.70	0.42
655	1370.76	1370.70	(0.06)
656	1371.33	1372.20	0.87
657	1371.78	1371.35	(0.43)
658	1373.13	1373.04	(0.09)
659	1373.54	1373.47	(0.07)
660	1373.64	1373.59	(0.05)
661	1373.70	1373.67	(0.03)
662	1373.83	1373.81	(0.02)
663	1374.10	1374.10	0.00
664	1374.24	1374.25	0.01
665	1374.81	1374.81	0.00
666	1375.65	1375.65	0.00
667	1376.02	1376.02	0.00
668	1376.78	1376.78	0.00
669	1377.59	1377.58	(0.01)
670	1378.20	1378.20	0.00
671	1378.59	1378.59	0.00
672	1379.01	1379.01	0.00
673	1379.32	1379.32	0.00
674	1380.12	1380.11	(0.01)
675	1380.61	1380.61	0.00
676	1381.28	1381.27	(0.01)
677	1382.83	1382.82	(0.01)
678	1383.45	1383.44	(0.01)
679	1383.63	1383.62	(0.01)
680	1383.95	1383.93	(0.02)
681	1384.15	1384.14	(0.01)
682	1384.44	1384.44	0.00
683	1384.96	1384.96	0.00
684	1385.14	1385.14	0.00
685	1385.38	1385.38	0.00
686	1385.96	1385.97	0.01
687	1386.91	1386.92	0.01
688	1386.98	1386.98	0.00
689	1366.71	1366.66	(0.05)
690	1366.72	1366.66	(0.06)

Grid Element	Maximum WSEL Existing Condition	Maximum WSEL Proposed MVCC	Delta WSEL
1339	1365.81	1365.81	0.00
1340	1365.92	1365.92	0.00
1341	1366.24	1366.24	0.00
1342	1366.79	1366.79	0.00
1343	1366.18	1366.18	0.00
1344	1366.20	1366.19	(0.01)
1345	1366.72	1366.72	0.00
1346	1367.68	1367.68	0.00
1347	1369.24	1369.24	0.00
1348	1366.47	1366.47	0.00
1349	1366.50	1366.49	(0.01)
1350	1367.18	1367.18	0.00
1351	1368.46	1368.46	0.00
1352	1368.97	1368.97	0.00
1353	1366.68	1366.69	0.01
1354	1366.66	1366.66	0.00
1355	1366.63	1366.63	0.00
1356	1366.56	1366.55	(0.01)
1357	1367.15	1367.15	0.00
1358	1366.91	1366.91	0.00
1359	1366.86	1366.85	(0.01)
1360	1366.94	1366.94	0.00
1361	1367.27	1367.27	0.00
1362	1367.15	1367.13	(0.02)
1363	1367.13	1367.14	0.01
1364	1367.51	1367.51	0.00
1365	1367.86	1367.86	0.00
1366	1367.35	1367.32	(0.03)
1367	1367.38	1367.37	(0.01)
1368	1367.47	1367.47	0.00
1369	1367.48	1367.48	0.00
1370	1367.44	1367.45	0.01
1371	1367.73	1367.73	0.00
1372	1367.51	1367.50	(0.01)
1373	1367.48	1367.48	0.00

THIS OUTPUT FILE WAS CREATED ON: 9/ 4/2003 AT: 10:30:50

THIS RUN WAS EXECUTED WITH MODEL VERSION 2001.06 CREATED MARCH, 2002

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INFLOW HYDROGRAPH AT NODE 1227

HOUR	CFS
0.00	0.
3.25	0.
3.33	1.
3.41	2.
3.58	3.
3.67	6.
3.75	7.
3.83	12.
3.92	19.
4.00	22.
4.08	16.
4.16	8.
4.25	4.
4.58	0.

INFLOW HYDROGRAPH AT NODE 1371

HOUR	CFS
0.00	0.
0.08	1.
0.17	2.
0.33	3.
0.75	3.
2.41	4.
2.50	5.
3.25	8.
3.33	11.
3.42	19.
3.50	27.
3.58	45.
3.67	73.
3.75	95.
3.83	154.
3.91	250.
4.00	320.
4.08	307.
4.17	227.
4.25	162.
4.33	112.
4.42	73.
4.50	48.
4.58	35.
4.67	25.
4.75	19.
4.83	15.
4.91	12.
5.25	7.
6.92	0.

INFLOW HYDROGRAPH AT NODE 1300

HOUR	CFS
0.00	0.
0.25	1.
2.50	2.
3.25	3.
3.33	3.
3.50	7.
3.58	12.
3.67	20.
3.75	27.
3.83	42.
3.91	67.
4.00	88.
4.08	88.
4.17	68.
4.25	49.
4.33	35.
4.42	23.
4.50	16.
4.58	8.
4.67	5.
4.75	4.
4.91	3.
6.33	0.

INFLOW HYDROGRAPH AT NODE 553

HOUR	CFS
0.00	0.
0.33	1.
0.75	3.

2.58	4.
2.75	5.
3.08	6.
3.17	7.
3.42	9.
3.50	11.
3.58	17.
3.67	30.
3.75	58.
3.83	125.
3.91	226.
4.00	377.
4.08	617.
4.17	864.
4.25	970.
4.33	868.
4.42	663.
4.50	492.
4.58	359.
4.67	256.
4.75	182.
4.83	130.
4.91	93.
5.00	67.
5.08	49.
5.17	35.
5.25	26.
5.33	19.
5.42	13.
5.50	9.
5.58	6.
6.83	0.

==========

MAXIMUM WATER SURFACE VALUES FOR FLOODPLAIN

NODE	31	32	33	34	35	36	37	38	39	40
ELEVATION	1374.73	1374.73	1375.12	1375.58	1376.14	1376.40	1376.87	1377.57	1378.42	1379.61
MAX DEPTH	0.00	0.00	0.03	0.10	0.10	0.29	0.34	0.37	0.01	0.00
VELOCITY	0.00	0.00	0.00	0.00	0.29	1.08	1.13	1.25	0.00	0.00
TIME	6.00	6.00	6.00	5.41	4.45	4.45	4.47	4.45	4.54	6.00
MAX VEL	0.00	0.00	0.00	0.37	0.37	1.09	1.50	1.71	0.00	0.00
DEPTH	0.00	0.00	0.00	0.10	0.10	0.29	0.31	0.36	0.00	0.00
TIME	0.00	0.00	0.00	5.78	5.98	4.44	4.52	4.42	0.00	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	41	42	43	44	45	46	47	48	49	50
ELEVATION	1378.81	1378.91	1378.96	1379.22	1379.63	1379.76	1379.95	1380.11	1380.21	1380.42
MAX DEPTH	0.12	1.22	1.08	0.61	0.51	1.24	0.53	1.14	0.94	0.52
VELOCITY	0.16	2.25	1.66	2.38	2.02	2.30	1.76	2.25	1.99	1.71
TIME	4.49	4.44	4.44	4.41	4.38	4.39	4.38	4.38	4.38	4.38
MAX VEL	0.17	2.66	4.11	3.56	2.27	2.67	2.67	2.51	2.99	2.74
DEPTH	0.12	0.80	0.72	0.50	0.50	0.85	0.50	0.78	0.52	0.50
TIME	4.50	4.24	4.23	4.31	4.39	4.19	4.31	4.16	4.15	4.32
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	51	52	53	54	55	56	57	58	59	60
ELEVATION	1380.89	1381.35	1381.34	1382.12	1382.97	1383.76	1384.68	1385.46	1368.14	1368.33
MAX DEPTH	0.10	0.00	0.28	0.28	0.34	0.20	0.10	0.00	0.00	0.00
VELOCITY	0.00	0.00	0.51	0.45	1.04	0.81	0.00	0.00	0.00	0.00
TIME	4.43	6.00	4.38	4.35	4.32	4.35	4.43	6.00	6.00	6.00
MAX VEL	0.22	0.00	0.51	1.48	1.60	1.49	0.30	0.00	0.00	0.00
DEPTH	0.10	0.00	0.28	0.25	0.34	0.20	0.10	0.00	0.00	0.00
TIME	4.50	0.00	4.38	4.36	4.33	4.36	4.51	0.00	0.00	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	61	62	63	64	65	66	67	68	69	70
ELEVATION	1368.51	1368.68	1369.07	1369.72	1370.36	1371.05	1371.26	1371.48	1371.82	1372.21
MAX DEPTH	0.00	0.03	0.10	0.16	0.34	0.37	0.45	0.34	0.52	0.85
VELOCITY	0.00	0.00	0.00	0.37	1.09	1.01	0.98	0.75	1.55	1.83
TIME	6.00	6.00	5.35	4.61	4.59	4.55	4.63	4.48	4.46	4.45
MAX VEL	0.00	0.00	0.29	0.44	1.15	1.51	1.50	1.50	1.50	4.02
DEPTH	0.00	0.00	0.10	0.14	0.26	0.37	0.44	0.32	0.48	0.75
TIME	0.00	0.00	5.73	4.63	4.61	4.55	4.58	4.52	4.53	4.45
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	71	72	73	74	75	76	77	78	79	80
ELEVATION	1372.55	1372.84	1373.06	1373.41	1373.78	1374.13	1374.42	1374.68	1374.90	1375.35
MAX DEPTH	0.82	0.84	0.89	0.88	0.84	0.83	1.03	1.03	0.97	0.81
VELOCITY	2.91	2.02	3.64	4.09	2.27	1.77	3.97	3.49	3.29	3.40
TIME	4.43	4.42	4.41	4.39	4.38	4.37	4.52	4.51	4.50	4.33
MAX VEL	5.42	5.40	5.32	5.84	5.63	5.40	5.30	5.73	5.77	6.03
DEPTH	0.77	0.81	0.89	0.84	0.83	0.80	0.90	0.88	0.87	0.75
TIME	4.43	4.42	4.41	4.40	4.38	4.37	4.36	4.35	4.34	4.33

ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	81	82	83	84	85	86	87	88	89	90
ELEVATION	1375.96	1376.62	1377.43	1378.09	1378.53	1378.76	1378.87	1378.96	1379.26	1379.60
MAX DEPTH	0.77	0.75	0.70	0.81	1.00	1.16	1.10	0.88	0.84	1.11
VELOCITY	2.19	2.62	2.55	4.56	4.06	3.12	2.20	1.95	2.85	3.76
TIME	4.32	4.31	4.30	4.45	4.45	4.43	4.44	4.44	4.42	4.39
MAX VEL	5.97	5.83	5.97	6.06	5.59	4.39	4.02	2.63	4.36	5.24
DEPTH	0.71	0.68	0.61	0.79	0.99	1.14	0.67	0.87	0.79	1.08
TIME	4.32	4.31	4.30	4.43	4.44	4.42	4.24	4.42	4.37	4.35
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	91	92	93	94	95	96	97	98	99	100
ELEVATION	1379.76	1379.94	1380.11	1380.22	1380.51	1380.82	1381.09	1381.27	1382.04	1383.55
MAX DEPTH	1.01	1.03	0.95	0.92	0.88	0.86	0.73	0.34	0.34	0.23
VELOCITY	2.58	3.17	2.77	1.99	3.15	3.42	2.57	0.80	1.00	1.17
TIME	4.39	4.38	4.38	4.38	4.37	4.38	4.38	4.38	4.35	4.31
MAX VEL	3.85	4.47	3.56	2.80	4.42	4.57	3.65	1.50	1.58	1.17
DEPTH	0.64	0.77	0.94	0.91	0.86	0.85	0.70	0.27	0.32	0.23
TIME	4.19	4.18	4.38	4.37	4.34	4.38	4.40	4.46	4.36	4.31
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	101	102	103	104	105	106	107	108	109	110
ELEVATION	1384.44	1385.28	1386.27	1367.36	1367.44	1368.14	1368.27	1368.29	1368.95	1370.49
MAX DEPTH	0.36	0.17	0.00	0.00	0.10	0.08	0.75	0.54	0.35	0.14
VELOCITY	1.03	0.42	0.00	0.00	0.00	0.00	0.75	0.50	1.09	0.29
TIME	4.29	4.30	6.00	6.00	4.82	6.00	4.83	4.84	4.62	4.59
MAX VEL	1.56	0.58	0.00	0.00	0.00	0.00	0.76	1.50	1.70	0.49
DEPTH	0.34	0.17	0.00	0.00	0.00	0.00	0.74	0.52	0.32	0.14
TIME	4.29	4.30	0.00	0.00	0.00	0.00	4.83	4.84	4.63	4.59
ST. DEPTH	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	2.19	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	5.21	0.00	0.00	0.00	0.00	0.00

NODE	111	112	113	114	115	116	117	118	119	120
ELEVATION	1371.40	1371.63	1371.27	1371.62	1372.14	1372.48	1372.67	1373.13	1373.49	1373.63
MAX DEPTH	0.00	0.00	0.52	0.65	0.24	0.35	0.21	0.16	0.20	0.25
VELOCITY	0.00	0.00	1.27	1.48	1.04	0.91	0.73	0.29	0.50	0.63
TIME	6.00	6.00	4.61	4.46	4.45	4.44	4.42	4.54	4.55	4.40
MAX VEL	0.00	0.00	1.60	2.93	1.50	1.50	1.49	0.55	1.39	1.50
DEPTH	0.00	0.00	0.51	0.53	0.20	0.22	0.20	0.16	0.20	0.23
TIME	0.00	0.00	4.48	4.47	4.53	4.74	4.54	4.55	4.55	4.60
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	121	122	123	124	125	126	127	128	129	130
ELEVATION	1373.73	1374.38	1374.68	1374.94	1375.38	1376.01	1376.73	1378.51	1379.07	1378.24
MAX DEPTH	0.23	0.20	0.55	0.49	0.40	0.47	0.24	0.00	0.00	0.65
VELOCITY	0.66	0.78	1.41	1.03	1.35	1.28	0.93	0.00	0.00	1.95
TIME	4.56	4.52	4.51	4.50	4.49	4.51	4.47	6.00	6.00	4.44
MAX VEL	1.50	1.50	1.70	1.50	1.50	1.82	1.50	0.00	0.00	1.95
DEPTH	0.22	0.20	0.54	0.47	0.34	0.47	0.24	0.00	0.00	0.65
TIME	4.52	4.51	4.55	4.47	4.33	4.55	4.50	0.00	0.00	4.44
ST. DEPTH	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	1.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	4.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	131	132	133	134	135	136	137	138	139	140
ELEVATION	1378.66	1378.82	1378.85	1379.80	1379.93	1380.19	1380.29	1380.43	1380.93	1381.04
MAX DEPTH	1.24	1.02	0.99	0.50	0.03	0.10	0.20	0.11	0.02	0.34
VELOCITY	1.72	1.73	0.52	1.39	0.00	0.14	0.59	0.21	0.00	1.04
TIME	4.45	4.45	4.40	4.50	4.93	4.57	4.42	4.49	6.00	4.37
MAX VEL	2.43	1.74	1.50	2.07	0.00	0.33	1.49	0.32	0.00	1.55
DEPTH	1.24	1.01	0.89	0.41	0.00	0.10	0.20	0.11	0.00	0.34
TIME	4.45	4.40	4.51	4.65	0.00	4.93	4.53	4.50	0.00	4.37
ST. DEPTH	0.00	0.00	0.00	1.57	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	5.64	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	4.50	0.00	0.00	0.00	0.00	0.00	0.00

NODE	141	142	143	144	145	146	147	148	149	150
ELEVATION	1381.75	1382.25	1382.74	1383.85	1384.55	1385.20	1385.92	1386.86	1367.12	1367.00
MAX DEPTH	0.79	0.00	0.00	0.00	0.10	0.20	0.35	0.00	0.33	0.42
VELOCITY	3.04	0.00	0.00	0.00	0.00	0.43	0.67	0.00	0.00	0.12
TIME	4.34	6.00	6.00	6.00	4.41	4.28	4.25	6.00	4.80	4.80
MAX VEL	4.41	0.00	0.00	0.00	0.42	1.16	1.81	0.00	0.00	0.21
DEPTH	0.75	0.00	0.00	0.00	0.10	0.20	0.32	0.00	0.00	0.32
TIME	4.35	0.00	0.00	0.00	4.58	4.28	4.27	0.00	0.00	4.91
ST. DEPTH	2.03	0.00	0.00	0.00	0.00	0.00	0.85	0.00	0.00	0.72
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.72
TIME	4.34	0.00	0.00	0.00	0.00	0.00	4.26	0.00	0.00	4.76

NODE	151	152	153	154	155	156	157	158	159	160
ELEVATION	1367.89	1369.58	1369.48	1368.78	1370.75	1371.80	1371.31	1371.15	1371.18	1371.67
MAX DEPTH	0.19	0.00	0.00	0.17	0.00	0.00	0.00	0.68	0.64	0.20
VELOCITY	0.45	0.00	0.00	0.28	0.00	0.00	0.00	1.72	1.32	0.48
TIME	4.85	6.00	6.00	4.72	6.00	6.00	6.00	4.62	4.62	4.64
MAX VEL	0.45	0.00	0.00	0.56	0.00	0.00	0.00	1.75	1.50	0.80
DEPTH	0.19	0.00	0.00	0.16	0.00	0.00	0.00	0.67	0.45	0.20

TIME	4.87	0.00	0.00	4.72	0.00	0.00	0.00	4.56	4.85	4.64
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	161	162	163	164	165	166	167	168	169	170
ELEVATION	1371.92	1372.71	1372.99	1373.30	1373.19	1373.39	1374.57	1374.75	1374.85	1375.11
MAX DEPTH	0.38	0.55	0.20	0.10	0.60	0.24	0.00	1.01	0.43	0.00
VELOCITY	0.67	0.94	0.44	0.18	0.58	0.71	0.00	1.45	0.78	0.00
TIME	4.59	4.63	4.64	4.54	4.59	4.56	6.00	4.55	4.53	6.00
MAX VEL	0.67	1.50	0.82	0.29	0.66	1.50	0.00	1.50	1.50	0.00
DEPTH	0.37	0.48	0.20	0.10	0.56	0.23	0.00	0.96	0.31	0.00
TIME	4.59	4.55	4.64	5.28	4.53	4.52	0.00	4.60	4.43	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	1.33	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	4.59	0.00	0.00	0.00	0.00

NODE	171	172	173	174	175	176	177	178	179	180
ELEVATION	1376.15	1376.74	1376.82	1377.19	1377.39	1378.29	1377.67	1378.84	1380.01	1379.96
MAX DEPTH	0.79	0.10	0.60	0.80	1.06	1.00	0.00	0.74	1.11	0.20
VELOCITY	0.77	0.13	1.16	1.71	1.35	1.78	0.00	0.28	1.03	0.39
TIME	4.56	4.55	4.47	4.46	4.46	4.46	6.00	4.45	4.50	4.54
MAX VEL	1.50	0.24	1.50	2.00	1.77	1.86	0.00	1.47	1.50	1.40
DEPTH	0.75	0.10	0.60	0.79	1.06	0.92	0.00	0.27	1.04	0.20
TIME	4.52	4.60	4.47	4.46	4.47	4.37	0.00	4.69	4.46	4.54
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.53	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.44	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.45	0.00

NODE	181	182	183	184	185	186	187	188	189	190
ELEVATION	1380.27	1380.50	1380.71	1381.12	1381.89	1383.16	1383.62	1383.59	1383.65	1384.09
MAX DEPTH	0.00	0.15	0.50	0.00	0.20	0.00	0.00	0.00	0.00	0.11
VELOCITY	0.00	0.21	0.95	0.00	0.89	0.00	0.00	0.00	0.00	0.00
TIME	6.00	4.51	4.42	6.00	4.37	6.00	6.00	6.00	6.00	4.60
MAX VEL	0.00	0.41	1.50	0.00	1.44	0.00	0.00	0.00	0.00	0.00
DEPTH	0.00	0.14	0.47	0.00	0.20	0.00	0.00	0.00	0.00	0.00
TIME	0.00	4.47	4.40	0.00	4.40	0.00	0.00	0.00	0.00	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	1.14	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	4.66	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	4.34	0.00	0.00	0.00	0.00

NODE	191	192	193	194	195	196	197	198	199	200
ELEVATION	1386.08	1386.11	1387.82	1367.08	1367.00	1367.01	1368.33	1368.30	1370.40	1371.75
MAX DEPTH	0.00	0.00	0.00	0.68	0.80	0.22	0.00	0.18	0.00	0.00
VELOCITY	0.00	0.00	0.00	0.00	0.09	0.12	0.00	0.11	0.00	0.00
TIME	6.00	6.00	6.00	4.76	4.76	4.80	6.00	5.09	6.00	6.00
MAX VEL	0.00	0.00	0.00	0.00	1.47	0.54	0.00	0.11	0.00	0.00
DEPTH	0.00	0.00	0.00	0.00	0.72	0.20	0.00	0.18	0.00	0.00
TIME	0.00	0.00	0.00	0.00	4.67	4.85	0.00	5.08	0.00	0.00
ST. DEPTH	0.00	0.35	0.00	0.00	1.12	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	2.76	0.00	0.00	4.51	0.00	0.00	0.00	0.00	0.00
TIME	0.00	4.27	0.00	0.00	4.79	0.00	0.00	0.00	0.00	0.00

NODE	201	202	203	204	205	206	207	208	209	210
ELEVATION	1371.88	1370.99	1371.02	1371.07	1371.59	1371.85	1372.60	1372.87	1373.10	1373.13
MAX DEPTH	0.00	0.12	0.69	0.68	0.32	0.53	0.48	0.90	0.83	0.76
VELOCITY	0.00	0.15	1.98	1.27	1.07	1.08	1.50	1.31	1.35	0.70
TIME	6.00	4.66	4.63	4.62	4.63	4.63	4.62	4.62	4.62	4.61
MAX VEL	0.00	0.16	2.07	1.50	1.57	1.50	2.18	1.55	1.74	1.50
DEPTH	0.00	0.10	0.65	0.66	0.26	0.50	0.47	0.89	0.82	0.71
TIME	0.00	4.76	4.52	4.56	4.46	4.71	4.68	4.64	4.59	4.55
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	211	212	213	214	215	216	217	218	219	220
ELEVATION	1373.24	1373.28	1374.76	1375.16	1376.33	1376.17	1376.35	1376.48	1375.98	1376.21
MAX DEPTH	0.36	0.05	0.85	0.00	0.00	0.73	0.28	1.06	0.00	0.00
VELOCITY	0.65	0.00	0.19	0.00	0.00	0.31	0.79	1.07	0.00	0.00
TIME	4.59	6.00	4.55	6.00	6.00	4.56	4.52	4.49	6.00	6.00
MAX VEL	1.50	0.00	0.51	0.00	0.00	1.19	1.50	1.51	0.00	0.00
DEPTH	0.25	0.00	0.83	0.00	0.00	0.67	0.24	0.79	0.00	0.00
TIME	4.46	0.00	4.55	0.00	0.00	4.62	4.62	4.34	0.00	0.00
ST. DEPTH	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	2.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	4.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	221	222	223	224	225	226	227	228	229	230
ELEVATION	1377.90	1377.83	1377.80	1380.08	1380.01	1380.61	1380.54	1381.21	1381.29	1381.61
MAX DEPTH	1.06	0.26	0.31	0.98	0.08	0.00	0.00	0.78	0.00	0.00
VELOCITY	0.91	0.20	0.07	0.73	0.00	0.00	0.00	2.04	0.00	0.00
TIME	4.49	4.51	4.52	4.46	6.00	6.00	6.00	4.42	6.00	6.00
MAX VEL	1.60	0.39	0.10	1.50	0.00	0.00	0.00	2.27	0.00	0.00
DEPTH	0.67	0.24	0.21	0.91	0.00	0.00	0.00	0.77	0.00	0.00
TIME	4.31	4.45	4.67	4.58	0.00	0.00	0.00	4.39	0.00	0.00
ST. DEPTH	0.00	0.00	0.00	1.47	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	7.07	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	4.50	0.00	0.00	0.00	0.00	0.00	0.00

NODE	231	232	233	234	235	236	237	238	239	240
ELEVATION	1382.80	1383.95	1384.48	1385.13	1386.16	1386.93	1386.84	1388.41	1367.11	1367.02
MAX DEPTH	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.85
VELOCITY	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32
TIME	4.31	6.00	6.00	6.00	6.00	6.00	6.00	6.00	4.73	4.73
MAX VEL	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.36

DEPTH	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26
TIME	4.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.60
ST. DEPTH	0.90	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	1.18
MAX STVEL	5.65	0.00	0.00	0.00	0.00	0.00	2.83	0.00	0.00	4.84
TIME	4.32	0.00	0.00	0.00	0.00	0.00	4.19	0.00	0.00	4.76

NODE	241	242	243	244	245	246	247	248	249	250
ELEVATION	1367.45	1368.19	1368.87	1370.16	1370.59	1370.91	1370.80	1370.81	1370.98	1371.36
MAX DEPTH	0.03	0.10	0.00	0.00	0.00	0.01	0.46	0.83	0.63	0.53
VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	1.01	2.37	1.55	1.13
TIME	6.00	5.34	6.00	6.00	6.00	6.00	4.63	4.63	4.63	4.64
MAX VEL	0.00	0.29	0.00	0.00	0.00	0.00	1.02	2.38	1.70	1.73
DEPTH	0.00	0.10	0.00	0.00	0.00	0.00	0.46	0.83	0.62	0.46
TIME	0.00	5.34	0.00	0.00	0.00	0.00	4.61	4.62	4.64	4.46
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	251	252	253	254	255	256	257	258	259	260
ELEVATION	1371.84	1372.49	1372.83	1373.07	1373.13	1373.23	1373.48	1374.27	1375.60	1376.75
MAX DEPTH	0.61	0.57	1.36	1.16	1.06	0.50	0.00	0.00	0.00	0.00
VELOCITY	1.33	1.77	1.56	1.28	0.90	0.90	0.00	0.00	0.00	0.00
TIME	4.62	4.61	4.64	4.61	4.62	4.62	6.00	6.00	6.00	6.00
MAX VEL	1.93	2.35	2.01	1.58	1.50	1.50	0.00	0.00	0.00	0.00
DEPTH	0.60	0.57	1.36	1.13	0.95	0.44	0.00	0.00	0.00	0.00
TIME	4.63	4.61	4.64	4.56	4.52	4.66	0.00	0.00	0.00	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	3.46	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	4.63	0.00	0.00	0.00	0.00

NODE	261	262	263	264	265	266	267	268	269	270
ELEVATION	1376.34	1376.55	1376.37	1376.37	1376.36	1377.80	1377.80	1377.80	1380.15	1380.31
MAX DEPTH	0.00	0.00	1.14	0.81	0.32	1.45	0.88	0.63	0.95	0.00
VELOCITY	0.00	0.00	0.61	0.45	0.13	0.71	0.54	0.40	0.31	0.00
TIME	6.00	6.00	4.54	4.53	4.54	4.51	4.51	4.52	4.50	6.00
MAX VEL	0.00	0.00	1.09	0.75	0.34	1.09	1.32	1.49	1.50	0.00
DEPTH	0.00	0.00	0.86	0.50	0.14	1.04	0.85	0.59	0.83	0.00
TIME	0.00	0.00	4.37	4.37	4.86	4.35	4.45	4.46	4.60	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.35	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.42	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.45	0.00

NODE	271	272	273	274	275	276	277	278	279	280
ELEVATION	1380.36	1380.70	1381.30	1381.21	1383.14	1383.02	1383.87	1384.22	1385.06	1386.02
MAX DEPTH	0.00	0.00	0.52	0.13	1.13	0.50	0.04	0.07	0.01	0.00
VELOCITY	0.00	0.00	0.79	0.08	0.85	0.72	0.00	0.00	0.00	0.00
TIME	6.00	6.00	4.41	4.49	4.33	4.32	6.00	6.00	4.84	6.00
MAX VEL	0.00	0.00	1.65	0.39	1.50	1.50	0.00	0.00	0.00	0.00
DEPTH	0.00	0.00	0.50	0.13	1.02	0.31	0.00	0.00	0.00	0.00
TIME	0.00	0.00	4.33	4.50	4.41	4.44	0.00	0.00	0.00	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	5.11	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	4.33	0.00	0.00	0.00	0.00

NODE	281	282	283	284	285	286	287	288	289	290
ELEVATION	1386.61	1386.89	1388.72	1367.03	1367.03	1367.86	1369.45	1369.98	1369.91	1370.01
MAX DEPTH	0.01	0.00	0.00	0.61	0.83	0.01	0.00	0.00	0.02	0.65
VELOCITY	0.00	0.00	0.00	0.13	0.04	0.00	0.00	0.00	0.00	0.64
TIME	6.00	6.00	6.00	4.74	4.74	6.00	6.00	6.00	4.79	4.65
MAX VEL	0.00	0.00	0.00	1.44	1.45	0.00	0.00	0.00	0.00	0.69
DEPTH	0.00	0.00	0.00	0.50	0.37	0.00	0.00	0.00	0.00	0.56
TIME	0.00	0.00	0.00	4.66	4.61	0.00	0.00	0.00	0.00	4.57
ST. DEPTH	0.00	0.30	0.00	0.00	1.13	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	1.88	0.00	0.00	4.63	0.00	0.00	0.00	0.00	0.00
TIME	0.00	4.27	0.00	0.00	4.79	0.00	0.00	0.00	0.00	0.00

NODE	291	292	293	294	295	296	297	298	299	300
ELEVATION	1370.45	1370.46	1370.60	1370.95	1371.37	1371.70	1371.63	1373.02	1373.06	1373.19
MAX DEPTH	0.18	0.61	0.68	0.40	0.31	0.32	0.01	1.27	1.03	0.75
VELOCITY	0.31	1.98	1.76	1.04	1.27	0.76	0.00	1.42	0.51	1.34
TIME	4.66	4.50	4.49	4.65	4.45	4.44	6.00	4.64	4.61	4.62
MAX VEL	0.62	2.45	3.24	1.50	1.50	1.50	0.00	2.14	1.50	1.50
DEPTH	0.18	0.59	0.66	0.34	0.24	0.29	0.00	1.26	0.99	0.64
TIME	4.65	4.50	4.49	4.54	4.51	4.55	0.00	4.62	4.61	4.73
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	301	302	303	304	305	306	307	308	309	310
ELEVATION	1373.26	1374.06	1374.26	1374.06	1375.77	1375.78	1376.21	1376.33	1376.35	1376.37
MAX DEPTH	0.74	0.00	0.00	0.00	1.30	1.22	0.32	0.92	0.70	0.37
VELOCITY	0.87	0.00	0.00	0.00	0.59	0.56	0.90	1.49	0.54	0.26
TIME	4.61	6.00	6.00	6.00	4.58	4.58	4.55	4.54	4.54	4.55
MAX VEL	1.50	0.00	0.00	0.00	0.60	1.49	1.60	1.50	1.44	1.48
DEPTH	0.46	0.00	0.00	0.00	1.29	0.39	0.23	0.78	0.66	0.35
TIME	4.35	0.00	0.00	0.00	4.58	4.45	4.45	4.78	4.48	4.54
ST. DEPTH	1.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	4.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	4.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	311	312	313	314	315	316	317	318	319	320
ELEVATION	1377.74	1377.75	1377.98	1380.17	1380.18	1380.41	1380.45	1381.73	1381.62	1383.20
MAX DEPTH	1.04	0.61	0.25	0.87	0.86	0.91	0.98	1.27	0.04	1.24
VELOCITY	1.22	0.82	0.61	2.79	0.45	1.44	1.03	4.47	0.00	0.83
TIME	4.51	4.51	4.37	4.47	4.49	4.50	4.46	4.36	4.46	4.34

MAX VEL	1.23	1.47	1.50	4.05	1.49	1.99	1.51	4.95	0.00	1.79
DEPTH	1.04	0.34	0.21	0.86	0.83	0.90	0.72	1.27	0.00	0.77
TIME	4.51	4.39	4.39	4.47	4.51	4.48	4.35	4.36	0.00	4.23
ST. DEPTH	0.00	0.00	0.00	1.28	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	5.73	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	4.50	0.00	0.00	0.00	0.00	0.00	0.00

NODE	321	322	323	324	325	326	327	328	329	330
ELEVATION	1383.15	1383.74	1384.33	1384.74	1386.11	1386.49	1386.87	1388.44	1367.03	1367.04
MAX DEPTH	0.36	0.03	0.18	0.11	0.10	0.21	0.11	0.00	0.64	0.71
VELOCITY	0.51	0.00	0.23	0.23	0.00	0.24	0.20	0.00	0.41	0.35
TIME	4.33	6.00	4.37	4.33	4.46	4.37	4.27	6.00	4.72	4.73
MAX VEL	1.50	0.00	0.31	0.35	0.35	0.46	0.30	0.00	1.45	1.50
DEPTH	0.34	0.00	0.18	0.11	0.10	0.19	0.10	0.00	0.41	0.44
TIME	4.34	0.00	4.37	4.33	4.64	4.45	4.29	0.00	4.63	4.62
ST. DEPTH	0.97	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.98
MAX STVEL	4.44	0.00	0.00	0.00	0.00	0.00	1.17	0.00	0.00	3.79
TIME	4.32	0.00	0.00	0.00	0.00	0.00	4.26	0.00	0.00	4.76

NODE	331	332	333	334	335	336	337	338	339	340
ELEVATION	1368.23	1369.29	1369.88	1369.95	1369.97	1370.04	1370.16	1370.30	1370.98	1371.35
MAX DEPTH	0.00	0.00	0.00	0.35	0.90	0.93	0.82	0.62	0.31	0.31
VELOCITY	0.00	0.00	0.00	0.34	1.09	1.75	2.43	1.92	1.29	1.09
TIME	5.17	6.00	6.00	4.67	4.69	4.67	4.66	4.66	4.68	4.67
MAX VEL	0.00	0.00	0.00	0.43	1.50	3.66	5.02	4.11	1.56	1.50
DEPTH	0.00	0.00	0.00	0.35	0.67	0.74	0.80	0.61	0.31	0.30
TIME	0.00	0.00	0.00	4.68	4.53	4.52	4.50	4.50	4.70	4.67
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	341	342	343	344	345	346	347	348	349	350
ELEVATION	1371.62	1371.77	1373.01	1373.03	1373.28	1373.33	1374.46	1374.67	1373.95	1375.73
MAX DEPTH	0.18	0.01	1.36	0.94	0.61	0.83	0.00	0.00	0.00	1.04
VELOCITY	0.23	0.00	0.39	0.51	1.17	1.07	0.00	0.00	0.00	1.41
TIME	4.69	6.00	4.64	4.64	4.59	4.59	6.00	6.00	6.00	4.58
MAX VEL	0.61	0.00	0.67	1.48	1.52	1.50	0.00	0.00	0.00	1.48
DEPTH	0.18	0.00	1.25	0.34	0.57	0.80	0.00	0.00	0.00	0.39
TIME	4.70	0.00	4.52	5.11	4.54	4.63	0.00	0.00	0.00	4.46
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	4.87	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	4.63	0.00	0.00	0.00	0.00

NODE	351	352	353	354	355	356	357	358	359	360
ELEVATION	1375.79	1376.10	1376.28	1376.32	1376.40	1377.51	1377.61	1377.64	1380.21	1380.22
MAX DEPTH	0.66	0.41	0.77	0.70	0.48	0.75	0.42	0.26	0.86	1.39
VELOCITY	0.77	1.14	1.23	0.89	0.83	2.67	0.75	0.38	0.38	0.29
TIME	4.59	4.56	4.54	4.55	4.56	4.51	4.53	4.56	4.49	4.50
MAX VEL	1.50	1.64	1.50	1.50	1.50	3.19	1.50	1.48	1.50	1.50
DEPTH	0.65	0.31	0.65	0.60	0.37	0.75	0.28	0.26	0.53	1.34
TIME	4.59	4.45	4.44	4.44	4.44	4.51	4.76	4.53	4.37	4.46
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.23	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.33	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.45	0.00

NODE	361	362	363	364	365	366	367	368	369	370
ELEVATION	1380.44	1380.46	1382.27	1382.36	1383.29	1383.30	1383.56	1384.33	1384.76	1386.29
MAX DEPTH	1.23	1.03	0.98	0.68	1.29	0.70	0.55	0.47	0.24	0.32
VELOCITY	1.85	0.93	3.70	1.08	3.80	0.97	1.09	1.80	0.93	1.27
TIME	4.47	4.47	4.35	4.34	4.33	4.34	4.31	4.31	4.30	4.27
MAX VEL	2.63	1.53	5.47	1.50	3.87	1.50	1.56	1.85	1.50	1.70
DEPTH	1.03	0.52	0.93	0.62	1.27	0.62	0.55	0.41	0.24	0.20
TIME	4.36	4.27	4.40	4.41	4.34	4.30	4.31	4.35	4.30	4.32
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	4.24	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	4.32	0.00	0.00	0.00	0.00

NODE	371	372	373	374	375	376	377	378	379	380
ELEVATION	1386.78	1386.95	1388.39	1367.05	1367.06	1368.28	1369.09	1369.20	1369.90	1369.93
MAX DEPTH	0.01	0.25	0.00	0.63	0.81	0.21	0.00	0.00	0.76	1.24
VELOCITY	0.00	0.25	0.00	0.22	0.73	1.08	0.00	0.00	1.55	2.21
TIME	6.00	4.25	6.00	4.74	4.73	4.73	6.00	6.00	4.67	4.66
MAX VEL	0.00	0.57	0.00	1.50	1.58	1.73	0.00	0.00	1.59	2.89
DEPTH	0.00	0.19	0.00	0.42	0.63	0.20	0.00	0.00	0.73	0.91
TIME	0.00	4.31	0.00	4.63	4.63	4.61	0.00	0.00	4.71	4.53
ST. DEPTH	0.00	0.54	0.00	0.00	1.03	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	1.21	0.00	0.00	3.03	0.00	0.00	0.00	0.00	0.00
TIME	0.00	4.26	0.00	0.00	4.76	0.00	0.00	0.00	0.00	0.00

NODE	381	382	383	384	385	386	387	388	389	390
ELEVATION	1369.99	1370.08	1370.24	1371.16	1371.42	1371.67	1371.82	1372.98	1372.98	1373.34
MAX DEPTH	0.99	0.92	0.70	0.37	0.39	0.29	0.13	1.17	0.76	0.77
VELOCITY	1.81	1.92	2.22	1.35	0.77	0.90	0.14	1.30	0.76	1.53
TIME	4.67	4.66	4.66	4.49	4.68	4.64	4.69	4.63	4.62	4.60
MAX VEL	5.45	4.50	4.30	2.22	1.50	1.50	0.39	1.43	0.76	1.67
DEPTH	0.81	0.79	0.65	0.33	0.32	0.27	0.13	0.44	0.76	0.75
TIME	4.52	4.51	4.51	4.50	4.54	4.71	4.70	4.35	4.62	4.59
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	391	392	393	394	395	396	397	398	399	400
ELEVATION	1373.42	1373.63	1375.36	1375.40	1375.65	1375.82	1376.05	1376.17	1376.31	1376.59
MAX DEPTH	0.93	0.25	1.63	1.49	0.73	0.47	0.39	0.51	0.50	0.48
VELOCITY	0.84	0.76	3.53	1.01	1.17	1.03	1.09	1.44	0.95	1.13

TIME	4.60	4.63	4.56	4.56	4.57	4.56	4.55	4.55	4.56	4.54
MAX VEL	1.50	1.50	5.14	1.48	1.90	1.50	1.50	1.50	1.50	1.50
DEPTH	0.43	0.25	1.60	0.39	0.32	0.27	0.37	0.50	0.49	0.42
TIME	4.98	4.59	4.63	4.38	4.37	4.44	4.59	4.62	4.58	4.68
ST. DEPTH	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	5.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	4.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	401	402	403	404	405	406	407	408	409	410
ELEVATION	1377.24	1377.49	1377.55	1380.23	1380.23	1380.44	1380.45	1382.39	1382.34	1383.32
MAX DEPTH	0.33	0.28	0.12	1.03	1.46	0.97	0.85	0.66	0.51	1.24
VELOCITY	1.08	0.75	0.11	0.11	0.26	1.48	0.25	3.00	0.76	2.55
TIME	4.54	4.53	4.64	4.48	4.48	4.47	4.48	4.34	4.35	4.35
MAX VEL	1.52	1.50	0.38	1.49	1.47	2.23	1.49	4.26	1.50	3.38
DEPTH	0.33	0.21	0.12	0.30	1.36	0.59	0.33	0.65	0.29	1.21
TIME	4.52	4.70	4.63	4.31	4.61	4.32	4.30	4.35	4.24	4.37
ST. DEPTH	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	5.48	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	4.50	0.00	0.00	0.00	0.00	0.00	0.00

NODE	411	412	413	414	415	416	417	418	419	420
ELEVATION	1383.37	1383.56	1384.47	1385.86	1386.84	1386.96	1387.00	1387.68	1367.04	1367.07
MAX DEPTH	0.57	0.15	0.62	0.10	0.20	0.33	0.51	0.00	0.58	0.81
VELOCITY	1.02	0.18	1.83	0.00	0.58	1.08	0.77	0.00	0.61	0.79
TIME	4.31	4.33	4.30	4.29	4.26	4.25	4.25	6.00	4.74	4.74
MAX VEL	1.50	0.47	2.36	0.42	1.42	1.50	1.49	0.00	1.45	1.50
DEPTH	0.39	0.14	0.62	0.10	0.20	0.30	0.45	0.00	0.28	0.49
TIME	4.25	4.32	4.30	4.68	4.27	4.27	4.28	0.00	4.61	4.57
ST. DEPTH	0.87	0.00	0.00	0.00	0.00	0.00	0.77	0.00	0.00	0.98
MAX STVEL	4.25	0.00	0.00	0.00	0.00	0.00	4.96	0.00	0.00	2.48
TIME	4.32	0.00	0.00	0.00	0.00	0.00	4.26	0.00	0.00	4.75

NODE	421	422	423	424	425	426	427	428	429	430
ELEVATION	1368.06	1368.97	1369.40	1369.74	1369.87	1369.95	1370.20	1370.84	1371.31	1371.67
MAX DEPTH	0.67	0.88	1.03	1.15	1.23	0.75	0.20	0.28	0.41	0.56
VELOCITY	2.10	3.00	4.38	4.23	2.53	1.63	0.43	0.97	1.35	1.05
TIME	4.56	4.55	4.66	4.68	4.64	4.68	4.69	4.58	4.66	4.63
MAX VEL	5.95	6.84	5.97	6.01	4.21	2.22	1.36	1.50	2.12	1.57
DEPTH	0.50	0.85	1.01	0.93	0.85	0.72	0.20	0.22	0.37	0.54
TIME	4.60	4.55	4.67	4.53	4.53	4.62	4.67	4.80	4.50	4.47
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	431	432	433	434	435	436	437	438	439	440
ELEVATION	1371.81	1372.05	1372.83	1373.00	1373.37	1373.46	1374.04	1375.30	1375.35	1375.65
MAX DEPTH	0.36	0.27	0.94	0.93	0.98	0.81	0.49	1.29	1.73	0.55
VELOCITY	1.38	0.77	2.47	1.33	2.03	0.97	1.61	2.92	1.29	1.19
TIME	4.64	4.63	4.63	4.63	4.60	4.60	4.61	4.57	4.56	4.58
MAX VEL	1.50	1.50	2.63	1.62	2.44	1.50	1.99	3.94	1.49	1.64
DEPTH	0.29	0.27	0.50	0.92	0.96	0.73	0.45	1.23	0.64	0.44
TIME	4.54	4.65	4.39	4.64	4.61	4.55	4.69	4.68	4.39	4.51
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	1.18	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	4.97	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	4.63	0.00	0.00	0.00	0.00

NODE	441	442	443	444	445	446	447	448	449	450
ELEVATION	1375.83	1375.94	1376.12	1376.32	1376.72	1377.28	1377.83	1378.10	1380.25	1380.26
MAX DEPTH	0.51	0.59	0.38	0.21	0.19	0.10	0.00	0.00	0.95	1.01
VELOCITY	1.22	1.81	0.81	0.56	0.30	0.00	0.00	0.00	0.22	0.24
TIME	4.56	4.52	4.51	4.53	4.55	4.63	6.00	6.00	4.48	4.48
MAX VEL	1.57	2.33	1.50	1.50	0.68	0.29	0.00	0.00	1.50	1.50
DEPTH	0.50	0.57	0.36	0.20	0.19	0.10	0.00	0.00	0.22	0.87
TIME	4.53	4.48	4.47	4.58	4.55	4.60	0.00	0.00	4.28	4.40
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.30	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.48	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.45	0.00

NODE	451	452	453	454	455	456	457	458	459	460
ELEVATION	1379.86	1382.84	1383.35	1382.49	1383.42	1383.57	1384.09	1384.96	1385.44	1385.37
MAX DEPTH	0.00	2.90	1.34	0.00	0.42	0.57	0.17	0.54	0.49	0.00
VELOCITY	0.00	0.00	2.76	0.00	0.87	1.28	0.32	1.69	1.72	0.00
TIME	6.00	4.38	4.36	6.00	4.33	4.30	4.30	4.30	4.27	6.00
MAX VEL	0.00	0.17	4.12	0.00	1.50	1.52	0.60	1.92	1.90	0.00
DEPTH	0.00	2.47	1.34	0.00	0.37	0.34	0.17	0.52	0.42	0.00
TIME	0.00	4.64	4.36	0.00	4.39	4.18	4.30	4.32	4.35	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	4.37	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	4.32	0.00	0.00	0.00	0.00

NODE	461	462	463	464	465	466	467	468	469	470
ELEVATION	1387.04	1387.02	1387.12	1367.02	1367.04	1367.97	1368.91	1369.36	1369.68	1369.85
MAX DEPTH	1.41	1.77	0.21	0.64	0.90	0.58	0.51	0.56	0.68	0.55
VELOCITY	2.37	0.30	0.54	0.87	1.18	2.09	2.46	2.89	2.76	1.57
TIME	4.26	4.25	4.28	4.74	4.73	4.56	4.68	4.67	4.69	4.64
MAX VEL	2.37	1.50	1.44	1.03	1.23	6.68	5.54	3.95	3.71	2.38
DEPTH	1.40	1.73	0.21	0.31	0.86	0.56	0.49	0.55	0.68	0.53
TIME	4.26	4.27	4.28	4.60	4.69	4.56	4.68	4.68	4.66	4.72
ST. DEPTH	0.00	2.03	0.00	0.00	1.07	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	11.33	0.00	0.00	3.39	0.00	0.00	0.00	0.00	0.00
TIME	0.00	4.34	0.00	0.00	4.74	0.00	0.00	0.00	0.00	0.00

NODE	471	472	473	474	475	476	477	478	479	480
ELEVATION	1370.19	1370.20	1371.41	1371.47	1371.68	1371.91	1372.06	1372.65	1372.78	1373.37
MAX DEPTH	0.08	0.10	0.01	0.27	0.35	0.81	2.50	0.38	0.26	0.30

VELOCITY	0.00	0.27	0.00	0.78	0.84	2.10	2.42	1.13	0.63	0.97
TIME	5.99	4.70	6.00	4.67	4.64	4.62	4.63	4.63	4.63	4.61
MAX VEL	0.00	0.34	0.00	1.50	1.50	3.15	4.09	1.63	1.50	1.50
DEPTH	0.00	0.10	0.00	0.21	0.27	0.74	2.32	0.36	0.22	0.25
TIME	0.00	4.58	0.00	4.86	4.51	4.46	4.43	4.68	4.71	4.67
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	481	482	483	484	485	486	487	488	489	490
ELEVATION	1373.57	1374.23	1375.00	1375.20	1375.64	1375.83	1375.97	1376.29	1376.59	1376.88
MAX DEPTH	0.97	0.20	0.69	0.92	0.30	0.31	0.39	0.27	0.20	0.10
VELOCITY	1.18	0.84	1.75	1.40	1.26	0.69	0.86	1.09	0.55	0.21
TIME	4.61	4.66	4.59	4.59	4.56	4.55	4.51	4.30	4.47	4.40
MAX VEL	1.58	1.50	2.43	1.58	1.50	1.50	1.50	1.50	1.46	0.29
DEPTH	0.95	0.20	0.69	0.91	0.30	0.28	0.22	0.25	0.20	0.10
TIME	4.57	4.60	4.58	4.59	4.56	4.49	4.76	4.44	4.38	4.50
ST. DEPTH	1.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	4.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	4.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	491	492	493	494	495	496	497	498	499	500
ELEVATION	1377.71	1378.15	1378.57	1380.28	1380.29	1380.81	1382.85	1383.70	1383.80	1383.87
MAX DEPTH	0.00	0.00	0.00	0.64	0.43	0.00	1.83	2.17	1.32	1.21
VELOCITY	0.00	0.00	0.00	0.14	0.46	0.00	0.96	4.82	1.01	1.89
TIME	6.00	6.00	6.00	4.49	4.50	6.00	4.40	4.32	4.30	4.34
MAX VEL	0.00	0.00	0.00	1.50	1.50	0.00	2.40	6.60	1.57	2.09
DEPTH	0.00	0.00	0.00	0.43	0.20	0.00	0.42	1.94	1.17	1.20
TIME	0.00	0.00	0.00	4.37	4.32	0.00	4.12	4.20	4.22	4.34
ST. DEPTH	0.00	0.00	0.00	1.12	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	4.60	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	4.49	0.00	0.00	0.00	0.00	0.00	0.00

NODE	501	502	503	504	505	506	507	508	509	510
ELEVATION	1383.80	1384.28	1385.47	1385.55	1385.92	1387.05	1387.15	1387.21	1366.96	1366.97
MAX DEPTH	0.64	0.22	1.18	0.65	0.74	1.39	2.92	0.99	0.55	0.91
VELOCITY	1.06	0.95	2.40	1.19	1.34	3.11	0.18	1.05	1.13	1.50
TIME	4.32	4.29	4.27	4.27	4.26	4.26	4.26	4.25	4.74	4.74
MAX VEL	1.50	1.50	3.19	1.50	1.92	4.53	1.50	1.80	1.25	1.75
DEPTH	0.62	0.20	1.08	0.44	0.74	1.39	2.74	0.98	0.50	0.81
TIME	4.28	4.37	4.35	4.17	4.26	4.26	4.32	4.25	4.67	4.65
ST. DEPTH	1.07	0.00	0.00	0.00	0.00	0.00	3.05	0.00	0.00	1.11
MAX STVEL	4.25	0.00	0.00	0.00	0.00	0.00	11.14	0.00	0.00	3.28
TIME	4.35	0.00	0.00	0.00	0.00	0.00	4.26	0.00	0.00	4.74

NODE	511	512	513	514	515	516	517	518	519	520
ELEVATION	1367.35	1369.52	1369.83	1369.75	1369.72	1369.95	1369.45	1370.21	1370.80	1371.37
MAX DEPTH	0.42	0.00	0.00	0.00	0.00	0.10	2.13	0.15	0.27	0.33
VELOCITY	0.98	0.00	0.00	0.00	0.00	0.00	0.09	0.35	0.67	1.15
TIME	4.77	6.00	6.00	6.00	6.00	5.30	4.67	4.69	4.55	4.51
MAX VEL	1.50	0.00	0.00	0.00	0.00	0.27	0.28	0.48	0.71	1.49
DEPTH	0.38	0.00	0.00	0.00	0.00	0.10	2.10	0.15	0.26	0.28
TIME	4.63	0.00	0.00	0.00	0.00	5.92	4.69	4.72	4.56	4.53
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	521	522	523	524	525	526	527	528	529	530
ELEVATION	1371.64	1371.80	1373.55	1373.56	1373.61	1373.64	1374.01	1374.49	1375.06	1376.43
MAX DEPTH	0.43	0.62	1.47	0.91	0.58	0.93	0.43	0.28	0.56	0.00
VELOCITY	0.80	0.97	3.81	0.12	0.28	0.33	1.16	0.82	1.00	0.00
TIME	4.64	4.60	4.60	4.61	4.60	4.61	4.60	4.60	4.59	6.00
MAX VEL	1.50	1.50	5.43	0.40	1.50	1.50	1.59	1.49	1.49	0.00
DEPTH	0.41	0.56	1.39	0.20	0.32	0.83	0.42	0.23	0.42	0.00
TIME	4.73	4.78	4.68	5.14	4.35	4.54	4.64	4.52	4.74	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	1.15	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	4.63	0.00	0.00	0.00	0.00

NODE	531	532	533	534	535	536	537	538	539	540
ELEVATION	1376.50	1376.56	1376.63	1376.94	1377.16	1377.40	1378.03	1378.83	1380.29	1380.85
MAX DEPTH	0.00	0.31	0.35	0.23	0.23	0.10	0.00	0.00	0.74	0.53
VELOCITY	0.00	1.38	0.98	0.92	0.50	0.00	0.00	0.00	0.41	1.95
TIME	4.29	4.28	4.27	4.35	4.36	4.65	6.00	6.00	4.48	4.34
MAX VEL	0.00	1.50	1.50	1.49	1.50	0.00	0.00	0.00	1.50	3.20
DEPTH	0.00	0.21	0.20	0.20	0.20	0.00	0.00	0.00	0.35	0.52
TIME	0.00	4.38	4.61	4.53	4.37	0.00	0.00	0.00	4.29	4.34
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.05	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.74	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.49	0.00

NODE	541	542	543	544	545	546	547	548	549	550
ELEVATION	1382.80	1382.84	1383.69	1383.81	1383.92	1383.97	1383.98	1385.40	1385.50	1385.95
MAX DEPTH	1.81	1.52	1.95	1.13	1.34	1.53	0.28	1.74	1.28	0.71
VELOCITY	4.34	0.47	4.43	1.26	1.49	0.97	0.56	1.85	1.64	1.51
TIME	4.38	4.38	4.31	4.29	4.32	4.32	4.31	4.28	4.28	4.25
MAX VEL	6.45	1.49	5.92	1.63	1.61	1.52	1.50	1.85	1.71	2.27
DEPTH	1.79	0.29	1.78	1.05	1.17	1.51	0.20	1.74	1.27	0.70
TIME	4.42	4.16	4.22	4.25	4.20	4.28	4.40	4.28	4.26	4.28
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	2.48	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	5.10	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	4.36	0.00	0.00	0.00	0.00

NODE	551	552	553	554	555	556	557	558	559	560
ELEVATION	1387.06	1387.17	1387.66	1366.88	1366.87	1367.18	1369.55	1369.69	1369.58	1369.53

MAX DEPTH	2.56	2.67	0.66	0.59	0.82	0.16	0.00	0.00	0.00	0.00
VELOCITY	3.75	2.75	1.51	1.18	1.44	0.23	0.00	0.00	0.00	0.00
TIME	4.26	4.25	4.25	4.75	4.75	4.77	6.00	6.00	6.00	6.00
MAX VEL	4.81	3.02	2.17	1.28	1.77	0.52	0.00	0.00	0.00	0.00
DEPTH	2.55	2.64	0.65	0.50	0.73	0.16	0.00	0.00	0.00	0.00
TIME	4.26	4.26	4.25	4.67	4.67	4.80	0.00	0.00	0.00	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	3.24	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	4.75	0.00	0.00	0.00	0.00	0.00

NODE	561	562	563	564	565	566	567	568	569	570
ELEVATION	1369.38	1369.44	1370.12	1370.70	1371.38	1371.63	1371.73	1373.56	1373.60	1373.64
MAX DEPTH	0.05	2.33	0.20	0.27	0.20	0.15	0.07	1.16	0.99	0.85
VELOCITY	0.00	0.38	0.66	0.69	0.50	0.22	0.00	0.23	0.22	0.45
TIME	5.99	4.68	4.67	4.54	4.51	4.67	6.00	4.61	4.59	4.60
MAX VEL	0.00	2.73	1.53	1.48	0.73	0.49	0.00	1.65	1.50	1.71
DEPTH	0.00	0.84	0.20	0.20	0.20	0.15	0.00	0.51	0.33	0.61
TIME	0.00	4.50	4.57	4.66	4.50	4.67	0.00	4.32	4.31	4.34
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	571	572	573	574	575	576	577	578	579	580
ELEVATION	1373.65	1373.96	1374.28	1374.71	1376.57	1376.67	1376.77	1376.81	1377.25	1377.43
MAX DEPTH	1.07	0.21	0.28	0.36	0.00	0.00	0.09	0.44	0.26	0.22
VELOCITY	0.23	1.07	0.93	0.85	0.00	0.00	0.00	1.11	0.74	0.84
TIME	4.58	4.61	4.54	4.64	6.00	6.00	4.51	4.35	4.21	4.43
MAX VEL	1.50	1.49	1.50	1.50	0.00	0.00	0.00	1.50	1.50	1.49
DEPTH	0.87	0.20	0.21	0.24	0.00	0.00	0.00	0.40	0.25	0.22
TIME	4.41	4.57	4.51	4.53	0.00	0.00	0.00	4.32	4.36	4.35
ST. DEPTH	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	5.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	4.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	581	582	583	584	585	586	587	588	589	590
ELEVATION	1377.74	1377.87	1378.55	1380.26	1380.25	1380.35	1383.01	1383.67	1382.05	1384.00
MAX DEPTH	0.10	0.10	0.05	0.66	0.59	0.11	2.05	2.43	0.00	2.56
VELOCITY	0.20	0.15	0.00	0.78	0.60	0.10	1.94	1.75	0.00	1.33
TIME	4.51	4.51	6.00	4.49	4.48	4.52	4.43	4.31	6.00	4.29
MAX VEL	0.29	0.27	0.00	0.88	0.66	0.30	2.72	2.00	0.00	1.86
DEPTH	0.10	0.10	0.00	0.63	0.55	0.10	2.03	2.20	0.00	2.53
TIME	4.54	4.51	0.00	4.55	4.57	4.57	4.47	4.20	0.00	4.26
ST. DEPTH	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	4.49	0.00	0.00	0.00	0.00	0.00	0.00

NODE	591	592	593	594	595	596	597	598	599	600
ELEVATION	1384.11	1384.47	1385.13	1385.42	1385.77	1386.45	1387.16	1387.14	1366.80	1366.80
MAX DEPTH	3.61	1.49	2.13	2.42	1.77	1.76	2.60	1.01	0.75	0.78
VELOCITY	1.78	2.64	4.37	2.77	2.85	4.01	0.79	0.78	1.13	1.23
TIME	4.29	4.29	4.28	4.28	4.26	4.26	4.27	4.27	4.75	4.75
MAX VEL	2.58	3.48	5.07	3.94	3.64	5.02	1.51	1.50	1.19	1.32
DEPTH	3.52	1.46	2.11	2.24	1.76	1.75	1.05	0.55	0.64	0.65
TIME	4.24	4.26	4.25	4.18	4.26	4.25	4.02	4.41	4.68	4.67
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	2.82	0.00	0.00	1.06
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	10.31	0.00	0.00	3.29
TIME	0.00	0.00	0.00	0.00	0.00	0.00	4.27	0.00	0.00	4.79

NODE	601	602	603	604	605	606	607	608	609	610
ELEVATION	1367.32	1368.80	1369.24	1369.30	1369.36	1369.38	1369.42	1370.06	1370.52	1371.21
MAX DEPTH	0.02	0.00	0.00	0.00	0.00	0.01	1.14	0.20	0.23	0.20
VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	1.72	0.73	0.70	0.58
TIME	6.00	6.00	6.00	6.00	6.00	6.00	4.69	4.70	4.54	4.60
MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	2.92	1.50	1.50	1.42
DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.20	0.20	0.20
TIME	0.00	0.00	0.00	0.00	0.00	0.00	4.55	4.66	4.59	4.62
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	611	612	613	614	615	616	617	618	619	620
ELEVATION	1371.55	1371.76	1373.57	1373.55	1373.64	1373.68	1374.19	1374.25	1374.53	1375.79
MAX DEPTH	0.23	0.23	1.80	0.78	0.73	1.15	0.00	0.00	0.20	0.11
VELOCITY	0.81	0.63	0.00	1.48	0.95	0.65	0.00	0.00	0.51	0.37
TIME	4.48	4.55	4.59	4.59	4.59	4.58	6.00	6.00	4.37	4.35
MAX VEL	1.50	1.50	0.34	1.50	1.50	1.50	0.00	0.00	1.49	0.37
DEPTH	0.22	0.23	1.62	0.59	0.51	0.87	0.00	0.00	0.20	0.11
TIME	4.51	4.53	4.74	4.40	4.34	4.31	0.00	0.00	4.53	4.35
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	1.39	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	5.78	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	4.63	0.00	0.00	0.00	0.00

NODE	621	622	623	624	625	626	627	628	629	630
ELEVATION	1376.07	1376.51	1376.83	1377.48	1377.89	1377.97	1378.60	1378.86	1380.22	1380.26
MAX DEPTH	0.32	0.49	0.43	0.52	0.59	0.10	0.04	0.12	0.67	0.21
VELOCITY	0.86	1.18	1.21	1.64	1.27	0.29	0.00	0.23	1.35	0.41
TIME	4.33	4.35	4.41	4.32	4.49	4.34	6.00	4.43	4.46	4.47
MAX VEL	1.47	1.50	1.50	1.97	3.82	0.30	0.00	0.27	1.49	1.49
DEPTH	0.30	0.37	0.34	0.51	0.57	0.10	0.00	0.10	0.34	0.20
TIME	4.39	4.57	4.24	4.39	4.32	4.34	0.00	4.51	4.28	4.48
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.04	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.67	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.49	0.00

NODE	631	632	633	634	635	636	637	638	639	640

ELEVATION	1380.23	1383.01	1383.48	1383.81	1384.09	1384.17	1384.34	1385.07	1385.20	1385.56
MAX DEPTH	0.00	2.15	2.28	1.91	2.09	2.36	1.60	1.89	1.87	1.07
VELOCITY	0.00	0.00	2.76	2.51	1.46	1.99	2.07	4.83	1.87	2.27
TIME	6.00	4.44	4.32	4.31	4.30	4.30	4.29	4.27	4.27	4.27
MAX VEL	0.00	0.15	2.80	4.06	1.59	2.22	2.73	4.98	2.35	2.65
DEPTH	0.00	1.41	2.25	1.86	2.01	2.31	1.56	1.84	1.79	1.06
TIME	0.00	4.79	4.36	4.25	4.27	4.27	4.26	4.31	4.23	4.26
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	641	642	643	644	645	646	647	648	649	650
ELEVATION	1385.79	1387.05	1387.06	1366.75	1366.75	1366.81	1367.41	1367.86	1368.29	1368.87
MAX DEPTH	0.53	1.62	0.52	0.85	0.82	0.31	0.21	0.30	0.66	0.53
VELOCITY	1.11	2.52	0.60	1.03	1.08	0.65	0.73	1.00	1.20	1.56
TIME	4.26	4.26	4.27	4.75	4.75	4.75	4.68	4.66	4.71	4.64
MAX VEL	1.50	3.72	1.50	1.10	1.12	1.49	1.50	1.50	1.67	4.83
DEPTH	0.51	1.59	0.25	0.83	0.81	0.27	0.20	0.30	0.65	0.51
TIME	4.25	4.24	4.39	4.80	4.76	4.70	4.76	4.67	4.70	4.64
ST. DEPTH	0.00	1.96	0.00	0.00	1.11	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	10.76	0.00	0.00	3.43	0.00	0.00	0.00	0.00	0.00
TIME	0.00	4.20	0.00	0.00	4.79	0.00	0.00	0.00	0.00	0.00

NODE	651	652	653	654	655	656	657	658	659	660
ELEVATION	1369.23	1369.44	1369.91	1370.28	1370.76	1371.33	1371.78	1373.13	1373.54	1373.64
MAX DEPTH	0.62	0.35	0.27	0.28	0.29	0.46	0.62	0.61	1.38	1.17
VELOCITY	1.54	0.87	1.03	0.98	0.83	1.38	2.82	5.56	3.51	2.00
TIME	4.62	4.69	4.61	4.50	4.61	4.59	4.55	4.60	4.60	4.59
MAX VEL	3.78	1.71	1.50	1.50	1.50	1.51	3.95	7.13	4.90	3.78
DEPTH	0.61	0.34	0.24	0.25	0.20	0.43	0.60	0.57	1.36	0.58
TIME	4.63	4.42	4.66	4.63	4.83	4.63	4.56	4.63	4.58	4.24
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	661	662	663	664	665	666	667	668	669	670
ELEVATION	1373.70	1373.83	1374.10	1374.24	1374.81	1375.65	1376.02	1376.78	1377.59	1378.20
MAX DEPTH	1.16	1.26	0.53	0.48	0.29	0.51	0.52	0.30	0.32	0.53
VELOCITY	0.95	3.89	1.76	0.80	1.21	1.38	1.87	1.11	1.15	1.51
TIME	4.57	4.42	4.44	4.44	4.31	4.43	4.36	4.42	4.38	4.30
MAX VEL	2.44	4.47	3.10	1.50	1.50	1.98	3.39	1.66	1.62	2.09
DEPTH	0.98	1.14	0.50	0.39	0.28	0.50	0.50	0.30	0.31	0.50
TIME	4.37	4.34	4.44	4.28	4.36	4.42	4.42	4.41	4.42	4.31
ST. DEPTH	1.39	1.84	0.97	0.94	0.70	0.69	0.74	0.61	0.64	0.70
MAX STVEL	6.55	0.00	4.94	4.80	6.70	6.93	6.14	6.60	6.47	6.07
TIME	4.63	4.57	4.45	4.44	4.43	4.43	4.39	4.30	4.30	4.30

NODE	671	672	673	674	675	676	677	678	679	680
ELEVATION	1378.59	1379.01	1379.32	1380.12	1380.61	1381.28	1382.83	1383.45	1383.63	1383.95
MAX DEPTH	0.57	0.48	0.28	0.57	0.52	1.57	2.33	2.21	2.11	2.24
VELOCITY	1.61	1.36	0.88	1.78	1.98	2.79	5.12	4.14	2.31	2.77
TIME	4.25	4.34	4.42	4.42	4.29	4.35	4.31	4.34	4.30	4.30
MAX VEL	4.20	1.74	1.50	2.06	3.29	4.11	7.93	6.00	2.98	4.01
DEPTH	0.51	0.47	0.27	0.56	0.49	1.53	2.14	2.15	2.07	1.84
TIME	4.43	4.36	4.47	4.42	4.35	4.37	4.37	4.36	4.30	4.18
ST. DEPTH	0.68	0.54	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	5.36	4.79	3.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	4.38	4.42	4.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	681	682	683	684	685	686	687	688	689	690
ELEVATION	1384.15	1384.44	1384.96	1385.14	1385.38	1385.96	1386.91	1386.98	1366.71	1366.72
MAX DEPTH	2.60	1.93	1.83	1.53	0.73	0.65	0.64	0.20	0.88	0.92
VELOCITY	2.21	2.60	3.25	1.81	1.44	1.81	2.02	0.19	0.96	1.07
TIME	4.30	4.28	4.27	4.27	4.27	4.27	4.26	4.30	4.74	4.74
MAX VEL	3.32	3.85	4.56	2.32	1.73	2.26	2.67	0.70	1.03	1.11
DEPTH	2.39	1.90	1.82	1.52	0.73	0.65	0.55	0.20	0.87	0.91
TIME	4.21	4.28	4.27	4.27	4.28	4.26	4.20	4.30	4.73	4.74
ST. DEPTH	3.67	0.00	0.00	0.00	0.00	0.00	1.12	0.00	0.00	1.22
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	6.23	0.00	0.00	4.90
TIME	4.33	0.00	0.00	0.00	0.00	0.00	4.27	0.00	0.00	4.79

NODE	691	692	693	694	695	696	697	698	699	700
ELEVATION	1366.75	1366.99	1367.62	1368.34	1368.87	1369.16	1369.59	1369.78	1370.13	1370.45
MAX DEPTH	0.59	0.41	0.33	0.19	0.13	0.15	0.19	0.38	0.50	0.58
VELOCITY	0.81	0.96	1.07	0.40	0.29	0.34	0.39	0.86	1.24	1.24
TIME	4.76	4.71	4.66	4.72	4.71	4.66	4.62	4.38	4.60	4.55
MAX VEL	1.50	1.50	1.56	0.67	0.40	0.47	0.69	1.50	1.50	3.42
DEPTH	0.41	0.36	0.32	0.19	0.13	0.15	0.19	0.34	0.42	0.57
TIME	4.67	4.80	4.70	4.74	4.64	4.63	4.60	4.52	4.47	4.55
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	701	702	703	704	705	706	707	708	709	710
ELEVATION	1370.88	1371.41	1373.28	1373.82	1373.70	1373.73	1373.72	1374.15	1374.17	1375.61
MAX DEPTH	0.53	0.31	0.00	0.00	0.00	1.19	0.41	0.20	0.41	0.36
VELOCITY	1.28	0.96	0.00	0.00	0.00	0.20	0.58	0.36	0.57	0.00
TIME	4.32	4.32	6.00	6.00	4.62	4.61	4.58	4.45	4.45	4.73
MAX VEL	3.85	1.50	0.00	0.00	0.00	1.53	1.50	0.70	1.50	0.00
DEPTH	0.50	0.26	0.00	0.00	0.00	1.03	0.31	0.20	0.37	0.36
TIME	4.62	4.35	0.00	0.00	0.00	4.38	4.38	4.45	4.56	4.82
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	5.78	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	4.63	0.00	0.00	0.00	0.00

NODE	711	712	713	714	715	716	717	718	719	720
ELEVATION	1375.92	1376.02	1377.56	1378.01	1378.64	1378.98	1379.33	1379.50	1379.71	1380.45
MAX DEPTH	0.23	0.33	0.10	0.12	0.20	0.60	2.35	1.56	2.81	0.83
VELOCITY	0.19	0.80	0.00	0.33	0.61	2.24	2.66	2.26	1.92	2.29
TIME	4.46	4.34	4.79	4.31	4.48	4.42	4.38	4.39	4.41	4.36
MAX VEL	1.19	1.50	0.40	0.38	1.50	2.88	3.98	2.76	2.68	3.43
DEPTH	0.20	0.26	0.10	0.12	0.20	0.59	2.33	1.56	2.79	0.82
TIME	4.54	4.55	4.74	4.31	4.53	4.42	4.38	4.38	4.41	4.38
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.03	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.41	0.00

NODE	721	722	723	724	725	726	727	728	729	730
ELEVATION	1381.12	1381.48	1383.52	1383.59	1383.67	1384.16	1384.49	1384.93	1385.60	1386.31
MAX DEPTH	1.62	0.00	1.73	1.90	1.41	0.20	0.21	0.13	0.00	0.00
VELOCITY	3.12	0.00	3.39	1.88	1.33	0.48	0.67	0.24	0.00	0.00
TIME	4.31	6.00	4.34	4.35	4.37	4.28	4.27	4.32	6.00	6.00
MAX VEL	3.64	0.00	4.52	2.21	1.84	1.48	1.50	0.42	0.00	0.00
DEPTH	1.57	0.00	1.68	1.88	0.50	0.20	0.20	0.13	0.00	0.00
TIME	4.42	0.00	4.37	4.30	4.09	4.29	4.30	4.32	0.00	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	731	732	733	734	735	736	737	738	739	740
ELEVATION	1386.73	1387.12	1389.37	1366.68	1366.68	1366.71	1367.02	1367.37	1367.94	1368.26
MAX DEPTH	0.06	0.00	0.00	0.86	1.05	0.43	0.21	0.23	0.20	0.20
VELOCITY	0.00	0.00	0.00	0.93	1.09	0.58	0.68	0.82	0.73	0.53
TIME	4.37	6.00	6.00	4.75	4.75	4.76	4.63	4.68	4.68	4.63
MAX VEL	0.00	0.00	0.00	1.48	1.34	1.49	1.50	1.49	1.50	1.36
DEPTH	0.00	0.00	0.00	0.29	0.42	0.42	0.20	0.20	0.20	0.20
TIME	0.00	0.00	0.00	4.62	4.58	4.77	4.79	4.64	4.63	4.63
ST. DEPTH	0.00	0.27	0.00	0.00	1.37	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	3.37	0.00	0.00	6.64	0.00	0.00	0.00	0.00	0.00
TIME	0.00	4.27	0.00	0.00	4.79	0.00	0.00	0.00	0.00	0.00

NODE	741	742	743	744	745	746	747	748	749	750
ELEVATION	1368.65	1369.20	1369.56	1369.91	1370.19	1370.55	1371.23	1372.63	1373.69	1373.83
MAX DEPTH	0.24	0.38	0.47	0.43	0.42	0.29	0.10	0.00	0.00	0.00
VELOCITY	0.70	1.04	1.12	1.44	1.10	0.74	0.00	0.00	0.00	0.00
TIME	4.61	4.39	4.38	4.36	4.35	4.55	4.55	6.00	6.00	6.00
MAX VEL	1.50	1.50	1.50	1.50	1.50	1.50	0.30	0.00	0.00	0.00
DEPTH	0.23	0.29	0.41	0.38	0.40	0.25	0.10	0.00	0.00	0.00
TIME	4.62	4.73	4.53	4.48	4.63	4.38	4.65	0.00	0.00	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	751	752	753	754	755	756	757	758	759	760
ELEVATION	1373.69	1373.70	1373.99	1374.50	1375.60	1375.74	1375.87	1377.89	1378.21	1378.07
MAX DEPTH	1.10	0.73	0.20	0.14	0.00	0.10	0.20	0.00	0.00	0.00
VELOCITY	0.18	0.46	0.44	0.27	0.00	0.15	0.31	0.00	0.00	0.00
TIME	4.58	4.58	4.50	4.51	6.00	4.45	4.47	6.00	6.00	6.00
MAX VEL	0.56	1.50	1.50	0.46	0.00	0.22	0.49	0.00	0.00	0.00
DEPTH	1.01	0.67	0.20	0.14	0.00	0.10	0.20	0.00	0.00	0.00
TIME	4.65	4.46	4.57	4.46	0.00	4.60	4.48	0.00	0.00	0.00
ST. DEPTH	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	6.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	4.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	761	762	763	764	765	766	767	768	769	770
ELEVATION	1379.01	1379.23	1379.56	1379.66	1380.04	1381.48	1381.48	1383.56	1383.58	1383.63
MAX DEPTH	1.33	1.49	2.56	4.28	0.98	0.00	0.00	3.22	3.03	2.76
VELOCITY	2.63	2.51	2.90	1.77	1.69	0.00	0.00	1.10	1.03	0.21
TIME	4.38	4.38	4.37	4.37	4.35	6.00	6.00	4.34	4.35	4.33
MAX VEL	2.65	2.52	3.33	3.03	2.63	0.00	0.00	1.89	1.97	1.68
DEPTH	1.29	1.48	2.55	4.25	0.95	0.00	0.00	3.11	3.01	0.50
TIME	4.25	4.35	4.41	4.41	4.31	0.00	0.00	4.44	4.33	4.02
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	771	772	773	774	775	776	777	778	779	780
ELEVATION	1384.18	1384.67	1385.47	1386.06	1386.76	1387.34	1388.01	1389.44	1366.60	1366.60
MAX DEPTH	0.10	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.81	1.14
VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.83	1.03
TIME	4.39	6.00	6.00	6.00	6.00	6.00	6.00	6.00	4.76	4.75
MAX VEL	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.48	1.46
DEPTH	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.53
TIME	4.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.60	4.54
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	1.51
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	3.47	0.00	0.00	8.67
TIME	0.00	0.00	0.00	0.00	0.00	0.00	3.60	0.00	0.00	4.78

NODE	781	782	783	784	785	786	787	788	789	790
ELEVATION	1366.62	1366.86	1367.30	1367.82	1368.05	1368.26	1368.72	1369.29	1369.59	1369.95
MAX DEPTH	0.54	0.27	0.28	0.26	0.40	0.50	0.45	0.35	0.36	0.20
VELOCITY	0.63	0.90	0.91	0.87	0.94	0.96	1.15	1.08	0.80	0.59
TIME	4.75	4.73	4.57	4.47	4.66	4.63	4.40	4.38	4.38	4.37
MAX VEL	1.50	1.50	1.50	1.50	1.50	1.50	1.68	1.63	1.49	1.50
DEPTH	0.49	0.26	0.26	0.25	0.36	0.47	0.45	0.34	0.27	0.20
TIME	4.84	4.71	4.59	4.53	4.48	4.52	4.40	4.39	4.45	4.62
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	791	792	793	794	795	796	797	798	799	800
ELEVATION	1370.61	1371.11	1373.43	1373.65	1373.75	1373.67	1373.68	1374.04	1374.71	1375.07
MAX DEPTH	0.08	0.03	1.06	0.00	0.00	1.18	0.93	0.53	0.91	0.59
VELOCITY	0.00	0.00	0.00	0.00	0.00	0.56	0.59	1.58	1.85	1.40
TIME	5.02	6.00	4.72	6.00	6.00	4.58	4.58	4.47	4.45	4.46
MAX VEL	0.00	0.00	0.09	0.00	0.00	0.82	1.49	1.92	2.77	1.76
DEPTH	0.00	0.00	1.00	0.00	0.00	1.11	0.50	0.49	0.91	0.59
TIME	0.00	0.00	4.81	0.00	0.00	4.61	4.27	4.25	4.45	4.46
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	1.49	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	8.37	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.00	0.00	0.00

NODE	801	802	803	804	805	806	807	808	809	810
ELEVATION	1375.28	1375.53	1377.91	1377.95	1378.07	1378.42	1379.70	1379.88	1379.69	1379.64
MAX DEPTH	0.43	0.20	3.02	3.38	1.33	1.27	0.00	0.00	2.20	0.41
VELOCITY	0.89	0.59	0.62	0.52	1.42	1.92	0.00	0.00	0.30	0.23
TIME	4.47	4.47	4.40	4.46	4.40	4.38	6.00	6.00	4.38	4.36
MAX VEL	1.50	1.49	0.83	1.44	2.64	2.90	0.00	0.00	1.50	1.50
DEPTH	0.38	0.20	2.98	1.15	0.60	1.10	0.00	0.00	2.04	0.26
TIME	4.36	4.47	4.46	4.07	4.11	4.23	0.00	0.00	4.30	4.24
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.40	1.52
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.75	7.46
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.40	4.36

NODE	811	812	813	814	815	816	817	818	819	820
ELEVATION	1379.66	1379.86	1383.56	1383.57	1383.59	1383.86	1384.93	1385.67	1386.36	1387.00
MAX DEPTH	0.00	0.00	3.33	3.13	2.55	0.01	0.00	0.00	0.00	0.00
VELOCITY	0.00	0.00	0.02	0.10	0.09	0.00	0.00	0.00	0.00	0.00
TIME	6.00	6.00	4.34	4.36	4.33	4.51	6.00	6.00	6.00	6.00
MAX VEL	0.00	0.00	1.71	1.45	1.21	0.00	0.00	0.00	0.00	0.00
DEPTH	0.00	0.00	0.91	0.70	0.63	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	4.01	4.01	4.06	0.00	0.00	0.00	0.00	0.00
ST. DEPTH	1.29	0.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	6.24	3.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	4.39	4.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	821	822	823	824	825	826	827	828	829	830
ELEVATION	1387.78	1388.79	1389.90	1366.53	1366.55	1366.57	1366.63	1366.98	1367.51	1368.00
MAX DEPTH	0.00	0.00	0.00	0.86	1.35	1.01	0.60	0.47	0.40	0.67
VELOCITY	0.00	0.00	0.00	0.93	0.80	1.04	0.88	1.19	1.13	0.97
TIME	6.00	6.00	6.00	4.76	4.79	4.76	4.75	4.46	4.52	4.64
MAX VEL	0.00	0.00	0.00	1.47	1.30	1.79	1.70	1.77	1.75	1.82
DEPTH	0.00	0.00	0.00	0.35	0.51	0.50	0.46	0.47	0.40	0.61
TIME	0.00	0.00	0.00	4.58	4.46	4.51	4.49	4.47	4.45	4.44
ST. DEPTH	0.00	0.21	0.00	0.00	1.76	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	3.35	0.00	0.00	9.62	0.00	0.00	0.00	0.00	0.00
TIME	0.00	3.59	0.00	0.00	4.79	0.00	0.00	0.00	0.00	0.00

NODE	831	832	833	834	835	836	837	838	839	840
ELEVATION	1368.12	1368.31	1368.75	1369.20	1369.66	1370.14	1370.61	1373.43	1373.44	1373.58
MAX DEPTH	0.76	0.45	0.33	0.27	0.10	0.00	0.00	0.82	0.33	0.54
VELOCITY	0.88	0.90	1.00	0.81	0.10	0.00	0.00	0.00	1.29	0.97
TIME	4.63	4.62	4.40	4.52	4.70	6.00	6.00	4.72	4.42	4.56
MAX VEL	1.59	1.50	1.50	1.50	0.29	0.00	0.00	1.48	1.50	1.50
DEPTH	0.65	0.44	0.29	0.26	0.10	0.00	0.00	0.21	0.31	0.45
TIME	4.42	4.62	4.42	4.53	4.63	0.00	0.00	4.46	4.43	4.40
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	841	842	843	844	845	846	847	848	849	850
ELEVATION	1373.63	1373.82	1373.58	1374.67	1375.10	1375.48	1375.78	1377.90	1377.95	1378.03
MAX DEPTH	1.66	0.12	0.00	0.57	0.44	0.39	0.21	3.52	1.45	1.33
VELOCITY	0.43	0.17	0.00	1.26	1.24	1.24	0.60	1.88	1.51	1.61
TIME	4.55	4.51	6.00	4.45	4.46	4.44	4.39	4.40	4.37	4.40
MAX VEL	1.48	0.39	0.00	1.85	1.57	1.50	1.50	1.89	1.55	2.20
DEPTH	1.38	0.12	0.00	0.57	0.43	0.37	0.20	3.51	1.42	0.51
TIME	4.32	4.52	0.00	4.43	4.46	4.37	4.31	4.40	4.41	4.10
ST. DEPTH	2.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	9.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	4.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	851	852	853	854	855	856	857	858	859	860
ELEVATION	1378.10	1380.16	1380.06	1379.61	1380.55	1380.55	1380.55	1383.56	1383.56	1383.57
MAX DEPTH	1.40	0.00	0.00	0.77	0.00	0.00	0.00	3.10	2.90	2.51
VELOCITY	0.79	0.00	0.00	0.38	0.00	0.00	0.00	0.02	0.02	0.05
TIME	4.40	6.00	6.00	4.36	6.00	6.00	6.00	4.34	4.34	4.34
MAX VEL	1.50	0.00	0.00	1.48	0.00	0.00	0.00	1.68	1.47	0.86
DEPTH	1.32	0.00	0.00	0.40	0.00	0.00	0.00	1.89	1.72	1.53
TIME	4.45	0.00	0.00	4.64	0.00	0.00	0.00	4.10	4.10	4.12
ST. DEPTH	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	4.70	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	0.00	0.00

NODE	861	862	863	864	865	866	867	868	869	870
ELEVATION	1383.86	1385.05	1385.65	1386.61	1387.40	1388.17	1389.47	1390.77	1366.50	1366.52
MAX DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.38
VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.96	0.98
TIME	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	4.76	4.78
MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.55	1.46
DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.97	0.32
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.81	4.38
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	1.80
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	3.21	0.00	0.00	10.17

TIME	0.00	0.00	0.00	0.00	0.00	0.00	3.58	0.00	0.00	4.78

NODE	871	872	873	874	875	876	877	878	879	880
ELEVATION	1366.55	1366.64	1366.95	1367.41	1367.90	1368.08	1368.23	1368.75	1369.21	1369.65
MAX DEPTH	0.94	0.53	0.47	0.35	0.26	0.39	0.25	0.16	0.10	0.02
VELOCITY	1.01	1.04	1.07	0.96	0.92	0.80	0.61	0.30	0.00	0.00
TIME	4.76	4.74	4.47	4.70	4.67	4.66	4.67	4.69	4.70	5.69
MAX VEL	1.51	1.57	1.60	1.50	1.49	1.50	1.50	0.53	0.28	0.00
DEPTH	0.51	0.39	0.47	0.25	0.24	0.37	0.25	0.16	0.10	0.00
TIME	4.59	4.47	4.47	4.90	4.73	4.71	4.64	4.68	4.69	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	881	882	883	884	885	886	887	888	889	890
ELEVATION	1370.35	1370.75	1371.69	1372.20	1373.58	1373.62	1373.73	1374.19	1374.65	1375.20
MAX DEPTH	0.00	0.00	0.00	0.00	1.42	3.12	0.53	0.56	0.52	0.27
VELOCITY	0.00	0.00	0.00	0.00	0.36	0.92	0.99	1.53	1.60	0.87
TIME	6.00	6.00	6.00	6.00	4.59	4.57	4.46	4.47	4.45	4.46
MAX VEL	0.00	0.00	0.00	0.00	0.66	1.49	1.50	1.89	1.84	1.50
DEPTH	0.00	0.00	0.00	0.00	1.35	2.11	0.50	0.55	0.52	0.20
TIME	0.00	0.00	0.00	0.00	4.60	4.22	4.38	4.42	4.46	4.25
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	3.39	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	9.23	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	4.55	0.00	0.00	0.00	0.00

NODE	891	892	893	894	895	896	897	898	899	900
ELEVATION	1375.48	1376.19	1377.66	1377.93	1378.03	1378.06	1379.52	1379.64	1379.53	1380.55
MAX DEPTH	1.26	1.03	2.16	1.81	1.90	1.21	0.00	0.00	0.28	0.00
VELOCITY	1.70	2.42	5.34	2.38	1.06	0.58	0.00	0.00	0.25	0.00
TIME	4.42	4.37	4.41	4.42	4.44	4.40	6.00	6.00	4.41	6.00
MAX VEL	1.71	3.64	6.87	3.23	1.91	1.50	0.00	0.00	0.31	0.00
DEPTH	1.25	1.01	2.15	1.79	1.80	1.04	0.00	0.00	0.25	0.00
TIME	4.38	4.37	4.41	4.43	4.30	4.56	0.00	0.00	4.31	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.93	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.41	0.00

NODE	901	902	903	904	905	906	907	908	909	910
ELEVATION	1380.55	1380.55	1383.56	1383.56	1383.56	1383.70	1384.93	1385.72	1386.77	1387.67
MAX DEPTH	0.00	0.00	1.91	1.58	1.00	0.00	0.00	0.00	0.00	0.00
VELOCITY	0.00	0.00	0.02	0.02	0.01	0.00	0.00	0.00	0.00	0.00
TIME	6.00	6.00	4.36	4.36	4.35	6.00	6.00	6.00	6.00	6.00
MAX VEL	0.00	0.00	2.10	1.51	1.46	0.00	0.00	0.00	0.00	0.00
DEPTH	0.00	0.00	0.88	0.61	0.32	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	4.12	4.13	4.64	0.00	0.00	0.00	0.00	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	911	912	913	914	915	916	917	918	919	920
ELEVATION	1388.43	1389.97	1392.54	1366.48	1366.49	1366.51	1366.71	1367.04	1367.34	1367.81
MAX DEPTH	0.00	0.00	0.00	1.12	1.42	0.69	0.32	0.30	0.27	0.21
VELOCITY	0.00	0.00	0.00	1.09	1.27	0.95	0.86	1.04	0.82	0.88
TIME	6.00	6.00	6.00	4.76	4.75	4.77	4.74	4.72	4.70	4.62
MAX VEL	0.00	0.00	0.00	1.67	1.49	1.50	1.50	1.50	1.50	1.48
DEPTH	0.00	0.00	0.00	1.08	0.39	0.33	0.26	0.28	0.25	0.20
TIME	0.00	0.00	0.00	4.81	4.37	4.57	4.87	4.49	4.75	4.72
ST. DEPTH	0.00	0.22	0.00	0.00	1.82	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	2.97	0.00	0.00	9.82	0.00	0.00	0.00	0.00	0.00
TIME	0.00	4.02	0.00	0.00	4.78	0.00	0.00	0.00	0.00	0.00

NODE	921	922	923	924	925	926	927	928	929	930
ELEVATION	1368.12	1368.29	1368.73	1369.19	1369.74	1370.37	1370.82	1371.31	1371.82	1373.51
MAX DEPTH	0.23	0.27	0.16	0.14	0.10	0.00	0.00	0.00	0.00	1.44
VELOCITY	0.65	0.69	0.24	0.26	0.00	0.00	0.00	0.00	0.00	1.01
TIME	4.41	4.38	4.71	4.62	5.05	4.71	6.00	6.00	6.00	4.44
MAX VEL	1.49	1.50	0.52	0.45	0.23	0.00	0.00	0.00	0.00	1.30
DEPTH	0.20	0.23	0.16	0.14	0.10	0.00	0.00	0.00	0.00	0.86
TIME	4.76	4.66	4.71	4.62	5.12	0.00	0.00	0.00	0.00	4.25
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	931	932	933	934	935	936	937	938	939	940
ELEVATION	1373.56	1373.70	1374.03	1374.62	1375.02	1375.51	1375.92	1377.30	1377.55	1377.74
MAX DEPTH	4.11	0.63	0.83	0.62	1.52	0.76	0.37	0.00	0.00	0.00
VELOCITY	0.85	1.79	3.11	2.14	1.75	2.18	0.97	0.00	0.00	0.00
TIME	4.49	4.50	4.45	4.43	4.41	4.42	4.42	6.00	6.00	6.00
MAX VEL	1.79	3.22	4.19	3.21	2.31	2.44	1.50	0.00	0.00	0.00
DEPTH	1.70	0.50	0.82	0.62	1.50	0.75	0.27	0.00	0.00	0.00
TIME	3.98	4.29	4.45	4.42	4.35	4.44	4.64	0.00	0.00	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	941	942	943	944	945	946	947	948	949	950
ELEVATION	1378.25	1378.29	1379.80	1379.47	1381.95	1382.30	1382.65	1383.56	1383.56	1383.56
MAX DEPTH	0.00	0.00	0.00	0.23	0.00	0.00	0.00	1.77	0.80	0.00
VELOCITY	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.01	0.01	0.00
TIME	6.00	6.00	6.00	4.41	6.00	6.00	6.00	4.36	4.36	6.00
MAX VEL	0.00	0.00	0.00	0.15	0.00	0.00	0.00	1.84	1.14	0.00
DEPTH	0.00	0.00	0.00	0.23	0.00	0.00	0.00	1.14	0.42	0.00
TIME	0.00	0.00	0.00	4.41	0.00	0.00	0.00	4.17	4.55	0.00
ST. DEPTH	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	0.00	0.00

MAX STVEL	0.00	0.00	0.00	1.92	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	0.00	0.00

NODE	951	952	953	954	955	956	957	958	959	960
ELEVATION	1383.65	1384.33	1385.90	1386.82	1387.77	1388.52	1390.23	1392.38	1366.44	1366.46
MAX DEPTH	0.00	0.00	0.00	0.00	0.03	0.02	0.00	0.00	1.22	1.44
VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.68	1.75
TIME	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	4.76	4.75
MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.93	1.81
DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.20	1.41
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.78	4.76
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.00	1.82
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	2.52	0.00	0.00	9.73
TIME	0.00	0.00	0.00	0.00	0.00	0.00	4.02	0.00	0.00	4.75

NODE	961	962	963	964	965	966	967	968	969	970
ELEVATION	1366.49	1366.89	1367.10	1367.28	1367.57	1368.08	1368.43	1368.76	1369.34	1369.74
MAX DEPTH	0.38	0.30	0.32	0.35	0.29	0.27	0.24	0.25	0.23	0.21
VELOCITY	0.46	0.75	0.69	0.83	0.79	0.84	1.16	0.82	1.06	0.67
TIME	4.76	4.35	4.67	4.62	4.59	4.40	4.35	4.46	4.56	4.55
MAX VEL	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
DEPTH	0.20	0.21	0.28	0.29	0.22	0.25	0.21	0.23	0.20	0.20
TIME	4.58	4.67	4.90	4.87	4.97	4.52	4.68	4.59	4.78	4.78
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	971	972	973	974	975	976	977	978	979	980
ELEVATION	1370.16	1370.38	1373.30	1373.42	1373.50	1373.54	1373.58	1373.36	1374.52	1375.92
MAX DEPTH	0.12	0.12	2.30	1.92	1.58	4.34	1.13	0.00	0.57	0.00
VELOCITY	0.22	0.15	0.00	1.87	1.01	0.68	1.02	0.00	1.80	0.00
TIME	4.51	4.57	4.49	4.49	4.44	4.42	4.49	6.00	4.43	6.00
MAX VEL	0.37	0.35	0.00	2.33	2.07	1.50	1.86	0.00	2.37	0.00
DEPTH	0.12	0.12	0.00	1.74	0.65	3.35	0.50	0.00	0.57	0.00
TIME	4.52	4.57	0.00	4.71	4.22	5.05	4.21	0.00	4.42	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	981	982	983	984	985	986	987	988	989	990
ELEVATION	1377.24	1375.86	1377.17	1377.51	1377.79	1378.11	1378.17	1379.54	1379.37	1381.95
MAX DEPTH	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00
VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
TIME	6.00	4.56	6.00	6.00	6.00	6.00	6.00	6.00	4.39	6.00
MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00
DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.41	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.55	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.41	0.00

NODE	991	992	993	994	995	996	997	998	999	1000
ELEVATION	1382.30	1382.65	1383.56	1383.56	1383.64	1383.65	1384.82	1385.92	1386.12	1387.69
MAX DEPTH	0.00	0.00	1.34	0.42	0.00	0.00	0.00	0.00	0.00	0.10
VELOCITY	0.00	0.00	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00
TIME	6.00	6.00	4.37	4.37	6.00	6.00	6.00	6.00	6.00	4.13
MAX VEL	0.00	0.00	1.49	1.36	0.00	0.00	0.00	0.00	0.00	0.24
DEPTH	0.00	0.00	0.91	0.27	0.00	0.00	0.00	0.00	0.00	0.10
TIME	0.00	0.00	4.20	4.47	0.00	0.00	0.00	0.00	0.00	4.15
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010
ELEVATION	1388.87	1390.39	1391.01	1366.43	1366.36	1366.45	1366.82	1367.13	1367.25	1367.53
MAX DEPTH	0.12	0.00	0.00	1.29	1.33	0.41	0.27	0.42	0.47	0.38
VELOCITY	0.29	0.00	0.00	0.00	2.77	0.74	0.91	0.86	0.87	0.88
TIME	4.06	6.00	6.00	4.75	4.75	4.76	4.35	4.70	4.64	4.60
MAX VEL	0.32	0.00	0.00	0.00	2.83	1.50	1.50	1.50	1.50	1.50
DEPTH	0.10	0.00	0.00	0.00	1.31	0.23	0.20	0.40	0.40	0.37
TIME	4.13	0.00	0.00	0.00	4.75	4.46	5.04	4.61	5.00	4.65
ST. DEPTH	0.00	0.30	0.00	0.00	1.72	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	2.18	0.00	0.00	9.34	0.00	0.00	0.00	0.00	0.00
TIME	0.00	4.01	0.00	0.00	4.73	0.00	0.00	0.00	0.00	0.00

NODE	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020
ELEVATION	1368.06	1368.42	1368.78	1369.12	1369.66	1370.17	1370.50	1369.65	1372.57	1373.29
MAX DEPTH	0.31	0.39	0.45	0.37	0.66	0.57	0.27	0.00	0.00	0.00
VELOCITY	1.16	1.32	1.14	0.85	1.00	1.14	0.73	0.00	0.00	0.00
TIME	4.58	4.52	4.44	4.57	4.52	4.50	4.50	6.00	6.00	6.00
MAX VEL	1.50	1.50	1.50	1.50	1.94	1.91	1.50	0.00	0.00	0.00
DEPTH	0.28	0.38	0.44	0.36	0.64	0.48	0.24	0.00	0.00	0.00
TIME	4.88	4.36	4.51	4.53	4.56	4.29	4.77	0.00	0.00	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030
ELEVATION	1373.47	1373.48	1373.69	1374.25	1376.98	1377.29	1375.44	1375.82	1376.28	1376.80
MAX DEPTH	3.32	0.53	0.31	0.20	0.00	0.00	0.17	0.00	0.00	0.00
VELOCITY	1.27	0.55	0.71	0.30	0.00	0.00	0.06	0.00	0.00	0.00
TIME	4.48	4.49	4.50	4.36	6.00	6.00	4.45	6.00	6.00	6.00
MAX VEL	1.50	1.50	1.50	1.35	0.00	0.00	0.06	0.00	0.00	0.00
DEPTH	2.31	0.51	0.30	0.20	0.00	0.00	0.17	0.00	0.00	0.00
TIME	5.07	4.49	4.42	4.44	0.00	0.00	4.44	0.00	0.00	0.00

ST. DEPTH	3.30	0.00	0.00	0.00	0.00	0.00	0.53	0.30	0.28	0.27
MAX STVEL	8.98	0.00	0.00	0.00	0.00	0.00	2.05	3.42	3.33	3.49
TIME	4.45	0.00	0.00	0.00	0.00	0.00	4.43	4.43	4.42	4.42

NODE	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040
ELEVATION	1377.63	1378.30	1378.76	1379.32	1379.80	1381.15	1382.55	1383.56	1383.52	1383.88
MAX DEPTH	0.00	0.00	0.10	0.08	0.00	0.00	0.00	0.52	0.00	0.00
VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
TIME	6.00	6.00	4.49	6.00	6.00	6.00	6.00	4.37	4.41	6.00
MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.49	0.00	0.00
DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.51	0.00	0.00
ST. DEPTH	0.25	0.28	0.31	0.26	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	3.74	3.55	3.19	3.47	0.00	0.00	0.00	0.00	0.00	0.00
TIME	4.42	4.42	4.41	4.41	0.00	0.00	0.00	0.00	0.00	0.00

NODE	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050
ELEVATION	1383.99	1385.70	1386.38	1388.05	1388.95	1389.18	1390.32	1392.72	1366.35	1366.15
MAX DEPTH	0.00	0.00	0.00	0.00	0.01	0.10	0.13	0.00	1.20	1.21
VELOCITY	0.00	0.00	0.00	0.00	0.00	0.22	0.33	0.00	0.00	1.89
TIME	6.00	6.00	6.00	6.00	6.00	4.03	4.02	6.00	4.77	4.75
MAX VEL	0.00	0.00	0.00	0.00	0.00	0.31	0.35	0.00	0.00	2.35
DEPTH	0.00	0.00	0.00	0.00	0.00	0.10	0.13	0.00	0.00	1.15
TIME	0.00	0.00	0.00	0.00	0.00	4.13	4.03	0.00	0.00	4.75
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.00	0.00	1.73
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	1.47	0.00	0.00	8.71
TIME	0.00	0.00	0.00	0.00	0.00	0.00	4.01	0.00	0.00	4.76

NODE	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060
ELEVATION	1366.24	1366.83	1367.15	1367.23	1367.45	1367.93	1368.40	1368.78	1369.12	1369.67
MAX DEPTH	0.56	0.44	0.80	0.70	0.61	0.57	0.64	0.66	1.02	0.58
VELOCITY	1.51	1.73	1.42	0.81	0.95	1.28	1.08	0.98	1.10	1.08
TIME	4.77	4.31	4.67	4.64	4.50	4.50	4.58	4.44	4.53	4.51
MAX VEL	1.86	1.88	1.50	1.51	1.53	1.78	1.78	1.61	1.64	1.84
DEPTH	0.50	0.41	0.78	0.54	0.48	0.49	0.53	0.51	1.02	0.50
TIME	4.91	4.42	4.71	4.27	4.26	4.96	4.99	5.02	4.55	4.82
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070
ELEVATION	1369.94	1370.53	1370.86	1373.15	1373.30	1373.36	1373.67	1373.74	1373.94	1374.91
MAX DEPTH	0.29	0.00	0.00	0.00	0.00	1.76	0.00	0.00	0.18	0.00
VELOCITY	0.76	0.00	0.00	0.00	0.00	1.03	0.00	0.00	0.20	0.00
TIME	4.50	6.00	6.00	6.00	6.00	4.49	6.00	6.00	4.60	6.00
MAX VEL	1.50	0.00	0.00	0.00	0.00	1.41	0.00	0.00	0.62	0.00
DEPTH	0.27	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.18	0.00
TIME	4.62	0.00	0.00	0.00	0.00	5.19	0.00	0.00	4.57	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	1.87	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	8.92	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	4.42	0.00	0.00	0.00	0.00

NODE	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080
ELEVATION	1375.68	1375.39	1375.41	1376.98	1377.35	1378.22	1378.32	1379.52	1379.50	1381.70
MAX DEPTH	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	6.00	4.59	4.56	6.00	6.00	6.00	6.00	6.00	6.00	6.00
MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ST. DEPTH	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	2.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	4.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090
ELEVATION	1382.60	1383.55	1383.51	1383.74	1384.07	1384.43	1385.47	1388.08	1391.03	1391.04
MAX DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100
ELEVATION	1391.11	1390.53	1394.13	1365.94	1366.07	1366.06	1366.23	1366.38	1366.47	1366.50
MAX DEPTH	0.00	0.00	0.00	1.06	1.13	0.77	1.17	1.53	1.79	1.89
VELOCITY	0.00	0.00	0.00	0.00	2.41	1.29	2.66	1.65	0.38	0.05
TIME	6.00	6.00	6.00	4.76	4.77	4.78	4.53	4.53	4.53	4.53
MAX VEL	0.00	0.00	0.00	0.00	2.50	2.12	3.00	1.86	1.91	1.43
DEPTH	0.00	0.00	0.00	0.00	1.06	0.49	1.17	1.51	1.68	1.83
TIME	0.00	0.00	0.00	0.00	4.78	4.40	4.53	4.52	4.43	4.50
ST. DEPTH	0.00	0.33	0.00	0.00	1.67	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	2.01	0.00	0.00	8.27	0.00	0.00	0.00	0.00	0.00
TIME	0.00	4.01	0.00	0.00	4.76	0.00	0.00	0.00	0.00	0.00

NODE	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110
ELEVATION	1366.51	1368.22	1368.37	1368.36	1369.10	1369.32	1368.79	1370.60	1372.13	1372.05
MAX DEPTH	1.57	1.22	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VELOCITY	0.09	1.62	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	4.54	4.55	4.50	4.55	6.00	6.00	6.00	6.00	6.00	6.00
MAX VEL	0.57	1.62	1.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DEPTH	1.18	1.18	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TIME	4.33	4.34	4.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120
ELEVATION	1373.07	1373.82	1373.76	1373.89	1375.04	1375.80	1375.18	1374.91	1376.98	1376.91
MAX DEPTH	0.43	0.00	0.00	0.11	0.00	0.00	0.04	0.00	0.00	0.00
VELOCITY	1.24	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00
TIME	4.49	6.00	6.00	4.87	6.00	6.00	4.44	6.00	6.00	6.00
MAX VEL	1.24	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00
DEPTH	0.43	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00
TIME	4.49	0.00	0.00	4.90	0.00	0.00	0.00	0.00	0.00	0.00
ST. DEPTH	0.69	0.00	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00
MAX STVEL	6.13	0.00	0.00	0.00	0.00	0.00	2.36	0.00	0.00	0.00
TIME	4.48	0.00	0.00	0.00	0.00	0.00	4.44	0.00	0.00	0.00

NODE	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140
ELEVATION	1385.97	1386.55	1389.01	1391.08	1391.11	1391.45	1391.98	1394.88	1365.72	1366.00
MAX DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93	0.96
VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.52
TIME	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	4.76	4.80
MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.56
DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.90
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.76
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	1.49
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	3.58	0.00	0.00	6.42
TIME	0.00	0.00	0.00	0.00	0.00	0.00	3.42	0.00	0.00	4.80

NODE	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150
ELEVATION	1366.01	1365.46	1365.74	1366.48	1366.51	1366.56	1367.50	1368.00	1368.13	1368.41
MAX DEPTH	0.00	0.00	0.00	0.33	2.04	2.25	0.25	0.45	0.17	0.00
VELOCITY	0.00	0.00	0.00	0.24	0.24	0.25	0.00	1.00	0.31	0.00
TIME	4.81	6.00	6.00	4.53	4.53	4.51	4.56	4.55	4.49	6.00
MAX VEL	0.00	0.00	0.00	1.49	1.50	1.50	0.15	1.50	0.58	0.00
DEPTH	0.00	0.00	0.00	0.32	1.96	0.84	0.10	0.39	0.17	0.00
TIME	0.00	0.00	0.00	4.57	4.47	3.92	4.14	4.34	4.51	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160
ELEVATION	1369.60	1370.40	1371.45	1373.63	1373.24	1372.36	1373.63	1373.64	1373.56	1375.44
MAX DEPTH	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.03	0.00	0.00
VELOCITY	0.00	0.00	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00
TIME	6.00	6.00	6.00	6.00	6.00	4.49	6.00	6.00	6.00	6.00
MAX VEL	0.00	0.00	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00
DEPTH	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	4.49	0.00	0.00	0.00	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	6.52	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	4.49	0.00	0.00	0.00	0.00

NODE	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170
ELEVATION	1376.00	1375.05	1375.70	1378.00	1378.51	1379.39	1380.68	1382.38	1382.47	1384.05
MAX DEPTH	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	6.00	4.45	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ST. DEPTH	0.00	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	2.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	4.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190
ELEVATION	1391.59	1393.52	1398.54	1365.50	1365.93	1366.07	1365.70	1365.51	1366.49	1366.51
MAX DEPTH	0.00	0.00	0.00	0.73	0.81	0.10	0.00	0.00	1.66	2.31
VELOCITY	0.00	0.00	0.00	0.00	2.39	0.19	0.00	0.00	1.75	1.30
TIME	6.00	6.00	6.00	4.76	4.76	4.56	6.00	6.00	4.55	4.51
MAX VEL	0.00	0.00	0.00	0.00	2.42	0.19	0.00	0.00	1.87	2.23
DEPTH	0.00	0.00	0.00	0.00	0.78	0.10	0.00	0.00	1.62	2.13
TIME	0.00	0.00	0.00	0.00	4.71	4.56	0.00	0.00	4.53	4.39
ST. DEPTH	0.00	0.22	0.00	0.00	1.36	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	3.54	0.00	0.00	5.54	0.00	0.00	0.00	0.00	0.00
TIME	0.00	3.40	0.00	0.00	4.72	0.00	0.00	0.00	0.00	0.00

NODE	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200
ELEVATION	1366.57	1367.36	1367.43	1367.61	1368.36	1368.77	1370.36	1371.24	1372.74	1372.80
MAX DEPTH	1.26	0.10	0.20	0.20	0.00	0.00	0.00	0.00	0.00	0.00
VELOCITY	0.36	0.11	0.50	0.40	0.00	0.00	0.00	0.00	0.00	0.00
TIME	4.56	4.77	4.50	4.47	6.00	6.00	6.00	6.00	6.00	6.00
MAX VEL	2.01	0.32	0.65	0.79	0.00	0.00	0.00	0.00	0.00	0.00
DEPTH	1.19	0.10	0.20	0.20	0.00	0.00	0.00	0.00	0.00	0.00
TIME	4.48	5.14	4.50	4.49	0.00	0.00	0.00	0.00	0.00	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210
ELEVATION	1371.01	1373.25	1373.51	1373.56	1375.22	1375.94	1374.93	1375.90	1378.08	1378.58
MAX DEPTH	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VELOCITY	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	4.49	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
MAX VEL	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

DEPTH	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	4.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ST. DEPTH	0.68	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00
MAX STVEL	5.66	0.00	0.00	0.00	0.00	0.00	3.23	0.00	0.00	0.00
TIME	4.49	0.00	0.00	0.00	0.00	0.00	4.44	0.00	0.00	0.00

NODE	1221	1222	1223	1224	1225	1226	1227	1228	1229	1230
ELEVATION	1388.11	1389.65	1390.83	1391.76	1392.01	1391.85	1395.34	1398.31	1365.41	1365.96
MAX DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.51
VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.22
TIME	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	4.76	4.76
MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50
DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.48
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.73
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.99
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	3.64	0.00	0.00	3.70
TIME	0.00	0.00	0.00	0.00	0.00	0.00	3.37	0.00	0.00	4.76

NODE	1231	1232	1233	1234	1235	1236	1237	1238	1239	1240
ELEVATION	1366.13	1366.23	1366.37	1366.46	1366.54	1366.60	1366.80	1367.03	1367.20	1367.43
MAX DEPTH	1.28	1.89	2.39	2.22	1.42	0.80	0.64	0.62	0.60	0.54
VELOCITY	2.87	2.29	2.56	3.25	2.14	1.47	2.21	2.25	2.14	1.39
TIME	4.56	4.56	4.54	4.54	4.54	4.52	4.50	4.49	4.49	4.49
MAX VEL	2.89	3.30	3.68	4.22	3.99	2.29	3.05	3.11	2.66	2.75
DEPTH	1.27	1.86	2.31	2.14	0.49	0.79	0.53	0.59	0.59	0.50
TIME	4.52	4.59	4.59	4.47	3.91	4.56	4.37	4.47	4.49	4.42
ST. DEPTH	0.00	0.00	0.00	0.00	2.00	1.34	1.08	1.00	0.98	0.93
MAX STVEL	0.00	0.00	0.00	0.00	0.00	4.32	4.76	5.03	5.05	5.41
TIME	0.00	0.00	0.00	0.00	4.54	4.53	4.51	4.50	4.50	4.49

NODE	1241	1242	1243	1244	1245	1246	1247	1248	1249	1250
ELEVATION	1367.76	1368.11	1368.49	1369.01	1369.58	1365.42	1366.02	1365.98	1366.07	1367.32
MAX DEPTH	0.51	0.51	0.50	0.49	0.50	0.20	0.10	0.18	1.07	0.00
VELOCITY	1.54	1.33	1.22	1.44	1.32	0.00	0.15	0.19	0.45	0.00
TIME	4.49	4.41	4.43	4.49	4.49	4.73	4.72	4.57	4.57	6.00
MAX VEL	2.08	2.12	1.91	1.84	1.78	0.00	0.24	0.19	1.49	0.00
DEPTH	0.50	0.49	0.50	0.48	0.48	0.00	0.10	0.17	1.06	0.00
TIME	4.49	4.46	4.51	4.49	4.43	0.00	4.76	4.49	4.50	0.00
ST. DEPTH	0.87	0.85	0.82	0.76	0.74	0.00	0.52	0.00	0.00	0.00
MAX STVEL	5.86	6.01	6.20	6.69	6.85	0.00	1.68	0.00	0.00	0.00
TIME	4.49	4.49	4.49	4.49	4.49	0.00	4.76	0.00	0.00	0.00

NODE	1261	1262	1263	1264	1265	1266	1267	1268	1269	1270
ELEVATION	1370.22	1370.44	1365.46	1366.01	1366.49	1367.13	1367.32	1367.82	1368.10	1367.89
MAX DEPTH	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	6.00	6.00	4.72	6.00	6.00	6.00	6.00	6.00	6.00	6.00
MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	1271	1272	1273	1274	1275	1276	1277	1278	1279	1280
ELEVATION	1368.27	1368.10	1368.22	1368.12	1368.90	1365.34	1365.92	1366.46	1367.08	1367.45
MAX DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	1291	1292	1293	1294	1295	1296	1297	1298	1299	1300
ELEVATION	1367.85	1368.22	1365.44	1365.82	1366.44	1365.86	1366.04	1366.95	1368.21	1370.29
MAX DEPTH	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.29
VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03
TIME	6.00	6.00	4.28	6.00	6.00	6.00	6.00	6.00	6.00	4.49
MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.54
DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.47
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.18
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.42

NODE	1301	1302	1303	1304	1305	1306	1307	1308	1309	1310
ELEVATION	1370.60	1371.30	1371.90	1373.00	1373.60	1374.60	1375.40	1365.55	1365.77	1366.52
MAX DEPTH	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00
VELOCITY	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00
TIME	4.49	6.00	6.00	6.00	6.00	6.00	6.00	4.12	6.00	6.00
MAX VEL	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00
DEPTH	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00
TIME	4.44	0.00	0.00	0.00	0.00	0.00	0.00	4.45	0.00	0.00
ST. DEPTH	0.39	0.26	0.30	0.27	0.31	0.24	0.00	0.00	0.00	0.00
MAX STVEL	2.40	3.54	3.33	3.89	3.30	3.91	0.00	0.00	0.00	0.00
TIME	4.46	4.46	4.31	4.30	4.45	4.29	0.00	0.00	0.00	0.00

NODE	1311	1312	1313	1314	1315	1316	1317	1318	1319	1320
ELEVATION	1367.21	1367.38	1367.52	1367.82	1365.55	1365.51	1366.29	1367.15	1367.17	1367.25
MAX DEPTH	0.00	0.00	0.00	0.00	0.48	0.01	0.00	0.00	0.00	0.00
VELOCITY	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00
TIME	6.00	6.00	6.00	6.00	4.12	6.00	6.00	6.00	6.00	6.00

MAX VEL	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.00	0.00
DEPTH	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	4.05	0.00	0.00	0.00	0.00	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	1321	1322	1323	1324	1325	1326	1327	1328	1329	1330
ELEVATION	1366.98	1365.54	1365.61	1366.16	1367.25	1366.80	1367.00	1366.71	1365.52	1365.63
MAX DEPTH	0.00	0.56	0.34	0.00	0.00	0.00	0.00	0.00	0.56	0.60
VELOCITY	0.00	0.52	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.89
TIME	6.00	4.11	4.11	6.00	6.00	6.00	6.00	6.00	4.10	4.10
MAX VEL	0.00	1.37	0.36	0.00	0.00	0.00	0.00	0.00	0.00	1.48
DEPTH	0.00	0.43	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.58
TIME	0.00	3.98	4.11	0.00	0.00	0.00	0.00	0.00	0.00	4.13
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	1331	1332	1333	1334	1335	1336	1337	1338	1339	1340
ELEVATION	1365.82	1366.31	1366.37	1366.09	1366.41	1365.47	1365.90	1365.89	1365.81	1365.92
MAX DEPTH	0.28	0.00	0.00	0.00	0.00	0.83	0.74	0.35	0.16	0.00
VELOCITY	0.51	0.00	0.00	0.00	0.00	0.00	2.40	0.61	0.08	0.00
TIME	4.10	6.00	6.00	6.00	6.00	4.06	4.09	4.09	4.14	6.00
MAX VEL	1.47	0.00	0.00	0.00	0.00	0.00	2.44	1.50	0.52	0.00
DEPTH	0.24	0.00	0.00	0.00	0.00	0.00	0.74	0.30	0.16	0.00
TIME	4.15	0.00	0.00	0.00	0.00	0.00	4.09	4.15	4.17	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	1341	1342	1343	1344	1345	1346	1347	1348	1349	1350
ELEVATION	1366.24	1366.79	1366.18	1366.20	1366.72	1367.68	1369.24	1366.47	1366.50	1367.18
MAX DEPTH	0.00	0.00	1.34	0.67	0.00	0.00	0.00	1.39	0.88	0.00
VELOCITY	0.00	0.00	4.74	2.66	0.00	0.00	0.00	3.86	2.72	0.00
TIME	6.00	6.00	4.06	4.06	6.00	6.00	6.00	4.06	4.06	6.00
MAX VEL	0.00	0.00	4.75	3.59	0.00	0.00	0.00	4.04	4.13	0.00
DEPTH	0.00	0.00	1.34	0.64	0.00	0.00	0.00	1.37	0.84	0.00
TIME	0.00	0.00	4.06	4.09	0.00	0.00	0.00	4.07	4.05	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	1351	1352	1353	1354	1355	1356	1357	1358	1359	1360
ELEVATION	1368.46	1368.97	1366.68	1366.66	1366.63	1366.56	1367.15	1366.91	1366.86	1366.94
MAX DEPTH	0.00	0.00	1.40	0.78	0.98	0.14	0.00	1.43	0.74	0.16
VELOCITY	0.00	0.00	3.55	2.06	1.72	0.11	0.00	3.54	2.14	0.24
TIME	6.00	6.00	4.06	4.06	4.06	4.15	6.00	4.05	4.05	4.09
MAX VEL	0.00	0.00	4.66	3.21	2.38	0.38	0.00	5.20	3.22	0.33
DEPTH	0.00	0.00	0.95	0.76	0.97	0.13	0.00	1.36	0.71	0.11
TIME	0.00	0.00	3.82	4.03	4.04	4.16	0.00	4.06	4.05	4.15
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	1361	1362	1363	1364	1365	1366	1367	1368	1369	1370
ELEVATION	1367.27	1367.15	1367.13	1367.51	1367.86	1367.35	1367.38	1367.47	1367.48	1367.44
MAX DEPTH	0.00	1.48	0.79	0.00	0.00	1.48	0.88	0.53	0.22	1.38
VELOCITY	0.00	3.01	2.62	0.00	0.00	2.47	2.53	1.81	0.11	2.09
TIME	6.00	4.05	4.05	6.00	6.00	4.05	4.05	4.06	4.06	4.05
MAX VEL	0.00	5.50	4.00	0.00	0.00	4.99	3.99	1.89	0.90	3.22
DEPTH	0.00	1.35	0.78	0.00	0.00	1.38	0.84	0.53	0.22	1.18
TIME	0.00	4.05	4.05	0.00	0.00	4.02	4.04	4.06	4.07	3.94
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	1371	1372	1373
ELEVATION	1367.73	1367.51	1367.48
MAX DEPTH	1.01	1.02	0.35
VELOCITY	3.51	1.24	0.21
TIME	4.02	4.03	4.07
MAX VEL	5.15	1.84	1.41
DEPTH	0.98	0.96	0.34
TIME	4.02	4.12	4.07
ST. DEPTH	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00
TIME	0.00	0.00	0.00

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MAXIMUM WATER SURFACE VALUES FOR CHANNEL

NODE	553	552	551	595	594	593	592	591	635	634
ELEVATION	1388.00	1387.91	1387.45	1385.85	1385.73	1385.34	1384.66	1384.34	1384.19	1383.91
MAX DEPTH	2.90	4.91	6.25	4.85	4.93	4.74	4.18	4.04	4.78	5.21
TIME	4.25	4.25	4.26	4.28	4.27	4.28	4.29	4.29	4.30	4.31
MAX VEL	10.77	8.79	7.82	6.08	4.72	5.05	5.19	3.09	3.43	3.81
TIME	4.25	4.25	4.26	4.07	4.17	4.20	4.14	4.18	4.05	4.06

NODE	633	677	721	765	764	763	762	806	850	849
ELEVATION	1383.57	1382.69	1381.13	1380.23	1379.99	1379.72	1379.16	1378.58	1378.18	1377.70
MAX DEPTH	4.88	3.99	3.63	4.27	4.81	4.72	4.42	4.13	4.38	4.70

TIME	4.31	4.36	4.31	4.35	4.33	4.37	4.38	4.38	4.40	4.43
MAX VEL	4.65	5.13	4.93	4.81	3.04	3.78	4.21	3.95	4.40	3.79
TIME	4.07	4.36	4.31	4.30	4.33	4.29	4.25	4.11	4.05	4.09
NODE	893	892	936	935	934	933	977	976	975	974
ELEVATION	1377.44	1376.36	1375.57	1375.08	1374.77	1374.15	1373.75	1373.57	1373.49	1373.29
MAX DEPTH	4.44	3.80	4.02	4.68	4.77	4.55	4.50	4.57	4.87	4.99
TIME	4.41	4.41	4.41	4.41	4.43	4.45	4.49	4.49	4.49	4.48
MAX VEL	4.79	4.60	4.19	3.72	4.59	4.92	5.30	2.89	4.18	4.63
TIME	4.41	4.41	4.39	4.37	4.25	4.18	4.17	4.20	4.18	4.17
NODE	973	1017	1016	1015	1059	1103	1147	1146	1190	1189
ELEVATION	1373.10	1370.60	1370.35	1369.79	1369.26	1368.59	1367.19	1366.67	1366.56	1366.38
MAX DEPTH	5.40	3.27	3.45	3.39	3.56	3.89	2.74	2.57	2.56	2.45
TIME	4.48	4.50	4.50	4.50	4.55	4.55	4.52	4.52	4.52	4.55
MAX VEL	7.47	4.43	4.17	3.56	3.51	5.31	5.96	2.27	2.29	2.97
TIME	4.48	4.44	4.35	4.50	4.42	4.30	5.07	4.30	4.86	4.53
NODE	1233	1249	1248	1264	1276					
ELEVATION	1366.23	1365.80	1365.27	1365.24	1364.77					
MAX DEPTH	2.45	3.10	3.27	3.93	3.93					
TIME	4.54	4.52	4.54	4.54	4.54					
MAX VEL	4.20	6.74	5.77	7.77	0.00					
TIME	4.00	4.03	4.11	4.54	0.00					

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MASS BALANCE INFLOW - OUTFLOW VOLUME

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*** INFLOW (ACRE-FEET) ***

	WATER
INFLOW HYDROGRAPH	67.50

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*** OUTFLOW (ACRE-FT) ***

OVERLAND FLOW	WATER
FLOODPLAIN STORAGE	6.21
STREET STORAGE	1.31
FLOODPLAIN OUTFLOW HYDROGRAPH (W/STREETS)	32.91
FLOODPLAIN OUTFLOW AND STORAGE	40.44

CHANNEL FLOW	
CHANNEL STORAGE	0.29
CHANNEL OUTFLOW	26.77
CHANNEL OUTFLOW AND STORAGE	27.06

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*** TOTALS ***

TOTAL OUTFLOW FROM GRID SYSTEM	59.68
TOTAL VOLUME OF OUTFLOW AND STORAGE	67.50

THE MAXIMUM INUNDATED AREA IS: 35.77 ACRES

THE MAXIMUM WETTED FLOODPLAIN AREA IS: 34.57 ACRES

THE MAXIMUM WETTED CHANNEL AREA IS: 1.20 ACRES

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COMPUTER RUN TIME IS : 224.58 SECS

COMMENTS:

THIS OUTPUT FILE WAS TERMINATED ON: 9/ 4/2003 AT: 10:34:52

THIS OUTPUT FILE WAS CREATED ON: 9/12/2003 AT: 9:50:59

THIS RUN WAS EXECUTED WITH MODEL VERSION 2001.06 CREATED MARCH, 2002

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INFLOW HYDROGRAPH AT NODE 1227

HOUR	CFS
0.00	0.
3.25	0.
3.33	1.
3.41	2.
3.58	3.
3.67	6.
3.75	7.
3.83	12.
3.92	19.
4.00	22.
4.08	16.
4.16	8.
4.25	4.
4.58	0.

INFLOW HYDROGRAPH AT NODE 1371

HOUR	CFS
0.00	0.
0.08	1.
0.17	2.
0.33	3.
0.75	3.
2.41	4.
2.50	5.
3.25	8.
3.33	11.
3.42	19.
3.50	27.
3.58	45.
3.67	73.
3.75	95.
3.83	154.
3.91	250.
4.00	320.
4.08	307.
4.17	227.
4.25	162.
4.33	112.
4.42	73.
4.50	48.
4.58	35.
4.67	25.
4.75	19.
4.83	15.
4.91	12.
5.25	7.
6.92	0.

INFLOW HYDROGRAPH AT NODE 1300

HOUR	CFS
0.00	0.
0.25	1.
2.50	2.
3.25	3.
3.33	3.
3.50	7.
3.58	12.
3.67	20.
3.75	27.
3.83	42.
3.91	67.
4.00	88.
4.08	88.
4.17	68.
4.25	49.
4.33	35.
4.42	23.
4.50	16.
4.58	8.
4.67	5.
4.75	4.
4.91	3.
6.33	0.

INFLOW HYDROGRAPH AT NODE 553

HOUR	CFS
0.00	0.
0.33	1.
0.75	3.

2.58	4.
2.75	5.
3.08	6.
3.17	7.
3.42	9.
3.50	11.
3.58	17.
3.67	30.
3.75	58.
3.83	125.
3.91	226.
4.00	377.
4.08	617.
4.17	864.
4.25	970.
4.33	868.
4.42	663.
4.50	492.
4.58	359.
4.67	256.
4.75	182.
4.83	130.
4.91	93.
5.00	67.
5.08	49.
5.17	35.
5.25	26.
5.33	19.
5.42	13.
5.50	9.
5.58	6.
6.83	0.

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MAXIMUM WATER SURFACE VALUES FOR FLOODPLAIN

NODE	31	32	33	34	35	36	37	38	39	40
ELEVATION	1374.73	1374.73	1375.11	1375.58	1376.14	1376.40	1376.86	1377.57	1378.42	1379.61
MAX DEPTH	0.00	0.00	0.02	0.10	0.10	0.29	0.33	0.37	0.01	0.00
VELOCITY	0.00	0.00	0.00	0.00	0.29	1.07	1.11	1.25	0.00	0.00
TIME	6.00	6.00	6.00	5.82	4.46	4.47	4.46	4.46	6.00	6.00
MAX VEL	0.00	0.00	0.00	0.37	0.37	1.08	1.50	1.64	0.00	0.00
DEPTH	0.00	0.00	0.00	0.10	0.10	0.29	0.21	0.37	0.00	0.00
TIME	0.00	0.00	0.00	5.92	5.92	4.44	4.61	4.46	0.00	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	41	42	43	44	45	46	47	48	49	50
ELEVATION	1378.81	1378.90	1378.96	1379.22	1379.63	1379.76	1379.95	1380.11	1380.20	1380.42
MAX DEPTH	0.12	1.21	1.08	0.61	0.51	1.24	0.53	1.14	0.93	0.52
VELOCITY	0.16	2.29	1.61	2.56	1.15	2.27	1.78	2.23	1.90	1.64
TIME	4.49	4.43	4.43	4.43	4.38	4.39	4.38	4.38	4.38	4.37
MAX VEL	0.16	2.64	4.38	3.58	2.31	2.67	2.63	2.53	3.28	2.74
DEPTH	0.12	0.80	0.72	0.50	0.50	0.85	0.51	0.79	0.53	0.51
TIME	4.50	4.24	4.22	4.31	4.40	4.19	4.32	4.16	4.15	4.33
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	51	52	53	54	55	56	57	58	59	60
ELEVATION	1380.89	1381.35	1381.34	1382.12	1382.97	1383.76	1384.68	1385.46	1368.14	1368.33
MAX DEPTH	0.10	0.00	0.28	0.28	0.34	0.20	0.10	0.00	0.00	0.00
VELOCITY	0.00	0.00	0.51	0.60	1.03	0.45	0.00	0.00	0.00	0.00
TIME	4.44	6.00	4.39	4.36	4.32	4.36	4.42	6.00	6.00	6.00
MAX VEL	0.22	0.00	0.52	1.49	1.58	1.49	0.30	0.00	0.00	0.00
DEPTH	0.10	0.00	0.28	0.25	0.33	0.20	0.10	0.00	0.00	0.00
TIME	4.50	0.00	4.39	4.36	4.33	4.35	4.54	0.00	0.00	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	61	62	63	64	65	66	67	68	69	70
ELEVATION	1368.51	1368.67	1369.07	1369.71	1370.36	1371.05	1371.26	1371.48	1371.82	1372.21
MAX DEPTH	0.00	0.02	0.10	0.15	0.34	0.37	0.45	0.34	0.52	0.85
VELOCITY	0.00	0.00	0.00	0.36	1.09	1.03	0.81	0.75	1.57	1.76
TIME	6.00	6.00	5.76	4.61	4.59	4.55	4.52	4.48	4.46	4.45
MAX VEL	0.00	0.00	0.28	0.43	1.25	1.58	1.50	1.50	1.50	4.02
DEPTH	0.00	0.00	0.10	0.14	0.27	0.32	0.41	0.28	0.28	0.76
TIME	0.00	0.00	6.00	4.63	4.61	4.58	4.75	4.75	4.84	4.45
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	71	72	73	74	75	76	77	78	79	80
ELEVATION	1372.55	1372.84	1373.06	1373.41	1373.78	1374.13	1374.42	1374.68	1374.90	1375.35
MAX DEPTH	0.82	0.84	0.89	0.88	0.84	0.83	1.03	1.03	0.97	0.81
VELOCITY	2.37	2.13	2.56	3.14	2.55	3.57	3.64	3.40	3.55	2.50
TIME	4.43	4.42	4.41	4.39	4.38	4.37	4.54	4.51	4.52	4.33
MAX VEL	5.44	5.39	5.44	5.77	5.49	5.40	5.40	5.80	5.78	6.01
DEPTH	0.78	0.83	0.88	0.87	0.78	0.78	0.90	0.89	0.87	0.75
TIME	4.43	4.42	4.41	4.40	4.39	4.37	4.36	4.35	4.34	4.33

ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	81	82	83	84	85	86	87	88	89	90
ELEVATION	1375.96	1376.62	1377.43	1378.08	1378.53	1378.75	1378.86	1378.96	1379.26	1379.60
MAX DEPTH	0.77	0.75	0.70	0.80	1.00	1.15	1.09	0.88	0.84	1.11
VELOCITY	1.92	2.42	2.55	4.87	4.53	3.17	2.36	1.98	3.39	3.47
TIME	4.32	4.31	4.30	4.45	4.44	4.44	4.43	4.43	4.43	4.39
MAX VEL	5.71	6.05	5.89	6.02	5.64	4.33	3.74	2.63	4.37	5.29
DEPTH	0.69	0.73	0.61	0.77	0.99	1.12	0.66	0.87	0.78	1.07
TIME	4.32	4.31	4.30	4.36	4.43	4.41	4.24	4.44	4.36	4.34
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	91	92	93	94	95	96	97	98	99	100
ELEVATION	1379.76	1379.94	1380.11	1380.22	1380.51	1380.82	1381.08	1381.27	1382.04	1383.55
MAX DEPTH	1.01	1.03	0.95	0.92	0.88	0.86	0.72	0.34	0.34	0.23
VELOCITY	2.71	3.20	2.60	2.23	3.35	3.64	2.56	0.81	1.00	1.19
TIME	4.39	4.38	4.38	4.38	4.38	4.38	4.39	4.39	4.35	4.31
MAX VEL	3.90	4.62	3.52	2.79	4.41	4.55	3.65	1.50	1.57	1.20
DEPTH	0.65	0.75	0.84	0.91	0.86	0.85	0.70	0.34	0.31	0.23
TIME	4.19	4.18	4.28	4.36	4.33	4.39	4.40	4.40	4.36	4.31
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	101	102	103	104	105	106	107	108	109	110
ELEVATION	1384.43	1385.28	1386.27	1367.36	1367.44	1368.13	1368.26	1368.29	1368.95	1370.49
MAX DEPTH	0.35	0.17	0.00	0.00	0.10	0.07	0.74	0.54	0.35	0.14
VELOCITY	1.03	0.42	0.00	0.00	0.00	0.00	0.74	0.50	1.07	0.45
TIME	4.29	4.30	6.00	6.00	5.03	4.99	4.84	4.84	4.62	4.59
MAX VEL	1.56	0.57	0.00	0.00	0.00	0.00	0.74	1.50	1.69	0.50
DEPTH	0.34	0.17	0.00	0.00	0.00	0.00	0.74	0.44	0.32	0.14
TIME	4.29	4.30	0.00	0.00	0.00	0.00	4.84	4.68	4.64	4.60
ST. DEPTH	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	2.19	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	5.63	0.00	0.00	0.00	0.00	0.00

NODE	111	112	113	114	115	116	117	118	119	120
ELEVATION	1371.40	1371.63	1371.27	1371.62	1372.14	1372.48	1372.67	1373.13	1373.49	1373.63
MAX DEPTH	0.00	0.00	0.52	0.65	0.24	0.35	0.21	0.16	0.20	0.25
VELOCITY	0.00	0.00	1.24	1.49	1.00	0.91	0.57	0.29	0.50	0.65
TIME	6.00	6.00	4.47	4.46	4.45	4.44	4.43	4.55	4.53	4.40
MAX VEL	0.00	0.00	1.61	3.03	1.50	1.50	1.50	0.57	1.29	1.50
DEPTH	0.00	0.00	0.51	0.53	0.20	0.28	0.20	0.16	0.20	0.25
TIME	0.00	0.00	4.48	4.47	4.58	4.52	4.52	4.55	4.52	4.40
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	121	122	123	124	125	126	127	128	129	130
ELEVATION	1373.73	1374.38	1374.68	1374.93	1375.37	1376.01	1376.73	1378.51	1379.07	1378.24
MAX DEPTH	0.23	0.20	0.55	0.48	0.39	0.47	0.24	0.00	0.00	0.65
VELOCITY	0.67	0.60	1.33	1.04	1.19	1.81	0.92	0.00	0.00	1.95
TIME	4.53	4.56	4.53	4.51	4.50	4.52	4.49	6.00	6.00	4.45
MAX VEL	1.50	1.50	1.71	1.50	1.50	1.86	1.50	0.00	0.00	1.95
DEPTH	0.22	0.20	0.55	0.36	0.38	0.46	0.21	0.00	0.00	0.65
TIME	4.58	4.59	4.52	4.38	4.53	4.49	4.56	0.00	0.00	4.44
ST. DEPTH	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	4.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	131	132	133	134	135	136	137	138	139	140
ELEVATION	1378.65	1378.81	1378.85	1379.80	1379.93	1380.19	1380.29	1380.43	1380.93	1381.04
MAX DEPTH	1.23	1.01	0.99	0.50	0.03	0.10	0.20	0.11	0.02	0.34
VELOCITY	1.78	1.69	0.38	1.35	0.00	0.14	0.49	0.21	0.00	1.05
TIME	4.44	4.42	4.42	4.48	4.94	4.53	4.45	4.50	6.00	4.36
MAX VEL	2.38	1.70	1.50	2.07	0.00	0.33	1.49	0.32	0.00	1.55
DEPTH	1.22	1.01	0.94	0.41	0.00	0.10	0.20	0.11	0.00	0.34
TIME	4.42	4.42	4.47	4.66	0.00	4.94	4.44	4.50	0.00	4.35
ST. DEPTH	0.00	0.00	0.00	1.58	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	5.66	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	4.48	0.00	0.00	0.00	0.00	0.00	0.00

NODE	141	142	143	144	145	146	147	148	149	150
ELEVATION	1381.75	1382.25	1382.74	1383.85	1384.55	1385.20	1385.92	1386.86	1367.06	1366.88
MAX DEPTH	0.79	0.00	0.00	0.00	0.10	0.20	0.35	0.00	0.27	0.30
VELOCITY	3.24	0.00	0.00	0.00	0.00	0.42	0.53	0.00	0.00	0.13
TIME	4.34	6.00	6.00	4.57	4.38	4.28	4.25	6.00	4.81	4.81
MAX VEL	4.46	0.00	0.00	0.00	0.42	0.70	1.80	0.00	0.00	0.18
DEPTH	0.75	0.00	0.00	0.00	0.10	0.20	0.32	0.00	0.00	0.28
TIME	4.34	0.00	0.00	0.00	4.55	4.29	4.27	0.00	0.00	4.86
ST. DEPTH	2.03	0.00	0.00	0.00	0.00	0.00	0.85	0.00	0.00	0.58
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.82
TIME	4.33	0.00	0.00	0.00	0.00	0.00	4.26	0.00	0.00	4.79

NODE	151	152	153	154	155	156	157	158	159	160
ELEVATION	1367.89	1369.58	1369.48	1368.78	1370.75	1371.80	1371.31	1371.14	1371.16	1371.66
MAX DEPTH	0.19	0.00	0.00	0.17	0.00	0.00	0.00	0.67	0.62	0.19
VELOCITY	0.47	0.00	0.00	0.29	0.00	0.00	0.00	1.72	1.32	0.33
TIME	4.82	6.00	6.00	4.71	6.00	6.00	6.00	4.60	4.60	4.62
MAX VEL	0.47	0.00	0.00	0.58	0.00	0.00	0.00	1.74	1.49	0.65
DEPTH	0.19	0.00	0.00	0.17	0.00	0.00	0.00	0.66	0.49	0.19

TIME	4.85	0.00	0.00	4.72	0.00	0.00	0.00	4.57	4.80	4.63
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	161	162	163	164	165	166	167	168	169	170
ELEVATION	1371.91	1372.67	1372.92	1373.30	1373.18	1373.38	1374.57	1374.74	1374.85	1375.11
MAX DEPTH	0.37	0.51	0.13	0.10	0.59	0.23	0.00	1.00	0.43	0.00
VELOCITY	0.66	1.01	0.27	0.16	0.58	0.64	0.00	0.98	0.81	0.00
TIME	4.60	4.64	4.65	4.55	4.59	4.54	6.00	4.56	4.54	6.00
MAX VEL	0.66	1.50	0.39	0.29	0.66	1.49	0.00	1.50	1.50	0.00
DEPTH	0.37	0.24	0.13	0.10	0.55	0.23	0.00	0.81	0.31	0.00
TIME	4.60	5.00	4.66	5.35	4.53	4.54	0.00	4.71	4.40	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	1.36	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	4.58	0.00	0.00	0.00	0.00

NODE	171	172	173	174	175	176	177	178	179	180
ELEVATION	1376.14	1376.74	1376.82	1377.18	1377.39	1378.30	1377.67	1378.82	1380.01	1379.97
MAX DEPTH	0.78	0.10	0.60	0.79	1.06	1.01	0.00	0.72	1.11	0.21
VELOCITY	1.05	0.16	1.16	1.70	1.29	1.81	0.00	0.23	1.09	0.35
TIME	4.55	4.57	4.47	4.46	4.45	4.45	6.00	4.45	4.48	4.51
MAX VEL	1.50	0.24	1.49	2.00	1.75	1.86	0.00	1.50	1.50	1.50
DEPTH	0.75	0.10	0.58	0.79	1.05	0.92	0.00	0.39	0.90	0.20
TIME	4.53	4.60	4.52	4.46	4.45	4.37	0.00	4.63	4.75	4.52
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.55	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.44	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.48	0.00

NODE	181	182	183	184	185	186	187	188	189	190
ELEVATION	1380.27	1380.50	1380.71	1381.12	1381.89	1383.16	1383.62	1383.59	1383.65	1384.09
MAX DEPTH	0.00	0.15	0.50	0.00	0.20	0.00	0.00	0.00	0.00	0.11
VELOCITY	0.00	0.18	0.87	0.00	0.90	0.00	0.00	0.00	0.00	0.00
TIME	6.00	4.50	4.43	6.00	4.34	6.00	6.00	6.00	6.00	4.59
MAX VEL	0.00	0.42	1.50	0.00	1.46	0.00	0.00	0.00	0.00	0.00
DEPTH	0.00	0.14	0.43	0.00	0.20	0.00	0.00	0.00	0.00	0.00
TIME	0.00	4.48	4.48	0.00	4.34	0.00	0.00	0.00	0.00	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	1.14	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	4.72	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	4.33	0.00	0.00	0.00	0.00

NODE	191	192	193	194	195	196	197	198	199	200
ELEVATION	1386.08	1386.11	1387.82	1366.96	1366.88	1366.95	1368.33	1368.31	1370.40	1371.75
MAX DEPTH	0.00	0.00	0.00	0.56	0.68	0.16	0.00	0.19	0.00	0.00
VELOCITY	0.00	0.00	0.00	0.00	0.04	0.16	0.00	0.12	0.00	0.00
TIME	6.00	6.00	6.00	4.81	4.78	4.89	6.00	5.07	6.00	6.00
MAX VEL	0.00	0.00	0.00	0.00	1.03	0.35	0.00	0.12	0.00	0.00
DEPTH	0.00	0.00	0.00	0.00	0.61	0.16	0.00	0.19	0.00	0.00
TIME	0.00	0.00	0.00	0.00	4.72	4.90	0.00	5.06	0.00	0.00
ST. DEPTH	0.00	0.35	0.00	0.00	0.98	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	2.76	0.00	0.00	3.33	0.00	0.00	0.00	0.00	0.00
TIME	0.00	4.27	0.00	0.00	4.81	0.00	0.00	0.00	0.00	0.00

NODE	201	202	203	204	205	206	207	208	209	210
ELEVATION	1371.88	1370.98	1371.00	1371.05	1371.58	1371.83	1372.58	1372.85	1373.07	1373.11
MAX DEPTH	0.00	0.11	0.67	0.66	0.31	0.51	0.46	0.88	0.80	0.74
VELOCITY	0.00	0.14	2.03	1.27	1.27	1.06	1.78	1.16	1.46	0.84
TIME	6.00	4.64	4.60	4.62	4.65	4.62	4.61	4.60	4.60	4.60
MAX VEL	0.00	0.16	2.10	1.50	1.58	1.50	2.10	1.53	1.71	1.50
DEPTH	0.00	0.10	0.65	0.59	0.26	0.50	0.46	0.87	0.79	0.60
TIME	0.00	4.76	4.52	4.51	4.46	4.58	4.65	4.60	4.59	4.73
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	211	212	213	214	215	216	217	218	219	220
ELEVATION	1373.22	1373.28	1374.76	1375.16	1376.33	1376.16	1376.35	1376.48	1375.98	1376.21
MAX DEPTH	0.34	0.05	0.85	0.00	0.00	0.72	0.28	1.06	0.00	0.00
VELOCITY	0.76	0.00	0.19	0.00	0.00	0.30	0.71	1.03	0.00	0.00
TIME	4.58	4.76	4.55	6.00	6.00	4.56	4.52	4.50	6.00	6.00
MAX VEL	1.50	0.00	0.52	0.00	0.00	1.11	1.50	1.51	0.00	0.00
DEPTH	0.21	0.00	0.75	0.00	0.00	0.56	0.27	0.78	0.00	0.00
TIME	4.40	0.00	4.64	0.00	0.00	4.72	4.49	4.34	0.00	0.00
ST. DEPTH	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	2.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	4.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	221	222	223	224	225	226	227	228	229	230
ELEVATION	1377.90	1377.84	1377.81	1380.09	1380.01	1380.61	1380.54	1381.21	1381.29	1381.61
MAX DEPTH	1.06	0.27	0.32	0.99	0.08	0.00	0.00	0.78	0.00	0.00
VELOCITY	0.92	0.20	0.07	0.52	0.00	0.00	0.00	1.49	0.00	0.00
TIME	4.49	4.51	4.52	4.51	6.00	6.00	6.00	4.40	4.42	6.00
MAX VEL	1.60	0.40	0.10	1.50	0.00	0.00	0.00	2.27	0.00	0.00
DEPTH	0.67	0.25	0.20	0.89	0.00	0.00	0.00	0.77	0.00	0.00
TIME	4.31	4.45	4.67	4.56	0.00	0.00	0.00	4.39	0.00	0.00
ST. DEPTH	0.00	0.00	0.00	1.47	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	7.05	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	4.49	0.00	0.00	0.00	0.00	0.00	0.00

NODE	231	232	233	234	235	236	237	238	239	240
ELEVATION	1382.80	1383.95	1384.48	1385.13	1386.16	1386.93	1386.84	1388.41	1366.99	1366.89
MAX DEPTH	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.64	0.72
VELOCITY	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
TIME	4.31	6.00	6.00	6.00	6.00	6.00	6.00	6.00	4.81	4.81
MAX VEL	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.43

DEPTH	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29
TIME	4.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.63
ST. DEPTH	0.90	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	1.02
MAX STVEL	5.67	0.00	0.00	0.00	0.00	0.00	2.82	0.00	0.00	3.49
TIME	4.33	0.00	0.00	0.00	0.00	0.00	4.19	0.00	0.00	4.79

NODE	241	242	243	244	245	246	247	248	249	250
ELEVATION	1367.46	1368.19	1368.87	1370.16	1370.59	1370.91	1370.77	1370.79	1370.96	1371.34
MAX DEPTH	0.04	0.10	0.00	0.00	0.00	0.01	0.43	0.81	0.61	0.51
VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	1.03	2.42	1.54	1.52
TIME	5.94	5.21	6.00	6.00	6.00	6.00	4.63	4.62	4.63	4.64
MAX VEL	0.00	0.29	0.00	0.00	0.00	0.00	1.03	2.42	1.70	1.72
DEPTH	0.00	0.10	0.00	0.00	0.00	0.00	0.43	0.80	0.60	0.46
TIME	0.00	5.24	0.00	0.00	0.00	0.00	4.63	4.60	4.62	4.46
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	251	252	253	254	255	256	257	258	259	260
ELEVATION	1371.81	1372.47	1372.81	1373.05	1373.11	1373.20	1373.48	1374.27	1375.60	1376.75
MAX DEPTH	0.58	0.55	1.34	1.14	1.04	0.47	0.00	0.00	0.00	0.00
VELOCITY	1.28	1.52	1.50	1.55	0.80	0.78	0.00	0.00	0.00	0.00
TIME	4.64	4.61	4.59	4.60	4.60	4.57	6.00	6.00	6.00	6.00
MAX VEL	1.90	2.07	1.97	1.55	1.50	1.50	0.00	0.00	0.00	0.00
DEPTH	0.57	0.54	1.33	1.14	0.66	0.31	0.00	0.00	0.00	0.00
TIME	4.65	4.65	4.62	4.60	4.89	4.77	0.00	0.00	0.00	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	3.35	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	4.59	0.00	0.00	0.00	0.00

NODE	261	262	263	264	265	266	267	268	269	270
ELEVATION	1376.34	1376.55	1376.37	1376.37	1376.36	1377.81	1377.81	1377.81	1380.15	1380.31
MAX DEPTH	0.00	0.00	1.14	0.81	0.32	1.46	0.89	0.64	0.95	0.00
VELOCITY	0.00	0.00	0.59	0.45	0.13	0.72	0.55	0.41	0.50	0.00
TIME	6.00	6.00	4.54	4.53	4.54	4.51	4.51	4.52	4.48	6.00
MAX VEL	0.00	0.00	1.12	0.74	0.35	1.09	1.43	1.28	1.49	0.00
DEPTH	0.00	0.00	1.06	0.50	0.14	1.04	0.86	0.60	0.89	0.00
TIME	0.00	0.00	4.69	4.37	4.88	4.35	4.45	4.46	4.52	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.37	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.46	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.48	0.00

NODE	271	272	273	274	275	276	277	278	279	280
ELEVATION	1380.36	1380.70	1381.30	1381.21	1383.13	1383.02	1383.86	1384.21	1385.06	1386.02
MAX DEPTH	0.00	0.00	0.52	0.13	1.12	0.50	0.03	0.06	0.01	0.00
VELOCITY	0.00	0.00	0.80	0.08	1.30	0.86	0.00	0.00	0.00	0.00
TIME	6.00	6.00	4.41	4.49	4.34	4.33	6.00	4.80	4.80	6.00
MAX VEL	0.00	0.00	1.63	0.39	1.50	1.50	0.00	0.00	0.00	0.00
DEPTH	0.00	0.00	0.50	0.13	0.93	0.49	0.00	0.00	0.00	0.00
TIME	0.00	0.00	4.34	4.52	4.46	4.32	0.00	0.00	0.00	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	5.12	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	4.33	0.00	0.00	0.00	0.00

NODE	281	282	283	284	285	286	287	288	289	290
ELEVATION	1386.61	1386.89	1388.72	1366.89	1366.89	1367.87	1369.45	1369.98	1369.89	1369.84
MAX DEPTH	0.01	0.00	0.00	0.47	0.69	0.02	0.00	0.00	0.00	0.48
VELOCITY	0.00	0.00	0.00	0.19	0.16	0.00	0.00	0.00	0.00	0.37
TIME	6.00	6.00	6.00	4.78	4.79	6.00	6.00	6.00	6.00	4.66
MAX VEL	0.00	0.00	0.00	1.41	1.33	0.00	0.00	0.00	0.00	0.39
DEPTH	0.00	0.00	0.00	0.38	0.39	0.00	0.00	0.00	0.00	0.48
TIME	0.00	0.00	0.00	4.70	4.65	0.00	0.00	0.00	0.00	4.68
ST. DEPTH	0.00	0.29	0.00	0.00	0.98	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	1.85	0.00	0.00	3.33	0.00	0.00	0.00	0.00	0.00
TIME	0.00	4.27	0.00	0.00	4.81	0.00	0.00	0.00	0.00	0.00

NODE	291	292	293	294	295	296	297	298	299	300
ELEVATION	1370.42	1370.50	1370.60	1370.89	1371.37	1371.70	1371.63	1372.99	1373.03	1373.16
MAX DEPTH	0.15	0.65	0.68	0.34	0.31	0.32	0.01	1.24	1.00	0.72
VELOCITY	0.30	1.71	2.05	1.03	1.27	0.76	0.00	1.47	0.54	1.23
TIME	4.65	4.50	4.49	4.65	4.45	4.65	6.00	4.61	4.59	4.60
MAX VEL	0.49	2.69	3.44	1.50	1.50	1.50	0.00	1.99	1.50	1.50
DEPTH	0.15	0.62	0.67	0.33	0.25	0.32	0.00	1.23	0.95	0.38
TIME	4.65	4.50	4.49	4.59	4.74	4.69	0.00	4.61	4.57	4.92
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	301	302	303	304	305	306	307	308	309	310
ELEVATION	1373.24	1374.06	1374.26	1374.06	1375.77	1375.78	1376.22	1376.34	1376.36	1376.37
MAX DEPTH	0.72	0.00	0.00	0.00	1.30	1.22	0.33	0.93	0.71	0.37
VELOCITY	1.01	0.00	0.00	0.00	0.44	0.58	0.89	0.74	0.54	0.27
TIME	4.60	6.00	6.00	6.00	4.57	4.57	4.55	4.55	4.53	4.55
MAX VEL	1.50	0.00	0.00	0.00	0.58	1.49	1.59	1.50	1.37	1.50
DEPTH	0.70	0.00	0.00	0.00	1.23	0.58	0.23	0.74	0.66	0.28
TIME	4.59	0.00	0.00	0.00	4.68	4.46	4.46	4.84	4.49	4.70
ST. DEPTH	1.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	4.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	311	312	313	314	315	316	317	318	319	320
ELEVATION	1377.75	1377.75	1377.98	1380.18	1380.18	1380.42	1380.46	1381.74	1381.62	1383.20
MAX DEPTH	1.05	0.61	0.25	0.88	0.86	0.92	0.99	1.28	0.04	1.24
VELOCITY	1.23	0.83	0.61	2.79	0.46	1.84	0.99	3.48	0.00	1.13
TIME	4.51	4.51	4.37	4.48	4.51	4.48	4.47	4.35	6.00	4.33

MAX VEL	1.24	1.50	1.50	4.07	1.49	2.05	1.55	4.97	0.00	1.80
DEPTH	1.05	0.36	0.23	0.85	0.73	0.91	0.72	1.27	0.00	0.77
TIME	4.51	4.39	4.50	4.52	4.63	4.48	4.35	4.33	0.00	4.23
ST. DEPTH	0.00	0.00	0.00	1.28	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	5.75	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	4.50	0.00	0.00	0.00	0.00	0.00	0.00

NODE	321	322	323	324	325	326	327	328	329	330
ELEVATION	1383.15	1383.74	1384.32	1384.74	1386.11	1386.47	1386.87	1388.44	1366.90	1366.90
MAX DEPTH	0.36	0.03	0.17	0.11	0.10	0.19	0.11	0.00	0.51	0.57
VELOCITY	0.69	0.00	0.22	0.23	0.00	0.22	0.20	0.00	0.16	0.22
TIME	4.33	6.00	4.38	4.34	4.49	4.37	4.28	6.00	4.78	4.78
MAX VEL	1.50	0.00	0.26	0.34	0.35	0.41	0.28	0.00	1.50	1.50
DEPTH	0.28	0.00	0.17	0.11	0.10	0.17	0.10	0.00	0.25	0.41
TIME	4.40	0.00	4.38	4.34	4.59	4.47	4.29	0.00	5.04	4.67
ST. DEPTH	0.97	0.00	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.84
MAX STVEL	4.45	0.00	0.00	0.00	0.00	0.00	1.13	0.00	0.00	2.66
TIME	4.33	0.00	0.00	0.00	0.00	0.00	4.27	0.00	0.00	4.79

NODE	331	332	333	334	335	336	337	338	339	340
ELEVATION	1368.23	1369.29	1369.88	1369.76	1369.79	1369.86	1370.10	1370.25	1370.88	1371.28
MAX DEPTH	0.00	0.00	0.00	0.16	0.73	0.75	0.76	0.57	0.21	0.24
VELOCITY	0.00	0.00	0.00	0.11	1.01	1.69	3.21	1.92	0.90	0.67
TIME	6.00	6.00	6.00	4.70	4.65	4.67	4.51	4.51	4.65	4.55
MAX VEL	0.00	0.00	0.00	0.12	1.42	2.80	4.71	3.01	1.50	1.50
DEPTH	0.00	0.00	0.00	0.15	0.56	0.62	0.76	0.50	0.20	0.21
TIME	0.00	0.00	0.00	4.73	4.54	4.53	4.51	4.53	4.71	4.59
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	341	342	343	344	345	346	347	348	349	350
ELEVATION	1371.57	1371.76	1372.97	1372.99	1373.25	1373.30	1374.46	1374.67	1373.95	1375.73
MAX DEPTH	0.13	0.00	1.32	0.90	0.58	0.80	0.00	0.00	0.00	1.04
VELOCITY	0.16	0.00	0.45	0.67	1.33	1.39	0.00	0.00	0.00	1.35
TIME	4.66	6.00	4.59	4.59	4.61	4.59	6.00	6.00	6.00	4.59
MAX VEL	0.39	0.00	0.76	1.49	1.55	1.50	0.00	0.00	0.00	1.50
DEPTH	0.13	0.00	1.31	0.36	0.58	0.52	0.00	0.00	0.00	0.40
TIME	4.70	0.00	4.61	4.37	4.61	4.37	0.00	0.00	0.00	4.46
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	1.28	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	4.78	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.00	0.00	0.00

NODE	351	352	353	354	355	356	357	358	359	360
ELEVATION	1375.79	1376.11	1376.28	1376.33	1376.40	1377.52	1377.62	1377.64	1380.22	1380.21
MAX DEPTH	0.66	0.42	0.77	0.71	0.48	0.76	0.43	0.26	0.87	1.38
VELOCITY	0.71	1.10	0.98	0.89	0.87	2.88	0.75	0.36	0.16	0.40
TIME	4.56	4.56	4.54	4.54	4.55	4.52	4.53	4.53	4.49	4.52
MAX VEL	1.50	1.64	1.50	1.50	1.50	3.20	1.50	1.50	1.49	1.50
DEPTH	0.28	0.31	0.75	0.42	0.41	0.75	0.40	0.25	0.34	1.02
TIME	4.45	4.45	4.59	5.09	4.47	4.53	4.47	4.58	5.01	4.36
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.25	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.39	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.49	0.00

NODE	361	362	363	364	365	366	367	368	369	370
ELEVATION	1380.45	1380.45	1382.27	1382.36	1383.28	1383.29	1383.56	1384.33	1384.76	1386.29
MAX DEPTH	1.24	1.02	0.98	0.68	1.29	0.69	0.55	0.47	0.24	0.32
VELOCITY	1.67	0.77	3.68	1.28	3.04	1.42	1.10	1.79	0.92	1.27
TIME	4.48	4.49	4.34	4.33	4.34	4.32	4.31	4.31	4.30	4.28
MAX VEL	2.56	1.53	5.38	1.50	3.93	1.50	1.55	2.04	1.50	1.69
DEPTH	1.07	0.52	0.92	0.59	1.27	0.50	0.55	0.42	0.21	0.20
TIME	4.37	4.27	4.41	4.43	4.34	4.25	4.32	4.34	4.29	4.32
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	4.26	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	4.32	0.00	0.00	0.00	0.00

NODE	371	372	373	374	375	376	377	378	379	380
ELEVATION	1386.78	1386.94	1388.39	1366.91	1366.92	1368.27	1369.09	1369.20	1369.73	1369.75
MAX DEPTH	0.01	0.24	0.00	0.49	0.67	0.20	0.00	0.00	0.59	1.06
VELOCITY	0.00	0.25	0.00	0.06	0.43	0.57	0.00	0.00	1.28	1.93
TIME	4.32	4.26	6.00	4.77	4.78	4.67	6.00	6.00	4.68	4.66
MAX VEL	0.00	0.52	0.00	1.44	1.50	0.68	0.00	0.00	1.29	2.46
DEPTH	0.00	0.20	0.00	0.31	0.49	0.19	0.00	0.00	0.58	0.81
TIME	0.00	4.30	0.00	4.66	4.63	4.66	0.00	0.00	4.68	4.54
ST. DEPTH	0.00	0.53	0.00	0.00	0.89	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	1.15	0.00	0.00	2.13	0.00	0.00	0.00	0.00	0.00
TIME	0.00	4.26	0.00	0.00	4.76	0.00	0.00	0.00	0.00	0.00

NODE	381	382	383	384	385	386	387	388	389	390
ELEVATION	1369.81	1369.90	1370.02	1370.94	1371.26	1371.61	1371.80	1372.93	1372.94	1373.31
MAX DEPTH	0.81	0.74	0.48	0.15	0.23	0.23	0.11	1.12	0.72	0.74
VELOCITY	1.71	1.90	0.87	0.39	0.53	1.47	0.15	1.44	0.83	1.32
TIME	4.67	4.67	4.67	4.71	4.65	4.56	4.69	4.60	4.61	4.59
MAX VEL	4.65	2.92	1.50	0.51	1.50	1.50	0.32	1.49	0.89	1.63
DEPTH	0.71	0.65	0.46	0.15	0.23	0.22	0.11	0.40	0.20	0.72
TIME	4.52	4.52	4.68	4.69	4.63	4.57	4.64	4.35	5.09	4.57
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	391	392	393	394	395	396	397	398	399	400
ELEVATION	1373.39	1373.63	1375.37	1375.43	1375.65	1375.82	1376.05	1376.17	1376.31	1376.60
MAX DEPTH	0.90	0.25	1.64	1.52	0.73	0.47	0.39	0.51	0.50	0.49
VELOCITY	0.87	0.72	3.55	0.86	1.40	1.06	1.04	1.45	1.01	1.09

TIME	4.59	4.61	4.60	4.59	4.57	4.56	4.55	4.55	4.55	4.53
MAX VEL	1.50	1.50	5.28	1.50	1.87	1.50	1.50	1.50	1.50	1.50
DEPTH	0.76	0.21	1.63	0.43	0.31	0.45	0.26	0.46	0.42	0.48
TIME	4.71	4.73	4.59	4.39	4.37	4.54	4.80	4.72	4.46	4.50
ST. DEPTH	1.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	5.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	4.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	401	402	403	404	405	406	407	408	409	410
ELEVATION	1377.25	1377.50	1377.56	1380.24	1380.23	1380.44	1380.45	1382.38	1382.34	1383.33
MAX DEPTH	0.34	0.29	0.13	1.04	1.46	0.97	0.85	0.65	0.51	1.25
VELOCITY	1.09	0.76	0.11	0.30	0.14	1.33	0.26	4.09	0.64	2.56
TIME	4.53	4.53	4.63	4.47	4.48	4.49	4.48	4.33	4.34	4.32
MAX VEL	1.52	1.50	0.39	1.50	1.50	2.21	1.49	4.27	1.50	3.42
DEPTH	0.33	0.22	0.12	0.29	0.34	0.58	0.31	0.65	0.23	1.22
TIME	4.55	4.69	4.62	4.31	4.30	4.32	4.30	4.34	4.57	4.37
ST. DEPTH	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	5.50	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	4.49	0.00	0.00	0.00	0.00	0.00	0.00

NODE	411	412	413	414	415	416	417	418	419	420
ELEVATION	1383.38	1383.55	1384.47	1385.86	1386.84	1386.94	1386.99	1387.68	1366.91	1366.93
MAX DEPTH	0.58	0.14	0.62	0.10	0.20	0.31	0.50	0.00	0.45	0.67
VELOCITY	0.99	0.18	1.57	0.00	0.87	1.07	0.54	0.00	0.18	0.50
TIME	4.32	4.33	4.30	4.34	4.27	4.26	4.27	6.00	4.77	4.81
MAX VEL	1.50	0.46	2.34	0.42	1.28	1.50	1.49	0.00	1.33	1.49
DEPTH	0.40	0.14	0.62	0.10	0.20	0.26	0.48	0.00	0.27	0.45
TIME	4.43	4.33	4.31	4.77	4.27	4.28	4.25	0.00	4.66	4.60
ST. DEPTH	0.87	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.86
MAX STVEL	4.25	0.00	0.00	0.00	0.00	0.00	4.96	0.00	0.00	1.85
TIME	4.32	0.00	0.00	0.00	0.00	0.00	4.22	0.00	0.00	4.79

NODE	421	422	423	424	425	426	427	428	429	430
ELEVATION	1368.01	1368.91	1369.30	1369.59	1369.70	1369.79	1370.07	1370.66	1371.02	1371.29
MAX DEPTH	0.62	0.82	0.93	1.00	1.06	0.59	0.07	0.10	0.12	0.18
VELOCITY	1.96	2.85	3.93	3.56	2.25	1.54	0.00	0.16	0.18	0.21
TIME	4.57	4.56	4.68	4.67	4.67	4.66	5.95	4.76	4.72	4.68
MAX VEL	5.38	6.32	5.57	5.06	3.81	1.84	0.00	0.30	0.35	0.56
DEPTH	0.48	0.79	0.90	0.81	0.78	0.58	0.00	0.10	0.11	0.18
TIME	4.81	4.56	4.60	4.55	4.54	4.67	0.00	5.76	4.74	4.72
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	431	432	433	434	435	436	437	438	439	440
ELEVATION	1371.66	1372.11	1372.75	1372.96	1373.33	1373.43	1374.05	1375.31	1375.33	1375.65
MAX DEPTH	0.21	0.33	0.86	0.89	0.94	0.78	0.50	1.30	1.71	0.55
VELOCITY	0.31	0.37	3.05	1.29	1.81	1.07	1.67	2.93	1.23	1.17
TIME	4.55	4.50	4.62	4.63	4.61	4.59	4.59	4.59	4.60	4.57
MAX VEL	1.50	1.50	3.11	1.75	2.44	1.50	2.03	3.99	1.50	1.96
DEPTH	0.20	0.26	0.85	0.88	0.93	0.44	0.45	1.30	0.89	0.29
TIME	4.65	4.63	4.64	4.59	4.61	4.36	4.69	4.59	4.43	4.37
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	4.91	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	4.59	0.00	0.00	0.00	0.00

NODE	441	442	443	444	445	446	447	448	449	450
ELEVATION	1375.83	1375.95	1376.12	1376.32	1376.73	1377.28	1377.83	1378.10	1380.25	1380.27
MAX DEPTH	0.51	0.60	0.38	0.21	0.20	0.10	0.00	0.00	0.95	1.02
VELOCITY	1.12	1.40	0.80	0.60	0.31	0.00	0.00	0.00	0.09	0.30
TIME	4.56	4.53	4.52	4.54	4.60	4.60	6.00	6.00	4.46	4.49
MAX VEL	1.64	2.27	1.50	1.50	0.70	0.29	0.00	0.00	1.50	1.50
DEPTH	0.50	0.58	0.25	0.20	0.20	0.10	0.00	0.00	0.25	0.78
TIME	4.53	4.47	4.41	4.60	4.60	4.62	0.00	0.00	4.31	4.38
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.32	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.53	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.49	0.00

NODE	451	452	453	454	455	456	457	458	459	460
ELEVATION	1379.86	1382.84	1383.36	1382.49	1383.42	1383.57	1384.09	1384.96	1385.44	1385.37
MAX DEPTH	0.00	2.90	1.35	0.00	0.42	0.57	0.17	0.54	0.49	0.00
VELOCITY	0.00	0.00	3.58	0.00	0.97	1.08	0.32	1.30	1.75	0.00
TIME	6.00	4.40	4.36	6.00	4.33	4.32	4.31	4.30	4.27	6.00
MAX VEL	0.00	0.19	4.15	0.00	1.50	1.54	0.59	1.92	1.94	0.00
DEPTH	0.00	2.20	1.34	0.00	0.32	0.34	0.17	0.52	0.44	0.00
TIME	0.00	4.73	4.36	0.00	4.43	4.18	4.30	4.32	4.33	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	4.39	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	4.32	0.00	0.00	0.00	0.00

NODE	461	462	463	464	465	466	467	468	469	470
ELEVATION	1387.03	1387.01	1387.12	1366.89	1366.91	1367.87	1368.81	1369.32	1369.53	1369.71
MAX DEPTH	1.40	1.76	0.21	0.51	0.77	0.48	0.41	0.52	0.53	0.41
VELOCITY	2.34	0.56	0.72	0.69	0.99	1.86	1.53	1.96	1.75	0.82
TIME	4.26	4.25	4.28	4.77	4.77	4.58	4.67	4.65	4.60	4.68
MAX VEL	2.34	1.48	1.49	1.01	1.09	2.59	2.25	3.49	2.74	1.50
DEPTH	1.39	1.66	0.20	0.30	0.74	0.48	0.40	0.50	0.53	0.39
TIME	4.26	4.31	4.29	4.65	4.71	4.58	4.67	4.65	4.66	4.69
ST. DEPTH	0.00	2.06	0.00	0.00	0.96	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	10.87	0.00	0.00	2.77	0.00	0.00	0.00	0.00	0.00
TIME	0.00	4.21	0.00	0.00	4.78	0.00	0.00	0.00	0.00	0.00

NODE	471	472	473	474	475	476	477	478	479	480
ELEVATION	1370.61	1370.83	1370.88	1370.98	1371.13	1371.41	1371.49	1372.56	1372.72	1373.33
MAX DEPTH	0.50	0.63	0.38	0.28	0.23	4.91	4.99	0.29	0.20	0.26

VELOCITY	2.37	1.04	0.37	0.42	0.60	1.55	0.50	1.32	0.49	0.83
TIME	4.65	4.61	4.62	4.64	4.63	4.61	4.61	4.64	4.61	4.62
MAX VEL	2.84	3.10	1.49	1.50	1.46	1.57	1.37	1.99	1.37	1.50
DEPTH	0.50	0.61	0.35	0.25	0.21	4.86	4.85	0.28	0.20	0.26
TIME	4.66	4.62	4.64	4.59	4.60	4.62	4.57	4.64	4.61	4.61
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	481	482	483	484	485	486	487	488	489	490
ELEVATION	1373.54	1374.23	1375.00	1375.19	1375.64	1375.84	1375.98	1376.30	1376.59	1376.88
MAX DEPTH	0.94	0.20	0.69	0.91	0.30	0.32	0.40	0.28	0.20	0.10
VELOCITY	1.23	0.59	1.62	1.40	1.12	0.87	1.04	1.01	0.65	0.20
TIME	4.59	4.61	4.58	4.58	4.57	4.53	4.30	4.31	4.37	4.39
MAX VEL	1.53	1.50	2.42	1.60	1.50	1.50	1.50	1.50	1.49	0.29
DEPTH	0.91	0.20	0.68	0.91	0.20	0.31	0.35	0.25	0.20	0.10
TIME	4.56	4.73	4.57	4.58	4.46	4.51	4.60	4.47	4.44	4.42
ST. DEPTH	1.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	4.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	4.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	491	492	493	494	495	496	497	498	499	500
ELEVATION	1377.71	1378.15	1378.57	1380.28	1380.29	1380.81	1382.84	1383.71	1383.81	1383.87
MAX DEPTH	0.00	0.00	0.00	0.64	0.43	0.00	1.82	2.18	1.33	1.21
VELOCITY	0.00	0.00	0.00	0.23	0.56	0.00	0.96	4.41	0.86	1.90
TIME	6.00	6.00	6.00	4.48	4.50	6.00	4.40	4.31	4.31	4.31
MAX VEL	0.00	0.00	0.00	1.50	1.50	0.00	2.03	6.64	1.58	2.02
DEPTH	0.00	0.00	0.00	0.56	0.29	0.00	0.49	1.96	1.18	1.19
TIME	0.00	0.00	0.00	4.42	4.65	0.00	4.14	4.21	4.23	4.31
ST. DEPTH	0.00	0.00	0.00	1.12	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	4.61	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	4.49	0.00	0.00	0.00	0.00	0.00	0.00

NODE	501	502	503	504	505	506	507	508	509	510
ELEVATION	1383.80	1384.28	1385.47	1385.55	1385.92	1387.03	1387.13	1387.20	1366.85	1366.85
MAX DEPTH	0.64	0.22	1.18	0.65	0.74	1.37	2.90	0.98	0.44	0.79
VELOCITY	1.48	0.96	2.89	1.03	1.70	3.07	1.15	1.01	0.40	1.32
TIME	4.30	4.29	4.27	4.27	4.27	4.26	4.25	4.26	4.76	4.76
MAX VEL	1.50	1.49	3.27	1.50	1.93	4.49	1.50	1.69	0.45	1.50
DEPTH	0.57	0.20	1.10	0.44	0.73	1.36	2.83	0.97	0.42	0.69
TIME	4.38	4.20	4.34	4.41	4.25	4.27	4.25	4.25	4.73	4.68
ST. DEPTH	1.07	0.00	0.00	0.00	0.00	0.00	3.05	0.00	0.00	1.01
MAX STVEL	4.25	0.00	0.00	0.00	0.00	0.00	11.07	0.00	0.00	3.12
TIME	4.36	0.00	0.00	0.00	0.00	0.00	4.21	0.00	0.00	4.78

NODE	511	512	513	514	515	516	517	518	519	520
ELEVATION	1367.27	1369.52	1369.83	1369.75	1369.72	1369.12	1370.81	1370.87	1370.92	1371.12
MAX DEPTH	0.34	0.00	0.00	0.00	0.00	1.12	0.31	0.87	0.92	0.52
VELOCITY	0.93	0.00	0.00	0.00	0.00	0.70	0.72	0.29	1.05	1.94
TIME	4.71	6.00	6.00	6.00	6.00	4.68	4.63	4.63	4.62	4.62
MAX VEL	1.50	0.00	0.00	0.00	0.00	1.23	1.50	1.50	2.20	3.18
DEPTH	0.32	0.00	0.00	0.00	0.00	1.07	0.25	0.65	0.59	0.51
TIME	4.66	0.00	0.00	0.00	0.00	4.67	4.58	4.82	4.49	4.55
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	521	522	523	524	525	526	527	528	529	530
ELEVATION	1371.40	1371.46	1372.63	1372.97	1373.56	1373.60	1374.01	1374.49	1375.05	1376.43
MAX DEPTH	2.90	2.26	0.55	0.32	0.53	0.89	0.43	0.28	0.55	0.00
VELOCITY	2.89	0.70	2.80	0.76	0.55	0.33	1.28	0.83	0.99	0.00
TIME	4.63	4.61	4.59	4.60	4.58	4.59	4.59	4.59	4.58	6.00
MAX VEL	3.45	1.33	3.59	1.50	1.50	1.50	1.60	1.50	1.49	0.00
DEPTH	2.88	1.80	0.55	0.30	0.47	0.65	0.43	0.26	0.51	0.00
TIME	4.61	4.90	4.59	4.64	4.64	4.35	4.59	4.55	4.56	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	4.55	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	4.58	0.00	0.00	0.00	0.00

NODE	531	532	533	534	535	536	537	538	539	540
ELEVATION	1376.50	1376.56	1376.63	1376.94	1377.16	1377.40	1378.03	1378.83	1380.29	1380.85
MAX DEPTH	0.00	0.31	0.35	0.23	0.23	0.10	0.00	0.00	0.74	0.53
VELOCITY	0.00	0.99	0.59	0.72	0.62	0.00	0.00	0.00	0.41	2.35
TIME	6.00	4.28	4.27	4.36	4.36	4.65	6.00	6.00	4.47	4.34
MAX VEL	0.00	1.50	1.50	1.50	1.50	0.00	0.00	0.00	1.50	3.22
DEPTH	0.00	0.21	0.23	0.23	0.20	0.00	0.00	0.00	0.49	0.52
TIME	0.00	4.39	4.57	4.35	4.37	0.00	0.00	0.00	4.34	4.34
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.07	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.74	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.49	0.00

NODE	541	542	543	544	545	546	547	548	549	550
ELEVATION	1382.79	1382.84	1383.70	1383.81	1383.92	1383.97	1383.99	1385.41	1385.50	1385.95
MAX DEPTH	1.80	1.52	1.96	1.13	1.34	1.53	0.29	1.75	1.28	0.71
VELOCITY	4.32	0.46	4.49	1.23	1.37	1.37	0.47	1.85	1.62	1.66
TIME	4.40	4.40	4.30	4.31	4.30	4.32	4.31	4.28	4.27	4.25
MAX VEL	6.46	1.50	5.89	1.64	1.65	1.57	1.50	1.86	1.70	2.28
DEPTH	1.79	0.37	1.78	1.13	1.32	1.51	0.20	1.73	1.25	0.70
TIME	4.41	4.92	4.22	4.30	4.32	4.32	4.24	4.30	4.25	4.25
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	2.48	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	5.24	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	4.34	0.00	0.00	0.00	0.00

NODE	551	552	553	554	555	556	557	558	559	560
ELEVATION	1387.06	1387.16	1387.66	1366.79	1366.77	1367.12	1369.55	1369.69	1369.58	1369.53

MAX DEPTH	2.56	2.66	0.66	0.50	0.71	0.10	0.00	0.00	0.00	0.00
VELOCITY	4.20	2.77	1.55	0.48	1.12	0.19	0.00	0.00	0.00	0.00
TIME	4.26	4.26	4.25	4.76	4.76	4.78	6.00	6.00	6.00	6.00
MAX VEL	4.83	2.91	2.20	0.49	1.23	0.30	0.00	0.00	0.00	0.00
DEPTH	2.45	2.51	0.58	0.49	0.55	0.10	0.00	0.00	0.00	0.00
TIME	4.21	4.19	4.21	4.77	4.66	4.79	0.00	0.00	0.00	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	3.31	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	4.78	0.00	0.00	0.00	0.00	0.00

NODE	561	562	563	564	565	566	567	568	569	570
ELEVATION	1369.11	1370.80	1370.85	1370.90	1371.03	1372.20	1371.49	1373.02	1373.07	1373.58
MAX DEPTH	1.11	0.30	0.85	0.90	0.53	0.00	2.39	0.62	0.46	0.79
VELOCITY	0.68	0.48	1.29	1.71	1.78	0.00	0.50	1.21	1.24	2.01
TIME	4.66	4.63	4.63	4.64	4.59	6.00	4.61	4.59	4.60	4.56
MAX VEL	1.12	0.49	1.49	1.94	2.68	0.00	4.42	1.80	1.50	2.07
DEPTH	1.05	0.30	0.83	0.57	0.50	0.00	0.65	0.61	0.34	0.76
TIME	4.70	4.63	4.62	4.49	4.54	0.00	4.33	4.60	4.31	4.56
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	571	572	573	574	575	576	577	578	579	580
ELEVATION	1373.63	1373.96	1374.28	1374.70	1376.57	1376.67	1376.77	1376.82	1377.26	1377.43
MAX DEPTH	1.05	0.21	0.28	0.35	0.00	0.00	0.10	0.45	0.27	0.22
VELOCITY	0.17	0.62	0.61	0.84	0.00	0.00	0.00	1.11	0.75	0.60
TIME	4.58	4.60	4.60	4.65	6.00	6.00	4.51	4.40	4.21	4.38
MAX VEL	1.50	1.50	1.50	1.50	0.00	0.00	0.00	1.50	1.50	1.50
DEPTH	0.87	0.21	0.24	0.30	0.00	0.00	0.00	0.40	0.25	0.20
TIME	4.47	4.59	4.52	4.74	0.00	0.00	0.00	4.32	4.33	4.56
ST. DEPTH	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	5.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	4.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	581	582	583	584	585	586	587	588	589	590
ELEVATION	1377.74	1377.87	1378.55	1380.26	1380.25	1380.35	1383.01	1383.68	1382.05	1384.02
MAX DEPTH	0.10	0.10	0.05	0.66	0.59	0.11	2.05	2.44	0.00	2.58
VELOCITY	0.20	0.16	0.00	0.80	0.60	0.10	2.04	1.79	0.00	1.77
TIME	4.52	4.52	6.00	4.48	4.48	4.52	4.44	4.31	6.00	4.31
MAX VEL	0.29	0.26	0.00	0.88	0.68	0.30	2.79	2.00	0.00	1.90
DEPTH	0.10	0.10	0.00	0.59	0.54	0.11	1.98	2.15	0.00	2.57
TIME	4.51	4.52	0.00	4.59	4.57	4.54	4.51	4.19	0.00	4.31
ST. DEPTH	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	4.48	0.00	0.00	0.00	0.00	0.00	0.00

NODE	591	592	593	594	595	596	597	598	599	600
ELEVATION	1384.10	1384.47	1385.13	1385.42	1385.77	1386.45	1387.17	1387.14	1366.71	1366.72
MAX DEPTH	3.60	1.49	2.13	2.42	1.77	1.76	2.61	1.01	0.66	0.70
VELOCITY	1.47	2.77	4.02	3.28	2.79	3.55	0.86	0.74	0.74	0.88
TIME	4.31	4.28	4.26	4.27	4.26	4.26	4.26	4.26	4.76	4.76
MAX VEL	2.63	3.48	5.08	3.88	3.61	5.01	1.50	1.50	0.77	0.98
DEPTH	3.54	1.46	2.10	2.40	1.70	1.73	0.30	0.83	0.55	0.51
TIME	4.26	4.29	4.25	4.27	4.22	4.24	4.76	4.34	4.86	4.91
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	2.84	0.00	0.00	0.98
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	10.77	0.00	0.00	3.07
TIME	0.00	0.00	0.00	0.00	0.00	0.00	4.22	0.00	0.00	4.78

NODE	601	602	603	604	605	606	607	608	609	610
ELEVATION	1367.43	1368.10	1368.41	1368.74	1369.19	1369.05	1370.65	1370.71	1370.78	1371.01
MAX DEPTH	0.13	0.10	0.21	0.34	0.59	1.05	0.35	0.71	0.28	0.00
VELOCITY	0.32	0.25	0.69	0.81	1.66	1.10	1.19	1.84	0.58	0.00
TIME	4.68	4.71	4.68	4.68	4.56	4.67	4.63	4.63	4.64	6.00
MAX VEL	0.36	0.31	0.75	1.50	2.03	2.89	1.20	1.93	1.49	0.00
DEPTH	0.12	0.10	0.20	0.29	0.55	0.64	0.35	0.62	0.28	0.00
TIME	4.79	5.68	4.69	4.75	4.56	4.60	4.63	4.53	4.63	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	611	612	613	614	615	616	617	618	619	620
ELEVATION	1372.20	1371.49	1373.07	1373.45	1373.58	1373.66	1374.19	1374.25	1374.53	1375.79
MAX DEPTH	0.00	2.49	1.30	0.68	0.67	1.13	0.00	0.00	0.20	0.11
VELOCITY	0.00	0.89	0.00	1.32	1.15	0.44	0.00	0.00	0.45	0.36
TIME	6.00	4.60	4.61	4.57	4.57	4.58	6.00	6.00	4.38	4.37
MAX VEL	0.00	5.72	0.33	1.73	1.69	1.50	0.00	0.00	1.46	0.36
DEPTH	0.00	1.18	1.02	0.68	0.66	0.92	0.00	0.00	0.20	0.11
TIME	0.00	4.37	5.02	4.57	4.56	4.33	0.00	0.00	4.58	4.35
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	1.38	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	5.49	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	4.59	0.00	0.00	0.00	0.00

NODE	621	622	623	624	625	626	627	628	629	630
ELEVATION	1376.07	1376.51	1376.83	1377.48	1377.89	1377.97	1378.60	1378.86	1380.22	1380.26
MAX DEPTH	0.32	0.49	0.43	0.52	0.59	0.10	0.04	0.12	0.67	0.21
VELOCITY	0.86	1.18	1.22	1.64	1.27	0.19	0.00	0.23	1.35	0.33
TIME	4.33	4.39	4.39	4.32	4.50	4.36	4.59	4.43	4.46	4.46
MAX VEL	1.47	1.50	1.50	1.95	3.78	0.29	0.00	0.29	1.49	1.49
DEPTH	0.30	0.44	0.24	0.50	0.56	0.10	0.00	0.11	0.35	0.20
TIME	4.40	4.51	4.63	4.36	4.31	4.32	0.00	4.51	4.28	4.49
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.04	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.54	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.49	0.00

NODE	631	632	633	634	635	636	637	638	639	640

ELEVATION	1380.23	1383.01	1383.47	1383.82	1384.10	1384.16	1384.34	1385.07	1385.20	1385.56
MAX DEPTH	0.00	2.15	2.28	1.92	2.10	2.35	1.60	1.89	1.87	1.07
VELOCITY	0.00	0.00	2.75	2.62	1.40	1.94	2.10	3.74	1.90	2.13
TIME	6.00	4.44	4.33	4.30	4.31	4.32	4.29	4.28	4.27	4.26
MAX VEL	0.00	0.15	2.82	4.05	1.64	2.35	2.75	5.03	2.36	2.66
DEPTH	0.00	1.36	2.25	1.90	2.04	2.25	1.52	1.85	1.73	1.05
TIME	0.00	4.81	4.35	4.28	4.33	4.23	4.23	4.30	4.20	4.25
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	641	642	643	644	645	646	647	648	649	650
ELEVATION	1385.79	1387.05	1387.07	1366.68	1366.68	1366.97	1367.71	1368.23	1368.52	1368.95
MAX DEPTH	0.53	1.62	0.53	0.78	0.75	0.47	0.71	0.93	0.92	0.75
VELOCITY	1.11	3.00	0.61	0.71	0.79	1.13	3.71	4.45	3.40	3.69
TIME	4.27	4.26	4.27	4.77	4.77	4.72	4.68	4.70	4.67	4.69
MAX VEL	1.50	3.71	1.48	0.79	0.87	1.51	5.07	5.91	5.43	5.66
DEPTH	0.52	1.61	0.50	0.77	0.72	0.45	0.65	0.91	0.82	0.70
TIME	4.27	4.26	4.25	4.75	4.72	4.69	4.68	4.69	4.58	4.57
ST. DEPTH	0.00	2.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	9.92	0.00	0.00	3.17	0.00	0.00	0.00	0.00	0.00
TIME	0.00	4.21	0.00	0.00	4.78	0.00	0.00	0.00	0.00	0.00

NODE	651	652	653	654	655	656	657	658	659	660
ELEVATION	1369.76	1370.54	1370.66	1370.70	1370.70	1372.20	1371.35	1373.04	1373.47	1373.59
MAX DEPTH	0.76	0.64	0.76	0.70	0.20	0.00	2.35	0.52	1.31	1.12
VELOCITY	2.88	2.28	2.21	0.45	0.16	0.00	4.51	5.40	3.89	2.41
TIME	4.56	4.55	4.65	4.65	4.73	6.00	4.60	4.56	4.57	4.57
MAX VEL	6.00	5.90	2.79	1.49	0.65	0.00	5.56	9.18	4.75	3.81
DEPTH	0.67	0.57	0.74	0.35	0.20	0.00	2.17	0.49	1.30	0.58
TIME	4.56	4.63	4.62	4.99	4.73	0.00	4.45	4.40	4.60	4.24
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	661	662	663	664	665	666	667	668	669	670
ELEVATION	1373.67	1373.81	1374.10	1374.25	1374.81	1375.65	1376.02	1376.78	1377.58	1378.20
MAX DEPTH	1.13	1.24	0.53	0.49	0.29	0.51	0.52	0.30	0.31	0.53
VELOCITY	1.14	3.02	1.53	0.87	1.22	1.38	1.86	1.11	1.49	1.50
TIME	4.56	4.43	4.43	4.43	4.31	4.42	4.39	4.40	4.38	4.30
MAX VEL	2.45	4.42	3.13	1.50	1.50	1.97	3.42	1.66	1.54	1.86
DEPTH	1.05	1.17	0.50	0.25	0.24	0.50	0.50	0.30	0.31	0.49
TIME	4.43	4.38	4.41	4.68	4.55	4.41	4.35	4.40	4.41	4.32
ST. DEPTH	1.38	1.83	0.96	0.94	0.70	0.69	0.74	0.61	0.64	0.70
MAX STVEL	6.71	0.00	4.79	4.81	6.70	6.94	6.14	6.60	6.48	6.07
TIME	4.58	4.43	4.42	4.43	4.42	4.40	4.39	4.30	4.30	4.30

NODE	671	672	673	674	675	676	677	678	679	680
ELEVATION	1378.59	1379.01	1379.32	1380.11	1380.61	1381.27	1382.82	1383.44	1383.62	1383.93
MAX DEPTH	0.57	0.48	0.28	0.56	0.52	1.56	2.32	2.20	2.10	2.22
VELOCITY	1.62	1.71	0.68	1.76	1.97	2.77	5.55	4.47	2.34	2.80
TIME	4.25	4.42	4.41	4.42	4.28	4.37	4.36	4.35	4.33	4.31
MAX VEL	4.22	1.74	1.50	1.92	3.62	4.13	7.97	6.09	2.89	4.03
DEPTH	0.53	0.47	0.26	0.56	0.49	1.55	2.17	2.16	2.02	1.90
TIME	4.44	4.38	4.34	4.43	4.34	4.36	4.35	4.37	4.27	4.18
ST. DEPTH	0.68	0.54	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	5.36	4.83	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	4.30	4.40	4.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	681	682	683	684	685	686	687	688	689	690
ELEVATION	1384.14	1384.44	1384.96	1385.14	1385.38	1385.97	1386.92	1386.98	1366.66	1366.66
MAX DEPTH	2.59	1.93	1.83	1.53	0.73	0.66	0.65	0.20	0.83	0.86
VELOCITY	2.88	2.64	3.74	2.01	1.28	1.83	2.04	0.38	0.67	0.63
TIME	4.31	4.29	4.29	4.28	4.28	4.27	4.27	4.30	4.79	4.79
MAX VEL	3.33	3.87	4.58	2.34	1.71	2.34	2.70	0.97	0.83	0.80
DEPTH	2.45	1.89	1.81	1.52	0.73	0.60	0.58	0.20	0.82	0.85
TIME	4.22	4.26	4.25	4.26	4.28	4.21	4.21	4.30	4.79	4.75
ST. DEPTH	3.68	0.00	0.00	0.00	0.00	0.00	1.12	0.00	0.00	1.16
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	6.57	0.00	0.00	4.56
TIME	4.34	0.00	0.00	0.00	0.00	0.00	4.27	0.00	0.00	4.78

NODE	691	692	693	694	695	696	697	698	699	700
ELEVATION	1366.75	1368.30	1368.80	1369.30	1369.60	1370.00	1370.00	1370.00	1370.00	1370.00
MAX DEPTH	4.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VELOCITY	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	4.75	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
MAX VEL	1.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DEPTH	3.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	4.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	701	702	703	704	705	706	707	708	709	710
ELEVATION	1371.30	1370.75	1373.28	1373.82	1373.70	1373.70	1373.70	1374.15	1374.17	1375.61
MAX DEPTH	0.00	1.75	0.00	0.00	0.00	1.16	0.39	0.20	0.41	0.36
VELOCITY	0.00	1.01	0.00	0.00	0.00	0.33	0.71	0.29	0.59	0.00
TIME	6.00	4.75	6.00	6.00	6.00	4.57	4.57	4.45	4.44	4.73
MAX VEL	0.00	2.56	0.00	0.00	0.00	1.51	1.50	0.70	1.50	0.00
DEPTH	0.00	0.98	0.00	0.00	0.00	1.08	0.25	0.20	0.40	0.36
TIME	0.00	4.44	0.00	0.00	0.00	4.54	4.32	4.44	4.40	4.84
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	1.40	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	5.78	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	4.58	0.00	0.00	0.00	0.00

NODE	711	712	713	714	715	716	717	718	719	720
ELEVATION	1375.92	1376.02	1377.56	1378.01	1378.64	1378.98	1379.33	1379.50	1379.64	1380.45
MAX DEPTH	0.23	0.33	0.10	0.12	0.20	0.60	2.35	1.56	2.74	0.83
VELOCITY	0.30	0.86	0.00	0.24	0.41	2.24	3.24	1.96	2.16	2.28
TIME	4.45	4.34	4.81	4.31	4.37	4.39	4.38	4.38	4.37	4.34
MAX VEL	1.34	1.50	0.40	0.38	1.49	2.88	3.97	2.71	2.30	3.45
DEPTH	0.20	0.28	0.10	0.12	0.20	0.60	2.34	1.55	2.71	0.83
TIME	4.54	4.52	4.81	4.31	4.29	4.39	4.37	4.38	4.37	4.36
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.02	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.43	0.00

NODE	721	722	723	724	725	726	727	728	729	730
ELEVATION	1381.12	1381.48	1383.52	1383.60	1383.72	1384.16	1384.49	1384.93	1385.60	1386.31
MAX DEPTH	1.62	0.00	1.73	1.91	1.46	0.20	0.21	0.13	0.00	0.00
VELOCITY	3.06	0.00	3.15	1.64	1.61	0.47	0.66	0.25	0.00	0.00
TIME	4.34	6.00	4.34	4.34	4.35	4.31	4.27	4.32	6.00	6.00
MAX VEL	3.61	0.00	4.60	2.17	1.96	1.48	1.50	0.42	0.00	0.00
DEPTH	1.62	0.00	1.71	1.81	1.46	0.20	0.20	0.13	0.00	0.00
TIME	4.34	0.00	4.36	4.42	4.35	4.29	4.28	4.32	0.00	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	731	732	733	734	735	736	737	738	739	740
ELEVATION	1386.73	1387.12	1389.37	1366.65	1366.66	1366.73	1368.30	1368.30	1369.30	1369.30
MAX DEPTH	0.06	0.00	0.00	0.83	1.03	4.23	0.00	0.00	0.00	0.00
VELOCITY	0.00	0.00	0.00	0.73	0.80	0.57	0.00	0.00	0.00	0.00
TIME	6.00	6.00	6.00	4.78	4.79	4.78	6.00	6.00	6.00	6.00
MAX VEL	0.00	0.00	0.00	0.85	1.13	1.79	0.00	0.00	0.00	0.00
DEPTH	0.00	0.00	0.00	0.81	0.46	0.57	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	4.80	4.61	4.46	0.00	0.00	0.00	0.00
ST. DEPTH	0.00	0.28	0.00	0.00	1.32	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	3.37	0.00	0.00	6.16	0.00	0.00	0.00	0.00	0.00
TIME	0.00	4.27	0.00	0.00	4.78	0.00	0.00	0.00	0.00	0.00

NODE	741	742	743	744	745	746	747	748	749	750
ELEVATION	1370.00	1370.00	1370.00	1370.00	1370.00	1370.64	1370.66	1372.63	1373.69	1373.83
MAX DEPTH	0.00	0.00	0.00	0.00	0.00	4.14	3.66	0.00	0.00	0.00
VELOCITY	0.00	0.00	0.00	0.00	0.00	1.28	0.95	0.00	0.00	0.00
TIME	6.00	6.00	6.00	6.00	6.00	4.59	4.65	6.00	6.00	6.00
MAX VEL	0.00	0.00	0.00	0.00	0.00	1.89	1.66	0.00	0.00	0.00
DEPTH	0.00	0.00	0.00	0.00	0.00	3.46	2.97	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	4.45	4.45	0.00	0.00	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	751	752	753	754	755	756	757	758	759	760
ELEVATION	1373.66	1373.68	1373.99	1374.50	1375.60	1375.74	1375.87	1377.89	1378.21	1378.07
MAX DEPTH	1.07	0.71	0.20	0.14	0.00	0.10	0.20	0.00	0.00	0.00
VELOCITY	0.06	0.50	0.58	0.27	0.00	0.15	0.31	0.00	0.00	0.00
TIME	4.57	4.57	4.42	4.51	6.00	4.46	4.48	6.00	6.00	6.00
MAX VEL	0.47	1.49	1.49	0.46	0.00	0.21	0.49	0.00	0.00	0.00
DEPTH	1.02	0.56	0.20	0.14	0.00	0.10	0.20	0.00	0.00	0.00
TIME	4.59	4.35	4.46	4.51	0.00	4.58	4.46	0.00	0.00	0.00
ST. DEPTH	1.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	6.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	4.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	761	762	763	764	765	766	767	768	769	770
ELEVATION	1379.02	1379.23	1379.57	1379.66	1380.03	1381.48	1381.48	1383.57	1383.58	1383.63
MAX DEPTH	1.34	1.49	2.57	4.28	0.97	0.00	0.00	3.23	3.03	2.76
VELOCITY	2.63	2.51	2.40	2.14	1.85	0.00	0.00	0.37	1.42	0.23
TIME	4.39	4.36	4.38	4.37	4.34	6.00	6.00	4.33	4.35	4.34
MAX VEL	2.64	2.52	3.40	2.87	2.60	0.00	0.00	1.87	2.15	1.58
DEPTH	1.33	1.48	2.55	4.25	0.95	0.00	0.00	3.04	3.00	0.50
TIME	4.34	4.39	4.38	4.32	4.29	0.00	0.00	4.46	4.38	4.02
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	771	772	773	774	775	776	777	778	779	780
ELEVATION	1384.18	1384.67	1385.47	1386.06	1386.76	1387.34	1388.01	1389.44	1366.60	1366.63
MAX DEPTH	0.10	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.81	1.17
VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.83	1.00
TIME	4.40	6.00	6.00	6.00	6.00	6.00	6.00	6.00	4.78	4.78
MAX VEL	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.49	1.47
DEPTH	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.20
TIME	4.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.64	4.56
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	1.47
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	3.47	0.00	0.00	7.63
TIME	0.00	0.00	0.00	0.00	0.00	0.00	3.60	0.00	0.00	4.77

NODE	781	782	783	784	785	786	787	788	789	790
ELEVATION	1366.70	1367.07	1367.25	1367.56	1367.97	1369.45	1369.80	1369.93	1370.04	1370.40
MAX DEPTH	3.20	0.48	0.23	0.00	0.32	0.95	1.53	0.99	0.81	0.65
VELOCITY	1.08	1.22	0.55	0.00	0.00	2.35	2.59	1.83	1.41	1.62
TIME	4.77	4.72	4.71	6.00	4.64	4.65	4.63	4.62	4.62	4.62
MAX VEL	2.03	2.45	1.50	0.00	0.00	3.47	2.59	1.83	1.54	1.77
DEPTH	0.50	0.34	0.22	0.00	0.00	0.94	1.52	0.99	0.77	0.64
TIME	4.50	4.58	4.70	0.00	0.00	4.65	4.63	4.63	4.59	4.62
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	791	792	793	794	795	796	797	798	799	800
ELEVATION	1370.59	1370.71	1373.39	1373.65	1373.75	1373.65	1373.66	1374.04	1374.71	1375.07
MAX DEPTH	1.59	4.21	1.02	0.00	0.00	1.16	0.91	0.53	0.91	0.59
VELOCITY	1.04	0.45	0.00	0.00	0.00	0.47	0.66	1.67	1.85	1.34
TIME	4.64	4.62	4.71	6.00	6.00	4.55	4.56	4.49	4.44	4.45
MAX VEL	1.50	2.30	0.08	0.00	0.00	0.71	1.50	1.92	2.76	1.77
DEPTH	1.44	3.49	0.98	0.00	0.00	1.11	0.55	0.50	0.91	0.59
TIME	4.55	4.45	4.81	0.00	0.00	4.58	4.80	4.25	4.44	4.45
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	1.49	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	8.45	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	4.54	0.00	0.00	0.00	0.00

NODE	801	802	803	804	805	806	807	808	809	810
ELEVATION	1375.28	1375.53	1377.92	1377.97	1378.07	1378.41	1379.70	1379.88	1379.68	1379.63
MAX DEPTH	0.43	0.20	3.04	3.40	1.33	1.26	0.00	0.00	2.19	0.40
VELOCITY	0.90	0.70	0.49	0.28	1.63	1.93	0.00	0.00	0.27	0.22
TIME	4.49	4.44	4.43	4.37	4.36	4.44	6.00	6.00	4.40	4.35
MAX VEL	1.50	1.49	0.84	1.50	2.60	2.90	0.00	0.00	1.50	1.46
DEPTH	0.37	0.20	3.02	0.88	0.60	1.25	0.00	0.00	2.06	0.24
TIME	4.34	4.52	4.43	4.05	4.11	4.37	0.00	0.00	4.36	4.54
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.38	1.26
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.55	5.49
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.40	4.36

NODE	811	812	813	814	815	816	817	818	819	820
ELEVATION	1379.66	1379.86	1383.57	1383.58	1383.59	1383.86	1384.93	1385.67	1386.36	1387.00
MAX DEPTH	0.00	0.00	3.34	3.14	2.55	0.01	0.00	0.00	0.00	0.00
VELOCITY	0.00	0.00	0.01	0.03	0.09	0.00	0.00	0.00	0.00	0.00
TIME	6.00	6.00	4.35	4.34	4.34	6.00	6.00	6.00	6.00	6.00
MAX VEL	0.00	0.00	1.76	1.49	1.23	0.00	0.00	0.00	0.00	0.00
DEPTH	0.00	0.00	0.92	0.71	0.66	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	4.01	4.01	4.06	0.00	0.00	0.00	0.00	0.00
ST. DEPTH	1.00	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	3.99	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	4.38	4.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	821	822	823	824	825	826	827	828	829	830
ELEVATION	1387.78	1388.79	1389.90	1366.54	1366.57	1366.58	1366.65	1367.01	1367.49	1367.94
MAX DEPTH	0.00	0.00	0.00	0.87	1.37	1.02	0.62	0.50	0.38	0.61
VELOCITY	0.00	0.00	0.00	1.06	1.05	0.98	1.31	1.07	1.03	1.18
TIME	6.00	6.00	6.00	4.75	4.75	4.77	4.76	4.74	4.74	4.68
MAX VEL	0.00	0.00	0.00	1.45	2.49	1.50	1.94	1.70	1.49	1.78
DEPTH	0.00	0.00	0.00	0.42	0.42	0.47	0.50	0.48	0.28	0.61
TIME	0.00	0.00	0.00	4.63	4.52	4.60	4.64	4.66	5.04	4.69
ST. DEPTH	0.00	0.21	0.00	0.00	1.72	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	3.35	0.00	0.00	9.31	0.00	0.00	0.00	0.00	0.00
TIME	0.00	3.59	0.00	0.00	4.78	0.00	0.00	0.00	0.00	0.00

NODE	831	832	833	834	835	836	837	838	839	840
ELEVATION	1368.22	1368.46	1368.77	1369.20	1369.76	1370.14	1370.61	1373.39	1373.45	1373.55
MAX DEPTH	0.86	0.60	0.35	0.27	0.20	0.00	0.00	0.78	0.34	0.51
VELOCITY	1.08	0.99	0.90	0.96	0.39	0.00	0.00	0.00	0.84	1.10
TIME	4.69	4.69	4.68	4.63	4.65	6.00	6.00	4.71	4.42	4.54
MAX VEL	1.50	1.50	1.50	1.50	1.35	0.00	0.00	1.45	1.50	1.50
DEPTH	0.67	0.25	0.33	0.25	0.20	0.00	0.00	0.20	0.21	0.48
TIME	4.53	4.49	4.78	4.67	4.66	0.00	0.00	4.48	4.45	4.50
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	841	842	843	844	845	846	847	848	849	850
ELEVATION	1373.63	1373.82	1373.58	1374.67	1375.10	1375.48	1375.78	1377.91	1377.94	1378.04
MAX DEPTH	1.66	0.12	0.00	0.57	0.44	0.39	0.21	3.53	1.44	1.34
VELOCITY	0.44	0.18	0.00	1.44	1.32	0.93	0.85	1.87	1.51	1.86
TIME	4.57	4.49	6.00	4.43	4.45	4.42	4.39	4.43	4.40	4.43
MAX VEL	1.48	0.38	0.00	1.84	1.56	1.50	1.50	1.92	1.59	2.20
DEPTH	1.41	0.12	0.00	0.57	0.43	0.35	0.20	3.49	1.41	0.51
TIME	4.32	4.50	0.00	4.41	4.41	4.56	4.30	4.43	4.44	4.09
ST. DEPTH	2.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	9.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	4.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	851	852	853	854	855	856	857	858	859	860
ELEVATION	1378.10	1380.16	1380.06	1379.60	1380.55	1380.55	1380.55	1383.57	1383.57	1383.57
MAX DEPTH	1.40	0.00	0.00	0.76	0.00	0.00	0.00	3.11	2.91	2.51
VELOCITY	0.73	0.00	0.00	0.38	0.00	0.00	0.00	0.02	0.03	0.05
TIME	4.43	6.00	6.00	4.38	6.00	6.00	6.00	4.34	4.34	4.35
MAX VEL	1.50	0.00	0.00	1.38	0.00	0.00	0.00	1.66	1.47	0.77
DEPTH	1.29	0.00	0.00	0.43	0.00	0.00	0.00	1.88	1.70	1.55
TIME	4.48	0.00	0.00	4.62	0.00	0.00	0.00	4.10	4.10	4.12
ST. DEPTH	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	4.21	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	0.00	0.00

NODE	861	862	863	864	865	866	867	868	869	870
ELEVATION	1383.86	1385.05	1385.65	1386.61	1387.40	1388.17	1389.47	1390.77	1366.50	1366.52
MAX DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.38
VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.19	1.06
TIME	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	4.76	4.78
MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.45	1.50
DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.99	0.54
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.76	4.47
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	1.76
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	3.21	0.00	0.00	9.48

TIME	0.00	0.00	0.00	0.00	0.00	0.00	3.58	0.00	0.00	4.75

NODE	871	872	873	874	875	876	877	878	879	880
ELEVATION	1366.54	1366.66	1366.97	1367.43	1367.93	1368.14	1368.30	1368.77	1369.21	1369.70
MAX DEPTH	0.93	0.55	0.49	0.37	0.29	0.45	0.32	0.18	0.10	0.07
VELOCITY	1.11	0.97	1.32	0.98	1.18	0.85	0.70	0.31	0.09	0.00
TIME	4.76	4.76	4.76	4.71	4.70	4.69	4.70	4.69	4.75	5.12
MAX VEL	1.56	1.50	1.56	1.50	1.50	1.50	1.50	0.61	0.29	0.00
DEPTH	0.51	0.28	0.47	0.35	0.28	0.39	0.20	0.18	0.10	0.00
TIME	4.62	5.16	4.66	4.79	4.66	4.58	5.09	4.69	4.66	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	881	882	883	884	885	886	887	888	889	890
ELEVATION	1370.35	1370.75	1371.69	1372.20	1373.57	1373.59	1373.73	1374.19	1374.65	1375.20
MAX DEPTH	0.00	0.00	0.00	0.00	1.41	3.09	0.53	0.56	0.52	0.27
VELOCITY	0.00	0.00	0.00	0.00	0.17	0.82	0.97	1.54	1.60	1.44
TIME	6.00	6.00	6.00	6.00	4.48	4.58	4.49	4.44	4.43	4.40
MAX VEL	0.00	0.00	0.00	0.00	0.59	1.50	1.50	1.90	1.85	1.50
DEPTH	0.00	0.00	0.00	0.00	1.32	2.08	0.50	0.55	0.52	0.27
TIME	0.00	0.00	0.00	0.00	4.61	4.21	4.57	4.44	4.43	4.43
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	3.39	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	9.22	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	4.58	0.00	0.00	0.00	0.00

NODE	891	892	893	894	895	896	897	898	899	900
ELEVATION	1375.48	1376.19	1377.66	1377.92	1378.01	1378.05	1379.52	1379.64	1379.52	1380.55
MAX DEPTH	1.26	1.03	2.16	1.80	1.88	1.20	0.00	0.00	0.27	0.00
VELOCITY	1.70	2.42	5.30	2.58	0.74	0.85	0.00	0.00	0.25	0.00
TIME	4.42	4.37	4.39	4.40	4.43	4.44	6.00	6.00	4.41	6.00
MAX VEL	1.71	3.64	6.82	3.31	1.75	1.51	0.00	0.00	0.31	0.00
DEPTH	1.25	1.02	2.15	1.79	1.80	1.18	0.00	0.00	0.25	0.00
TIME	4.40	4.36	4.41	4.43	4.30	4.42	0.00	0.00	4.31	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.56	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.87	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.41	0.00

NODE	901	902	903	904	905	906	907	908	909	910
ELEVATION	1380.55	1380.55	1383.57	1383.57	1383.57	1383.70	1384.93	1385.72	1386.77	1387.67
MAX DEPTH	0.00	0.00	1.92	1.59	1.01	0.00	0.00	0.00	0.00	0.00
VELOCITY	0.00	0.00	0.02	0.02	0.02	0.00	0.00	0.00	0.00	0.00
TIME	6.00	6.00	4.35	4.35	4.35	6.00	6.00	6.00	6.00	6.00
MAX VEL	0.00	0.00	2.09	1.46	1.29	0.00	0.00	0.00	0.00	0.00
DEPTH	0.00	0.00	0.89	0.60	0.31	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	4.12	4.13	4.64	0.00	0.00	0.00	0.00	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	911	912	913	914	915	916	917	918	919	920
ELEVATION	1388.43	1389.97	1392.54	1366.47	1366.48	1366.52	1366.73	1367.07	1367.36	1367.83
MAX DEPTH	0.00	0.00	0.00	1.11	1.41	0.70	0.34	0.33	0.29	0.23
VELOCITY	0.00	0.00	0.00	0.98	1.18	1.12	1.04	1.05	0.88	0.98
TIME	6.00	6.00	6.00	4.74	4.74	4.81	4.74	4.73	4.70	4.72
MAX VEL	0.00	0.00	0.00	1.63	1.50	1.50	1.50	1.50	1.50	1.50
DEPTH	0.00	0.00	0.00	1.09	0.35	0.66	0.26	0.29	0.28	0.23
TIME	0.00	0.00	0.00	4.81	4.36	4.79	4.58	4.87	4.76	4.72
ST. DEPTH	0.00	0.22	0.00	0.00	1.78	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	2.97	0.00	0.00	9.42	0.00	0.00	0.00	0.00	0.00
TIME	0.00	4.02	0.00	0.00	4.73	0.00	0.00	0.00	0.00	0.00

NODE	921	922	923	924	925	926	927	928	929	930
ELEVATION	1368.12	1368.29	1368.74	1369.19	1369.74	1370.37	1370.82	1371.31	1371.82	1373.51
MAX DEPTH	0.23	0.27	0.17	0.14	0.10	0.00	0.00	0.00	0.00	1.44
VELOCITY	0.65	0.50	0.29	0.26	0.00	0.00	0.00	0.00	0.00	1.07
TIME	4.42	4.38	4.70	4.58	5.07	4.70	6.00	6.00	6.00	4.49
MAX VEL	1.49	1.50	0.56	0.44	0.23	0.00	0.00	0.00	0.00	1.38
DEPTH	0.21	0.24	0.17	0.14	0.10	0.00	0.00	0.00	0.00	0.60
TIME	4.72	4.61	4.69	4.59	5.12	0.00	0.00	0.00	0.00	4.23
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	931	932	933	934	935	936	937	938	939	940
ELEVATION	1373.56	1373.70	1374.03	1374.62	1375.02	1375.51	1375.93	1377.30	1377.55	1377.74
MAX DEPTH	4.11	0.63	0.83	0.62	1.52	0.76	0.38	0.00	0.00	0.00
VELOCITY	0.66	2.33	3.14	2.14	1.75	1.82	1.00	0.00	0.00	0.00
TIME	4.51	4.49	4.46	4.43	4.42	4.39	4.36	6.00	6.00	6.00
MAX VEL	1.79	3.20	4.20	3.18	2.31	2.44	1.50	0.00	0.00	0.00
DEPTH	1.70	0.51	0.81	0.60	1.51	0.75	0.33	0.00	0.00	0.00
TIME	3.98	4.30	4.40	4.36	4.40	4.38	4.55	0.00	0.00	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	941	942	943	944	945	946	947	948	949	950
ELEVATION	1378.25	1378.29	1379.80	1379.47	1381.95	1382.30	1382.65	1383.57	1383.57	1383.56
MAX DEPTH	0.00	0.00	0.00	0.23	0.00	0.00	0.00	1.78	0.81	0.00
VELOCITY	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.02	0.03	0.00
TIME	6.00	6.00	6.00	4.41	6.00	6.00	6.00	4.36	4.36	6.00
MAX VEL	0.00	0.00	0.00	0.14	0.00	0.00	0.00	1.98	1.49	0.00
DEPTH	0.00	0.00	0.00	0.23	0.00	0.00	0.00	1.15	0.32	0.00
TIME	0.00	0.00	0.00	4.41	0.00	0.00	0.00	4.17	4.58	0.00
ST. DEPTH	0.00	0.00	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.00

MAX STVEL	0.00	0.00	0.00	1.89	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	0.00	0.00

NODE	951	952	953	954	955	956	957	958	959	960
ELEVATION	1383.65	1384.33	1385.90	1386.82	1387.78	1388.52	1390.23	1392.38	1366.44	1366.45
MAX DEPTH	0.00	0.00	0.00	0.00	0.04	0.02	0.00	0.00	1.22	1.43
VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.78	1.29
TIME	6.00	6.00	6.00	6.00	4.15	4.15	6.00	6.00	4.73	4.77
MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.02	1.85
DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.21	1.40
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.77	4.75
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.00	1.76
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	2.52	0.00	0.00	9.24
TIME	0.00	0.00	0.00	0.00	0.00	0.00	4.02	0.00	0.00	4.76

NODE	961	962	963	964	965	966	967	968	969	970
ELEVATION	1366.49	1366.88	1367.12	1367.29	1367.58	1368.09	1368.43	1368.76	1369.33	1369.74
MAX DEPTH	0.38	0.29	0.34	0.36	0.30	0.28	0.24	0.25	0.22	0.21
VELOCITY	0.74	0.75	0.71	0.77	0.92	0.85	1.17	0.64	0.78	0.66
TIME	4.74	4.35	4.70	4.71	4.67	4.41	4.35	4.53	4.53	4.56
MAX VEL	1.49	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
DEPTH	0.20	0.23	0.28	0.35	0.27	0.25	0.21	0.23	0.20	0.20
TIME	4.61	4.75	4.42	4.72	4.84	4.67	4.56	4.36	4.76	4.77
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	971	972	973	974	975	976	977	978	979	980
ELEVATION	1370.16	1370.37	1373.29	1373.42	1373.51	1373.57	1373.58	1373.36	1374.52	1375.92
MAX DEPTH	0.12	0.11	2.29	1.92	1.59	4.37	1.13	0.00	0.57	0.00
VELOCITY	0.22	0.15	0.00	1.75	1.08	0.61	1.11	0.00	1.79	0.00
TIME	4.50	4.59	4.50	4.50	4.50	4.55	4.48	6.00	4.43	6.00
MAX VEL	0.36	0.34	0.00	2.28	2.05	1.50	1.84	0.00	2.36	0.00
DEPTH	0.12	0.11	0.00	1.55	0.66	3.04	0.54	0.00	0.57	0.00
TIME	4.46	4.60	0.00	4.29	4.22	5.15	4.22	0.00	4.40	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	981	982	983	984	985	986	987	988	989	990
ELEVATION	1377.24	1375.87	1377.17	1377.51	1377.79	1378.11	1378.17	1379.54	1379.36	1381.95
MAX DEPTH	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00
VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
TIME	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	4.39	6.00
MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.41	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.51	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.41	0.00

NODE	991	992	993	994	995	996	997	998	999	1000
ELEVATION	1382.30	1382.65	1383.56	1383.56	1383.64	1383.65	1384.82	1385.92	1386.12	1387.69
MAX DEPTH	0.00	0.00	1.34	0.42	0.00	0.00	0.00	0.00	0.00	0.10
VELOCITY	0.00	0.00	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00
TIME	6.00	6.00	4.36	4.36	6.00	6.00	6.00	6.00	4.15	4.13
MAX VEL	0.00	0.00	1.49	1.42	0.00	0.00	0.00	0.00	0.00	0.24
DEPTH	0.00	0.00	0.41	0.21	0.00	0.00	0.00	0.00	0.00	0.10
TIME	0.00	0.00	4.73	4.50	0.00	0.00	0.00	0.00	0.00	4.15
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010
ELEVATION	1388.87	1390.39	1391.01	1366.42	1366.36	1366.45	1366.83	1367.14	1367.26	1367.53
MAX DEPTH	0.12	0.00	0.00	1.28	1.33	0.41	0.28	0.43	0.48	0.38
VELOCITY	0.29	0.00	0.00	0.00	2.76	0.79	0.92	1.13	0.77	0.90
TIME	4.07	6.00	6.00	4.77	4.77	4.74	4.36	4.71	4.67	4.42
MAX VEL	0.33	0.00	0.00	0.00	2.84	1.50	1.50	1.50	1.50	1.50
DEPTH	0.10	0.00	0.00	0.00	1.31	0.23	0.25	0.42	0.44	0.37
TIME	4.14	0.00	0.00	0.00	4.75	4.51	4.72	4.67	4.87	4.46
ST. DEPTH	0.00	0.30	0.00	0.00	1.69	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	2.18	0.00	0.00	9.45	0.00	0.00	0.00	0.00	0.00
TIME	0.00	4.01	0.00	0.00	4.75	0.00	0.00	0.00	0.00	0.00

NODE	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020
ELEVATION	1368.06	1368.42	1368.77	1369.12	1369.66	1370.16	1370.50	1369.65	1372.57	1373.29
MAX DEPTH	0.31	0.39	0.44	0.37	0.66	0.56	0.27	0.00	0.00	0.00
VELOCITY	1.21	1.32	1.40	1.05	0.99	1.13	0.74	0.00	0.00	0.00
TIME	4.60	4.53	4.51	4.40	4.50	4.50	4.50	6.00	6.00	6.00
MAX VEL	1.50	1.50	1.50	1.50	1.92	1.91	1.50	0.00	0.00	0.00
DEPTH	0.30	0.37	0.44	0.36	0.64	0.50	0.26	0.00	0.00	0.00
TIME	4.38	4.66	4.48	4.41	4.55	4.31	4.61	0.00	0.00	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030
ELEVATION	1373.46	1373.48	1373.69	1374.25	1376.98	1377.29	1375.44	1375.82	1376.28	1376.80
MAX DEPTH	3.31	0.53	0.31	0.20	0.00	0.00	0.17	0.00	0.00	0.00
VELOCITY	1.29	0.55	0.77	0.39	0.00	0.00	0.05	0.00	0.00	0.00
TIME	4.47	4.48	4.48	4.39	6.00	6.00	4.45	6.00	6.00	6.00
MAX VEL	1.48	1.50	1.50	1.36	0.00	0.00	0.05	0.00	0.00	0.00
DEPTH	2.25	0.49	0.30	0.20	0.00	0.00	0.17	0.00	0.00	0.00
TIME	5.10	4.60	4.49	4.48	0.00	0.00	4.45	0.00	0.00	0.00

ST. DEPTH	3.30	0.00	0.00	0.00	0.00	0.00	0.52	0.30	0.27	0.26
MAX STVEL	8.99	0.00	0.00	0.00	0.00	0.00	2.01	3.45	3.27	3.43
TIME	4.44	0.00	0.00	0.00	0.00	0.00	4.43	4.43	4.24	4.23

NODE	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040
ELEVATION	1377.63	1378.30	1378.76	1379.31	1379.80	1381.15	1382.55	1383.56	1383.52	1383.88
MAX DEPTH	0.00	0.00	0.10	0.07	0.00	0.00	0.00	0.52	0.00	0.00
VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
TIME	6.00	6.00	4.50	6.00	6.00	6.00	6.00	4.36	4.42	6.00
MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.47	0.00	0.00
DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.54	0.00	0.00
ST. DEPTH	0.25	0.27	0.30	0.26	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	3.70	3.51	3.13	3.44	0.00	0.00	0.00	0.00	0.00	0.00
TIME	4.23	4.42	4.42	4.41	0.00	0.00	0.00	0.00	0.00	0.00

NODE	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050
ELEVATION	1383.99	1385.70	1386.38	1388.05	1388.95	1389.18	1390.32	1392.72	1366.33	1366.14
MAX DEPTH	0.00	0.00	0.00	0.00	0.01	0.10	0.13	0.00	1.18	1.20
VELOCITY	0.00	0.00	0.00	0.00	0.00	0.23	0.33	0.00	0.00	1.89
TIME	6.00	6.00	6.00	6.00	6.00	4.04	4.02	6.00	4.77	4.73
MAX VEL	0.00	0.00	0.00	0.00	0.00	0.31	0.35	0.00	0.00	2.35
DEPTH	0.00	0.00	0.00	0.00	0.00	0.10	0.13	0.00	0.00	1.13
TIME	0.00	0.00	0.00	0.00	0.00	4.14	4.02	0.00	0.00	4.79
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.00	0.00	1.69
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	1.47	0.00	0.00	8.79
TIME	0.00	0.00	0.00	0.00	0.00	0.00	4.01	0.00	0.00	4.74

NODE	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060
ELEVATION	1366.24	1366.83	1367.16	1367.24	1367.45	1367.93	1368.40	1368.78	1369.12	1369.67
MAX DEPTH	0.56	0.44	0.81	0.71	0.61	0.57	0.64	0.66	1.02	0.58
VELOCITY	1.53	1.73	1.04	0.93	0.85	1.30	1.03	1.18	1.09	1.08
TIME	4.77	4.31	4.72	4.71	4.46	4.53	4.55	4.43	4.50	4.51
MAX VEL	1.87	1.94	1.50	1.52	1.53	1.76	1.80	1.64	1.62	1.85
DEPTH	0.50	0.41	0.63	0.54	0.48	0.48	0.53	0.51	0.99	0.50
TIME	4.92	4.63	5.16	4.27	4.26	4.95	4.97	5.02	4.36	4.82
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070
ELEVATION	1369.94	1370.53	1370.86	1373.15	1373.30	1373.35	1373.67	1373.74	1373.95	1374.91
MAX DEPTH	0.29	0.00	0.00	0.00	0.00	1.75	0.00	0.00	0.19	0.00
VELOCITY	0.76	0.00	0.00	0.00	0.00	1.02	0.00	0.00	0.21	0.00
TIME	4.52	6.00	6.00	6.00	6.00	4.48	4.56	6.00	4.62	6.00
MAX VEL	1.50	0.00	0.00	0.00	0.00	1.50	0.00	0.00	0.63	0.00
DEPTH	0.20	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.18	0.00
TIME	4.28	0.00	0.00	0.00	0.00	5.24	0.00	0.00	4.65	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	1.85	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	8.62	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	4.47	0.00	0.00	0.00	0.00

NODE	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080
ELEVATION	1375.68	1375.39	1375.41	1376.98	1377.35	1378.22	1378.32	1379.52	1379.50	1381.70
MAX DEPTH	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ST. DEPTH	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	2.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	4.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090
ELEVATION	1382.60	1383.55	1383.51	1383.74	1384.07	1384.43	1385.47	1388.08	1391.03	1391.04
MAX DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	6.00	6.00	4.42	6.00	6.00	6.00	6.00	6.00	6.00	6.00
MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100
ELEVATION	1391.11	1390.53	1394.13	1365.92	1366.04	1366.05	1366.23	1366.38	1366.47	1366.50
MAX DEPTH	0.00	0.00	0.00	1.04	1.10	0.76	1.17	1.53	1.79	1.89
VELOCITY	0.00	0.00	0.00	0.00	2.41	1.26	2.04	1.24	1.34	0.14
TIME	6.00	6.00	6.00	4.76	4.73	4.77	4.53	4.53	4.53	4.54
MAX VEL	0.00	0.00	0.00	0.00	2.48	2.14	3.01	1.83	1.84	1.44
DEPTH	0.00	0.00	0.00	0.00	1.05	0.49	1.17	1.53	1.74	1.81
TIME	0.00	0.00	0.00	0.00	4.77	4.40	4.53	4.53	4.46	4.58
ST. DEPTH	0.00	0.33	0.00	0.00	1.63	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	2.01	0.00	0.00	7.96	0.00	0.00	0.00	0.00	0.00
TIME	0.00	4.01	0.00	0.00	4.75	0.00	0.00	0.00	0.00	0.00

NODE	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110
ELEVATION	1366.50	1368.22	1368.37	1368.36	1369.10	1369.32	1368.79	1370.60	1372.13	1372.05
MAX DEPTH	1.56	1.22	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VELOCITY	0.16	1.62	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	4.52	4.51	4.50	6.00	6.00	6.00	6.00	6.00	6.00	6.00
MAX VEL	0.50	1.62	1.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DEPTH	1.04	1.22	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TIME	4.98	4.51	4.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120
ELEVATION	1373.06	1373.82	1373.76	1373.89	1375.04	1375.80	1375.18	1374.91	1376.98	1376.91
MAX DEPTH	0.42	0.00	0.00	0.11	0.00	0.00	0.04	0.00	0.00	0.00
VELOCITY	1.22	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00
TIME	4.48	6.00	6.00	4.87	6.00	6.00	6.00	6.00	6.00	6.00
MAX VEL	1.22	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00
DEPTH	0.42	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00
TIME	4.48	0.00	0.00	4.90	0.00	0.00	0.00	0.00	0.00	0.00
ST. DEPTH	0.69	0.00	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00
MAX STVEL	6.11	0.00	0.00	0.00	0.00	0.00	2.37	0.00	0.00	0.00
TIME	4.47	0.00	0.00	0.00	0.00	0.00	4.44	0.00	0.00	0.00

NODE	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140
ELEVATION	1385.97	1386.55	1389.01	1391.08	1391.11	1391.45	1391.98	1394.88	1365.69	1365.98
MAX DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.90	0.94
VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.49
TIME	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	4.76	4.76
MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.54
DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.87
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.74
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	1.47
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	3.58	0.00	0.00	6.19
TIME	0.00	0.00	0.00	0.00	0.00	0.00	3.42	0.00	0.00	4.76

NODE	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150
ELEVATION	1366.01	1365.46	1365.74	1366.47	1366.50	1366.54	1367.49	1368.00	1368.13	1368.41
MAX DEPTH	0.00	0.00	0.00	0.32	2.03	2.24	0.24	0.45	0.17	0.00
VELOCITY	0.00	0.00	0.00	0.29	0.34	0.52	0.00	1.00	0.31	0.00
TIME	6.00	6.00	6.00	4.53	4.55	4.51	4.54	4.54	4.51	6.00
MAX VEL	0.00	0.00	0.00	1.50	1.50	1.50	0.15	1.50	0.59	0.00
DEPTH	0.00	0.00	0.00	0.24	1.91	0.84	0.10	0.35	0.17	0.00
TIME	0.00	0.00	0.00	4.63	4.42	3.92	4.14	5.04	4.54	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160
ELEVATION	1369.60	1370.40	1371.45	1373.63	1373.24	1372.35	1373.63	1373.65	1373.56	1375.44
MAX DEPTH	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.04	0.00	0.00
VELOCITY	0.00	0.00	0.00	0.00	0.00	1.39	0.00	0.00	0.00	0.00
TIME	6.00	6.00	6.00	6.00	6.00	4.48	6.00	4.95	6.00	6.00
MAX VEL	0.00	0.00	0.00	0.00	0.00	1.39	0.00	0.00	0.00	0.00
DEPTH	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	4.48	0.00	0.00	0.00	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	6.46	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	4.48	0.00	0.00	0.00	0.00

NODE	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170
ELEVATION	1376.00	1375.04	1375.70	1378.00	1378.51	1379.39	1380.68	1382.38	1382.47	1384.05
MAX DEPTH	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ST. DEPTH	0.00	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	2.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	4.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190
ELEVATION	1391.59	1393.52	1398.54	1365.48	1365.91	1366.07	1365.70	1365.51	1366.47	1366.51
MAX DEPTH	0.00	0.00	0.00	0.71	0.79	0.10	0.00	0.00	1.64	2.31
VELOCITY	0.00	0.00	0.00	0.00	2.33	0.00	0.00	0.00	1.67	1.30
TIME	6.00	6.00	6.00	4.76	4.73	4.57	6.00	6.00	4.51	4.51
MAX VEL	0.00	0.00	0.00	0.00	2.38	0.20	0.00	0.00	1.88	2.20
DEPTH	0.00	0.00	0.00	0.00	0.75	0.10	0.00	0.00	1.60	2.17
TIME	0.00	0.00	0.00	0.00	4.75	4.57	0.00	0.00	4.57	4.67
ST. DEPTH	0.00	0.22	0.00	0.00	1.32	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	3.54	0.00	0.00	5.46	0.00	0.00	0.00	0.00	0.00
TIME	0.00	3.40	0.00	0.00	4.75	0.00	0.00	0.00	0.00	0.00

NODE	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200
ELEVATION	1366.56	1367.36	1367.43	1367.61	1368.36	1368.77	1370.36	1371.24	1372.74	1372.80
MAX DEPTH	1.25	0.10	0.20	0.20	0.00	0.00	0.00	0.00	0.00	0.00
VELOCITY	0.51	0.00	0.49	0.40	0.00	0.00	0.00	0.00	0.00	0.00
TIME	4.51	4.69	4.48	4.51	6.00	6.00	6.00	6.00	6.00	6.00
MAX VEL	1.88	0.32	0.65	1.13	0.00	0.00	0.00	0.00	0.00	0.00
DEPTH	1.19	0.10	0.20	0.20	0.00	0.00	0.00	0.00	0.00	0.00
TIME	4.55	5.08	4.67	4.48	0.00	0.00	0.00	0.00	0.00	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210
ELEVATION	1371.01	1373.25	1373.51	1373.56	1375.22	1375.94	1374.93	1375.90	1378.08	1378.58
MAX DEPTH	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VELOCITY	1.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	4.48	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
MAX VEL	1.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

DEPTH	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	4.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ST. DEPTH	0.67	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00
MAX STVEL	5.56	0.00	0.00	0.00	0.00	0.00	3.18	0.00	0.00	0.00
TIME	4.48	0.00	0.00	0.00	0.00	0.00	4.44	0.00	0.00	0.00

NODE	1221	1222	1223	1224	1225	1226	1227	1228	1229	1230
ELEVATION	1388.11	1389.65	1390.83	1391.76	1392.01	1391.85	1395.34	1398.31	1365.40	1365.94
MAX DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.49
VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.21
TIME	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	4.76	4.76
MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50
DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.83
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.98
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	3.64	0.00	0.00	3.71
TIME	0.00	0.00	0.00	0.00	0.00	0.00	3.37	0.00	0.00	4.76

NODE	1231	1232	1233	1234	1235	1236	1237	1238	1239	1240
ELEVATION	1366.12	1366.24	1366.35	1366.45	1366.53	1366.61	1366.79	1367.02	1367.19	1367.42
MAX DEPTH	1.27	1.90	2.37	2.21	1.41	0.81	0.63	0.61	0.59	0.53
VELOCITY	2.95	2.38	2.41	2.88	2.06	1.54	2.13	2.26	2.05	1.41
TIME	4.55	4.55	4.50	4.57	4.51	4.51	4.49	4.48	4.48	4.47
MAX VEL	2.95	3.40	3.83	4.27	3.99	2.31	2.98	3.10	2.64	2.73
DEPTH	1.27	1.87	2.30	2.14	0.49	0.75	0.49	0.60	0.58	0.50
TIME	4.55	4.49	4.55	4.49	3.91	4.45	4.36	4.47	4.46	4.41
ST. DEPTH	0.00	0.00	0.00	0.00	1.99	1.33	1.07	0.99	0.98	0.92
MAX STVEL	0.00	0.00	0.00	0.00	0.00	4.31	4.70	5.02	5.05	5.42
TIME	0.00	0.00	0.00	0.00	4.51	4.51	4.51	4.48	4.48	4.46

NODE	1241	1242	1243	1244	1245	1246	1247	1248	1249	1250
ELEVATION	1367.76	1368.11	1368.49	1369.00	1369.56	1365.41	1366.02	1365.98	1366.07	1367.32
MAX DEPTH	0.51	0.51	0.50	0.48	0.48	0.19	0.10	0.18	1.07	0.00
VELOCITY	1.46	1.22	1.25	1.54	1.29	0.00	0.00	0.20	0.50	0.00
TIME	4.47	4.47	4.46	4.45	4.45	4.76	4.76	4.55	4.55	6.00
MAX VEL	2.09	2.03	1.88	1.80	1.76	0.00	0.20	0.20	1.48	0.00
DEPTH	0.50	0.50	0.50	0.47	0.48	0.00	0.10	0.18	1.06	0.00
TIME	4.46	4.47	4.45	4.44	4.45	0.00	4.76	4.55	4.52	0.00
ST. DEPTH	0.86	0.84	0.82	0.76	0.73	0.00	0.51	0.00	0.00	0.00
MAX STVEL	5.85	6.00	6.18	6.67	6.91	0.00	1.59	0.00	0.00	0.00
TIME	4.45	4.45	4.45	4.45	4.45	0.00	4.76	0.00	0.00	0.00

NODE	1261	1262	1263	1264	1265	1266	1267	1268	1269	1270
ELEVATION	1370.22	1370.44	1365.46	1366.01	1366.49	1367.13	1367.32	1367.82	1368.10	1367.89
MAX DEPTH	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	6.00	6.00	4.76	4.85	6.00	6.00	6.00	6.00	6.00	6.00
MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	1271	1272	1273	1274	1275	1276	1277	1278	1279	1280
ELEVATION	1368.27	1368.10	1368.22	1368.12	1368.90	1365.34	1365.92	1366.46	1367.08	1367.45
MAX DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	1291	1292	1293	1294	1295	1296	1297	1298	1299	1300
ELEVATION	1367.85	1368.22	1365.44	1365.82	1366.44	1365.86	1366.04	1366.95	1368.21	1370.29
MAX DEPTH	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.29
VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.04
TIME	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	4.45
MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.41
DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.66
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.17
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.45

NODE	1301	1302	1303	1304	1305	1306	1307	1308	1309	1310
ELEVATION	1370.60	1371.30	1371.90	1373.00	1373.60	1374.60	1375.40	1365.55	1365.77	1366.52
MAX DEPTH	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00
VELOCITY	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00
TIME	4.45	6.00	6.00	6.00	6.00	6.00	6.00	4.12	6.00	6.00
MAX VEL	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00
DEPTH	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00
TIME	4.45	0.00	0.00	0.00	0.00	0.00	0.00	4.44	0.00	0.00
ST. DEPTH	0.39	0.26	0.31	0.27	0.30	0.24	0.00	0.00	0.00	0.00
MAX STVEL	2.30	3.52	3.34	3.92	3.25	3.86	0.00	0.00	0.00	0.00
TIME	4.45	4.45	4.31	4.30	4.45	4.29	0.00	0.00	0.00	0.00

NODE	1311	1312	1313	1314	1315	1316	1317	1318	1319	1320
ELEVATION	1367.21	1367.38	1367.52	1367.82	1365.55	1365.51	1366.29	1367.15	1367.17	1367.25
MAX DEPTH	0.00	0.00	0.00	0.00	0.48	0.01	0.00	0.00	0.00	0.00
VELOCITY	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00
TIME	6.00	6.00	6.00	6.00	4.12	6.00	6.00	6.00	6.00	6.00

MAX VEL	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.00	0.00
DEPTH	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	4.05	0.00	0.00	0.00	0.00	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	1321	1322	1323	1324	1325	1326	1327	1328	1329	1330
ELEVATION	1366.98	1365.54	1365.61	1366.16	1367.25	1366.80	1367.00	1366.71	1365.51	1365.63
MAX DEPTH	0.00	0.56	0.34	0.00	0.00	0.00	0.00	0.00	0.55	0.60
VELOCITY	0.00	0.56	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.89
TIME	6.00	4.11	4.11	6.00	6.00	6.00	6.00	6.00	4.10	4.10
MAX VEL	0.00	1.37	0.36	0.00	0.00	0.00	0.00	0.00	0.00	1.48
DEPTH	0.00	0.43	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.55
TIME	0.00	3.98	4.13	0.00	0.00	0.00	0.00	0.00	0.00	4.15
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	1331	1332	1333	1334	1335	1336	1337	1338	1339	1340
ELEVATION	1365.82	1366.31	1366.37	1366.09	1366.41	1365.47	1365.90	1365.89	1365.81	1365.92
MAX DEPTH	0.28	0.00	0.00	0.00	0.00	0.83	0.75	0.35	0.16	0.00
VELOCITY	0.96	0.00	0.00	0.00	0.00	0.00	2.42	0.62	0.08	0.00
TIME	4.10	6.00	6.00	6.00	6.00	4.06	4.06	4.05	4.14	6.00
MAX VEL	1.49	0.00	0.00	0.00	0.00	0.00	2.45	1.50	0.51	0.00
DEPTH	0.21	0.00	0.00	0.00	0.00	0.00	0.73	0.35	0.16	0.00
TIME	4.18	0.00	0.00	0.00	0.00	0.00	4.04	4.04	4.17	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	1341	1342	1343	1344	1345	1346	1347	1348	1349	1350
ELEVATION	1366.24	1366.79	1366.18	1366.19	1366.72	1367.68	1369.24	1366.47	1366.49	1367.18
MAX DEPTH	0.00	0.00	1.34	0.66	0.00	0.00	0.00	1.39	0.87	0.00
VELOCITY	0.00	0.00	4.73	2.66	0.00	0.00	0.00	3.80	2.69	0.00
TIME	6.00	6.00	4.03	4.05	6.00	6.00	6.00	4.04	4.05	6.00
MAX VEL	0.00	0.00	4.76	3.69	0.00	0.00	0.00	4.10	4.10	0.00
DEPTH	0.00	0.00	1.32	0.64	0.00	0.00	0.00	1.36	0.85	0.00
TIME	0.00	0.00	4.04	4.06	0.00	0.00	0.00	4.04	4.03	0.00
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	1351	1352	1353	1354	1355	1356	1357	1358	1359	1360
ELEVATION	1368.46	1368.97	1366.69	1366.66	1366.63	1366.55	1367.15	1366.91	1366.85	1366.94
MAX DEPTH	0.00	0.00	1.41	0.78	0.98	0.13	0.00	1.43	0.73	0.16
VELOCITY	0.00	0.00	3.20	2.44	1.95	0.10	0.00	3.33	2.19	0.26
TIME	6.00	6.00	4.05	4.04	4.05	4.15	6.00	4.04	4.05	4.10
MAX VEL	0.00	0.00	4.76	3.11	2.38	0.36	0.00	5.04	3.24	0.31
DEPTH	0.00	0.00	1.29	0.75	0.97	0.13	0.00	1.36	0.73	0.10
TIME	0.00	0.00	4.03	4.03	4.03	4.18	0.00	4.03	4.05	4.15
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	1361	1362	1363	1364	1365	1366	1367	1368	1369	1370
ELEVATION	1367.27	1367.13	1367.14	1367.51	1367.86	1367.32	1367.37	1367.47	1367.48	1367.45
MAX DEPTH	0.00	1.46	0.80	0.00	0.00	1.45	0.87	0.53	0.22	1.39
VELOCITY	0.00	3.60	2.59	0.00	0.00	2.54	2.68	1.24	0.18	1.87
TIME	6.00	4.06	4.04	6.00	6.00	4.06	4.04	4.04	4.06	4.07
MAX VEL	0.00	5.41	3.96	0.00	0.00	4.83	3.96	1.90	0.65	3.29
DEPTH	0.00	1.38	0.77	0.00	0.00	1.27	0.84	0.50	0.21	1.28
TIME	0.00	4.02	4.03	0.00	0.00	3.96	4.03	4.11	4.09	4.08
ST. DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	1371	1372	1373
ELEVATION	1367.73	1367.50	1367.48
MAX DEPTH	1.01	1.01	0.35
VELOCITY	3.48	1.14	0.11
TIME	4.02	4.03	4.06
MAX VEL	5.15	1.82	1.40
DEPTH	0.97	0.95	0.30
TIME	4.07	4.12	4.13
ST. DEPTH	0.00	0.00	0.00
MAX STVEL	0.00	0.00	0.00
TIME	0.00	0.00	0.00

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MAXIMUM WATER SURFACE VALUES FOR CHANNEL

NODE	553	552	551	595	594	593	592	591	635	634
ELEVATION	1388.00	1387.90	1387.45	1385.85	1385.73	1385.34	1384.66	1384.34	1384.19	1383.91
MAX DEPTH	2.90	4.90	6.25	4.85	4.93	4.74	4.18	4.04	4.79	5.21
TIME	4.25	4.26	4.26	4.27	4.27	4.27	4.29	4.29	4.31	4.30
MAX VEL	10.78	8.75	7.83	6.09	4.72	5.05	5.17	3.09	3.43	3.80
TIME	4.25	4.27	4.26	4.07	4.16	4.20	4.13	4.18	4.05	4.05

NODE	633	677	721	765	764	763	762	806	850	849
ELEVATION	1383.57	1382.69	1381.12	1380.23	1379.98	1379.72	1379.16	1378.57	1378.18	1377.69
MAX DEPTH	4.87	3.99	3.62	4.27	4.80	4.72	4.42	4.12	4.38	4.69

TIME	4.33	4.36	4.34	4.33	4.32	4.33	4.34	4.36	4.42	4.40
MAX VEL	4.66	5.14	4.93	4.80	3.03	3.78	4.21	3.94	4.40	3.79
TIME	4.07	4.35	4.35	4.36	4.32	4.33	4.24	4.11	4.06	4.09

NODE	893	892	936	935	934	933	977	976	975	974
ELEVATION	1377.43	1376.36	1375.57	1375.08	1374.77	1374.15	1373.75	1373.56	1373.48	1373.29
MAX DEPTH	4.43	3.80	4.02	4.68	4.77	4.55	4.50	4.56	4.86	4.99
TIME	4.38	4.40	4.39	4.41	4.41	4.45	4.50	4.45	4.50	4.50
MAX VEL	4.78	4.60	4.19	3.73	4.59	4.93	5.28	2.88	4.18	4.63
TIME	4.38	4.36	4.36	4.37	4.25	4.18	4.17	4.21	4.18	4.17

NODE	973	1017	1016	1015	1059	1103	1147	1146	1190	1189
ELEVATION	1373.09	1370.60	1370.35	1369.79	1369.26	1368.59	1367.19	1366.65	1366.55	1366.37
MAX DEPTH	5.39	3.27	3.45	3.39	3.56	3.89	2.74	2.55	2.55	2.44
TIME	4.50	4.50	4.50	4.50	4.50	4.51	4.52	4.51	4.51	4.51
MAX VEL	7.46	4.42	4.17	3.56	3.51	5.31	5.96	2.24	2.26	2.96
TIME	4.50	4.43	4.34	4.46	4.46	4.30	5.04	4.32	4.33	4.42

NODE	1233	1249	1248	1264	1276	472	473	474	475	791
ELEVATION	1366.21	1365.80	1365.26	1365.23	1364.76	1370.91	1370.96	1371.01	1371.03	1370.23
MAX DEPTH	2.43	3.10	3.26	3.92	3.92	2.41	2.56	3.01	3.53	3.19
TIME	4.50	4.55	4.55	4.55	4.55	4.61	4.62	4.63	4.63	4.62
MAX VEL	4.20	6.73	5.78	7.76	0.00	0.27	0.01	0.02	0.00	2.27
TIME	4.00	4.04	4.12	4.55	0.00	4.52	4.48	4.45	0.00	4.45

NODE	790	789	788	787	785	784	783	782
ELEVATION	1370.21	1370.17	1370.15	1370.14	1367.41	1367.36	1367.35	1367.34
MAX DEPTH	3.18	3.15	3.14	3.14	1.91	1.96	2.05	2.14
TIME	4.62	4.62	4.62	4.63	4.69	4.71	4.71	4.70
MAX VEL	2.98	3.23	3.04	0.00	2.96	2.83	2.76	0.00
TIME	4.43	4.44	4.44	0.00	4.50	4.50	4.51	0.00

MASS BALANCE INFLOW - OUTFLOW VOLUME

*** INFLOW (ACRE-FEET) ***

	WATER
INFLOW HYDROGRAPH	67.50

*** OUTFLOW (ACRE-FT) ***

OVERLAND FLOW	WATER
FLOODPLAIN STORAGE	6.61
STREET STORAGE	1.31
FLOODPLAIN OUTFLOW HYDROGRAPH (W/STREETS)	32.30
FLOODPLAIN OUTFLOW AND STORAGE	40.23

CHANNEL FLOW	
CHANNEL STORAGE	0.53
CHANNEL OUTFLOW	26.74
CHANNEL OUTFLOW AND STORAGE	27.27

*** TOTALS ***

TOTAL OUTFLOW FROM GRID SYSTEM 59.04

TOTAL VOLUME OF OUTFLOW AND STORAGE 67.50

THE MAXIMUM INUNDATED AREA IS: 34.33 ACRES

THE MAXIMUM WETTED FLOODPLAIN AREA IS: 32.89 ACRES

THE MAXIMUM WETTED CHANNEL AREA IS: 1.45 ACRES

COMPUTER RUN TIME IS : 292.96 SECS

COMMENTS: □□

THIS OUTPUT FILE WAS TERMINATED ON: 9/12/2003 AT: 9:55:59

Appendix F

Grading and Drainage Plans for MVCC

JE FULLER
HYDROLOGY & GEOMORPHOLOGY, INC
6101 South Rural Road, Suite 110, Tempe, Arizona 85283

GRADING & DRAINAGE PLAN
FOR
MOON VALLEY CORPORATE CENTER
14001 NORTH 7TH STREET, PHOENIX, ARIZONA 85022

CIVIL NOTES
(APPLY UNLESS OTHERWISE NOTED ON CIVIL DRAWINGS)

G&A GENERAL

1. IF THE CONTRACTOR FINDS ANY DISCREPANCY OR OMISSION, THE ENGINEER SHALL BE NOTIFIED BEFORE ANY INTERPRETATION IS MADE.
2. QUANTITIES SHOWN ARE FOR PERMIT PURPOSES ONLY AND ARE NOT FOR BIDDING OR CONTRACTING PURPOSES. THE CONTRACTOR IS RESPONSIBLE FOR BIDDING HIS OWN QUANTITY TAKE-OFF.
3. THE BUILDING MATERIALS CONTAINING ASBESTOS WILL NOT BE USED ON THIS PROJECT.
4. THE CONTRACTOR SHALL MAKE NO CLAIM FOR QUANTITY ADJUSTMENT UNLESS ALL CONSTRUCTION SURVEY STAKES ARE MAINTAINED FOR VERIFICATION.
5. NOTHING IN THE CONTRACT DOCUMENTS SHALL CREATE ANY CONTRACTURAL RELATIONSHIP BETWEEN THE ENGINEER AND THE CONTRACTOR OR THE ENGINEER AND THE SUBCONTRACTOR.
6. THE ENGINEER WILL NOT BE RESPONSIBLE FOR CONSTRUCTION OR SAFTEY MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES UTILIZED IN CONNECTION BY THE CONTRACTOR OR SUBCONTRACTORS.
7. CHANGE ORDERS SHALL BE EXECUTED IN WRITING BY THE OWNER OR HIS REPRESENTATIVE. VERBAL CHANGES WILL NOT BE HONORED.
8. SEE ARCHITECTURAL DRAWINGS FOR ALL ON-SITE:
   A. DIMENSIONS AND BUILDING LOCATIONS.
   B. DETAILS AND LOCATION OF CURBS AND SIDEWALKS.
   C. PARKING LOT LAYOUT.
9. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL EXISTING UNDERGROUND UTILITY FACILITIES BOTH HORIZONTALLY AND VERTICALLY PRIOR TO CONSTRUCTION AND TAKE ALL NECESSARY PRECAUTIONS TO AVOID ANY DAMAGE TO EXISTING UNDERGROUND FACILITIES. CALL BLUE STAKE CENTER (602-263-1100) OR A PRIVATE UNDERGROUND UTILITY LOCATION COMPANY 48 HOURS PRIOR TO EXCAVATING. THE ENGINEER AND/OR OWNER CANNOT GUARANTEE ANY ELEVATIONS OR LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THESE PLANS.
10. UTILITY COMPANIES SERVING THIS AREA ARE:
    WATER: CITY OF PHOENIX
    SEWER: CITY OF PHOENIX
    TELEPHONE: QWEST
    ELECTRIC: ARIZONA PUBLIC SERVICE
    GAS: SOUTHWEST GAS
    CABLE TV: COX COMMUNICATIONS
11. LOCATION OF THE IRRIGATION SYSTEM IS THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR WILL BE RESPONSIBLE FOR ALL DAMAGES AT HIS COST.
12. THE TOPO INFORMATION SHOWN ON THIS DRAWING WAS OBTAINED FROM AN ALTA SURVEY PREPARED BY: GERVASIO & ASSOCIATES, INC., 4527 N. 16TH STREET, STE. 200, PHOENIX, AZ 85016, (602) 285-1720.
13. THE BOUNDARY INFORMATION SHOWN ON THIS DRAWING WAS OBTAINED FROM AN ALTA SURVEY PREPARED BY: GERVASIO & ASSOCIATES, INC., 4527 N. 16TH STREET, STE. 200, PHOENIX, AZ 85016, (602) 285-1720.
14. THE TOPOGRAPHIC INFORMATION SHOWN ON THIS DRAWING WAS OBTAINED FROM A TOPOGRAPHIC SURVEY PREPARED BY: GERVASIO & ASSOCIATES, INC., 4527 N. 16TH STREET, STE. 200, PHOENIX, AZ 85016, (602) 285-1720.
15. THE CONTRACTOR SHALL VISIT THE SITE TO VERIFY THE SITE SURVEY INFORMATION AND OBSERVE ANY CHANGES.
16. ROOF DRAINS: THE CONTRACTOR MUST VERIFY ALL ROOF DRAINS AND OVERFLOW DRAIN CONNECTIONS WITH THE PLUMBING CONTRACTOR.
17. TOP OF WALL ELEVATIONS ARE SHOWN ONLY FOR CITY PERMIT PURPOSES. SEE ARCHITECTURAL DRAWINGS FOR CONSTRUCTION OF SITE WALLS.

G&A GRADING & DRAINAGE

1. SOIL REPORT #2126JE394 BY WESTERN TECHNOLOGIES INC., DATED NOVEMBER 15, 1996, PROVIDED BY OWNER.
2. SUBGRADE SOIL PREPARATION, SITE GRADING, FILL AND COMPACTION SHALL CONFORM TO MAG SECTION 301, EXCEPT AS MODIFIED BY THE SOILS REPORT.
3. FOUNDATIONS ARE DESIGNED FOR DRY CONDITIONS AND MUST REMAIN DRY DURING AND AFTER CONSTRUCTION.
4. ALL DEBRIS AND EXCESS EXCAVATION SHALL BE REMOVED FROM THE SITE.
5. NO IMPORTED MATERIAL SHALL BE INCORPORATED INTO THE PROJECT WITHOUT PRIOR TESTING AND APPROVAL BY A GEO TECHNICAL ENGINEER. ALL IMPORT MATERIAL MUST BE TESTED FOR ENVIRONMENTAL CONTAMINATION.
6. THE SITE SHALL BE GRADED TO A SURFACE WHICH IS REASONABLY SMOOTH, COMPACTED AND FREE FROM IRREGULAR SURFACE CHANGES.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADJUSTMENT TO FINISH GRADE OF ALL UTILITY VALVE COVERS, CLEANOUTS AND MANHOLE CASTINGS.
8. ALL WALKWAYS AND/OR A.C. PAVING LOCATED FIVE (5) FEET FROM BUILDINGS WILL BE CONSTRUCTED 0.1 FEET BELOW FINISHED FLOORS UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL PLANS FOR THIS FIVE (5) FEET AND BUILDING CONDITIONS.
9. THE FOLLOWING MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) SPECIFICATION SHALL APPLY TO THE GRADING & DRAINAGE PLANS UNLESS OTHERWISE NOTED:
   A. ASPHALTIC PAVEMENT PER MAG SPEC. 321, 710, & 711 (R19 MM OR C-3/4 MIX DESIGN).
   B. BITUMINOUS PRIME COAT PER MAG SPEC. 315.
   C. BITUMINOUS TACK COAT PER MAG SPEC. 321.4.
   D. BASE COURSE PER M.A.G. SPEC. 310 & 702.2 (A25mm)
   E. SAWCUT AND REMOVAL PER M.A.G. SPEC. 336.
   F. CONCRETE PAVEMENT PER MAG SPEC. 725.
10. RELOCATE ITEMS PER MAG SPEC. 350. CONTRACTOR RESPONSIBLE FOR FEES AND RELOCATION COSTS.
11. SPOT ELEVATION SHOWN ON PLANS ARE FINISHED SURFACE ELEVATIONS.
12. ALL ELEVATIONS SHOWN ON DETAIL CUT SECTIONS ARE AT LOCATION INDICATED ON DRAWINGS. SEE SPOT ELEVATIONS ON PLANS FOR OTHER LOCATIONS.

CITY OF PHOENIX GRADING & DRAINAGE NOTES

(RECEIVED BY G&A ON 09/01/02)

1. A GRADING PERMIT IS REQUIRED UNDER CHAPTER 32A OF THE PHOENIX CITY CODE.
2. HAUL PERMITS, WHEN REQUIRED, MUST BE OBTAINED PRIOR TO OR CONCURRENTLY WITH THE GRADING AND DRAINAGE PERMIT.
3. EXCAVATING CONTRACTOR MUST GIVE LOCATION FOR WASTING EXCESS EXCAVATION AND A LETTER FROM OWNER GIVING PERMISSION FOR DUMPING PRIOR TO STARTING ON-SITE CONSTRUCTION. IF EXCESS EXCAVATION EXCEEDS 100 CUBIC YARDS, THE DISPOSAL SITE WILL ALSO REQUIRE A GRADING AND DRAINAGE PERMIT.
4. DEVELOPMENT SERVICES DEPARTMENT FIELD INSPECTION GROUP SHALL BE NOTIFIED 48 HOURS BEFORE ANY ON-SITE AND/OR OFF-SITE CONSTRUCTION BEGINS, TELEPHONE (602) 262-7811.
5. MINIMUM FINISH FLOOR ELEVATIONS SHOWN ARE SAFE FROM THE 100-YEAR FLOOD OR PER MINIMUM SPECIFIED IN THE CITY OF PHOENIX STORM DRAIN DESIGN MANUAL, WHICHEVER IS GREATER.
6. A FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) "ELEVATION CERTIFICATE" MUST BE COMPLETED FOR EACH STRUCTURE CONSTRUCTED IN A SPECIAL FLOOD HAZARD AREA (SFHA) PRIOR TO AN ELECTRICAL CLEARANCE FOR THAT STRUCTURE. ONE COPY OF THE "ELEVATION CERTIFICATE" IS TO BE SUBMITTED TO THE GENERAL BUILDING SAFETY INSPECTOR ON SITE AND ONE COPY IS TO BE SUBMITTED TO THE CITY OF PHOENIX FLOOD PLAIN MANAGER.
7. PAD CERTIFICATIONS WILL BE REQUIRED ON ALL PADS WITHIN THE DEVELOPMENT AND SUBMITTED TO THE CIVIL/SITE INSPECTOR PRIOR TO ANY CONCRETE CONSTRUCTED IN THE RIGHT-OF-WAY. PAD CERTIFICATION CAN BE SUBMITTED TO THE CIVIL/SITE INSPECTOR BY EITHER SUBMITTING ONE APPROVED BLACK-LINE AS-BUILT GRADING AND DRAINAGE PLAN OR IN LETTER FORMAT SHOWING THE DESIGN AND AS-BUILT PAD ELEVATIONS AS SHOWN ON THE APPROVED GRADING AND DRAINAGE PLAN. IT IS REQUIRED THAT THE AS-BUILT PLAN AND LETTER BE SEALED BY A CIVIL ENGINEER OR LAND SURVEYOR REGISTERED IN THE STATE OF ARIZONA.

CITY OF PHOENIX GRADING & DRAINAGE NOTES (CONTINUED)

8. STAKING FINISH FLOOR ELEVATIONS IS THE RESPONSIBILITY OF THE OWNER AND HIS ENGINEER. THE OWNER'S ENGINEER SHALL SUBMIT THREE SEALED COPIES OF THIS GRADING AND DRAINAGE PLAN DESIGNATED AS "RECORD DRAWING" (BEARING AN ORIGINAL SIGNATURE) PRIOR TO THE REQUEST FOR FINAL INSPECTION.
9. A SEPARATE PERMIT IS NECESSARY FOR ANY OFF-SITE CONSTRUCTION.
10. AN APPROVED GRADING AND DRAINAGE PLAN SHALL BE ON THE JOB SITE AT ALL TIMES. DEVIATIONS FROM THE PLAN MUST BE PRECEDED BY AN APPROVED PLAN REVISION.
11. GRADING AND DRAINAGE PLAN APPROVAL INCLUDES THE CONSTRUCTION OF OF ALL SURFACE IMPROVEMENTS SHOWN ON THE APPROVED PLAN, INCLUDING, BUT NOT LIMITED TO, RETENTION AREAS, SEDIMENTATION BASINS, AND/OR OTHER DRAINAGE FACILITIES, DRAINAGE PATTERNS, WALLS, CURBS, ASPHALT PAVEMENT, AND BUILDING FLOOR ELEVATION.
12. CONTRACTOR SHALL PROVIDE LEVEL BOTTOM IN ALL RETENTION BASINS AT ELEVATIONS SHOWN ON THE PLANS. SLOPE PROTECTION SHALL BE APPLIED TO PREVENT EROSION.
13. GRADES SHOWN IN RETENTION BASINS ARE DESIGN FINISHED GRADES. SHOULD THE CONTRACTOR OR ANY SUBCONTRACTOR PLAN TO PLACE SPOIL DIRT FROM FOOTINGS, UTILITY TRENCHES, LANDSCAPING, SWIMMING POOLS, ETC. IN THE BASINS, THEN THE BASINS SHOULD BE SUFFICIENTLY OVER-EXCAVATED DURING THE ROUGH GRADING OPERATION TO ALLOW FOR THE PLACEMENT OF THE FILL OR LANDSCAPING MATERIALS.
14. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND CONFIRMING DEPTHS OF ALL THE EXISTING UTILITY LINES WITHIN PROPOSED RETENTION BASIN AREAS. IF THE BASIN CANNOT BE CONSTRUCTED PER PLAN BECAUSE OF CONFLICTS, THE CONTRACTOR SHOULD DISCUSS MODIFICATION OF BASIN CONFIGURATION WITH THE CITY INSPECTOR TO DETERMINE IF A PLAN REVISION OR A FIELD CHANGE IS REQUIRED.
15. ALL DRAINAGE PROTECTIVE DEVICES SUCH AS SWALES, INTERCEPTOR DITCHES, PIPES, PROTECTIVE BERMS, BARRIER WALLS, CONCRETE CHANNELS, OR OTHER MEASURES DESIGNED TO PROTECT ADJACENT BUILDINGS OR PROPERTY FROM STORM RUNOFF MUST BE COMPLETED PRIOR TO BUILDING CONSTRUCTION.
16. RETENTION BASIN SIDE SLOPES SHALL BE A MAXIMUM OF 4:1 UNLESS APPROVAL IS RECEIVED FROM THE PLAN REVIEWER FOR A STEEPER SLOPE.
17. REQUIRED RETAINING WALLS SHOWN ON THE GRADING AND DRAINAGE PLANS ARE TO BE REVIEWED, PERMITTED, AND INSPECTED BY THE BUILDING SAFETY BRANCH OF THE DEVELOPMENT SERVICES DEPARTMENT.
18. CERTIFICATE OF OCCUPANCY (C. OF O.) AND/OR FINAL ELECTRICAL CLEARANCE FOR ANY BUILDING IS DENIED UNTIL ALL GRADING AND DRAINAGE IMPROVEMENTS ARE COMPLETED.
19. EXISTING OR NEWLY DAMAGED AND/OR DISPLACED CONCRETE CURB, GUTTER, SIDEWALK, OR DRIVEWAY SLAB THAT IS WITHIN THE RIGHT-OF-WAY SHALL BE REPAIRED OR REPLACED, AS NOTED BY CITY INSPECTORS, BEFORE FINAL ACCEPTANCE OF THE WORK.
20. THE ENGINEERING DESIGN ON THESE PLANS ARE ONLY APPROVED BY THE CITY IN SCOPE AND NOT IN DETAIL. CONSTRUCTION QUANTITIES ON THESE PLANS ARE NOT VERIFIED BY THE CITY. APPROVAL OF THESE PLANS ARE FOR PERMIT PURPOSES ONLY AND SHALL NOT PREVENT THE CITY FROM REQUIRING CORRECTION OF ERRORS IN THE PLANS WHERE SUCH ERRORS ARE SUBSEQUENTLY FOUND TO BE IN VIOLATION OF ANY LAW, ORDINANCE, HEALTH, SAFETY, OR OTHER DESIGN ISSUES.
21. THE CITY OF PHOENIX POLICE DEPARTMENT ENFORCES LAWS REGULATING THE OPERATION OF COMMERCIAL VEHICLES. THIS INCLUDES ENFORCEMENT OF FEDERAL, STATE, COUNTY AND LOCAL LAWS AND ORDINANCES. QUESTION REGARDING COMMERCIAL VEHICLE ENFORCEMENT MAY BE DIRECTED TO THE COMMERCIAL VEHICLE ENFORCEMENT SUPERVISOR AT (602) 495-7813.
22. CONSTRUCTION WITHIN THE RIGHT-OF-WAY SHALL CONFORM TO THE LATEST APPLICABLE MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) UNIFORM STANDARD SPECIFICATIONS AND DETAILS AND THE LATEST CITY OF PHOENIX SUPPLEMENT TO THE MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS.
23. PLAN APPROVAL IS VALID FOR TWELVE (12) MONTHS. IF APPROVAL EXPIRES, THE PLANS MUST BE RESUBMITTED FOR CITY UPDATE REVIEW AND APPROVAL.
24. COMPACTION SHALL COMPLY WITH M.A.G. SECTION 601.
25. OBSTRUCTIONS TO PROPOSED IMPROVEMENTS IN THE RIGHT-OF-WAY SHALL BE REMOVED OR RELOCATED BEFORE BEGINNING CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
26. THE ACTUAL POINT OF PAVEMENT MATCHING AND/OR TERMINATION SHALL BE DETERMINED IN THE FIELD BY THE CITY OF PHOENIX, DEVELOPMENT SERVICES DEPARTMENT FIELD INSPECTOR.
27. ALL RAMPS MUST MEET ADA ACCESSIBILITY GUIDELINES (ADAAG) STANDARDS; 2% MAX CROSS SLOPES AND 12:1 MAX LONGITUDINAL SLOPES. TRUNCATED DOMES AS DETECTABLE WARNINGS ARE REQUIRED ON ALL RAMPS PER ADAAG SECTION 4.7.7. TRUNCATED DOMES AS DETECTABLE WARNINGS ARE ALSO REQUIRED ON ALL WALKS THAT CROSS OR ADJOIN A VEHICULAR WAY PER ADAAG SECTION 4.29.5.
28. CONTRACTOR MUST WORK TO ACCOMODATE AND COORDINATE EXISTING DRAINAGE PATTERNS FROM ADJACENT PROPERTIES.

CITY OF PHOENIX FLOOD PLAN NOTES

01/06/03 BY G&A (AS RECEIVED FROM C.O.P.)

1. A FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) "ELEVATION CERTIFICATE" MUST BE COMPLETED FOR EACH STRUCTURE CONSTRUCTED IN A SPECIAL FLOOD HAZARD AREA (SFHA) PRIOR TO AN ELECTRICAL CLEARANCE FOR THAT STRUCTURE. ONE COPY OF THE "ELEVATION CERTIFICATE" IS TO BE SUBMITTED TO THE GENERAL BUILDING SAFETY INSPECTOR ON SITE AND ONE COPY IS TO BE SUBMITTED TO THE CITY OF PHOENIX FLOOD PLAIN MANAGER.

DRYWELL REQUIREMENTS

1. THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR REGISTERING THE DRYWELL(S) SHOWN ON GRADING & DRAINAGE (G&D) PLAN(S) WITH THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY (A.D.E.Q.). FOR INFORMATION ABOUT SPECIFIC REQUIREMENTS, CONTACT THE WATER PERMITS UNIT AT 602-207-4686. AN "AQUIFIER PROTECTION PERMIT" MAY BE REQUIRED BY A.D.E.Q. FOR DRYWELL(S) DEEMED TO BE HAZARDOUS TO GROUNDWATER.
2. IF REQUESTED BY THE OWNER/DEVELOPER, GERVASIO & ASSOC., INC. WILL PERFORM THE SERVICES FOR REGISTERING THE DRYWELL(S) WITH THE A.D.E.Q. WATER PERMITS UNIT, FOR AN ADDITIONAL COST.
3. PROVIDE SHOP DRAWINGS FOR DRYWELL INSTALLATION. DIMENSIONS CALLED OUT ON THE DRYWELL DETAIL ARE APPROXIMATE. DRYWELL(S) MUST BE DRILLED A MINIMUM OF 10 FEET INTO PERMEABLE POROUS STRATA OR PERCOLATION TESTS WILL BE REQUIRED. THE G&D INSPECTOR MUST BE PRESENT BEFORE BACKFILL OR WELL PIPES ARE PLACED WITHIN ANY DRYWELL(S).
4. ALL DRYWELLS SHOWN ON THIS PROJECT SHALL BE MAINTAINED BY THE OWNER(S) AND ARE TO BE REPLACED BY THE OWNER(S) WHEN THEY CEASE TO DRAIN THE SURFACE WATER IN A 36-HOUR PERIOD. REGULAR MAINTENANCE OF THE DRYWELL SILTING CHAMBER(S) ARE REQUIRED TO ACHIEVE THE BEST OPERATION OF THE DRYWELL.

G&A SPECIAL NOTES

1. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR CONCRETE EXPANSION JOINTS AND CONTRACTION JOINT DETAILS AND SPACING.
2. THE CONTRACTOR WILL REFER TO THE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR CONSTRUCTION DIMENSIONS AND FOOTING ELEVATIONS.
3. CONTRACTOR MUST WORK WITH THE ADJACENT PROPERTY OWNERS TO MAINTAIN EXISTING DRAINAGE PATTERNS.
4. THE TOP OF FOOTING ELEVATIONS SHOWN ON THESE DRAWINGS ARE REQUIRED BY THE CITY OF PHOENIX FOR BUILDING PLANS APPROVAL. THE CONTRACTOR WILL REFER TO STRUCTURAL DRAWINGS, ST-1 AND ST-2, PREPARED BY KPFF CONSULTING ENGINEERS FOR THE CONSTRUCTION OF STRUCTURAL FLOOD/RETAINING WALLS AND VERIFY FOOTING PLACEMENT.

AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE "RECORD DRAWING" MEASUREMENTS AS SHOWN HEREON WERE MADE UNDER MY SUPERVISION OR AS NOTED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR ____________ DATE ____________

REGISTRATION NUMBER ____________

RETENTION REQUIREMENTS

BASIN AREA FOR ENTIRE SITE:

C = 0.90 FOR COMMERCIAL, I = INCHES/HOUR, A = ACRES
V_R = 7200 CIA = (7200)(0.90)(1.24)(4.07) = 32,703 C.F.

BASIN AREA FOR A PORTION OF MINI-STORAGE:

C = 0.90 FOR COMMERCIAL, I = INCHES/HOUR, A = ACRES
V_R = 7200 CIA = (7200)(0.90)(1.24)(0.65) = 5,229 C.F.

RETENTION VOLUME REQUIRED:

BASIN AREA #1:	(1.43 ACRES)	= 11,498 C.F.
BASIN AREA #2:	(2.53 ACRES)	= 20,317 C.F.
BASIN AREA #3:	(0.76 ACRES)	= 6,117 C.F.
TOTAL V_R	**4.72 ACRES**	**= 37,932 C.F.**

RETENTION VOLUME PROVIDED:

RETENTION BASIN #1:	= 12,237 C.F.
RETENTION BASIN #2 & 3:	= 22,126 C.F.
RETENTION BASIN #4:	= 6,462 C.F.
TOTAL V_P	**= 40,825 C.F.**
TOTAL VOLUME PROVIDED	= 40,825 C.F.
TOTAL VOLUME REQUIRED	= 37,932 C.F.
ADDITIONAL VOLUME PROVIDED	**= 2,893 C.F.**

DRAINAGE STATEMENT

A PORTION OF THIS PARCEL IS NOT IN A CRITICAL FLOOD PLAIN. THIS NON-CRITICAL FLOOD PLAIN DESIGNATION IS ZONE "X". A PORTION OF THIS PARCEL IS IN A CRITICAL FLOOD PLAIN. THIS CRITICAL FLOOD PLAIN DESIGNATION IS ZONE "AE". THESE FLOOD PLAIN DESIGNATIONS ARE AS SHOWN ON FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) MAP, COMMUNITY NUMBER 040051, MAP NUMBER 04013C1655J DATED JULY 19, 2001.

COMMUNITY NUMBER	PANEL # PANEL DATE	SUFFIX	DATE OF FIRM (INDEX DATE)	FIRM ZONE	BASE FLOOD ELEV.
040051	1655 07/19/01	J	07/19/01	X	12"
040051	1655 07/19/01	J	07/19/01	AE	1368 TO 1365

OWNER/DEVELOPER

PHOENIX SCOTTISH RITE
77 E. COLUMBUS, SUITE 215
PHOENIX, ARIZONA 85012
PHONE: (602) 212-1075
CONTACT: JOHN AMIDON

ARCHITECT

ERIC LEIBSOHN & ASSOCIATES, LTD.
1133 E. MISSOURI, SUITE K
PHOENIX, ARIZONA 85014
PHONE: (602) 230-9922
CONTACT: ERIC LEIBSOHN, AIA

EARTHWORK QUANTITIES

CUT	3330	C.Y.
FILL	6200	C.Y.

REFER TO G&A GENERAL NOTE NO. 2

BENCHMARK

BRASS CAP IN HANDHOLE AT THE INTERSECTION OF 7TH STREET AND ROBERTS ROAD.
ELEVATION = 1368.375
(CITY OF PHOENIX DATUM)

SITE BENCHMARK

PK NAIL AT THE NORTHWEST CORNER OF "ANDRUS HEIGHTS", RECORDED IN BOOK 440 OF MAPS, PAGE 29, M.C.R.
ELEVATION = 1365.41
(CITY OF PHOENIX DATUM)

SITE AREA (NET)

4.07 ACRES OR 177,308 SQ.FT.

LEGAL DESCRIPTION

LOT 1, AND TRACT "A", ANDRUS HEIGHTS, ACCORDING TO BOOK 440 OF MAPS, PAGE 29, RECORDS OF MARICOPA COUNTY, ARIZONA.

SHEET INDEX

C1.0	COVER SHEET & CIVIL NOTES
C1.1	DETAILS
C1.2	DETAILS & SECTIONS
C2.0	GRADING & DRAINAGE PLANS
C2.1	GRADING & DRAINAGE PLANS

ABBREVIATIONS

(SOME ABBREVIATIONS MAY NOT APPLY TO THESE DRAWINGS)

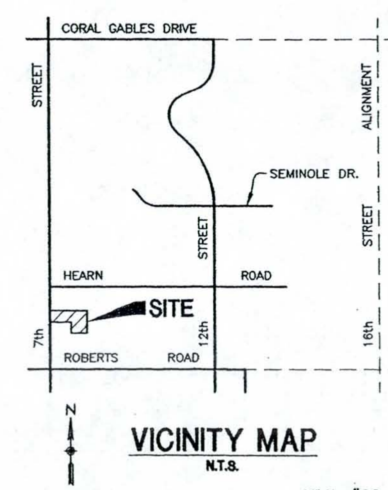
APPROX.	APPROXIMATE
ASPH.	ASPHALT
B.F.E.	BASE FLOOD ELEVATION
BOTT.	BOTTOM
B/C	BACK OF CURB
(C)	CALCULATED
C.F.	CUBIC FEET
CLF	CHAIN LINK FENCE
CONC.	CONCRETE
C.M.P.	CORRUGATED METAL PIPE
C.O.P.	CITY OF PHOENIX
C.Y.	CUBIC YARD
D.E.	DRAINAGE EASEMENT
D/W	DRIVEWAY
ELEV.	ELEVATION
ESMT.	EASEMENT
E/P	EDGE OF PAVEMENT
EXIST.	EXISTING
F.F.	FINISHED FLOOR
FND.	FOUND
FT.	FEET
G&D	GRADING & DRAINAGE
G.B.	GRADE BREAK
H	HEIGHT OF RETAINING WALL
H.W.	HIGH WATER
ID.	IDENTIFICATION
(IM)	INVERSE MEASUREMENT
M.C.R.	MARICOPA COUNTY RECORDER
MAS.	MASONRY
(M)	MEASURED
ℳ	MONUMENT LINE
N.T.S.	NOT TO SCALE
PVMT.	PAVEMENT
℄	PROPERTY LINE
PROP.	PROPOSED
P.U.E.	PUBLIC UTILITY EASEMENT
(R)	RECORDED
RET.	RETENTION
RWL	RETAINING WALL LENGTH
R/W	RIGHT OF WAY
S/W	SIDEWALK
SQ.FT.	SQUARE FEET
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
W.S.E.	WATER SURFACE ELEVATION
YR	YEAR

LEGEND

(SOME ITEMS MAY NOT APPLY TO THESE DRAWINGS)

BOUNDARY LINE
MONUMENT LINE
SET 1/2" REBAR
AS NOTED
EASEMENT LINE

EXISTING	PROPOSED	
		MAS. FENCE
--X--X--X--	—X—X—X—	CHAIN LINK FENCE (U.N.O.)
		WOOD FENCE (U.N.O.)
		VERT. CURB & GUTTER
		CONCRETE CURB
		BUILDING
		CONCRETE
		BRASSCAP IN HANDHOLE
		BRASSCAP FLUSH
		BOLLARD
		SIGN
GM		GAS METER
TR		TELEPHONE RISER
TE		TELEPHONE ENCLOSURE
TV		CABLE RISER
PP		POWER POLE
		ELECTRICAL GUY DOWN
X/FMR		ELECTRICAL TRANSFORMER
EPB		ELECTRICAL PULL BOX
EP		ELECTRICAL PANEL
		STREET LIGHT OR LIGHT POLE
		CATCH BASIN
		CURB OPENING
MH		MANHOLE
SCO		SEWER CLEANOUT
		VALVE
		FIRE HYDRANT
		FIRE DEPARTMENT CONNECTION
WM	WM	WATER METER
N	N	BACK FLOW PREVENTOR
PIV	PIV	POST INDICATOR VALVE
		DRYWELL
SCB		SPRINKLER CONTROL BOX
—W—	—W—	WATER
—UGT—		UNDERGROUND TELEPHONE
—UGE—		UNDERGROUND ELECTRICAL
—S—	—S—	SANITARY SEWER
—G—		GAS
—SD—	—SD—	STORM DRAIN
90.3	90.3	NATURAL GROUND ELEV. (ADD 1100')
TC90.30	TC90.30	TOP OF CURB ELEV. (ADD 1100')
P90.30	P90.30	PAVEMENT ELEV. (ADD 1100')
G90.30	G90.30	GUTTER ELEV. (ADD 1100')
FF99.30	FF99.30	APPROX. FINISHED FLOOR ELEV. (ADD 1100')
C99.30	C99.30	CONCRETE ELEV. (ADD 1100')
	TF90.30	TOP OF FOOTING ELEV. (ADD 1100')
TRW99.30	TRW99.30	TOP OF RETAINING WALL ELEV. (ADD 1100')
RIM99.30	RIM99.30	RIM ELEV. (ADD 1100')
INV99.30	INV99.30	INVERT ELEV. (ADD 1100')
GB	GB	GRADE BREAK
	25.4	HIGH WATER ELEV.
		DRAINAGE SLOPE
	01.1	EXTREME OUTFALL



VICINITY MAP
N.T.S.

KIVA #00-7747
SDEV #0004150
CCPR #0204474
Q.S. #33-29

CALL TWO WORKING DAYS BEFORE YOU DIG
602-263-1100 (INSIDE MARICOPA COUNTY)
1-800-STAKE-IT (OUTSIDE MARICOPA COUNTY)

CITY OF PHOENIX APPROVAL

City of Phoenix
These plans have been approved by the Development Services Department for The issuance of the following permit(s)

Grading	JJ	Ph.____	Date 8/5/03
SWMP	____	Ph.____	Date____
Paving	____	Ph.____	Date____
Concrete	____	Ph.____	Date____
Drain. Fac.	____	Ph.____	Date____
Water	____	Ph.____	Date____
Wastewater	____	Ph.____	Date____
Misc	____	Ph.____	Date____

REVISIONS | BY

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GERVASIO & ASSOC. INC.
CONSULTING ENGINEERS
4527 N. 16TH STREET, SUITE 200
PHOENIX, ARIZONA 85016
(602) 285-1720 FAX 285-1530

Registered Professional Engineer (Civil) CERTIFICATE NO. 8499 JOSEPH A. GERVASIO ARIZONA, U.S.A. Signed 7-28-03

COVER SHEET & CIVIL NOTES
OF: MOON VALLEY CORPORATE CENTER
14001 NORTH 7th STREET PHOENIX, ARIZONA 85022
FOR: PHOENIX SCOTTISH RITE
77 E. COLUMBUS, SUITE 215, PHOENIX, ARIZONA 85012

KIVA #00-7747 SDEV #0004150 CCPR #0204474 Q.S. #33-29

Date 07/28/03
Scale NONE
Drawn REC/ERE/PDC
Job 9367.1C
Sheet C1.0
1 of 5

G&A #9367.1C

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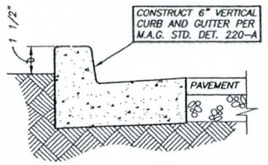
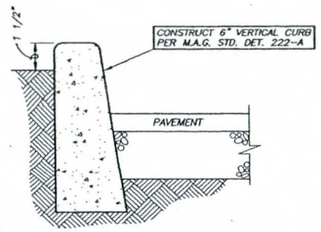
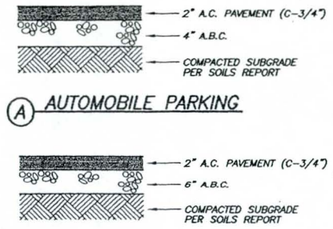
S:\Civil\9367\9367c10.dwg Mon Jul 28 14:40:30 2003 Edward R. Emerson, Jr. CAD #7



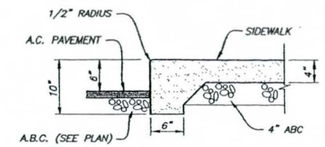
1 CONCRETE VERTICAL CURB & GUTTER
C110.3 N.T.S.



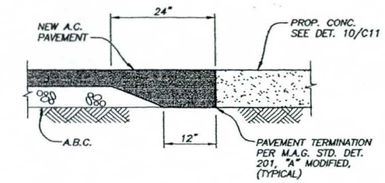
2 CONCRETE VERTICAL CURB
C110.2 N.T.S.



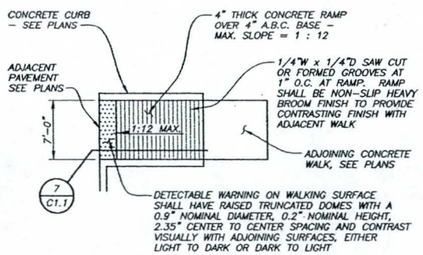
3 PAVEMENT SECTION
C136.1 N.T.S.



4 SIDEWALK THICKENED EDGE
C158.7 N.T.S.

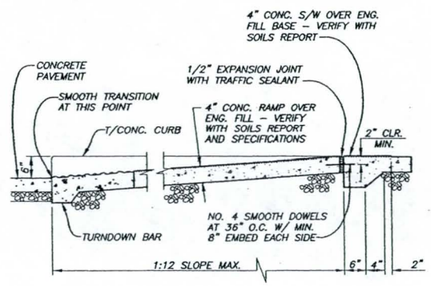


5 ASPHALT THICKENED EDGE HEAVY TRAFFIC
(MODIFIED) C100.2 N.T.S.

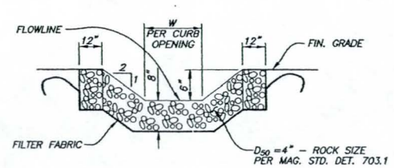


NOTE: THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRATED PART OF THE WALKING SURFACE. DETECTABLE WARNINGS USED ON INTERIOR SURFACES SHALL DIFFER FROM ADJOINING WALKING SURFACES IN RESILIENCY OR SOUND ON CANE CONTACT.

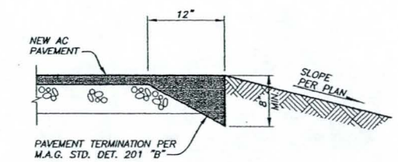
6 H.C. CURB RAMP SLOPES
(REFER TO C.O.P. G&D NOTE #27 FOR MORE INFORMATION) N.T.S.



7 TYPICAL RAMP SECTION
N.T.S.

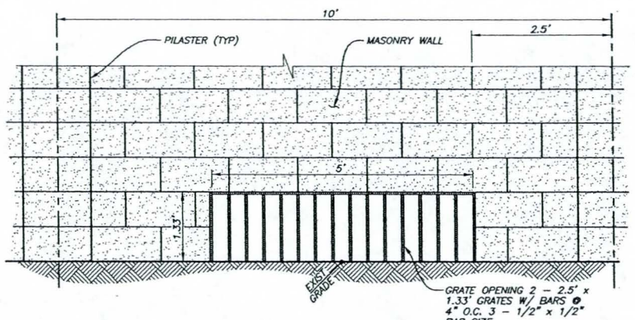


8 RIP RAP SECTION
C144.1 N.T.S.

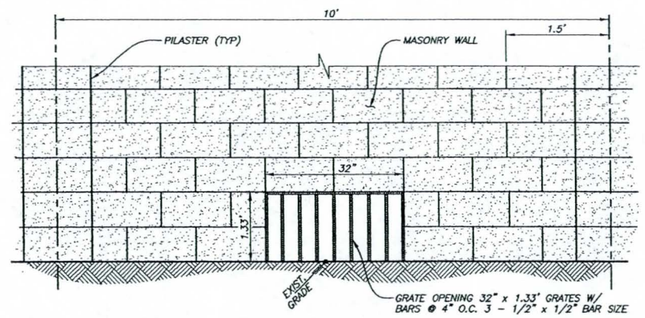


9 THICKENED EDGE OF PAVEMENT
C100.3 N.T.S.

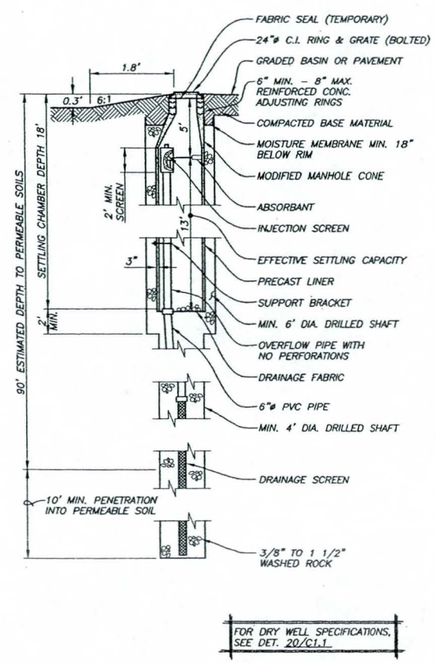
10 PORTLAND CEMENT CONCRETE PAVEMENT
C136.3 N.T.S.



11 WALL OPENING DETAIL - 5 FT. OPENING
N.T.S.

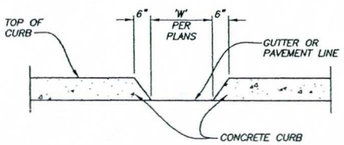


12 WALL OPENING DETAIL - 32 INCH OPENING
N.T.S.



FOR DRY WELL SPECIFICATIONS, SEE DET. 20/C1.1

19 DRY WELL DETAIL
C124.1 N.T.S.



15 CURB OPENING DETAIL
C112.3 N.T.S.

DRY WELL SPECIFICATIONS

DRY WELL DEPTHS ARE ONLY AN ESTIMATE BASED ON DATA FROM THE SURROUNDING PROJECTS. THE CONTRACTOR SHALL PROVIDE ADD AND DEDUCT CHARGES FOR TOTAL DRY WELL SHAFT DEPTHS.

DRY WELLS MUST BE DRILLED A MINIMUM OF 10 FEET INTO PERMEABLE POROUS STRATA.

USE STD. UTILITY CONSTRUCTION MANHOLE CONE W/ FLAT BOTTOM.

USE REINFORCED 4000 PSI CONCRETE FOR PRECAST LINER 48" INSIDE DIAMETER W/ DRAINAGE PIPE BELOW ROCKS.

USE COAL TAR EPOXY COATED STEEL FOR SUPPORT BRACKETS - 12 GA. MIN.

USE CLEAN WASHED ROCK 3/8" TO 1 1/2" SIZE.

USE 6 MIL. PLASTIC MOISTURE MEMBRANE PLACED TIGHTLY AGAINST CONE AND HOLE SIDEWALL.

USE MIRAFI 140N FABRIC OR EQUAL FOR DRAINAGE FABRIC. PLACE FABRIC TIGHTLY AGAINST PIPE AND LINER.

USE ROLLED 16 GA. X .625" MAX. SWO FLATTENED EXPANDED STEEL INJECTION FOR SCREEN. COAL TAR EPOXY COATED 96" OVERALL LENGTH SUBSTITUTE STAINLESS STEEL CLAMP - 14 GA. MIN. OR EQUAL.

HOLE TO BE DRILLED IN A MANNER TO PREVENT CONTAMINATION OF PERMEABLE SOILS. 4.0' MIN. SHAFT SIZE.

SUSPEND PVC PIPE DURING BACKFILL TO REDUCE CHANCE OF BREAKAGE OR BUCKLING.

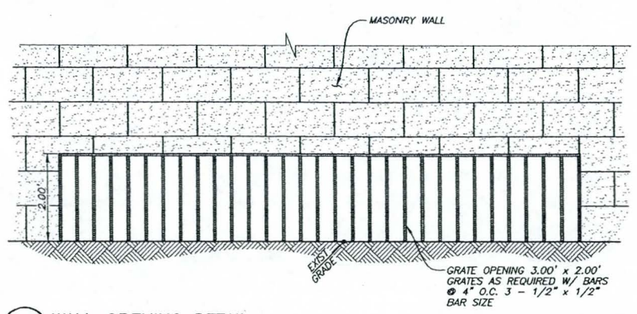
PRECAST LINER TO BE CENTERED IN HOLE AND ALIGNED ±1/4".

USE MORTAR TO SECURE RING AND GRATE TO CONE RIM ELEVATION AND ADJUSTING RINGS.

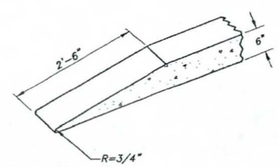
CONTRACTOR TO REMOVE BOTH LAYERS OF FABRIC INSTALLED BY DRY WELL INSTALLER UNDER GRATE AFTER LANDSCAPING AND PAVING ARE COMPLETE.

USE HYDROPHOBIC PETROCHEMICAL SPONGE FOR ABSORBENT - MINIMUM 100 OZ. CAPACITY, STANDARD IN ALL PAVED DRAINAGE AREAS.

20 DRY WELL SPECIFICATIONS
C124.4 N.T.S.



16 WALL OPENING DETAIL
N.T.S.



18 SINGLE CURB TERMINATION TYP.
C116.1 N.T.S.

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PHOENIX, ARIZONA 85016
(602) 285-1720 FAX 285-1530

Registered Professional Engineer (Civil) CERTIFICATE NO. JOSEPH A. GERVASIO Expires 12/31/03 ARIZONA, U.S.A.

DETAILS

OF: MOON VALLEY-CORPORATE CENTER
14001 NORTH 7th STREET PHOENIX, ARIZONA 85022

FOR: PHOENIX SCOTTISH RITE
77 E. COLUMBUS, SUITE 215, PHOENIX, ARIZONA 85012

Date	07/28/03
Scale	AS SHOWN
Drawn	REC/ERE/PDC
Job	9367.1C
Sheet	C1.1
	2 of 5

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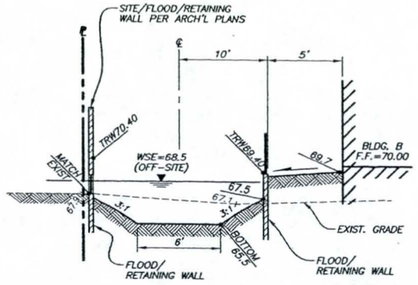
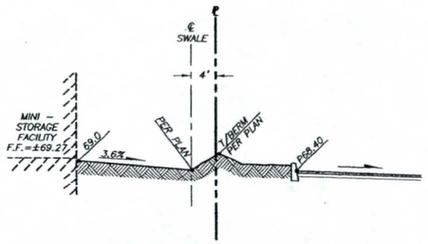
1-800-STAKE-IT (OUTSIDE MARICOPA COUNTY)

G&A #9367.1C

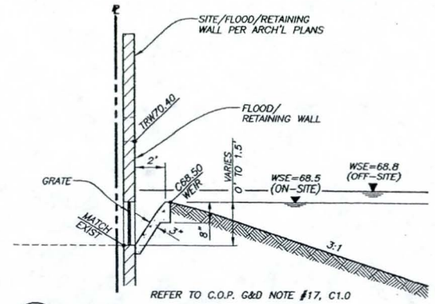


REFER TO C.O.P. G&D NOTE #17, C1.0

1 SECTION @ NORTH PROPERTY LINE ADJACENT TO BLDG. B N.T.S.

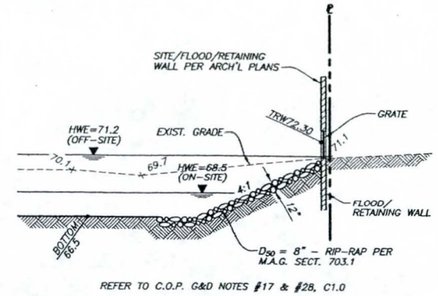


2 SECTION @ SOUTH PROPERTY LINE NORTH SIDE OF MINI-STORAGE N.T.S.



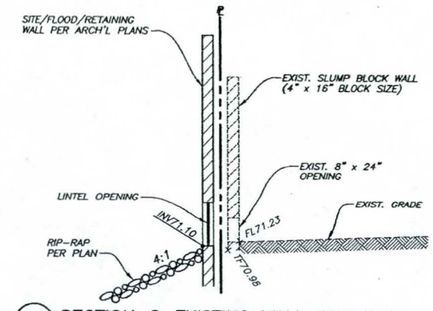
REFER TO C.O.P. G&D NOTE #17, C1.0

3 GUNNITE DROP CHANNEL N.T.S.

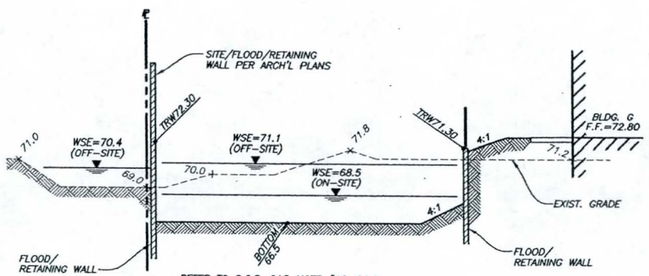


REFER TO C.O.P. G&D NOTES #17 & #28, C1.0

4 SECTION @ EAST PROPERTY LINE LOCATED IN SOUTHEAST CORNER N.T.S.

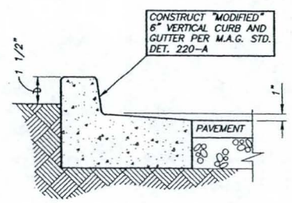


5 SECTION @ EXISTING WALL OPENING N.T.S.



REFER TO C.O.P. G&D NOTE #16, C1.0

6 SECTION AT SOUTH PROPERTY LINE LOCATED AT SOUTHWEST CORNER OF SITE N.T.S.



7 DEPRESSED CONCRETE VERTICAL CURB & GUTTER (MODIFIED) C110.3 N.T.S.

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PHOENIX, ARIZONA 85016
(602) 285-1720 FAX 285-1530

Registered Professional Engineer (Civil) CERTIFICATE NO. 9868 EDWARD A. GERVASIO DATE SIGNED 7-28-03 ARIZONA, U.S.A.

DETAILS & SECTIONS

OF: MOON VALLEY CORPORATE CENTER
14001 NORTH 7th STREET PHOENIX, ARIZONA 85022

FOR: PHOENIX SCOTTISH RITE
77 E. COLUMBUS, SUITE 215, PHOENIX, ARIZONA 85012

Date	07/28/03
Scale	AS SHOWN
Drawn	REC/ERE/PDC
Job	9367.1C
Sheet	C1.2

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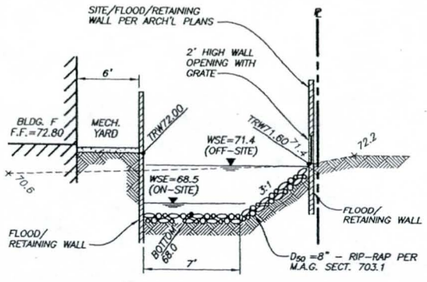
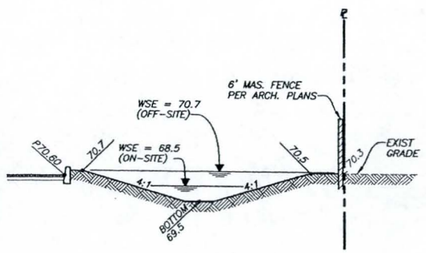
G&A #9367.1C



REFER TO C.O.P. G&D NOTES #16 & #28, C1.0

1 SECTION @ EAST PROPERTY LINE ADJACENT TO BLDG. F

N.T.S.



REFER TO C.O.P. G&D NOTE #16, C1.0

6 SECTION @ SOUTH PROPERTY LINE

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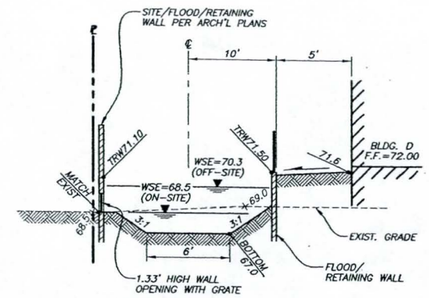

REFER TO C.O.P. G&D NOTE #16, C1.0

11 SECTION @ NORTH PROPERTY LINE ADJACENT TO BLDG. D

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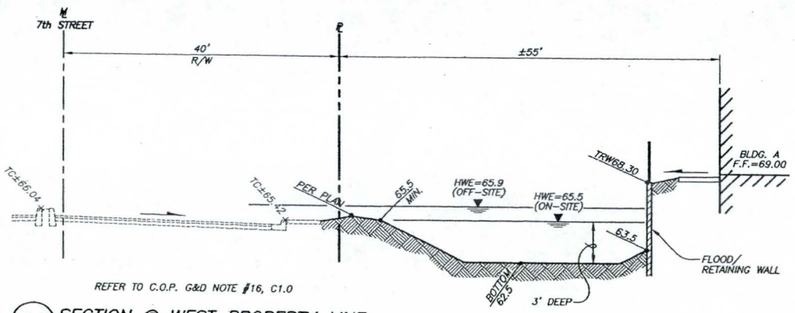

REFER TO C.O.P. G&D NOTE #16, C1.0

16 SECTION @ WEST PROPERTY LINE

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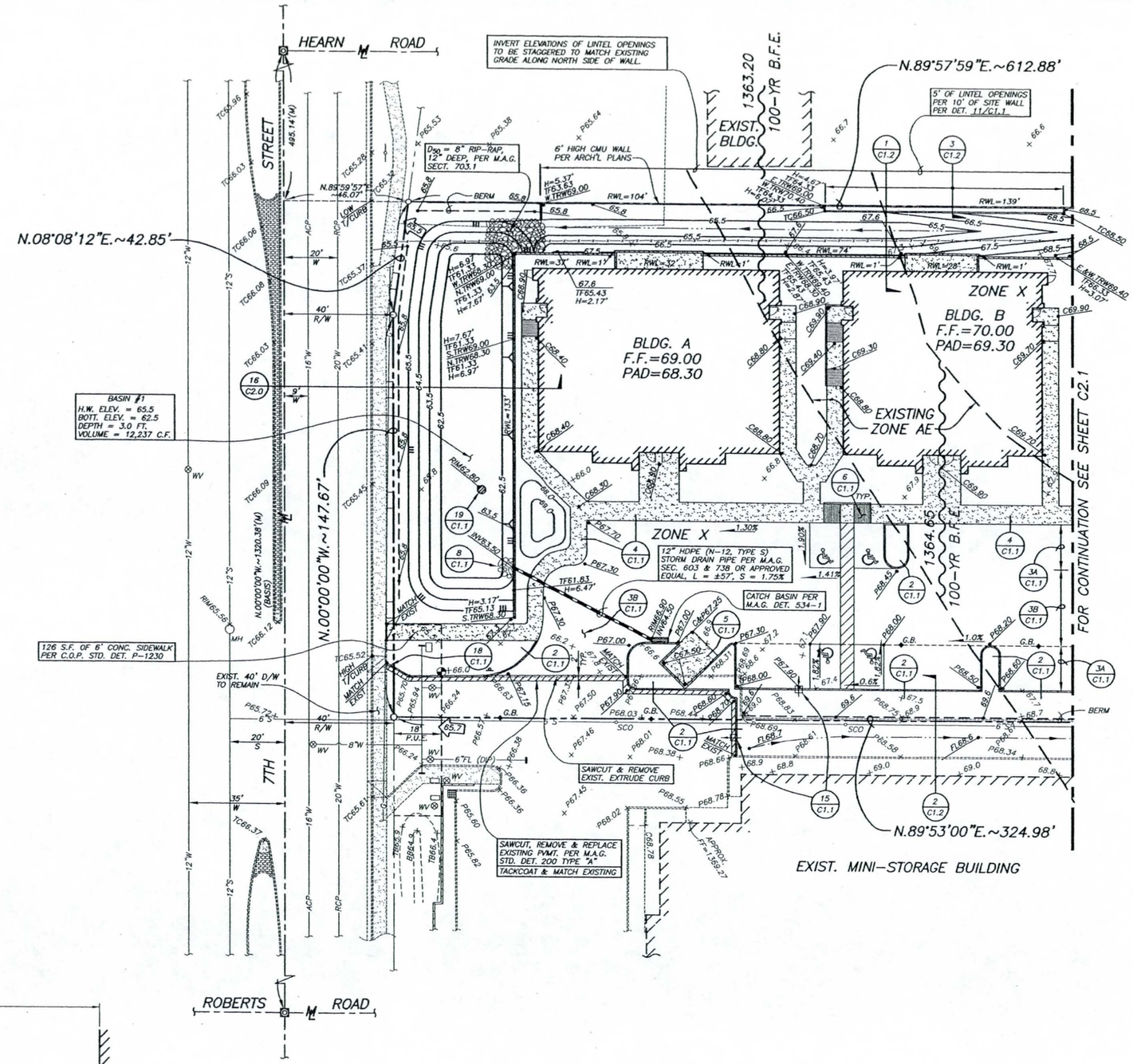

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Registered Professional Engineer (Civil) CERTIFICATE NO. 9468 STATE OF ARIZONA

GRADING & DRAINAGE PLANS

OF: MOON VALLEY CORPORATE CENTER
14001 NORTH 7th STREET PHOENIX, ARIZONA 85022

FOR: PHOENIX SCOTTISH RITE
77 E. COLUMBUS, SUITE 215, PHOENIX, ARIZONA 85012

Date	07/28/03
Scale	1"=20'
Drawn	REC/ERE/PDC
Job	9367.1C
Sheet	C2.0

4 of 5

G&A #9367.1C

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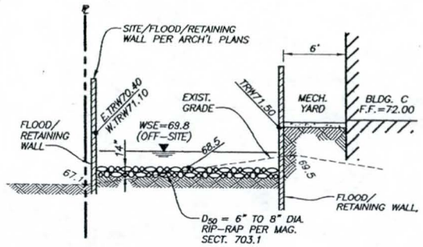
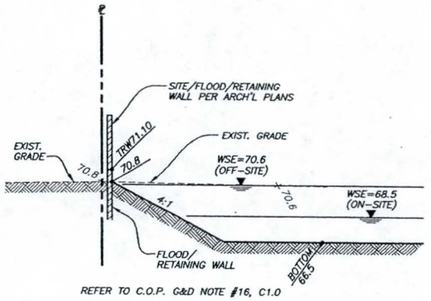
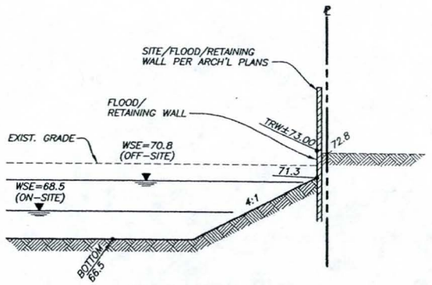


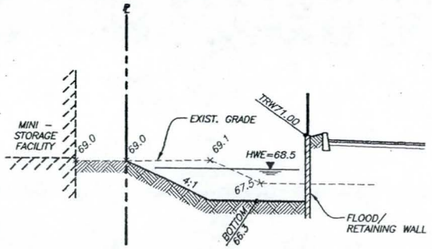
1 SECTION @ NORTH PROPERTY LINE ADJACENT TO BLDG. C N.T.S.



6 SECTION @ NORTH PROPERTY LINE NORTHEAST CORNER N.T.S.



11 SECTION @ EAST PROPERTY LINE NORTHEAST CORNER N.T.S.



16 SECTION @ EAST SIDE OF MINI-STORAGE FACILITY N.T.S.

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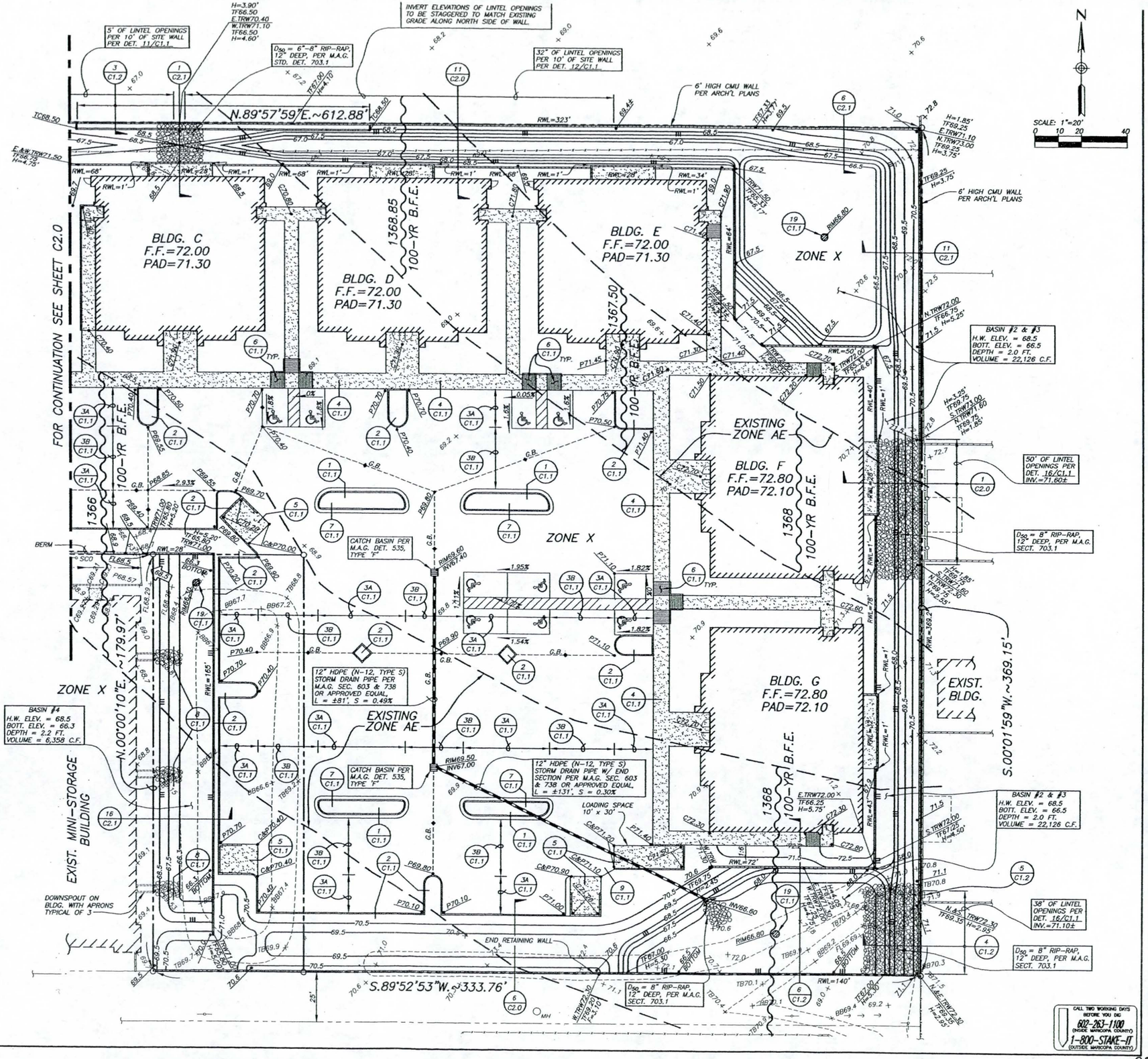

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GRADING & DRAINAGE PLANS

OF: MOON VALLEY CORPORATE CENTER
14001 NORTH 7th STREET PHOENIX, ARIZONA 85022

FOR: PHOENIX SCOTTISH RITE
77 E. COLUMBUS, SUITE 215, PHOENIX, ARIZONA 85012

Date	07/28/03
Scale	1"=20'
Drawn	REC/ERE/PDC
Job	9367.1C
Sheet	C2.1

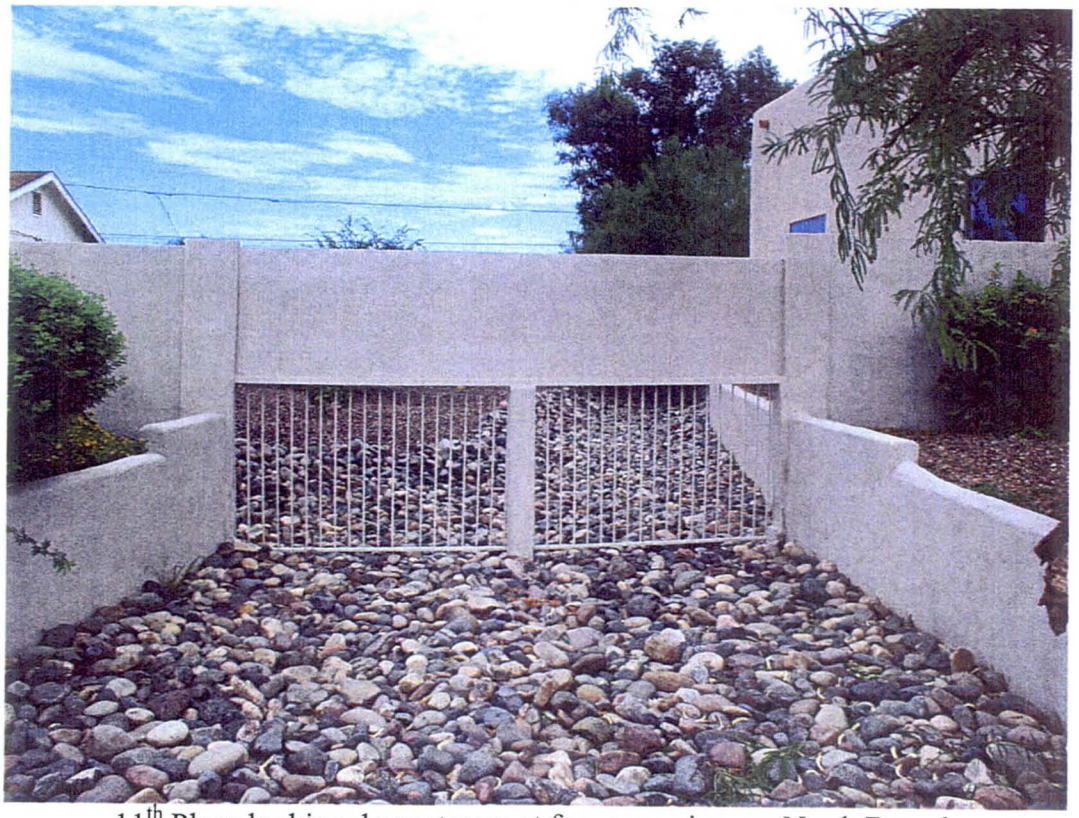
5 of 5

G&A #9367.1C

Appendix G

North Branch Ground Photos

11th Place looking upstream



11th Place looking downstream at fence opening on North Branch
(hydraulic structure in grid element No. 551)

11th Place looking northwest at wall opening on North Branch
(hydraulic structure in grid element No. 551)

11th Street looking south from dip crossing

11th Street crossing looking upstream from road

11th Street crossing looking downstream from road

Alley between 11th Street and 10th Place looking north from grid element No. 317.
(note the combination of wood and masonry fences and opening in fence for drainage)

Alley between 11th Street and 10th Place looking south from grid element No. 317.

10th Place looking south from dead end just south of Friess Drive
(note the continuous 8-inch masonry wall on right side of photo)

10th Place looking upstream from road.
(note that Lot 9 of Redfield and 10th Place subdivision is in picture left)

10th Place looking downstream from the road.

8th Place looking upstream from road.

8th Place looking downstream from road.

Upstream side of wall opening located in grid element No. 973. Man in picture is about 5-feet, 10-inches tall.

Looking downstream from wall opening at grid element No. 973, through the existing nursery.

Downstream side of wall opening at grid element No. 1103.

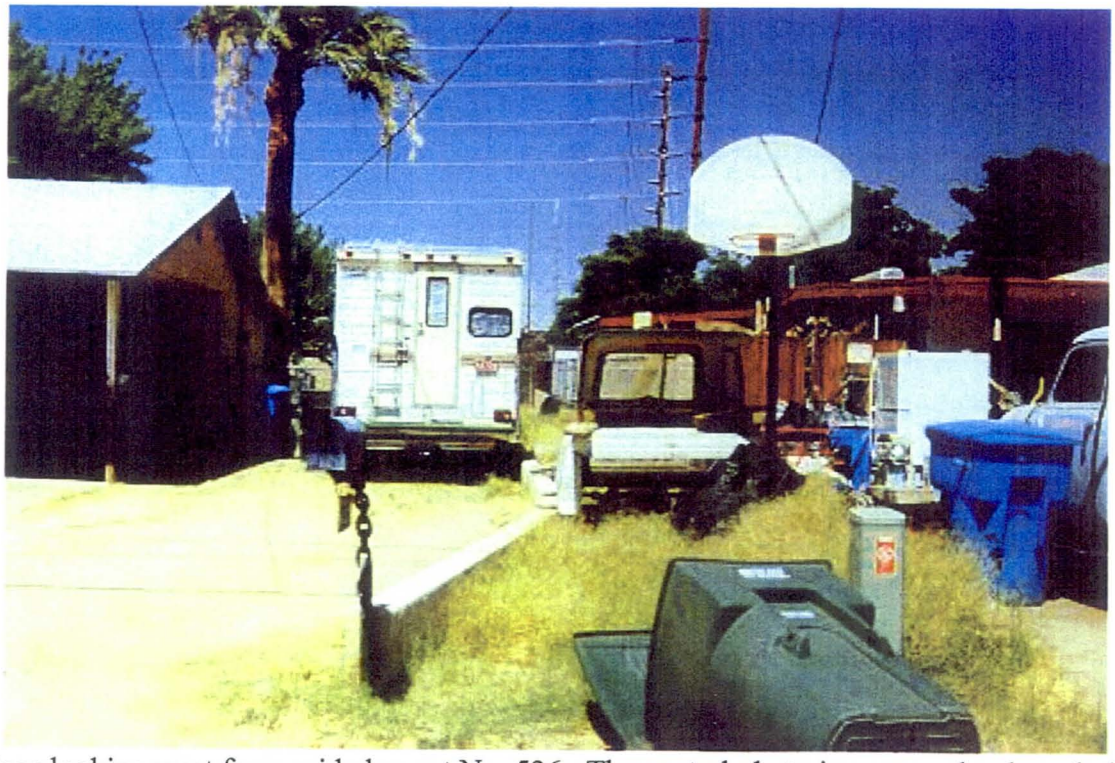
Hearn Road looking downstream (westerly) at CMPA's crossing under 7th Street. Note that Hearn Road is a dip crossing.

Photo from the site looking east towards horse corrals modeled by grid element No. 658.

Same as previous photo only closer shot of corrals.

Photo looking southeasterly from site. Note the solid 8-inch masonry wall along property line.

Photo of existing wall opening at grid element No. 523. Chain link fence is at grid element No. 477.



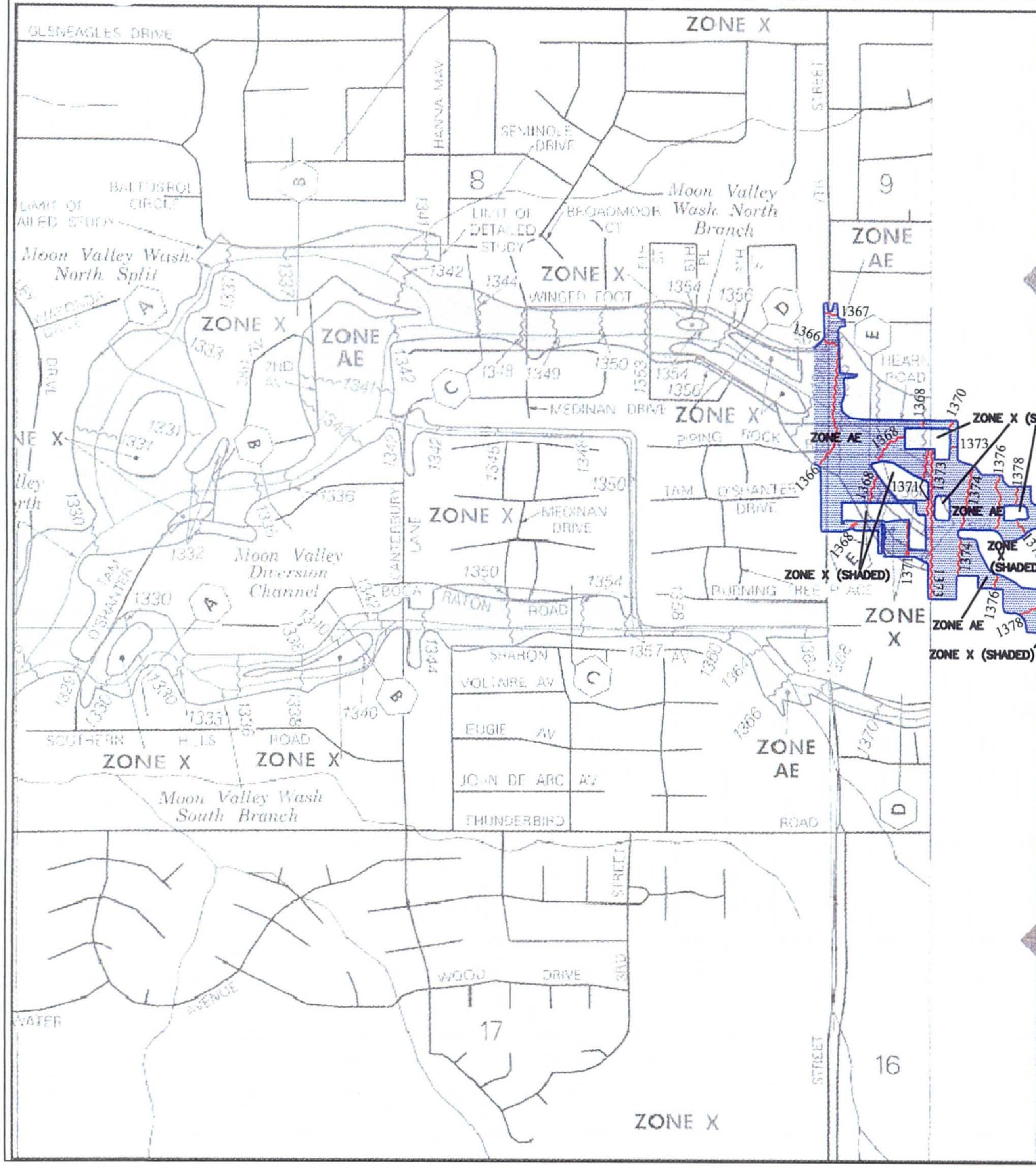
8th Place looking west from grid element No. 526. The central photo is supposed to be a drainage corridor. Note all of the obstructions to flow, which are typical for the area.

Photo looking north from site at nursery stock.

Photo looking at northeast corner of site.

Appendix H

Annotated FIRM Panels 04013C1655 and 04013C1660



NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

MARICOPA COUNTY, ARIZONA AND INCORPORATED AREAS

PANEL 1655 OF 4350

MAP NUMBER 04013C1655 J

MAP REVISED: JULY 19, 2001

Federal Emergency Management Agency

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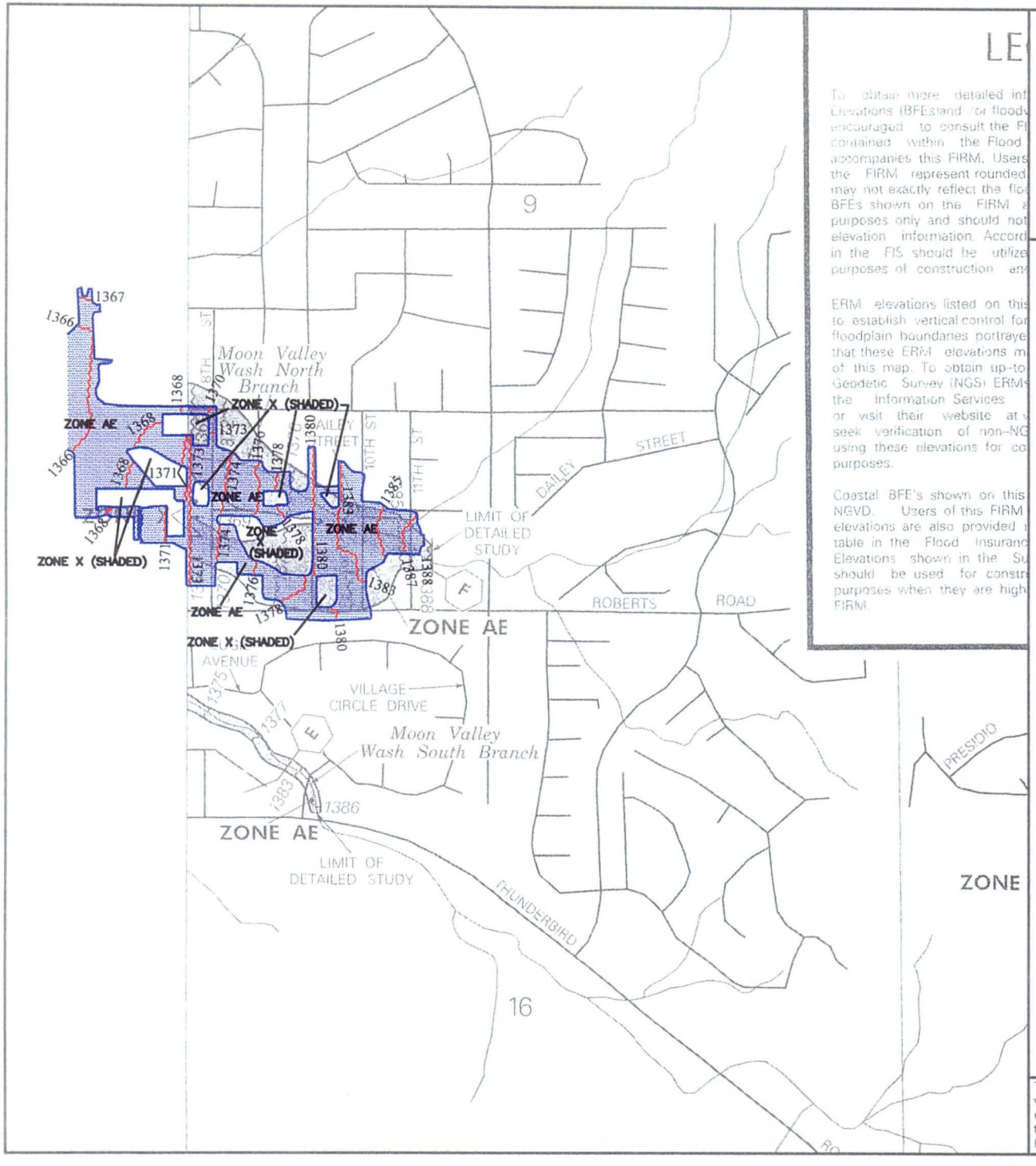

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of this map. To obtain up-to
Geodetic Survey (NGS) ERMs
the Information Services
or visit their website at
seek verification of non-NG
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table in the Flood Insuranc
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FIRM.

APPROXIMATE SCALE IN FEET

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NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

MARICOPA COUNTY, ARIZONA AND INCORPORATED AREAS

PANEL 1660 OF 4350

(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS: COMMUNITY	NUMBER	PANEL	SUFFIX
PHOENIX, CITY OF	040051	1660	G

MAP NUMBER
04013C1660 G

MAP REVISED:
JULY 19, 2001

Federal Emergency Management Agency

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PLATES

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