

**FUNCTIONAL SERVICING AND PRELIMINARY
STORMWATER MANAGEMENT REPORT**

476420 3RD LINE

**TOWNSHIP OF MELANCTHON
DUFFERIN COUNTY**

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1.0 Introduction

C.F. Crozier & Associates Inc. (Crozier) was retained by Sheldon Creek Developments to prepare a Functional Servicing and Stormwater Management Report in support of the Official Plan Amendment (OPA) and Zoning By-Law Amendment (ZBA) for the proposed residential development located at 476420 3rd Line in the Township of Melancthon, County of Dufferin. This report will demonstrate that the proposed development is feasible from a servicing and stormwater management perspective and can meet the requirements of the Township of Melancthon (Township), County of Dufferin (County), and Nottawasaga Valley Conservation Authority (NVCA).

The reports and design standards referenced during the preparation of this report includes:

- Fire Underwriters Survey – Water Supply for Public Fire Protection (2020)
- Nottawasaga Valley Conservation Authority Stormwater Technical Guide (December 2013)
- Town of Shelburne Design Criteria – Prepared by RJ Burnside & Associates (October 2012)
- Ministry of the Environment Design Guidelines for Drinking Water Systems (2008)
- Ministry of the Environment Stormwater Management Planning and Design Manual (March 2003)

This report has been prepared to support the first submission of the OPA and ZBA applications for the property located at 476420 3rd Line.

2.0 Site Description

The site encompasses an area of approximately 37 ha with a developable area of approximately 12 ha. The site currently operates as an existing community (Chipwoods Park) with approximately 120 units, a recreational hall, gatehouse, workshop, playground, pool, and at grade parking areas. The Site, located in a rural/residential area, is bounded by agricultural lands to the north, south, and west, and 3rd Line to the east.

According to the Development Concept Plan prepared by Glen Schnarr & Associates Inc., dated June 20, 2025, the elements envisioned for this development include:

- 224 residential houses which will each contain a single car driveway.
- Internal road network and 43 visitor parking spaces.
- Recreational areas, three SWM blocks, and an advanced sewage treatment system block.

The existing units and gravel driveways will be removed to accommodate the proposed development.

3.0 Soil and Groundwater Conditions

A Geotechnical Investigation was completed by Green Geotechnical Ltd to support the proposed residential development. The field investigation was conducted in July 2024 and consisted of drilling eight (8) boreholes with depths ranging from 5.0m to 6.6m below the existing ground surface to assess the existing soil conditions. Please refer to the Geotechnical Report under separate cover.

A Hydrogeological Investigation and Water Resource Management Report (Hydrogeological Investigation) was completed by Crozier to support the proposed residential development. The field investigation was conducted in partnership with the geotechnical drilling program and groundwater level readings were completed from July 2024 to March 2025. Please refer to the Hydrogeological Investigation under separate cover.

4.0 Water Servicing

4.1 Existing Water Servicing

No water servicing infrastructure exists on 3rd Line adjacent to the site. However, as outlined in the Hydrogeological Investigation (Crozier, 2025), 15 well records were identified within 500m of the Site and two wells currently exist within the Site (one 6-inch well and one 8-inch well). Refer to the Hydrogeological Investigation under separate cover for more information.

4.2 Design Water Servicing

The water demand for the proposed development was calculated with reference to the Town of Shelburne Design Criteria (October 2012) and the Ministry of Environment Design Guidelines for Drinking Water Systems (2008). The Town guidelines require an average daily water demand of 450 L/capita/day for residential use. A population per unit of 3.0 was conservatively assumed to determine the approximate population of the development.

Table 1 summarizes the overall water demand for the proposed development. Appendix A contains water demand calculations.

Table 1: Estimated Domestic Water Demand

Standard	Type	Average Daily Water Demand (L/s)	Maximum Daily Water Demand (L/s)	Peak Hourly Water Demand (L/s)
Town of Shelburne	Residential	3.50	9.63	14.46
	Total	3.50	9.63	14.46

Using the Town of Shelburne and MECP design criteria for domestic water demand, the estimated average daily demand and peak hourly demand for the proposed development are 3.50 L/s and 14.46 L/s, respectively.

4.3 Fire Flow Demand

The Fire Underwriters Survey (FUS) method was used to estimate the fire flow requirements for the proposed development. This calculation is based on the building type assumption of non-combustible construction and the gross floor area of the largest floor from the Floor Plans prepared by Elevate Home Design dated November 2024. The estimated fire flow requirements are used to estimate the water volume requirements for fire fighting purposes to service the development.

Table 2 summarizes the estimated fire flow demand and duration necessary to meet fire protection for the proposed development. Appendix A contains the Fire Underwriters Survey calculations.

Table 2: Estimated Fire Demand Flows

Method	Demand Flow (L/s)	Duration (h)
Fire Underwriters Survey	50	1.25

Based on the fire flow calculations and the GFA of 51.1 sq.m, the required fire flow was calculated to be 50 L/s for a duration of 1.25 hours.

Based on preliminary discussions between Crozier and the Town of Shelburne Fire Chief, it is understood that the preference would be for the development to be serviced for fire protection by trucking water in from the Town of Shelburne, rather than providing storage on site. Further coordination with the Town fire department will be completed throughout the development application process to ensure the proposed fire protection measures will be fully supported. However, based on the estimated domestic water demand (14.46 L/s) and fire flow demand (50 L/s) summarized in Table 1 and Table 2, the total design flow for the development is approximately 64.46 L/s.

4.4 Proposed Water Servicing

The development is proposed to be serviced by a 50 mm diameter watermain distribution network and individual domestic services will be provided to each house. This watermain will connect from the proposed well system and water treatment will be provided through a centralized water treatment system located next to the wells. As per O. Reg. 170, the system is classified as a "non-municipal year-round" residential system therefore chlorination and other treatment will be required. Further details relating to the proposed wells, their pumping systems, and water treatment requirements will be provided at a future design stage.

The Preliminary Site Servicing Plan (Drawing C103A-B) illustrates the location and design of the proposed water services.

The existing wells and water services that currently service the site are to be decommissioned and removed as part of the proposed water servicing strategy.

5.0 Sanitary Servicing

The existing and proposed sanitary servicing are discussed in the following sections.

5.1 Existing Sanitary Servicing

No sanitary servicing infrastructure exists on 3rd Line adjacent to the site. While details are limited on the existing sewage systems on-site, we understand that some clusters of around 2-5 homes are serviced by a single septic tank/bed system. The tanks are generally accessible, but the details and condition of the existing tanks are unknown.

5.2 Design Sanitary Flow

The Town of Shelburne Design Criteria (October 2012) was referenced to calculate the sanitary sewage design flows for the proposed development. Per the design guidelines, an average design flow of 450 L/capita/day was considered for the proposed residential uses, respectively. Similar to the water demand calculation, a population per unit of 3.0 was conservatively assumed for each unit to determine the approximate population of the development.

Infiltration flow into the sanitary sewer and peaking factors were applied to the average flow to obtain the total estimated design sewage flows. Table 3 summarizes the results and Appendix B contains the detailed sanitary calculations.

Table 3: Estimated Sanitary Design Flows

Standard	Type	Average Daily Flow (L/s)	Peaking Factor	Peak Flow (L/s)	Infiltration Flow (L/s)	Total Peak Flow (L/s)
Town of Shelburne	Residential	3.50	3.80	13.30	2.28	15.58
	Commercial	0.00	0.00	0.00		

As shown in Table 3, it is estimated that the total sanitary peak flow for the proposed development is 15.58 L/s considering the proposed residential and infiltration sanitary flows. The proposed sanitary services at the downstream limit of the internal sanitary sewer network will be sized to convey the total peak sanitary sewage flow of 15.58 L/s for the development, as determined by the Town of Shelburne Design Criteria (October 2012).

At a subsequent design stage, a sanitary drainage plan and design sheet will be completed to optimize the size and slopes of the proposed sanitary system to meet the specific requirements of the Town.

5.3 Proposed Sanitary Servicing

The development is proposed to be serviced by an internal sanitary sewer network that will collect sewage flows from each house via individual service connections, and convey sewage flows to a centralized advanced sewage treatment plant before discharging treated effluent to the existing tributary at a controlled release rate. The proposed sanitary services will be designed per Town of Shelburne standards to meet applicable capacity and velocity requirements.

A desktop Assimilative Capacity Study (ACS) was completed by Azimuth (March, 2025) to characterize the Site and surrounding area and assess the feasibility of post-source effluent discharge within the onsite tributary. Based on the results of the study, Table 4 summarizes the preliminary effluent discharge criteria that will be considered for the proposed development:

Table 4: Preliminary Effluent Discharge Criteria

Parameter	Treatment Objective	Compliance Limit
Total Phosphorus	0.1 mg/L	1.0 mg/L
Total Ammonia	0.3 mg/L	2.0 mg/L
Total Nitrate	3.4 mg/L	-
Dissolved Oxygen	6 mg/L	-
BOD ₅	6.4 mg/L	10 mg/L
Total Suspended Solids	15 mg/L	25 mg/L
pH	6.5 – 8.5	-
E. coli	100 CFU/100 mL	200 CFU/100 mL

As shown in Table 4, the effluent criteria are generally feasible for treatment using an advanced sewage treatment plant. However, we would strongly advise further investigation and assessment of the assimilative capacity of the tributary by collecting site-specific monitoring data which would confirm the above discharge criteria. This would include water quality and flow data. Final effluent discharge criteria would be confirmed through consultation with the Ministry of the Environment, Conservation and Parks (MECP) during a subsequent design stage.

At this stage, an approximate 940 m² advanced sewage treatment block has been provided to accommodate the required treatment plant. There are numerous technologies that have a proven track record for reliable treatment of similar type wastewaters and final effluent criteria in Ontario. Common treatment processes include membrane bioreactors (MBR) or sequencing batch reactors (SBR), however the optimal solution for the development will be determined during a subsequent design stage. The following treatment technologies have been considered as potential solutions:

- Newterra
- Aslan Technologies

The feasibility of the above options will be assessed in detail throughout the development application process. The Preliminary Site Servicing Plans (Drawing C103A-B) illustrate the location of the sanitary sewer and connections to the buildings. The internal sanitary system in each home will be designed per the mechanical engineer's details and specifications.

All existing sanitary servicing infrastructure including septic tanks and beds will be decommissioned and removed as part of the proposed sanitary servicing strategy.

6.0 Drainage Conditions

The drainage conditions for the site in both pre-development and post-development conditions are outlined in the following sections.

6.1 Existing Drainage Conditions

According to the topographic survey (Van Harten, September 18, 2024) and additional LiDAR information provided, the site currently consists of permanent residences, gravel roads, landscaped areas, woodlands, and wetlands. The majority of the site slopes towards the Tributary of the Boyne River and pond in the middle of the site which drains from the southwest to the northeast.

The emergency overland flow route for the site will be maintained under post-development conditions and will be conveyed towards the Tributary of the Boyne River.

Table 5 summarizes the pre-development drainage areas and imperviousness for each catchment. The Pre-Development Drainage Plan is illustrated in **Figure 1**.

Table 5: Pre-Development Catchment Areas and Imperviousness

Catchment ID	Land-Use Description	Impervious Area (ha)	Pervious Area (ha)	% Impervious	Outlet
101A	Existing campsites, gravel road, forested areas	0.16	2.48	6.3	Creek
101B	Existing campsites, gravel road, forested areas	0.12	1.13	9.6	Creek
101C	Existing campsites, gravel road, forested areas	0.18	2.37	7.2	Creek
102	Existing campsites, gravel road, forested areas, wetland	0.06	3.18	1.8	Wetland
103	Existing campsites, gravel road, forested areas, pond	0.66	2.71	19.6	Pond/Creek
UC1	Forested areas	0	14.45	0	Creek
UC2	Forested areas	0	9.65	0	Creek
UC3	Existing campsites, forested areas	0	0.23	0	Creek
EXT1	Cultivated lands and forested areas	0	12.11	0	Creek
EXT2	Cultivated lands and forested areas	0	1.60	0	Creek
EXT3	Forested areas	0	0.87	0	Pond/Creek
EXT4	Cultivated Lands	0	1.11	0	Pond/Creek
EXT5	Cultivated Lands	0	0.66	0	Creek
EXT6	Cultivated Lands	0	1.70	0	Creek
EXT7	Cultivated Lands	0	1.82	0	Creek

6.2 Proposed Drainage Conditions

Based on the Development Concept Plan prepared by Glen Schnarr & Associates Inc. (June 20, 2025), the proposed development will consist of 224 residential units, paved internal roadways and parking lots, and associated landscaped areas. Access to the site will be provided by an existing access easement from Third Line.

The proposed site grading splits the site into three (3) catchment areas, as shown in the Post-Development Drainage Plan (**Figure 2**):

- Catchment 201A (Area = 3.73 ha) consists of controlled drainage from the proposed building footprints, parking areas, and landscaped areas. Following quantity and quality controls the stormwater will be directed into the Tributary of the Boyne River.
- Catchment 201B (Area = 2.16 ha) consists of controlled drainage from the proposed building footprints, parking areas, and landscaped areas. Following quantity and quality controls the stormwater will be directed into the Tributary of the Boyne River.
- Catchment 201C (Area = 2.66 ha) consists of controlled drainage from the proposed building footprints, parking areas, and landscaped areas. Following quantity and quality controls the stormwater will be directed into the Tributary of the Boyne River.
- Catchment 202 (Area = 1.13 ha) consists of uncontrolled drainage from the northeast and consists of woodlands and wetland areas. Drainage from this catchment will be conveyed into the existing wetland feature, mimicking pre-development conditions.
- Catchment 203 (Area = 3.10 ha) consists of uncontrolled drainage from the northwestern limits of the property. Drainage from this catchment will be conveyed into the Tributary of the Boyne River.
- Catchment UC1 (Area = 14.72 ha) consists of uncontrolled drainage from several rear yard lots and the existing common area. Drainage from this catchment will be conveyed into the Tributary of the Boyne River.

Table 6 summarizes the post-development drainage areas and imperviousness for each catchment. The Post-Development Drainage Plan is illustrated in Figure 2.

Table 6: Post-Development Catchment Areas and Imperviousness

Catchment ID	Land-Use Description	Impervious Area (ha)	Pervious Area (ha)	% Impervious	Outlet
201A	Residential units, asphalt road/parking lots, landscaped areas	1.76	1.97	47.1	Creek
201B	Residential units, asphalt road/parking lots, landscaped areas	0.90	1.26	41.5	Creek
201C	Residential units, asphalt road/parking lots, landscaped areas	1.20	1.46	45.1	Creek
202	Forested areas, wetland	0	1.13	0	Wetland
203	Forested areas, pond	0.58	2.52	18.7	Pond/Creek
UC1	Forested areas, rear yard lots	0	14.72	0	Creek
UC2	Forested areas	0	9.65	0	Creek
UC3	Existing campsites, forested areas	0	0.23	0	Creek
EXT1	Cultivated lands and forested areas	0	12.11	0	Creek
EXT2	Cultivated lands and forested areas	0	1.60	0	Creek
EXT3	Forested areas	0	0.87	0	Pond/Creek
EXT4	Cultivated Lands	0	1.11	0	Pond/Creek
EXT5	Cultivated Lands	0	0.66	0	Creek
EXT6	Cultivated Lands	0	1.70	0	Creek
EXT7	Cultivated Lands	0	1.82	0	Creek

7.0 Stormwater Management

Stormwater management and site drainage for the proposed development must adhere to the policies and standards of the Township of Melancthon, NVCA, and Ministry of Environment, Conservation, and Parks (MECP).

The stormwater management criteria for the development have been summarized below:

Water Quantity Control

According to the NVCA Stormwater Technical Guide (December 2013), water quantity controls are required for the site. The water quantity requirements include controlling the post-development peak runoff rates to the pre-development peak runoff rates for storms up to and including the 100-year event (i.e., 2, 5, 10, 50, 100-year return periods). The minor system will be designed to convey flows from storm events up to and including the 5-year event.

Water Quality Control

At least 80% removal of Total Suspended Solids will be provided with “Enhanced Protection” as outlined in the Stormwater Management Planning and Design Manual (MOE, 2003).

Erosion Control

According to the NVCA Stormwater Technical Guide (December 2013), erosion control is recommended such that the 25 mm design storm is retained over at least a 48-hour period.

7.1 Stormwater Modelling Parameters

The NVCA stormwater management guidelines were referenced to determine the hydrologic parameters for the various catchment areas within the site. The topographic survey prepared by Van Harten Land Surveyors (September 18, 2024), available LiDAR data, and the Draft Preliminary Geotechnical Investigation Report prepared by Green Geotechnical (September 30, 2024) were referenced to confirm the land cover, drainage pattern, and on-site soil conditions.

Based on these sources, the hydrologic parameters for pre-development and post-development conditions were determined and are summarized in Table 7 and Table 8 below. The detailed hydrologic parameter sheets for each catchment area are included in **Appendix C**.

Table 7: Pre-Development Hydrologic Parameters

Catchment	Drainage Area (ha)	Total Imperviousness (%)	Directly Connected Imperviousness (%)	Curve Number (CN)¹	Time to Peak (hours)
101A ^N	2.64	-	-	36.2	0.61
101B ^N	1.25	-	-	38.5	0.22
101C ^N	2.55	-	-	36.9	0.49
102 ^N	3.24	-	-	37	0.41
103 ^N	3.37	-	-	31.2	0.21
UC1 ^N	14.45	-	-	32	0.81
UC2 ^N	9.65	-	-	32	0.71
UC3 ^N	0.23	-	-	32	0.33
EXT1 ^N	12.11	-	-	48.1	0.55
EXT2 ^N	1.6	-	-	49.7	0.24
EXT3 ^N	0.87	-	-	32	0.24
EXT4 ^N	1.11	-	-	62	0.34
EXT5 ^N	0.66	-	-	62	0.19
EXT6 ^N	1.7	-	-	62	0.43
EXT7 ^N	1.82	-	-	32	0.3

1. Curve numbers are presented as utilized in VO modeling. CN reflects composite curve number for rural catchments modeled using NASHYD routine and curve number for pervious areas only for urban catchments using STANDHYD routine.
2. Superscript N represents the catchment was modelled using a NASHYD and a superscript S, represents the catchment was modelled using a STANHYD.

Table 8: Post-Development Hydrologic Parameters

Catchment	Drainage Area (ha)	Total Imperviousness (%)	Directly Connected Imperviousness (%)	Curve Number (CN)¹	Time to Peak (hours)
201A ^S	3.73	47.13	36.26	-	-
201B ^S	2.16	41.54	31.77	-	-
201C ^S	2.66	45.08	31.83	-	-
202 ^N	1.13	-	-	43	0.30
203 ^N	3.10	-	-	35.8	0.30
UC1 ^N	14.72	-	-	32	0.82
UC2 ^N	9.65	-	-	32	0.71
UC3 ^N	0.23	-	-	32	0.33
EXT1 ^N	12.11	-	-	48.1	0.55
EXT2 ^N	1.6	-	-	49.7	0.24
EXT3 ^N	0.87	-	-	32	0.24
EXT4 ^N	1.11	-	-	62	0.34
EXT5 ^N	0.66	-	-	62	0.19
EXT6 ^N	1.7	-	-	62	0.43
EXT7 ^N	1.82	-	-	32	0.30

3. Curve numbers are presented as utilized in VO modeling. CN reflects composite curve number for rural catchments modeled using NASHYD routine and curve number for pervious areas only for urban catchments using STANDHYD routine.
4. Superscript N represents the catchment was modelled using a NASHYD and a superscript S, represents the catchment was modelled using a STANHYD.

7.2 Stormwater Quantity Control

As discussed in Section 7.0, stormwater quantity control requirements for the site include controlling the post-development peak runoff to the pre-development peak runoff for storm events up to and including the 100-year event. Hydrologic parameters for the site were determined using the Ontario Ministry of Transportation (MTO) look up tool for the intensity-duration-frequency (IDF) data for a 4-hour Chicago and 24-hour SCS Type II Storm events to model all design storm events.

The proposed stormwater management facilities will be stormwater management dry ponds located near the northeast corner (North Pond), east (Mid Pond) and southeast corner (South Pond) of the proposed development and will control post-development peak flows to their pre-development levels or lower (Post-to-Pre Control). The ultimate receiver of the stormwater from the proposed development is the Tributary of the Boyne River which is located south of the proposed development.

Visual OTTHYMO (VO) was used to create pre-development, and post-development scenarios to quantify the site's peak stormwater flows. The pre-development and post-development stormwater flows directed to the Tributary of the Boyne River and the storage requirements are summarized below in Table 9, 10 and 11. The VO model schematics, modelling results, and output files are included in **Appendix E**.

Table 9: Peak Flows and Target Flows Summary (Discharge towards North Pond)

Storm Event	Peak Flow (L/s)		Storage Volume Required (m3)	Storage Volume Provided (m3)
	Pre-Development	Post-Development		
	101A	201A		
2 yr	12.0	5.0	748.0	2563.0
5 yr	25.0	7.0	1162.0	
10 yr	35.0	10.0	1399.0	
25 yr	49.0	18.0	1599.0	
50 yr	61.0	24.0	1760.0	
100 yr	74.0	28.0	1958.0	

Table 10: Peak Flows and Target Flows Summary (Discharge towards Mid Pond)

Storm Event	Peak Flow (L/s)		Storage Volume Required (m3)	Storage Volume Provided (m3)
	Pre-Development	Post-Development		
	101B	201B		
2 yr	13.0	9.0	336.0	1123.0
5 yr	27.0	23.0	454.0	
10 yr	38.0	29.0	547.0	
25 yr	53.0	34.0	676.0	
50 yr	65.0	38.0	778.0	
100 yr	78.0	41.0	885.0	

Table 11: Peak Flows and Target Flows Summary (Discharge towards South Pond)

Storm Event	Peak Flow (L/s)		Storage Volume Required (m ³)	Storage Volume Provided (m ³)
	Pre-Development	Post-Development		
	101C + EXT5	201C + EXT5		
2 yr	28.0	7.0	533.0	1152.0
5 yr	57.0	39.0	644.0	
10 yr	76.0	63.0	744.0	
25 yr	104.0	89.0	893.0	
50 yr	127.0	106.0	1019.0	
100 yr	151.0	120.0	1152.0	

A *RouteReservoir* component was used in Visual OTTHYMO to model the proposed stormwater management facility and determine the active storage volumes required to control the peak flows for the 2-year to 100-year storm events. The 24-hour SCS Type II design storm was modelled using the IDF parameters for a station 8km east of Shelburne, found using the MTO IDF Curve Lookup Tool. To meet quantity control criteria, 1958 m³ of active storage volume is required to control the 100-year 24-hour SCS Type II design storm for the North Pond as well as 885 m³ for the Mid Pond and 1152 m³ for the South Pond. Required active storage volumes for each storm event are summarized above in Table 9, Table 10 and Table 11. The total active storage provided in the stormwater management ponds is greater than the requirements, providing an additional 0.3 m of freeboard to the top of berm (not included in active storage). The Visual OTTHYMO input and output files and model schematics have been provided in **Appendix C**.

7.3 Stormwater Quality Control

Stormwater quality controls for the site must incorporate measures to provide an Enhanced Level of Protection according to the MOE (March 2003) guidelines. Enhanced water quality protection involves the removal of at least 80% of the Total Suspended Solids (TSS) from 90% of the annual runoff volume.

Water quality control for Catchments 201A, 201B and 201C will be provided using oil-grit separators (OGSs) (Stormceptor EF4 or approved equivalent). The OGSs, located upstream of the proposed dry ponds, will provide quality control for runoff before it enters the stormwater management facilities so that treated stormwater is discharged into the existing tributary on site. Details of the proposed OGSs will be provided in a future submission.

Catchment 202 will discharge uncontrolled towards the existing wetland feature and Catchments 203 and UC1 will discharge uncontrolled towards the Tributary of the Boyne River, consistent with the existing overland flow conditions. The uncontrolled flow from this catchment primarily consists of clean runoff; therefore, quality controls have not been provided for this catchment.

7.4 Erosion Control

According to the NVCA Stormwater Technical Guide (December 2013), erosion control is recommended such that the 25 mm design storm is retained over at least a 48-hour period.

The proposed dry ponds will retain the 25mm event for at least 48 hours due to the orifice control before outletting into the Tributary of the Boyne River. See **Appendix C** for full calculations.

7.5 Groundwater Considerations

The Crozier Hydrogeological investigation and Water Resource Management Report was completed in April 2025, where groundwater levels in six (6) monitoring wells were measured between July 2024 and March 2025. Please refer to the Hydrogeological Investigation Report under separate cover for the full details and findings.

The highest groundwater depths in the monitoring wells closest to each of the proposed dry ponds were compared to the ground elevations derived from a LiDAR data from LIO (DTM 2019) to determine the groundwater elevations.

In the case of all three proposed dry ponds, the measured groundwater elevations to-date are higher than the proposed bottom of pond elevations. Due to this, the dry ponds may require a clay liner or geosynthetic liner to prevent groundwater seepage into the facilities. The design of these liners, if necessary, will be prepared by the Geotechnical Engineer and provided at detailed design.

8.0 Hydraulic Considerations

Crozier created a revised version of the hydraulic model of the existing conditions based on the original model received from NVCA and detailed topographic survey provided by VanHarten. The Floodplain Analysis Memo, completed by Crozier on September 19th, 2024, details all the revisions to the model. The Regional flood elevation is 488.04m at the Chipwoods internal road is a maximum of 0.28m above the surface of the road. This is very close to the safe access limit of 0.3m above the road surface.

A proposed scenario with a larger culvert under the Chipwoods internal road was modelled. This was to determine the impacts of the current ponding area upstream of the internal road as well as safe access on the internal road. A proposed concrete box culvert with a span of 2.4m and a rise of 1.2m was coded in to replace the existing 0.55m culvert with a weir structure. The proposed Regional flood elevation drops to 487.49m which is a 0.55m elevation reduction. This will clear the internal road of any flooding and will provide safe access to vehicles as well as reduce the ponding upstream of the internal road. The ecological and environmental impacts of reducing the existing ponding will be investigated under separate cover by Azimuth Environmental; however, at this time, it is understood the replacement of the culvert will provide a net benefit to the ecological and aquatic health of the Tributary.

9.0 Conclusions and Recommendations

This report was prepared in support of the Official Plan Amendment (OPA) and Zoning By-Law Amendment (ZBA) for the proposed residential development located at 476420 3rd Line in the Township of Melancthon, County of Dufferin. The proposed development can be serviced for water, sanitary and stormwater management in accordance with the Town, County and provincial requirements and standards. Our conclusions and recommendations include:

Proposed Water Service

1. The domestic peak hourly water demand for the proposed development is 14.46 L/s. The design fire flow is 50 L/s for 1.25 hours.
2. Water demand for the proposed development will be met by connecting a 50mm PVC watermain to the proposed well system. A 3m x 3m water treatment block is proposed to house the water treatment and pumping equipment. These details will be provided in a future submission package.

Proposed Sanitary Service

1. The total peak sanitary flow for the proposed development is 15.58 L/s.
2. Sanitary conveyance for the proposed development will be provided using a 200 mm diameter PVC sanitary sewer network which will convey and direct flows to the proposed advanced sewage treatment block. A pumping station and sanitary forcemain is proposed to direct sanitary flows from south of the creek to the treatment system block north of the creek.
3. Details of the proposed pumping station and the sanitary treatment systems will be provided in a future submission package.

Stormwater Management

1. The site grading and stormwater management system has been designed to mimic existing drainage conditions as much as possible.
2. The site's stormwater runoff will be collected in catchbasins and conveyed to one of three stormwater management facilities through the storm sewer system for events up to and including the 5-year storm event. Events greater than the 5-year will be conveyed via overland flow to the stormwater management facilities, which have been designed to control post-development peak flows to pre-development rates for the 2 year through 100-year storm events.
3. Stormwater quality controls for the site will be provided by an in-line-oil-grit- separator unit installed upstream of each of the three stormwater management facilities.

Based on the above conclusions, we recommend the approval of the Official Plan Amendment and Zoning By-Law Amendment from the perspective of servicing and stormwater management.

Respectfully submitted,

C.F.CROZIER & ASSOCIATES INC.



Matt Bowman
Engineering Intern, Land Development

MB/tc

C.F. CROZIER & ASSOCIATES INC.



Trevor Fraser, P.Eng.
Project Manager, Land Development

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APPENDIX A

Water Demand Calculations

Proposed Domestic Water Demand

Notes & References

Site Area: 37.38 ha

Number of Units: 224 Units

Eqv Population Density: 3.0 Persons Per Unit

Population: 672 capita

Commercial Area: 0.00 ha

Eqv Population Density: 86 Persons per ha

Population: 0 capita

Design Parameters

Domestic Demand (L/capita/d)	
450	Residential
225	Commercial

Domestic Water Demand (Residential):

Average Daily Demand = 302,400 L/day
 = **3.50 L/s**

Peaking Factors (Residential)

Max Day = 2.75
 Peak Hour = 4.13

Average Day = 3.50 L/s
 Max Day = **9.63** L/s
 Peak Hour = **14.46** L/s

Development Concept Plan prepared by GSAI (June, 2025)

Population Equivalent Assumed based on the Building Concepts prepared by Sheldon Creek Homes (November, 2024)

Average Demand from Section E1.05 of the Town of Shelburne Design Criteria (October 2012)

Peaking Factors from Table 3-1 of the Ministry of Environment Design Guidelines for Drinking Water Systems (2008)

Max Day = Average Day Demand * Max Day
 Peak Hour = Average Day Demand * Peak Hour

Municipality	Average Daily Water Demand (L/s)	Max Day Demand (L/s)	Peak Hourly Demand (L/s)	
Town of Shelburne	3.50	9.63	14.46	



Water Supply for Public Fire Protection (2020)

Page 1

Fire Underwriters Survey

Assumptions:

- 1) Construction type for the proposed high-rise buildings is assumed to be non-combustible.
- 2) Building gross-floor area is based on Floor Plans prepared by Elevate Home Designs dated November 2024.
- 3) The building will be equipped with complete automatic sprinkler protection based on similar types of construction.

Part II - Guide for Determination of Required Fire Flow

1. An estimate of fire flow required for a given area may be determined by the formula:

$$F = 220 * C * \sqrt{A}$$

Where:

F = the required fire flow in litres per minute

C = coefficient related to the type of construction:

= 1.5	for wood frame construction (structure essentially all combustible)
= 0.8	for type IV-A mass timber construction
= 0.9	for type IV-B mass timber construction
= 1.0	for type IV-C mass timber construction
= 1.5	for type IV-D mass timber construction
= 1.0	for ordinary construction (brick or other masonry walls, combustible floor and interior)
= 0.8	for non-combustible construction (unprotected metal structural components)
= 0.6	for fire-resistive construction (fully protected frame, floors, roof)

A = The largest floor area in square meters (plus the following percentages of the total areas of the other floors).

For Construction Coefficient from 1.0 to 1.5:

= 100% of ALL Floor Areas

For Construction Coefficient below 1.0:

- Floors With Any Unprotected Vertical Openings in the Building

= two largest adjoining floors + 50% all floors immediately above (max 8 floors)

- Floors With Any Protected Vertical Openings and Protected Exterior Vertical Communications

= 25% each of two immediately adjoining floors

Proposed Buildings (GFA are as per Site Plan)

Area:

A= 51.10 sq.m

A= 12.54 sq.m

GFA of Ground Floor per Concept A Floor Plans prepared by Elevate Home Designs (November 2024)
GFA of 25% of the two immediately adjoining floor 2.

C= 0.8

Therefore RFF = 1,500 L/min

Fire flow determined above shall not exceed:

30,000 L/min for wood frame construction

30,000 L/min for ordinary construction

25,000 L/min for non-combustible construction

25,000 L/min for fire-resistive construction

2. Values obtained in No. 1 may be reduced by as much as 25% for occupancies having low contents fire hazard or may be increased by up to 25% surcharge for occupancies having a high fire hazard.

*Non-Combustible	-25%	Free Burning	15%
Limited Combustible	-15%	Rapid Burning	25%
Combustible	0%		

Occupancy Type: Residential (C) Reduction %: -25%

375 L/min reduction

Subtotal = 1,125 L/min

Note: Flow determined shall not be less than 2,000 L/min

3. Sprinklers - The value obtained in No. 2 above may be reduced by up to 50% for complete automatic sprinkler protection.

Automatic Sprinkler Design System	Credit to part of building with coverage
Automatic sprinkler protection designed and installed in accordance with NFPA 13.	30%
Water supply is standard for both the system and Fire Department hose lines.	10%
Fully supervised system.	10%

Reduction %: 0%

- L/min reduction

Subtotal = 1,125 L/min

Part II - Guide for Determination of Required Fire Flow

4. Exposure - To the value obtained in No. 2, a percentage should be added for structures exposed within 30 meters by the fire area under consideration. The percentage shall depend upon the height, area, and construction of the building(s) being exposed, the separation, openings in the exposed building(s), the length and height of exposure, the provision of automatic sprinklers and/or outside sprinklers in the building(s) exposed, the occupancy of the exposed building(s) and the effect of hillside locations on the possible spread of fire.

Separation	Charge	Separation	Charge
0 to 3 m	25%	20.1 to 30 m	10%
3.1 to 10 m	20%	>30 m	0%
10.1 to 20 m	15%		

Exposed buildings

Direction	Distance (m)	Charge	Surcharge (L/min)
Proposed Residential (North)	18	15%	225
Proposed Residential (East)	3	25%	281
Proposed Residential (South)	26	10%	113
Proposed Residential (West)	3	25%	281
Total Surcharge			900

Determine Required Fire Flow

No.1 1,500
No. 2 375 reduction
No. 3 0 reduction
No. 4 900 surcharge

Required Flow: 2,025 L/min
Rounded to nearest 1000 L/min: 3,000 L/min or 50 L/s
792 USGPM

Note: USGPM = 0.264*(L/min)

Required Duration of Fire Flow	
Flow Required (L/min)	Duration (hours)
2,000 or less	1.00
3,000	1.25
4,000	1.50
5,000	1.75
6,000	2.00
8,000	2.00
10,000	2.00
12,000	2.50
14,000	3.00
16,000	3.50
18,000	4.00
20,000	4.50
22,000	5.00
24,000	5.50
26,000	6.00
28,000	6.50
30,000	7.00
32,000	7.50
34,000	8.00
36,000	8.50
38,000	9.00
40,000 and over	9.50

APPENDIX B

Sanitary Flow Calculations

APPENDIX C

Stormwater Management Calculations



Project Name: Chipwoods Park
Project Number: 2621-7000
Created By: CM
Reviewed By: TF

D.A. NAME 101A
D.A. AREA 2.64

Hydrologic Parameters: CALIB NASHYD Command
Pre Development Drainage Area: Catchment 101A

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic	% Area	Area
Caledon Sandy Loam	Cgf	A	100	2.64
				0
				0
				0
Total Area				2.64

Impervious Landuses Present:													
		Roadway		Sidewalk		Gravel Driveway		House		SWMF		Subtotals	
Soils	Area	CN	Area	CN	Area	CN	Area (ha)	CN	Area	CN	Area	Area	A*CN
Cgf					0.14	100	0.02	100				0.16	16.47
Subtotal													
Pervious Landuses Present:													
		Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotals	
Soils	Area	CN	Area	CN	Area	CN	Area (ha)	CN	Area	CN	Area	Area	A*CN
Cgf	2.48	32										2.48	79.21
Subtotal													
						Composite Area Calculations		Total Pervious Area				2.48	
								Total Impervious Area				0.16	
								% Impervious				6.24%	
								Composite Curve Number				36.2	
								Total Area Check				2.64	

Initial Abstraction and Tp Calculations

Initial Abstraction				Composite Runoff Coefficient									
Landuse	IA (mm)	Area (ha)	A * IA	Caledon Sandy		0		0		0			
				RC	Area	RC	Area	RC	Area	RC	Area	A*RC	
Woodland	10	2.48	24.75	0.12	2.48		0		0		0	0.30	
Meadow	8	0	0		0		0		0		0	0	
Wetland	16	0	0		0		0		0		0	0	
Lawn	5	0	0		0		0		0		0	0.00	
Cultivated	7	0.00	0		0		0		0		0	0	
Impervious	2	0.16	0.33	0.60	0.16		0		0		0	0.10	
Composite		2.64	9.50	Composite Runoff Coefficient								0.15	

Time to Peak Inputs						Uplands			Bransby Williams		Airport	
Flow Path Description	Length (m)	Drop (m)	Slope (%)	V/S ^{0.5}	Velocity (m/s)	Tc (hr)	Tp(hr)	TOTAL Tp (hr)	Tc (hr)	Tp(hr)	Tc (hr)	Tp(hr)
Overland	400.0	5.75	1.44%	2.3	0.28	0.40	0.27	0.27	0.32	0.21	0.92	0.61

Appropriate calculated time to peak:	0.61	Appropriate Method:	Airport



Project Name: Chipwoods Park
Project Number: 2621-7000
Created By: CM
Reviewed By: TF

D.A. NAME 101B
D.A. AREA 1.25

Hydrologic Parameters: CALIB NASHYD Command
Pre Development Drainage Area: Catchment 101B

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic	% Area	Area
Caledon Sandy Loam	Cgf	A	100	1.25
				0
				0
				0
Total Area				1.25

Impervious Landuses Present:													
Roadway		Sidewalk		Gravel Driveway		House		SWMF		Subtotals			
Soils	Area	CN	Area	CN	Area	CN	Area (ha)	CN	Area	CN	Area	A*CN	
Cgf					0.07	100	0.06	100			0.12	12.00	
Subtotal													
Pervious Landuses Present:													
Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotals			
Soils	Area	CN	Area	CN	Area	CN	Area (ha)	CN	Area	CN	Area	A*CN	
Cgf	1.13	32									1.13	36.16	
Subtotal													
				Composite Area Calculations		Total Pervious Area				1.13			
						Total Impervious Area				0.12			
						% Impervious				9.60%			
						Composite Curve Number				38.5			
Total Area Check											1.25		

Initial Abstraction and Tp Calculations

Initial Abstraction				Composite Runoff Coefficient							
Landuse	IA (mm)	Area (ha)	A * IA	Caledon Sandy		0		0		0	
				RC	Area	RC	Area	RC	Area	RC	Area
Woodland	10	1.13	11.30	0.12	1.13		0		0		0
Meadow	8	0	0		0		0		0		0
Wetland	16	0	0		0		0		0		0
Lawn	5	0	0		0		0		0		0.00
Cultivated	7	0.00	0		0		0		0		0
Impervious	2	0.12	0.24	0.60	0.12		0		0		0.07
Composite		1.25	9.23	Composite Runoff Coefficient							0.17

Time to Peak Inputs						Uplands			Bransby Williams		Airport	
Flow Path Description	Length (m)	Drop (m)	Slope (%)	V/S ^{0.5}	Velocity (m/s)	Tc (hr)	Tp(hr)	TOTAL Tp (hr)	Tc (hr)	Tp(hr)	Tc (hr)	Tp(hr)
Overland	100.0	3.5	3.50%	2.3	0.43	0.06	0.04	0.04	0.07	0.05	0.34	0.22

Appropriate calculated time to peak:	0.22	Appropriate Method:	Airport



Project Name: Chipwoods Park
Project Number: 2621-7000
Created By: CM
Reviewed By: TF

D.A. NAME 101C
D.A. AREA 2.55

Hydrologic Parameters: CALIB NASHYD Command
Pre Development Drainage Area: Catchment 101C

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic	% Area	Area
Caledon Sandy Loam	Cgf	A	100	2.55
				0
				0
				0
Total Area				2.55

Impervious Landuses Present:													
		Roadway		Sidewalk		Gravel Driveway		House		SWMF		Subtotals	
Soils	Area	CN	Area	CN	Area	CN	Area (ha)	CN	Area	CN	Area	Area	A*CN
Cgf					0.12	100	0.06	100				0.18	18.35
Subtotal													
Pervious Landuses Present:													
		Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotals	
Soils	Area	CN	Area	CN	Area	CN	Area (ha)	CN	Area	CN	Area	Area	A*CN
Cgf	2.37	32										2.37	75.73
Subtotal													
						Composite Area Calculations		Total Pervious Area				2.37	
								Total Impervious Area				0.18	
								% Impervious				7.19%	
								Composite Curve Number				36.9	
								Total Area Check				2.55	

Initial Abstraction and Tp Calculations

Initial Abstraction				Composite Runoff Coefficient									
Landuse	IA (mm)	Area (ha)	A * IA	Caledon Sandy		0		0		0			
				RC	Area	RC	Area	RC	Area	RC	Area	A*RC	
Woodland	10	2.37	23.67	0.12	2.37		0		0		0	0	0.28
Meadow	8	0	0		0		0		0		0	0	0
Wetland	16	0	0		0		0		0		0	0	0
Lawn	5	0	0		0		0		0		0	0	0.00
Cultivated	7	0.00	0		0		0		0		0	0	0
Impervious	2	0.18	0.37	0.60	0.18		0		0		0	0	0.11
Composite		2.55	9.42	Composite Runoff Coefficient									0.15

Time to Peak Inputs						Uplands			Bransby Williams		Airport	
Flow Path Description	Length (m)	Drop (m)	Slope (%)	V/S ^{0.5}	Velocity (m/s)	Tc (hr)	Tp(hr)	TOTAL Tp (hr)	Tc (hr)	Tp(hr)	Tc (hr)	Tp(hr)
Overland	320.0	6.5	2.03%	2.3	0.33	0.27	0.18	0.18	0.24	0.16	0.73	0.49

Appropriate calculated time to peak:	0.49	Appropriate Method:	Airport



Project Name: Chipwoods Park
Project Number: 2621-7000
Created By: CM
Reviewed By: TF

D.A. NAME EXT5
D.A. AREA 0.66

Hydrologic Parameters: CALIB NASHYD Command
Pre Development Drainage Area: Catchment EXT5

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic	% Area	Area
Caledon Sandy Loam	Cgf	A	100	0.66
				0
				0
				0
Total Area				0.66

Impervious Landuses Present:											
Roadway		Sidewalk		Gravel Driveway		House		SWMF		Subtotals	
Soils	Area	CN	Area	CN	Area	CN	Area (ha)	CN	Area	CN	Area A*CN
Cgf											0.00 0.00
Subtotal											
Pervious Landuses Present:											
Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotals	
Soils	Area	CN	Area	CN	Area	CN	Area (ha)	CN	Area	CN	Area A*CN
Cgf									0.66	62	0.66 40.92
Subtotal											
					Composite Area Calculations		Total Pervious Area				0.66
							Total Impervious Area				0.00
							% Impervious				0.00%
							Composite Curve Number				62.0
							Total Area Check				0.66

Initial Abstraction and Tp Calculations

Initial Abstraction				Composite Runoff Coefficient								
Landuse	IA (mm)	Area (ha)	A * IA	Caledon Sandy		0		0		0		
				RC	Area	RC	Area	RC	Area	RC	Area	
Woodland	10	0.00	0.00		0.00		0		0		0	0.00
Meadow	8	0	0		0		0		0		0	0
Wetland	16	0	0		0		0		0		0	0
Lawn	5	0	0		0		0		0		0	0.00
Cultivated	7	0.66	4.62	0.22	0.66		0		0		0	0
Impervious	2	0.00	0.00		0.00		0		0		0	0.00
Composite		0.66	7.00	Composite Runoff Coefficient								0.22

Time to Peak Inputs						Uplands			Bransby Williams		Airport	
Flow Path Description	Length (m)	Drop (m)	Slope (%)	V/S ^{0.5}	Velocity (m/s)	Tc (hr)	Tp (hr)	TOTAL Tp (hr)	Tc (hr)	Tp (hr)	Tc (hr)	Tp (hr)
Overland	70.0	2	2.86%	2.3	0.39	0.05	0.03	0.03	0.06	0.04	0.28	0.19

Appropriate calculated time to peak:	0.19	Appropriate Method:	Airport



Project Name: Chipwoods Park
Project Number: 2621-7000
Created By: CM
Reviewed By: TF

D.A. NAME 102
D.A. AREA 3.24

Hydrologic Parameters: CALIB NASHYD Command
Pre Development Drainage Area: Catchment 102

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic	% Area	Area
Caledon Sandy Loam	Cgf	A	100	3.24
				0
				0
				0
Total Area				3.24

Impervious Landuses Present:											
Roadway		Sidewalk		Gravel Driveway		House		SWMF		Subtotals	
Soils	Area	CN	Area	CN	Area	CN	Area (ha)	CN	Area	CN	Area A*CN
Cgf					0.02	100	0.04	100			0.06 5.73
Subtotal											
Pervious Landuses Present:											
Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotals	
Soils	Area	CN	Area	CN	Area	CN	Area (ha)	CN	Area	CN	Area A*CN
Cgf	2.49	32			0.69	50					3.18 114.27
Subtotal											
					Composite Area Calculations		Total Pervious Area			3.18	
							Total Impervious Area			0.06	
							% Impervious			1.77%	
							Composite Curve Number			37.0	
							Total Area Check			3.24	

Initial Abstraction and Tp Calculations

Initial Abstraction				Composite Runoff Coefficient							
Landuse	IA (mm)	Area (ha)	A * IA	Caledon Sandy		0		0		0	
				RC	Area	RC	Area	RC	Area	RC	Area
Woodland	10	2.49	24.93	0.12	2.49		0		0		0
Meadow	8	0	0		0		0		0		0
Wetland	16	0.69	11.04	0.05	1		0		0		0
Lawn	5	0	0		0		0		0		0.00
Cultivated	7	0.00	0		0.00		0		0		0
Impervious	2	0.06	0.11	0.60	0.06		0		0		0.03
Composite		3.24	11.14	Composite Runoff Coefficient							0.11

Time to Peak Inputs						Uplands			Bransby Williams		Airport	
Flow Path Description	Length (m)	Drop (m)	Slope (%)	V/S ^{0.5}	Velocity (m/s)	Tc (hr)	Tp (hr)	TOTAL Tp (hr)	Tc (hr)	Tp (hr)	Tc (hr)	Tp (hr)
Overland	137.0	1.5	1.09%	2.3	0.24	0.16	0.11	0.11	0.11	0.08	0.61	0.41

Appropriate calculated time to peak:	0.41	Appropriate Method:	Airport



Project Name: Chipwoods Park
Project Number: 2621-7000
Created By: CM
Reviewed By: TF

D.A. NAME 103
D.A. AREA 3.37

Hydrologic Parameters: CALIB NASHYD Command
Pre Development Drainage Area: Catchment 103

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic	% Area	Area
Caledon Sandy Loam	Cgf	A	100	3.37
				0
				0
				0
Total Area				3.37

Impervious Landuses Present:													
		Roadway		Sidewalk		Gravel Driveway		House		SWMF		Subtotals	
Soils	Area	CN	Area	CN	Area	CN	Area (ha)	CN	Area	CN	Area	Area	A*CN
Cgf					0.06	100	0.02	100	0.58			0.66	7.90
Subtotal													
Pervious Landuses Present:													
		Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotals	
Soils	Area	CN	Area	CN	Area	CN	Area (ha)	CN	Area	CN	Area	Area	A*CN
Cgf	2.09	32					0.62	49				2.71	97.29
Subtotal													
						Composite Area Calculations		Total Pervious Area				2.71	
								Total Impervious Area				0.66	
								% Impervious				19.55%	
								Composite Curve Number				31.2	
								Total Area Check				3.37	

Initial Abstraction and Tp Calculations

Initial Abstraction				Composite Runoff Coefficient									
Landuse	IA (mm)	Area (ha)	A * IA	Caledon Sandy		0		0		0			
				RC	Area	RC	Area	RC	Area	RC	Area	A*RC	
Woodland	10	2.09	20.91	0.12	2.09		0		0		0	0.25	
Meadow	8	0	0		0		0		0		0	0	
Wetland	16	0.00	0.00		0		0		0		0	0	
Lawn	5	1	3	0.15	1		0		0		0	0.09	
Cultivated	7	0.00	0		0		0		0		0	0	
Impervious	2	0.66	1.32	0.05	0.66		0		0		0	0.03	
Composite		3.37	7.52	Composite Runoff Coefficient								0.11	

Time to Peak Inputs						Uplands			Bransby Williams		Airport	
Flow Path Description	Length (m)	Drop (m)	Slope (%)	V/S ^{0.5}	Velocity (m/s)	Tc (hr)	Tp (hr)	TOTAL Tp (hr)	Tc (hr)	Tp (hr)	Tc (hr)	Tp (hr)
Overland	83.0	3	3.61%	2.3	0.44	0.05	0.04	0.04	0.05	0.04	0.32	0.21

Appropriate calculated time to peak:	0.21	Appropriate Method:	Airport



Project Name: Chipwoods Park
Project Number: 2621-7000
Created By: CM
Reviewed By: TF

D.A. NAME UC1 (Pre)
D.A. AREA 14.45

Hydrologic Parameters: CALIB NASHYD Command
Pre Development Drainage Area: Catchment UC1 (Pre)

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic	% Area	Area
Caledon Sandy Loam	Cgf	A	100	14.45
				0
				0
				0
Total Area				14.45

Impervious Landuses Present:														
Soils		Roadway		Sidewalk		Gravel Driveway		House		SWMF		Subtotals		
	Area	CN	Area	CN	Area	CN	Area (ha)	CN	Area	CN	Area	CN	Area	A*CN
Cgf Subtotal												0.00	0.00	
Pervious Landuses Present:														
Soils		Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotals		
	Area	CN	Area	CN	Area	CN	Area (ha)	CN	Area	CN	Area	CN	Area	A*CN
Cgf Subtotal												14.45	462.40	
				Composite Area Calculations			Total Pervious Area					14.45		
							Total Impervious Area					0.00		
							% Impervious					0.00%		
							Composite Curve Number					32.0		
Total Area Check												14.45		

Initial Abstraction and Tp Calculations

Initial Abstraction				Composite Runoff Coefficient							
Landuse	IA (mm)	Area (ha)	A * IA	Caledon Sandy		0		0		0	
				RC	Area	RC	Area	RC	Area	RC	Area
Woodland	10	14.45	144.50	0.12	14.45		0		0		0
Meadow	8	0	0		0		0		0		0
Wetland	16	0.00	0.00		0		0		0		0
Lawn	5	0	0	0.15	0		0		0		0.00
Cultivated	7	0.00	0		0		0		0		0
Impervious	2	0.00	0.00	0.05	0.00		0		0		0.00
Composite		14.45	10.00	Composite Runoff Coefficient							0.12

Time to Peak Inputs						Uplands			Bransby Williams		Airport	
Flow Path Description	Length (m)	Drop (m)	Slope (%)	V/S ^{0.5}	Velocity (m/s)	Tc (hr)	Tp(hr)	TOTAL Tp (hr)	Tc (hr)	Tp(hr)	Tc (hr)	Tp(hr)
Overland	655.0	9	1.37%	2.3	0.27	0.67	0.45	0.45	0.45	0.30	1.23	0.82

Appropriate calculated time to peak:	0.82	Appropriate Method:	Airport



Project Name: Chipwoods Park
Project Number: 2621-7000
Created By: CM
Reviewed By: TF

D.A. NAME UC2
D.A. AREA 9.65

Hydrologic Parameters: CALIB NASHYD Command
Pre and Post Development Drainage Area: Catchment UC2

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic	% Area	Area
Caledon Sandy Loam	Cgf	A	100	9.65
				0
				0
				0
Total Area				9.65

Impervious Landuses Present:												
Soils	Roadway		Sidewalk		Gravel Driveway		House		SWMF		Subtotals	
	Area	CN	Area	CN	Area	CN	Area (ha)	CN	Area	CN	Area	A*CN
Cgf											0.00	0.00
Subtotal												
Pervious Landuses Present:												
Soils	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotals	
	Area	CN	Area	CN	Area	CN	Area (ha)	CN	Area	CN	Area	A*CN
Cgf	9.65	32									9.65	308.80
Subtotal												
				Composite Area Calculations			Total Pervious Area				9.65	
							Total Impervious Area				0.00	
							% Impervious				0.00%	
							Composite Curve Number				32.0	
Total Area Check											9.65	

Initial Abstraction and Tp Calculations

Initial Abstraction				Composite Runoff Coefficient							
Landuse	IA (mm)	Area (ha)	A * IA	Caledon Sandy		0		0		0	
				RC	Area	RC	Area	RC	Area	RC	Area
Woodland	10	9.65	96.50	0.12	9.65		0		0		0
Meadow	8	0	0		0		0		0		0
Wetland	16	0.00	0.00		0		0		0		0
Lawn	5	0	0	0.15	0		0		0		0.00
Cultivated	7	0.00	0		0		0		0		0
Impervious	2	0.00	0.00	0.05	0.00		0		0		0.00
Composite		9.65	10.00	Composite Runoff Coefficient							
											0.12

Time to Peak Inputs						Uplands			Bransby Williams		Airport	
Flow Path Description	Length (m)	Drop (m)	Slope (%)	V/S ^{0.5}	Velocity (m/s)	Tc (hr)	Tp(hr)	TOTAL Tp (hr)	Tc (hr)	Tp(hr)	Tc (hr)	Tp(hr)
Overland	378.0	3.5	0.93%	2.3	0.22	0.47	0.32	0.32	0.29	0.19	1.06	0.71

Appropriate calculated time to peak:	0.71	Appropriate Method:	Airport



Project Name: Chipwoods Park
Project Number: 2621-7000
Created By: CM
Reviewed By: TF

D.A. NAME UC3
D.A. AREA 0.23

Hydrologic Parameters: CALIB NASHYD Command
Pre and Post Development Drainage Area: Catchment UC3

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic	% Area	Area
Caledon Sandy Loam	Cgf	A	100	0.23
				0
				0
				0
Total Area				0.23

Impervious Landuses Present:													
Soils	Roadway		Sidewalk		Gravel Driveway		House		SWMF		Subtotals		
	Area	CN	Area	CN	Area	CN	Area (ha)	CN	Area	CN	Area	A*CN	
Cgf												0.00	0.00
Subtotal													
Pervious Landuses Present:													
Soils	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotals		
	Area	CN	Area	CN	Area	CN	Area (ha)	CN	Area	CN	Area	A*CN	
Cgf	0.23	32										0.23	7.37
Subtotal													
				Composite Area Calculations			Total Pervious Area				0.23		
							Total Impervious Area				0.00		
							% Impervious				0.00%		
							Composite Curve Number				32.0		
Total Area Check												0.23	

Initial Abstraction and Tp Calculations

Initial Abstraction				Composite Runoff Coefficient							
Landuse	IA (mm)	Area (ha)	A * IA	Caledon Sandy		0		0		0	
				RC	Area	RC	Area	RC	Area	RC	Area
Woodland	10	0.23	2.30	0.12	0.23		0		0		0
Meadow	8	0	0		0		0		0		0
Wetland	16	0.00	0.00		0		0		0		0
Lawn	5	0	0	0.15	0		0		0		0
Cultivated	7	0.00	0		0		0		0		0
Impervious	2	0.00	0.00	0.05	0.00		0		0		0
Composite		0.2303	10.00	Composite Runoff Coefficient							
				0.12							

Time to Peak Inputs						Uplands			Bransby Williams		Airport	
Flow Path Description	Length (m)	Drop (m)	Slope (%)	V/S ^{0.5}	Velocity (m/s)	Tc (hr)	Tp (hr)	TOTAL Tp (hr)	Tc (hr)	Tp (hr)	Tc (hr)	Tp (hr)
Overland	167.0	4.5	2.69%	2.3	0.38	0.12	0.08	0.08	0.15	0.10	0.50	0.33

Appropriate calculated time to peak:	0.33	Appropriate Method:	Airport



Project Name: Chipwoods Park
Project Number: 2621-7000
Created By: CM
Reviewed By: TF

D.A. NAME EXT1
D.A. AREA 12.11

Hydrologic Parameters: CALIB NASHYD Command
Pre and Post Development Drainage Area: Catchment EXT1

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic	% Area	Area
Caledon Sandy Loam	Cgf	A	100	12.11
				0
				0
				0
Total Area				12.11

Impervious Landuses Present:												
Roadway		Sidewalk		Gravel Driveway		House		SWMF		Subtotals		
Soils	Area	CN	Area	CN	Area	CN	Area (ha)	CN	Area	CN	Area	A*CN
Cgf											0.00	0.00
Subtotal												
Pervious Landuses Present:												
Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotals		
Soils	Area	CN	Area	CN	Area	CN	Area (ha)	CN	Area	CN	Area	A*CN
Cgf	3.80	32			4.52	50			3.79	62	12.11	582.63
Subtotal												
				Composite Area Calculations			Total Pervious Area			12.11		
							Total Impervious Area			0.00		
							% Impervious			0.00%		
							Composite Curve Number			48.1		
Total Area Check											12.11	

Initial Abstraction and Tp Calculations

Initial Abstraction				Composite Runoff Coefficient							
Landuse	IA (mm)	Area (ha)	A * IA	Caledon Sandy		0		0		0	
				RC	Area	RC	Area	RC	Area	RC	Area
Woodland	10	3.80	37.98	0.12	3.80		0		0		0
Meadow	8	0	0		0		0		0		0
Wetland	16	4.52	72.32	0.05	5		0		0		0
Lawn	5	0	0	0.15	0		0		0		0.00
Cultivated	7	3.79	26.54	0.22	4		0		0		1
Impervious	2	0.00	0.00	0.05	0.00		0		0		0.00
Composite		12.11	11.30	Composite Runoff Coefficient							
											0.13

Time to Peak Inputs						Uplands			Bransby Williams		Airport	
Flow Path Description	Length (m)	Drop (m)	Slope (%)	V/S ^{0.5}	Velocity (m/s)	Tc (hr)	Tp(hr)	TOTAL Tp (hr)	Tc (hr)	Tp(hr)	Tc (hr)	Tp(hr)
Overland	440.0	11	2.50%	2.3	0.36	0.34	0.23	0.23	0.27	0.18	0.82	0.55

Appropriate calculated time to peak:	0.55	Appropriate Method:	Airport



Project Name: Chipwoods Park
Project Number: 2621-7000
Created By: CM
Reviewed By: TF

D.A. NAME EXT2
D.A. AREA 1.60

Hydrologic Parameters: CALIB NASHYD Command
Pre and Post Development Drainage Area: Catchment EXT2

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic	% Area	Area
Caledon Sandy Loam	Cgf	A	100	1.60
				0
				0
				0
Total Area				1.60

Impervious Landuses Present:																	
Soils		Roadway		Sidewalk		Gravel Driveway		House		SWMF		Subtotals					
	Area	CN	Area	CN	Area	CN	Area (ha)	CN	Area	CN	Area	CN	Area	A*CN			
Cgf Subtotal												0.00	0.00				
Pervious Landuses Present:																	
Soils		Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotals					
	Area	CN	Area	CN	Area	CN	Area (ha)	CN	Area	CN	Area	CN	Area	A*CN			
Cgf Subtotal												0.65	32	0.95	62	1.60	79.60
				Composite Area Calculations			Total Pervious Area					1.60					
							Total Impervious Area					0.00					
							% Impervious					0.00%					
							Composite Curve Number					49.7					
Total Area Check												1.60					

Initial Abstraction and Tp Calculations

Initial Abstraction				Composite Runoff Coefficient							
Landuse	IA (mm)	Area (ha)	A * IA	Caledon Sandy		0		0		0	
				RC	Area	RC	Area	RC	Area	RC	Area
Woodland	10	0.65	6.54	0.12	0.65		0		0		0
Meadow	8	0	0		0		0		0		0
Wetland	16	0.00	0.00	0.05	0		0		0		0
Lawn	5	0	0	0.15	0		0		0		0.00
Cultivated	7	0.95	6.63	0.22	0.95		0		0		0
Impervious	2	0.00	0.00	0.05	0.00		0		0		0.00
Composite		1.60	8.23	Composite Runoff Coefficient							0.18

Time to Peak Inputs						Uplands			Bransby Williams		Airport	
Flow Path Description	Length (m)	Drop (m)	Slope (%)	V/S ^{0.5}	Velocity (m/s)	Tc (hr)	Tp (hr)	TOTAL Tp (hr)	Tc (hr)	Tp (hr)	Tc (hr)	Tp (hr)
Overland	115.0	4	3.48%	2.3	0.43	0.07	0.05	0.05	0.08	0.05	0.36	0.24

Appropriate calculated time to peak:	0.24	Appropriate Method:	Airport



Project Name: Chipwoods Park
Project Number: 2621-7000
Created By: CM
Reviewed By: TF

D.A. NAME EXT3
D.A. AREA 0.87

Hydrologic Parameters: CALIB NASHYD Command
Pre and Post Development Drainage Area: Catchment EXT3

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic	% Area	Area
Caledon Sandy Loam	Cgf	A	100	0.87
				0
				0
				0
Total Area				0.87

Impervious Landuses Present:														
Soils		Roadway		Sidewalk		Gravel Driveway		House		SWMF		Subtotals		
	Area	CN	Area	CN	Area	CN	Area (ha)	CN	Area	CN	Area	CN	Area	A*CN
Cgf Subtotal												0.00	0.00	
Pervious Landuses Present:														
Soils		Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotals		
	Area	CN	Area	CN	Area	CN	Area (ha)	CN	Area	CN	Area	CN	Area	A*CN
Cgf Subtotal												0.87	27.84	
				Composite Area Calculations			Total Pervious Area					0.87		
							Total Impervious Area					0.00		
							% Impervious					0.00%		
							Composite Curve Number					32.0		
Total Area Check												0.87		

Initial Abstraction and Tp Calculations

Initial Abstraction				Composite Runoff Coefficient							
Landuse	IA (mm)	Area (ha)	A * IA	Caledon Sandy		0		0		0	
				RC	Area	RC	Area	RC	Area	RC	Area
Woodland	10	0.87	8.70	0.12	0.87		0		0		0
Meadow	8	0	0		0		0		0		0
Wetland	16	0.00	0.00	0.05	0		0		0		0
Lawn	5	0	0	0.15	0		0		0		0.00
Cultivated	7	0.00	0.00	0.22	0.00		0		0		0
Impervious	2	0.00	0.00	0.05	0.00		0		0		0.00
Composite		0.87	10.00	Composite Runoff Coefficient							0.12

Time to Peak Inputs						Uplands			Bransby Williams		Airport	
Flow Path Description	Length (m)	Drop (m)	Slope (%)	V/S ^{0.5}	Velocity (m/s)	Tc (hr)	Tp(hr)	TOTAL Tp (hr)	Tc (hr)	Tp(hr)	Tc (hr)	Tp(hr)
Overland	63.0	1	1.59%	2.3	0.29	0.06	0.04	0.04	0.06	0.04	0.36	0.24

Appropriate calculated time to peak:	0.24	Appropriate Method:	Airport



Project Name: Chipwoods Park
Project Number: 2621-7000
Created By: CM
Reviewed By: TF

D.A. NAME EXT4
D.A. AREA 1.11

Hydrologic Parameters: CALIB NASHYD Command
Pre and Post Development Drainage Area: Catchment EXT4

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic	% Area	Area
Caledon Sandy Loam	Cgf	A	100	1.11
				0
				0
				0
Total Area				1.11

Impervious Landuses Present:															
Soils		Roadway		Sidewalk		Gravel Driveway		House		SWMF		Subtotals			
	Area	CN	Area	CN	Area	CN	Area (ha)	CN	Area	CN	Area	Area	A*CN		
Cgf Subtotal												0.00	0.00		
Pervious Landuses Present:															
Soils		Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotals			
	Area	CN	Area	CN	Area	CN	Area (ha)	CN	Area	CN	Area	Area	A*CN		
Cgf Subtotal												1.11	62	1.11	68.82
				Composite Area Calculations			Total Pervious Area					1.11			
							Total Impervious Area					0.00			
							% Impervious					0.00%			
							Composite Curve Number					62.0			
Total Area Check												1.11			

Initial Abstraction and Tp Calculations

Initial Abstraction				Composite Runoff Coefficient									
Landuse	IA (mm)	Area (ha)	A * IA	Caledon Sandy		0		0		0			
				RC	Area	RC	Area	RC	Area	RC	Area	A*RC	
Woodland	10	0.00	0.00	0.12	0.00		0		0		0	0.00	
Meadow	8	0	0		0		0		0		0	0	
Wetland	16	0.00	0.00	0.05	0		0		0		0	0	
Lawn	5	0	0	0.15	0		0		0		0	0.00	
Cultivated	7	1.11	7.77	0.22	1.11		0		0		0	0	
Impervious	2	0.00	0.00	0.05	0.00		0		0		0	0.00	
Composite		1.11	7.00	Composite Runoff Coefficient								0.22	

Time to Peak Inputs						Uplands			Bransby Williams		Airport	
Flow Path Description	Length (m)	Drop (m)	Slope (%)	V/S ^{0.5}	Velocity (m/s)	Tc (hr)	Tp(hr)	TOTAL Tp (hr)	Tc (hr)	Tp(hr)	Tc (hr)	Tp(hr)
Overland	165.0	3	1.82%	2.3	0.31	0.15	0.10	0.10	0.14	0.09	0.50	0.34

Appropriate calculated time to peak:	0.34	Appropriate Method:	Airport



Project Name: Chipwoods Park
Project Number: 2621-7000
Created By: CM
Reviewed By: TF

D.A. NAME EXT6
D.A. AREA 1.70

Hydrologic Parameters: CALIB NASHYD Command
Pre and Post Development Drainage Area: Catchment EXT6

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic	% Area	Area
Caledon Sandy Loam	Cgf	A	100	1.70
				0
				0
				0
Total Area				1.70

Impervious Landuses Present:														
Roadway		Sidewalk		Gravel Driveway		House		SWMF		Subtotals				
Soils	Area	CN	Area	CN	Area	CN	Area (ha)	CN	Area	CN	Area	A*CN		
Cgf Subtotal											0.00	0.00		
Pervious Landuses Present:														
Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotals				
Soils	Area	CN	Area	CN	Area	CN	Area (ha)	CN	Area	CN	Area	A*CN		
Cgf Subtotal											1.70	62	1.70	105.40
				Composite Area Calculations		Total Pervious Area					1.70			
						Total Impervious Area					0.00			
						% Impervious					0.00%			
						Composite Curve Number					62.0			
Total Area Check											1.70			

Initial Abstraction and Tp Calculations

Initial Abstraction				Composite Runoff Coefficient							
Landuse	IA (mm)	Area (ha)	A * IA	Caledon Sandy		0		0		0	
				RC	Area	RC	Area	RC	Area	RC	Area
Woodland	10	0.00	0.00	0.12	0.00		0		0		0
Meadow	8	0	0		0		0		0		0
Wetland	16	0.00	0.00	0.05	0		0		0		0
Lawn	5	0	0	0.15	0		0		0		0.00
Cultivated	7	1.70	11.90	0.22	1.70		0		0		0
Impervious	2	0.00	0.00	0.05	0.00		0		0		0.00
Composite		1.70	7.00	Composite Runoff Coefficient							
											0.22

Time to Peak Inputs						Uplands			Bransby Williams		Airport	
Flow Path Description	Length (m)	Drop (m)	Slope (%)	V/S ^{0.5}	Velocity (m/s)	Tc (hr)	Tp(hr)	TOTAL Tp (hr)	Tc (hr)	Tp(hr)	Tc (hr)	Tp(hr)
Overland	293.0	6	2.05%	2.3	0.33	0.25	0.17	0.17	0.23	0.15	0.65	0.43

Appropriate calculated time to peak:	0.43	Appropriate Method:	Airport



Project Name: Chipwoods Park
Project Number: 2621-7000
Created By: CM
Reviewed By: TF

D.A. NAME EXT7
D.A. AREA 1.82

Hydrologic Parameters: CALIB NASHYD Command
Pre and Post Development Drainage Area: Catchment EXT7

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic	% Area	Area
Caledon Sandy Loam	Cgf	A	100	1.82
				0
				0
				0
Total Area				1.82

Impervious Landuses Present:														
Soils		Roadway		Sidewalk		Gravel Driveway		House		SWMF		Subtotals		
	Area	CN	Area	CN	Area	CN	Area (ha)	CN	Area	CN	Area	CN	Area	A*CN
Cgf Subtotal												0.00	0.00	
Pervious Landuses Present:														
Soils		Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotals		
	Area	CN	Area	CN	Area	CN	Area (ha)	CN	Area	CN	Area	CN	Area	A*CN
Cgf Subtotal												1.82	58.24	
				Composite Area Calculations			Total Pervious Area					1.82		
							Total Impervious Area					0.00		
							% Impervious					0.00%		
							Composite Curve Number					32.0		
Total Area Check												1.82		

Initial Abstraction and Tp Calculations

Initial Abstraction				Composite Runoff Coefficient							
Landuse	IA (mm)	Area (ha)	A * IA	Caledon Sandy		0		0		0	
				RC	Area	RC	Area	RC	Area	RC	Area
Woodland	10	1.82	18.20	0.12	1.82		0		0		0
Meadow	8	0	0		0		0		0		0
Wetland	16	0.00	0.00	0.05	0		0		0		0
Lawn	5	0	0	0.15	0		0		0		0.00
Cultivated	7	0.00	0.00	0.22	0.00		0		0		0
Impervious	2	0.00	0.00	0.05	0.00		0		0		0.00
Composite		1.82	10.00	Composite Runoff Coefficient							0.12

Time to Peak Inputs						Uplands			Bransby Williams		Airport	
Flow Path Description	Length (m)	Drop (m)	Slope (%)	V/S ^{0.5}	Velocity (m/s)	Tc (hr)	Tp(hr)	TOTAL Tp (hr)	Tc (hr)	Tp(hr)	Tc (hr)	Tp(hr)
Overland	117.0	2.5	2.14%	2.3	0.34	0.10	0.06	0.06	0.09	0.06	0.45	0.30

Appropriate calculated time to peak: 0.30 | Appropriate Method: Airport

Peak Flow Summary from VO6

Outlet to North Pond

Storm Event	Peak Flow (L/s)		Storage Volume Required (m3)	Storage Volume Provided (m3)
	Pre-Development	Post-Development		
	101A	201A		
2 yr	12.0	5.0	748.0	2563.0
5 yr	25.0	7.0	1162.0	
10 yr	35.0	10.0	1399.0	
25 yr	49.0	18.0	1599.0	
50 yr	61.0	24.0	1760.0	
100 yr	74.0	28.0	1958.0	

Outlet to Mid Pond

Storm Event	Peak Flow (L/s)		Storage Volume Required (m3)	Storage Volume Provided (m3)
	Pre-Development	Post-Development		
	101B	201B		
2 yr	13.0	9.0	336.0	1123.0
5 yr	27.0	23.0	454.0	
10 yr	38.0	29.0	547.0	
25 yr	53.0	34.0	676.0	
50 yr	65.0	38.0	778.0	
100 yr	78.0	41.0	885.0	

Outlet to South Pond

Storm Event	Peak Flow (L/s)		Storage Volume Required (m3)	Storage Volume Provided (m3)
	Pre-Development	Post-Development		
	101C + EXT5	201C + EXT5		
2 yr	28.0	7.0	533.0	1152.0
5 yr	57.0	39.0	644.0	
10 yr	76.0	63.0	744.0	
25 yr	104.0	89.0	893.0	
50 yr	127.0	106.0	1019.0	
100 yr	151.0	120.0	1152.0	



Project: Chipwoods Park
Project No.: 2621-7000
Created By: AJ
Checked By: TF
Date: 2025.04.25

Erosion Control Volume Calculations (MECP) - North Pond

Area Name	Drainage Area			
Area to Pond =	3.73	ha	Percent Impervious	47.0%
Extended detention (MECP) =	435	m ³	Percent Pervious	53.0%

Extended Detention Volume:

Greater of : Wet Pond Detention: V = 40 m³ / ha (MECP requirement)
V = 149 m³

Detention of 25mm Runoff: V = 435 m³ (from VO model)

Required Extended Detention Volume = 435 m³

Extended Detention Specifications - North Pond

(Per MECP)

Extended Detention Volume (Area x runoff from 25mm event)		435
t (drawdown time - seconds, <i>hours in italics</i>)	48.0	172800
Ao (cross section area of orifice - sqm)		0.0044
h (maximum water elevation above orifice for extended detention- m)		0.14
C (discharge coefficient)		0.64
Ap (average surface area for extended detention - sqm)		3283

$$t = 2 \cdot A_p \cdot (h^{0.5}) / (C \cdot A_o \cdot (g \cdot 2)^{0.5})$$

Ao =	0.005 sqm	d =	80	mm

Extended Detention Orifice Diameter (as designed)	d =	75	mm

ACTUAL DRAWDOWN TIME

* Neglecting tailwater conditions*

Extended Detention Volume Used	435
d (orifice diameter, mm)	75
h (maximum head acting on orifice for extended detention, m)	0.14
Ao (cross section area of orifice, m ²)	0.0044
C (discharge coefficient)	0.64
Ap (average surface area for extended detention, m ²)	3283

$$t = 2 \cdot A_p \cdot (h^{0.5}) / (C \cdot A_o \cdot (g \cdot 2)^{0.5})$$

t (hours)	55

Storage - Outflow Calculations - North Pond

Outlet Structure		Main Cell Spillway	
E.D. Orifice Diameter:	0.075 m	Emergency Spill Elev.	m
E.D. Orifice Invert Elevation:	481.50 m	Emerg Spill Bot. Width	m
V-notch angle	N/A degrees	Trap. Side Slopes	:1
V-notch constant	N/A const		
V-notch invert	N/A m		
Weir Diameter:	0.150 m		
Weir Invert:	481.90 m		
E.D. Elev.:	481.64 m		

Pond Dimensions				Total Storage Volume (cu.m)	Outlet Structure			Cell Spillway		Total Discharge (cu.m/s)	Storage (ha-m)
Elev. (m)	Depth Above PP (m)	Area (sqm)	Storage Volume (cu.m)		ED Orifice Discharge (cu.m/s)	V-notch Discharge (cu.m/s)	Rect. Weir Discharge (cu.m/s)	Emerg. Weir Ave. Width (m)	Emerg. Weir Discharge (cu.m/s)		
481.5	0.00	3,051	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
481.6	0.10	3,217	313	313	0.003	0.000	0.000	0.000	0.000	0.003	0.031
481.64	0.14	3,283	435	435	0.004	0.000	0.000	0.000	0.000	0.004	0.044
481.7	0.20	3,396	644	644	0.005	0.000	0.000	0.000	0.000	0.005	0.064
481.8	0.30	3,575	992	992	0.006	0.000	0.000	0.000	0.000	0.006	0.099
481.9	0.40	3,754	1359	1359	0.008	0.000	0.000	0.000	0.000	0.008	0.136
482	0.50	3,933	1743	1743	0.009	0.000	0.015	0.000	0.000	0.024	0.174
482.05	0.55	4,029	1958	1958	0.009	0.000	0.019	0.000	0.000	0.028	0.196



Project: Chipwoods Park
Project No.: 2621-7000
Created By: AJ
Checked By: TF
Date: 2025.04.25

Erosion Control Volume Calculations (MECP) - Mid Pond

Area Name	Drainage Area			
Area to Pond =	2.16	ha	Percent Impervious	42.0%
Extended detention (MECP) =	228	m ³	Percent Pervious	58.0%

Extended Detention Volume:

Greater of : Wet Pond Detention: V = 40 m³ / ha (MECP requirement)
V = 86 m³

Detention of 25mm Runoff: V = 228 m³ (from VO model)

Required Extended Detention Volume = 228 m³

Extended Detention Specifications - Mid Pond

(Per MECP)

Extended Detention Volume (Area x runoff from 25mm event)		228
t (drawdown time - seconds, <i>hours in italics</i>)	48.0	172800
Ao (cross section area of orifice - sqm)		0.0013
h (maximum water elevation above orifice for extended detention- m)		0.32
C (discharge coefficient)		0.64
Ap (average surface area for extended detention - sqm)		793

$$t = 2 \cdot A_p \cdot (h^{0.5}) / (C \cdot A_o \cdot (g \cdot 2)^{0.5})$$

Ao =	0.002 sqm	d =	48	mm

Extended Detention Orifice Diameter (as designed)	d =	40	mm

ACTUAL DRAWDOWN TIME

* Neglecting tailwater conditions*

Extended Detention Volume Used	228
d (orifice diameter, mm)	40
h (maximum head acting on orifice for extended detention, m)	0.32
Ao (cross section area of orifice, m ²)	0.0013
C (discharge coefficient)	0.64
Ap (average surface area for extended detention, m ²)	793

$$t = 2 \cdot A_p \cdot (h^{0.5}) / (C \cdot A_o \cdot (g \cdot 2)^{0.5})$$

t (hours)	70

Storage - Outflow Calculations - Mid Pond

Outlet Structure			Main Cell Spillway		
E.D. Orifice Diameter:		0.040 m	Emergency Spill Elev.		m
E.D. Orifice Invert Elevation:		484.50 m	Emerg Spill Bot. Width		m
V-notch angle		N/A degrees	Trap. Side Slopes		:1
V-notch constant		N/A const			
V-notch invert		N/A m			
Weir Diameter:		0.150 m			
Weir Invert:		484.90 m			
E.D. Elev.:		484.82 m			

Pond Dimensions				Total Storage Volume (cu.m)	Outlet Structure			Cell Spillway		Total Discharge (cu.m/s)	Storage (ha-m)
Elev. (m)	Depth Above PP (m)	Area (sqm)	Storage Volume (cu.m)		ED Orifice Discharge (cu.m/s)	V-notch Discharge (cu.m/s)	Rect. Weir Discharge (cu.m/s)	Emerg. Weir Ave. Width (m)	Emerg. Weir Discharge (cu.m/s)		
484.5	0.00	665	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
484.6	0.10	687	68	68	0.001	0.000	0.000	0.000	0.000	0.001	0.007
484.7	0.20	736	139	139	0.002	0.000	0.000	0.000	0.000	0.002	0.014
484.8	0.30	786	215	215	0.002	0.000	0.000	0.000	0.000	0.002	0.021
484.82	0.32	793	228	228	0.002	0.000	0.000	0.000	0.000	0.002	0.023
484.9	0.40	835	296	296	0.002	0.000	0.000	0.000	0.000	0.002	0.030
485	0.50	886	382	382	0.002	0.000	0.015	0.000	0.000	0.018	0.038
485.1	0.60	938	473	473	0.003	0.000	0.022	0.000	0.000	0.024	0.047
485.2	0.70	990	569	569	0.003	0.000	0.027	0.000	0.000	0.030	0.057
485.3	0.80	1044	671	671	0.003	0.000	0.031	0.000	0.000	0.034	0.067
485.4	0.90	1098	778	778	0.003	0.000	0.034	0.000	0.000	0.038	0.078
485.49	0.99	1149	885	885	0.004	0.000	0.037	0.000	0.000	0.041	0.089



Project: Chipwoods Park
Project No.: 2621-7000
Created By: AJ
Checked By: TF
Date: 2025.04.25

Erosion Control Volume Calculations (MECP) - South Pond

Area Name	Drainage Area			
Area to Pond =	3.21	ha	Percent Impervious	35.8%
Extended detention (MECP) =	290	m ³	Percent Pervious	64.2%

Extended Detention Volume:

Greater of : Wet Pond Detention: V = 40 m³ / ha (MECP requirement)
V = 128 m³

Detention of 25mm Runoff: V = 290 m³ (from VO model)

Required Extended Detention Volume = 290 m³

Extended Detention Specifications - South Pond

(Per MECP)

Extended Detention Volume (Area x runoff from 25mm event)		290
t (drawdown time - seconds, <i>hours in italics</i>)	48.0	172800
Ao (cross section area of orifice - sqm)		0.0020
h (maximum water elevation above orifice for extended detention- m)		0.24
C (discharge coefficient)		0.64
Ap (average surface area for extended detention - sqm)		1320

$$t = 2 \cdot A_p \cdot (h^{0.5}) / (C \cdot A_o \cdot (g \cdot 2)^{0.5})$$

Ao = 0.003 sqm d = 58 mm

Extended Detention Orifice Diameter (as designed) d = **50** mm

ACTUAL DRAWDOWN TIME

* Neglecting tailwater conditions*

Extended Detention Volume Used	290
d (orifice diameter, mm)	50
h (maximum head acting on orifice for extended detention, m)	0.24
Ao (cross section area of orifice, m ²)	0.0020
C (discharge coefficient)	0.64
Ap (average surface area for extended detention, m ²)	1320

$$t = 2 \cdot A_p \cdot (h^{0.5}) / (C \cdot A_o \cdot (g \cdot 2)^{0.5})$$

t (hours) 65



Project No: Chipwoods Park
 Project: 2621-7000
 File: Stage-Storage-Discharge
 Design by: AJ
 Checked by: TF
 Date: 2025.04.25

Storage - Outflow Calculations - South Pond

Outlet Structure			Main Cell Spillway		
E.D. Orifice Diameter:	0.05 m		Emergency Spill Elev.		m
E.D. Orifice Invert Elevation:	484.90 m		Emerg Spill Bot. Width		m
V-notch angle	N/A degrees		Trap. Side Slopes		:1
V-notch constant	N/A const				
V-notch invert	N/A m				
Weir Diameter:	0.300 m				
Weir Invert:	485.35 m				
E.D. Elev.:	485.14 m				

Pond Dimensions				Total Storage Volume (cu.m)	Outlet Structure			Cell Spillway		Total Discharge (cu.m/s)	Storage (ha-m)
Elev. (m)	Depth Above PP (m)	Area (sqm)	Storage Volume (cu.m)		ED Orifice Discharge (cu.m/s)	V-notch Discharge (cu.m/s)	Rect. Weir Discharge (cu.m/s)	Emerg. Weir Ave. Width (m)	Emerg. Weir Discharge (cu.m/s)		
484.90	0.00	1176	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
485.00	0.10	1223	120	120	0.002	0.000	0.000	0.000	0.000	0.002	0.012
485.10	0.20	1295	246	246	0.002	0.000	0.000	0.000	0.000	0.002	0.025
485.14	0.24	1320	290	290	0.003	0.000	0.000	0.000	0.000	0.003	0.029
485.20	0.30	1366	379	379	0.003	0.000	0.000	0.000	0.000	0.003	0.038
485.30	0.40	1437	519	519	0.003	0.000	0.000	0.000	0.000	0.003	0.052
485.40	0.50	1504	666	666	0.004	0.000	0.043	0.000	0.000	0.047	0.067
485.50	0.60	1573	820	820	0.004	0.000	0.075	0.000	0.000	0.079	0.082
485.60	0.70	1641	981	981	0.005	0.000	0.097	0.000	0.000	0.102	0.098
485.70	0.80	1726	1149	1149	0.005	0.000	0.115	0.000	0.000	0.120	0.115

=====

V V I SSSSS U U A L (v6.2.2015)
V V I SS U U AA L
V V I SS U U AAAAA L
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OOO TTTT TTTT H H Y Y M M OOO TM
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O O T T H H Y M M O O
OOO T T H H Y M M OOO

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***** DETAILED OUTPUT *****

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.2\VO2\voin.dat
Output filename: C:\Users\ajoshi\AppData\Local\Civica\XH5\152aa03f-7064-4fdb-bb4c-0cf677e1e463\cfc3bc8f-206b-4251-9f12-138ac14d981d\scena
Summary filename: C:\Users\ajoshi\AppData\Local\Civica\XH5\152aa03f-7064-4fdb-bb4c-0cf677e1e463\cfc3bc8f-206b-4251-9f12-138ac14d981d\scena

DATE: 04-25-2025 TIME: 04:08:39

USER:

COMMENTS: _____

** SIMULATION : 100yr 24hr 10min SCS Type II **

| READ STORM | Filename: C:\Users\ajoshi\AppData\Local\Temp\7bb2ef64-4018-4f05-a7fd-fa3d49c20288\1fd7f8a9
| Ptotal=130.66 mm | Comments: 100yr 24hr 10min SCS Type II (MTO)

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.00	0.00	6.17	2.35	12.33	18.82	18.50	2.35
0.17	1.44	6.33	2.35	12.50	18.82	18.67	2.35
0.33	1.44	6.50	2.35	12.67	9.67	18.83	2.35
0.50	1.44	6.67	2.35	12.83	9.67	19.00	2.35
0.67	1.44	6.83	2.35	13.00	9.67	19.17	2.35
0.83	1.44	7.00	2.35	13.17	7.06	19.33	2.35
1.00	1.44	7.17	2.87	13.33	7.06	19.50	2.35
1.17	1.44	7.33	2.87	13.50	7.06	19.67	2.35
1.33	1.44	7.50	2.87	13.67	5.49	19.83	2.35
1.50	1.44	7.67	2.87	13.83	5.49	20.00	2.35
1.67	1.44	7.83	2.87	14.00	5.49	20.17	1.57
1.83	1.44	8.00	2.87	14.17	3.92	20.33	1.57
2.00	1.44	8.17	3.40	14.33	3.92	20.50	1.57
2.17	1.70	8.33	3.40	14.50	3.92	20.67	1.57
2.33	1.70	8.50	3.40	14.67	3.92	20.83	1.57
2.50	1.70	8.67	3.66	14.83	3.92	21.00	1.57
2.67	1.70	8.83	3.66	15.00	3.92	21.17	1.57
2.83	1.70	9.00	3.66	15.17	3.92	21.33	1.57
3.00	1.70	9.17	4.18	15.33	3.92	21.50	1.57
3.17	1.70	9.33	4.18	15.50	3.92	21.67	1.57
3.33	1.70	9.50	4.18	15.67	3.92	21.83	1.57
3.50	1.70	9.67	4.70	15.83	3.92	22.00	1.57
3.67	1.70	9.83	4.70	16.00	3.92	22.17	1.57
3.83	1.70	10.00	4.70	16.17	2.35	22.33	1.57
4.00	1.70	10.17	6.01	16.33	2.35	22.50	1.57

4.17	2.09	10.33	6.01	16.50	2.35	22.67	1.57
4.33	2.09	10.50	6.01	16.67	2.35	22.83	1.57
4.50	2.09	10.67	8.10	16.83	2.35	23.00	1.57
4.67	2.09	10.83	8.10	17.00	2.35	23.17	1.57
4.83	2.09	11.00	8.10	17.17	2.35	23.33	1.57
5.00	2.09	11.17	12.54	17.33	2.35	23.50	1.57
5.17	2.09	11.33	12.54	17.50	2.35	23.67	1.57
5.33	2.09	11.50	12.54	17.67	2.35	23.83	1.57
5.50	2.09	11.67	38.68	17.83	2.35	24.00	1.57
5.67	2.09	11.83	99.30	18.00	2.35		
5.83	2.09	12.00	159.93	18.17	2.35		
6.00	2.09	12.17	18.82	18.33	2.35		

| CALIB |

| NASHYD (0015)| Area (ha)= 1.13 Curve Number (CN)= 43.0

|ID= 1 DT= 5.0 min | Ia (mm)= 13.66 # of Linear Res.(N)= 3.00

----- U.H. Tp(hrs)= 0.30

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.09	12.250	18.83	18.33	2.35
0.167	0.00	6.250	2.35	12.333	18.82	18.42	2.35
0.250	1.44	6.333	2.35	12.417	18.81	18.50	2.35
0.333	1.44	6.417	2.35	12.500	18.82	18.58	2.35
0.417	1.44	6.500	2.35	12.583	18.81	18.67	2.35
0.500	1.44	6.583	2.35	12.667	18.82	18.75	2.35
0.583	1.44	6.667	2.35	12.750	9.67	18.83	2.35
0.667	1.44	6.750	2.35	12.833	9.67	18.92	2.35
0.750	1.44	6.833	2.35	12.917	9.67	19.00	2.35
0.833	1.44	6.917	2.35	13.000	9.67	19.08	2.35
0.917	1.44	7.000	2.35	13.083	9.67	19.17	2.35
1.000	1.44	7.083	2.35	13.167	9.67	19.25	2.35
1.083	1.44	7.167	2.35	13.250	7.06	19.33	2.35
1.167	1.44	7.250	2.87	13.333	7.06	19.42	2.35
1.250	1.44	7.333	2.87	13.417	7.06	19.50	2.35
1.333	1.44	7.417	2.87	13.500	7.06	19.58	2.35
1.417	1.44	7.500	2.87	13.583	7.06	19.67	2.35
1.500	1.44	7.583	2.87	13.667	7.06	19.75	2.35
1.583	1.44	7.667	2.87	13.750	5.49	19.83	2.35
1.667	1.44	7.750	2.87	13.833	5.49	19.92	2.35
1.750	1.44	7.833	2.87	13.917	5.49	20.00	2.35
1.833	1.44	7.917	2.87	14.000	5.49	20.08	2.35
1.917	1.44	8.000	2.87	14.083	5.49	20.17	2.35
2.000	1.44	8.083	2.87	14.167	5.49	20.25	1.57
2.083	1.44	8.167	2.87	14.250	3.92	20.33	1.57
2.167	1.44	8.250	3.40	14.333	3.92	20.42	1.57
2.250	1.70	8.333	3.40	14.417	3.92	20.50	1.57
2.333	1.70	8.417	3.40	14.500	3.92	20.58	1.57
2.417	1.70	8.500	3.40	14.583	3.92	20.67	1.57
2.500	1.70	8.583	3.40	14.667	3.92	20.75	1.57
2.583	1.70	8.667	3.40	14.750	3.92	20.83	1.57
2.667	1.70	8.750	3.66	14.833	3.92	20.92	1.57
2.750	1.70	8.833	3.66	14.917	3.92	21.00	1.57
2.833	1.70	8.917	3.66	15.000	3.92	21.08	1.57
2.917	1.70	9.000	3.66	15.083	3.92	21.17	1.57
3.000	1.70	9.083	3.66	15.167	3.92	21.25	1.57
3.083	1.70	9.167	3.66	15.250	3.92	21.33	1.57
3.167	1.70	9.250	4.18	15.333	3.92	21.42	1.57
3.250	1.70	9.333	4.18	15.417	3.92	21.50	1.57
3.333	1.70	9.417	4.18	15.500	3.92	21.58	1.57
3.417	1.70	9.500	4.18	15.583	3.92	21.67	1.57
3.500	1.70	9.583	4.18	15.667	3.92	21.75	1.57
3.583	1.70	9.667	4.18	15.750	3.92	21.83	1.57
3.667	1.70	9.750	4.70	15.833	3.92	21.92	1.57
3.750	1.70	9.833	4.70	15.917	3.92	22.00	1.57
3.833	1.70	9.917	4.70	16.000	3.92	22.08	1.57

3.917	1.70	10.000	4.70	16.083	3.92	22.17	1.57
4.000	1.70	10.083	4.70	16.167	3.92	22.25	1.57
4.083	1.70	10.167	4.70	16.250	2.35	22.33	1.57
4.167	1.70	10.250	6.01	16.333	2.35	22.42	1.57
4.250	2.09	10.333	6.01	16.417	2.35	22.50	1.57
4.333	2.09	10.417	6.01	16.500	2.35	22.58	1.57
4.417	2.09	10.500	6.01	16.583	2.35	22.67	1.57
4.500	2.09	10.583	6.01	16.667	2.35	22.75	1.57
4.583	2.09	10.667	6.01	16.750	2.35	22.83	1.57
4.667	2.09	10.750	8.10	16.833	2.35	22.92	1.57
4.750	2.09	10.833	8.10	16.917	2.35	23.00	1.57
4.833	2.09	10.917	8.10	17.000	2.35	23.08	1.57
4.917	2.09	11.000	8.10	17.083	2.35	23.17	1.57
5.000	2.09	11.083	8.10	17.167	2.35	23.25	1.57
5.083	2.09	11.167	8.10	17.250	2.35	23.33	1.57
5.167	2.09	11.250	12.54	17.333	2.35	23.42	1.57
5.250	2.09	11.333	12.54	17.417	2.35	23.50	1.57
5.333	2.09	11.417	12.54	17.500	2.35	23.58	1.57
5.417	2.09	11.500	12.54	17.583	2.35	23.67	1.57
5.500	2.09	11.583	12.54	17.667	2.35	23.75	1.57
5.583	2.09	11.667	12.54	17.750	2.35	23.83	1.57
5.667	2.09	11.750	38.67	17.833	2.35	23.92	1.57
5.750	2.09	11.833	38.68	17.917	2.35	24.00	1.57
5.833	2.09	11.917	99.29	18.000	2.35	24.08	1.57
5.917	2.09	12.000	99.30	18.083	2.35	24.17	1.57
6.000	2.09	12.083	159.92	18.167	2.35		
6.083	2.09	12.167	159.93	18.250	2.35		

Unit Hyd Qpeak (cms)= 0.144

PEAK FLOW (cms)= 0.062 (i)
TIME TO PEAK (hrs)= 12.333
RUNOFF VOLUME (mm)= 30.160
TOTAL RAINFALL (mm)= 130.660
RUNOFF COEFFICIENT = 0.231

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0004) | Area (ha)= 0.66 Curve Number (CN)= 62.0
| ID= 1 DT= 5.0 min | Ia (mm)= 7.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.19

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.09	12.250	18.83	18.33	2.35
0.167	0.00	6.250	2.35	12.333	18.82	18.42	2.35
0.250	1.44	6.333	2.35	12.417	18.81	18.50	2.35
0.333	1.44	6.417	2.35	12.500	18.82	18.58	2.35
0.417	1.44	6.500	2.35	12.583	18.81	18.67	2.35
0.500	1.44	6.583	2.35	12.667	18.82	18.75	2.35
0.583	1.44	6.667	2.35	12.750	9.67	18.83	2.35
0.667	1.44	6.750	2.35	12.833	9.67	18.92	2.35
0.750	1.44	6.833	2.35	12.917	9.67	19.00	2.35
0.833	1.44	6.917	2.35	13.000	9.67	19.08	2.35
0.917	1.44	7.000	2.35	13.083	9.67	19.17	2.35
1.000	1.44	7.083	2.35	13.167	9.67	19.25	2.35
1.083	1.44	7.167	2.35	13.250	7.06	19.33	2.35
1.167	1.44	7.250	2.87	13.333	7.06	19.42	2.35
1.250	1.44	7.333	2.87	13.417	7.06	19.50	2.35
1.333	1.44	7.417	2.87	13.500	7.06	19.58	2.35
1.417	1.44	7.500	2.87	13.583	7.06	19.67	2.35
1.500	1.44	7.583	2.87	13.667	7.06	19.75	2.35
1.583	1.44	7.667	2.87	13.750	5.49	19.83	2.35
1.667	1.44	7.750	2.87	13.833	5.49	19.92	2.35
1.750	1.44	7.833	2.87	13.917	5.49	20.00	2.35
1.833	1.44	7.917	2.87	14.000	5.49	20.08	2.35

1.917	1.44	8.000	2.87	14.083	5.49	20.17	2.35
2.000	1.44	8.083	2.87	14.167	5.49	20.25	1.57
2.083	1.44	8.167	2.87	14.250	3.92	20.33	1.57
2.167	1.44	8.250	3.40	14.333	3.92	20.42	1.57
2.250	1.70	8.333	3.40	14.417	3.92	20.50	1.57
2.333	1.70	8.417	3.40	14.500	3.92	20.58	1.57
2.417	1.70	8.500	3.40	14.583	3.92	20.67	1.57
2.500	1.70	8.583	3.40	14.667	3.92	20.75	1.57
2.583	1.70	8.667	3.40	14.750	3.92	20.83	1.57
2.667	1.70	8.750	3.66	14.833	3.92	20.92	1.57
2.750	1.70	8.833	3.66	14.917	3.92	21.00	1.57
2.833	1.70	8.917	3.66	15.000	3.92	21.08	1.57
2.917	1.70	9.000	3.66	15.083	3.92	21.17	1.57
3.000	1.70	9.083	3.66	15.167	3.92	21.25	1.57
3.083	1.70	9.167	3.66	15.250	3.92	21.33	1.57
3.167	1.70	9.250	4.18	15.333	3.92	21.42	1.57
3.250	1.70	9.333	4.18	15.417	3.92	21.50	1.57
3.333	1.70	9.417	4.18	15.500	3.92	21.58	1.57
3.417	1.70	9.500	4.18	15.583	3.92	21.67	1.57
3.500	1.70	9.583	4.18	15.667	3.92	21.75	1.57
3.583	1.70	9.667	4.18	15.750	3.92	21.83	1.57
3.667	1.70	9.750	4.70	15.833	3.92	21.92	1.57
3.750	1.70	9.833	4.70	15.917	3.92	22.00	1.57
3.833	1.70	9.917	4.70	16.000	3.92	22.08	1.57
3.917	1.70	10.000	4.70	16.083	3.92	22.17	1.57
4.000	1.70	10.083	4.70	16.167	3.92	22.25	1.57
4.083	1.70	10.167	4.70	16.250	2.35	22.33	1.57
4.167	1.70	10.250	6.01	16.333	2.35	22.42	1.57
4.250	2.09	10.333	6.01	16.417	2.35	22.50	1.57
4.333	2.09	10.417	6.01	16.500	2.35	22.58	1.57
4.417	2.09	10.500	6.01	16.583	2.35	22.67	1.57
4.500	2.09	10.583	6.01	16.667	2.35	22.75	1.57
4.583	2.09	10.667	6.01	16.750	2.35	22.83	1.57
4.667	2.09	10.750	8.10	16.833	2.35	22.92	1.57
4.750	2.09	10.833	8.10	16.917	2.35	23.00	1.57
4.833	2.09	10.917	8.10	17.000	2.35	23.08	1.57
4.917	2.09	11.000	8.10	17.083	2.35	23.17	1.57
5.000	2.09	11.083	8.10	17.167	2.35	23.25	1.57
5.083	2.09	11.167	8.10	17.250	2.35	23.33	1.57
5.167	2.09	11.250	12.54	17.333	2.35	23.42	1.57
5.250	2.09	11.333	12.54	17.417	2.35	23.50	1.57
5.333	2.09	11.417	12.54	17.500	2.35	23.58	1.57
5.417	2.09	11.500	12.54	17.583	2.35	23.67	1.57
5.500	2.09	11.583	12.54	17.667	2.35	23.75	1.57
5.583	2.09	11.667	12.54	17.750	2.35	23.83	1.57
5.667	2.09	11.750	38.67	17.833	2.35	23.92	1.57
5.750	2.09	11.833	38.68	17.917	2.35	24.00	1.57
5.833	2.09	11.917	99.29	18.000	2.35	24.08	1.57
5.917	2.09	12.000	99.30	18.083	2.35	24.17	1.57
6.000	2.09	12.083	159.92	18.167	2.35		
6.083	2.09	12.167	159.93	18.250	2.35		

Unit Hyd Qpeak (cms)= 0.133

PEAK FLOW (cms)= 0.092 (i)

TIME TO PEAK (hrs)= 12.250

RUNOFF VOLUME (mm)= 54.616

TOTAL RAINFALL (mm)= 130.660

RUNOFF COEFFICIENT = 0.418

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| STANDHYD (0022) | Area (ha)= 2.66
| ID= 1 DT= 5.0 min | Total Imp(%)= 45.08 Dir. Conn.(%)= 31.83

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 1.20 1.46
Dep. Storage (mm)= 2.00 5.00
Average Slope (°)= 1.00 2.00
Length (m)= 67.80 47.60

Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.09	12.250	18.83	18.33	2.35
0.167	0.00	6.250	2.35	12.333	18.82	18.42	2.35
0.250	1.44	6.333	2.35	12.417	18.81	18.50	2.35
0.333	1.44	6.417	2.35	12.500	18.82	18.58	2.35
0.417	1.44	6.500	2.35	12.583	18.81	18.67	2.35
0.500	1.44	6.583	2.35	12.667	18.82	18.75	2.35
0.583	1.44	6.667	2.35	12.750	9.67	18.83	2.35
0.667	1.44	6.750	2.35	12.833	9.67	18.92	2.35
0.750	1.44	6.833	2.35	12.917	9.67	19.00	2.35
0.833	1.44	6.917	2.35	13.000	9.67	19.08	2.35
0.917	1.44	7.000	2.35	13.083	9.67	19.17	2.35
1.000	1.44	7.083	2.35	13.167	9.67	19.25	2.35
1.083	1.44	7.167	2.35	13.250	7.06	19.33	2.35
1.167	1.44	7.250	2.87	13.333	7.06	19.42	2.35
1.250	1.44	7.333	2.87	13.417	7.06	19.50	2.35
1.333	1.44	7.417	2.87	13.500	7.06	19.58	2.35
1.417	1.44	7.500	2.87	13.583	7.06	19.67	2.35
1.500	1.44	7.583	2.87	13.667	7.06	19.75	2.35
1.583	1.44	7.667	2.87	13.750	5.49	19.83	2.35
1.667	1.44	7.750	2.87	13.833	5.49	19.92	2.35
1.750	1.44	7.833	2.87	13.917	5.49	20.00	2.35
1.833	1.44	7.917	2.87	14.000	5.49	20.08	2.35
1.917	1.44	8.000	2.87	14.083	5.49	20.17	2.35
2.000	1.44	8.083	2.87	14.167	5.49	20.25	1.57
2.083	1.44	8.167	2.87	14.250	3.92	20.33	1.57
2.167	1.44	8.250	3.40	14.333	3.92	20.42	1.57
2.250	1.70	8.333	3.40	14.417	3.92	20.50	1.57
2.333	1.70	8.417	3.40	14.500	3.92	20.58	1.57
2.417	1.70	8.500	3.40	14.583	3.92	20.67	1.57
2.500	1.70	8.583	3.40	14.667	3.92	20.75	1.57
2.583	1.70	8.667	3.40	14.750	3.92	20.83	1.57
2.667	1.70	8.750	3.66	14.833	3.92	20.92	1.57
2.750	1.70	8.833	3.66	14.917	3.92	21.00	1.57
2.833	1.70	8.917	3.66	15.000	3.92	21.08	1.57
2.917	1.70	9.000	3.66	15.083	3.92	21.17	1.57
3.000	1.70	9.083	3.66	15.167	3.92	21.25	1.57
3.083	1.70	9.167	3.66	15.250	3.92	21.33	1.57
3.167	1.70	9.250	4.18	15.333	3.92	21.42	1.57
3.250	1.70	9.333	4.18	15.417	3.92	21.50	1.57
3.333	1.70	9.417	4.18	15.500	3.92	21.58	1.57
3.417	1.70	9.500	4.18	15.583	3.92	21.67	1.57
3.500	1.70	9.583	4.18	15.667	3.92	21.75	1.57
3.583	1.70	9.667	4.18	15.750	3.92	21.83	1.57
3.667	1.70	9.750	4.70	15.833	3.92	21.92	1.57
3.750	1.70	9.833	4.70	15.917	3.92	22.00	1.57
3.833	1.70	9.917	4.70	16.000	3.92	22.08	1.57
3.917	1.70	10.000	4.70	16.083	3.92	22.17	1.57
4.000	1.70	10.083	4.70	16.167	3.92	22.25	1.57
4.083	1.70	10.167	4.70	16.250	2.35	22.33	1.57
4.167	1.70	10.250	6.01	16.333	2.35	22.42	1.57
4.250	2.09	10.333	6.01	16.417	2.35	22.50	1.57
4.333	2.09	10.417	6.01	16.500	2.35	22.58	1.57
4.417	2.09	10.500	6.01	16.583	2.35	22.67	1.57
4.500	2.09	10.583	6.01	16.667	2.35	22.75	1.57
4.583	2.09	10.667	6.01	16.750	2.35	22.83	1.57
4.667	2.09	10.750	8.10	16.833	2.35	22.92	1.57
4.750	2.09	10.833	8.10	16.917	2.35	23.00	1.57
4.833	2.09	10.917	8.10	17.000	2.35	23.08	1.57
4.917	2.09	11.000	8.10	17.083	2.35	23.17	1.57
5.000	2.09	11.083	8.10	17.167	2.35	23.25	1.57
5.083	2.09	11.167	8.10	17.250	2.35	23.33	1.57
5.167	2.09	11.250	12.54	17.333	2.35	23.42	1.57
5.250	2.09	11.333	12.54	17.417	2.35	23.50	1.57
5.333	2.09	11.417	12.54	17.500	2.35	23.58	1.57
5.417	2.09	11.500	12.54	17.583	2.35	23.67	1.57

5.500	2.09	11.583	12.54	17.667	2.35	23.75	1.57
5.583	2.09	11.667	12.54	17.750	2.35	23.83	1.57
5.667	2.09	11.750	38.67	17.833	2.35	23.92	1.57
5.750	2.09	11.833	38.68	17.917	2.35	24.00	1.57
5.833	2.09	11.917	99.29	18.000	2.35	24.08	1.57
5.917	2.09	12.000	99.30	18.083	2.35	24.17	1.57
6.000	2.09	12.083	159.92	18.167	2.35		
6.083	2.09	12.167	159.93	18.250	2.35		

Max.Eff.Inten.(mm/hr)= 159.93 85.23
over (min) 5.00 15.00

Storage Coeff. (min)= 1.68 (ii) 10.03 (ii)

Unit Hyd. Tpeak (min)= 5.00 15.00

Unit Hyd. peak (cms)= 0.32 0.10

TOTALS

PEAK FLOW (cms)= 0.38 0.22 0.558 (iii)

TIME TO PEAK (hrs)= 12.17 12.25 12.17

RUNOFF VOLUME (mm)= 128.66 47.22 73.14

TOTAL RAINFALL (mm)= 130.66 130.66 130.66

RUNOFF COEFFICIENT = 0.98 0.36 0.56

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PVIOUS LOSSES:

CN* = 49.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| ADD HYD (0024)|

| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.

(ha) (cms) (hrs) (mm)

ID1= 1 (0022): 2.66 0.558 12.17 73.14

+ ID2= 2 (0004): 0.66 0.092 12.25 54.62

ID = 3 (0024): 3.32 0.645 12.17 69.46

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| RESERVOIR(0023)| OVERFLOW IS OFF

| IN= 2---> OUT= 1 |

| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE

(cms) (ha.m.) | (cms) (ha.m.)

0.0000 0.0000 | 0.0470 0.0670

0.0020 0.0120 | 0.0790 0.0820

0.0020 0.0250 | 0.1020 0.0980

0.0030 0.0380 | 0.1200 0.1150

0.0030 0.0520 | 0.0000 0.0000

AREA QPEAK TPEAK R.V.

(ha) (cms) (hrs) (mm)

INFLOW: ID= 2 (0024) 3.320 0.645 12.17 69.46

OUTFLOW: ID= 1 (0023) 3.320 0.120 12.75 69.00

PEAK FLOW REDUCTION [Qout/Qin](%)= 18.61

TIME SHIFT OF PEAK FLOW (min)= 35.00

MAXIMUM STORAGE USED (ha.m.)= 0.1152

| CALIB |

| NASHYD (0027)| Area (ha)= 3.10 Curve Number (CN)= 35.8

| ID= 1 DT= 5.0 min | Ia (mm)= 8.43 # of Linear Res.(N)= 3.00

U.H. Tp(hrs)= 0.30

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.09	12.250	18.83	18.33	2.35
0.167	0.00	6.250	2.35	12.333	18.82	18.42	2.35
0.250	1.44	6.333	2.35	12.417	18.81	18.50	2.35
0.333	1.44	6.417	2.35	12.500	18.82	18.58	2.35
0.417	1.44	6.500	2.35	12.583	18.81	18.67	2.35
0.500	1.44	6.583	2.35	12.667	18.82	18.75	2.35
0.583	1.44	6.667	2.35	12.750	9.67	18.83	2.35
0.667	1.44	6.750	2.35	12.833	9.67	18.92	2.35
0.750	1.44	6.833	2.35	12.917	9.67	19.00	2.35
0.833	1.44	6.917	2.35	13.000	9.67	19.08	2.35
0.917	1.44	7.000	2.35	13.083	9.67	19.17	2.35
1.000	1.44	7.083	2.35	13.167	9.67	19.25	2.35
1.083	1.44	7.167	2.35	13.250	7.06	19.33	2.35
1.167	1.44	7.250	2.87	13.333	7.06	19.42	2.35
1.250	1.44	7.333	2.87	13.417	7.06	19.50	2.35
1.333	1.44	7.417	2.87	13.500	7.06	19.58	2.35
1.417	1.44	7.500	2.87	13.583	7.06	19.67	2.35
1.500	1.44	7.583	2.87	13.667	7.06	19.75	2.35
1.583	1.44	7.667	2.87	13.750	5.49	19.83	2.35
1.667	1.44	7.750	2.87	13.833	5.49	19.92	2.35
1.750	1.44	7.833	2.87	13.917	5.49	20.00	2.35
1.833	1.44	7.917	2.87	14.000	5.49	20.08	2.35
1.917	1.44	8.000	2.87	14.083	5.49	20.17	2.35
2.000	1.44	8.083	2.87	14.167	5.49	20.25	1.57
2.083	1.44	8.167	2.87	14.250	3.92	20.33	1.57
2.167	1.44	8.250	3.40	14.333	3.92	20.42	1.57
2.250	1.70	8.333	3.40	14.417	3.92	20.50	1.57
2.333	1.70	8.417	3.40	14.500	3.92	20.58	1.57
2.417	1.70	8.500	3.40	14.583	3.92	20.67	1.57
2.500	1.70	8.583	3.40	14.667	3.92	20.75	1.57
2.583	1.70	8.667	3.40	14.750	3.92	20.83	1.57
2.667	1.70	8.750	3.66	14.833	3.92	20.92	1.57
2.750	1.70	8.833	3.66	14.917	3.92	21.00	1.57
2.833	1.70	8.917	3.66	15.000	3.92	21.08	1.57
2.917	1.70	9.000	3.66	15.083	3.92	21.17	1.57
3.000	1.70	9.083	3.66	15.167	3.92	21.25	1.57
3.083	1.70	9.167	3.66	15.250	3.92	21.33	1.57
3.167	1.70	9.250	4.18	15.333	3.92	21.42	1.57
3.250	1.70	9.333	4.18	15.417	3.92	21.50	1.57
3.333	1.70	9.417	4.18	15.500	3.92	21.58	1.57
3.417	1.70	9.500	4.18	15.583	3.92	21.67	1.57
3.500	1.70	9.583	4.18	15.667	3.92	21.75	1.57
3.583	1.70	9.667	4.18	15.750	3.92	21.83	1.57
3.667	1.70	9.750	4.70	15.833	3.92	21.92	1.57
3.750	1.70	9.833	4.70	15.917	3.92	22.00	1.57
3.833	1.70	9.917	4.70	16.000	3.92	22.08	1.57
3.917	1.70	10.000	4.70	16.083	3.92	22.17	1.57
4.000	1.70	10.083	4.70	16.167	3.92	22.25	1.57
4.083	1.70	10.167	4.70	16.250	2.35	22.33	1.57
4.167	1.70	10.250	6.01	16.333	2.35	22.42	1.57
4.250	2.09	10.333	6.01	16.417	2.35	22.50	1.57
4.333	2.09	10.417	6.01	16.500	2.35	22.58	1.57
4.417	2.09	10.500	6.01	16.583	2.35	22.67	1.57
4.500	2.09	10.583	6.01	16.667	2.35	22.75	1.57
4.583	2.09	10.667	6.01	16.750	2.35	22.83	1.57
4.667	2.09	10.750	8.10	16.833	2.35	22.92	1.57
4.750	2.09	10.833	8.10	16.917	2.35	23.00	1.57
4.833	2.09	10.917	8.10	17.000	2.35	23.08	1.57
4.917	2.09	11.000	8.10	17.083	2.35	23.17	1.57
5.000	2.09	11.083	8.10	17.167	2.35	23.25	1.57
5.083	2.09	11.167	8.10	17.250	2.35	23.33	1.57
5.167	2.09	11.250	12.54	17.333	2.35	23.42	1.57
5.250	2.09	11.333	12.54	17.417	2.35	23.50	1.57
5.333	2.09	11.417	12.54	17.500	2.35	23.58	1.57
5.417	2.09	11.500	12.54	17.583	2.35	23.67	1.57
5.500	2.09	11.583	12.54	17.667	2.35	23.75	1.57
5.583	2.09	11.667	12.54	17.750	2.35	23.83	1.57
5.667	2.09	11.750	38.67	17.833	2.35	23.92	1.57
5.750	2.09	11.833	38.68	17.917	2.35	24.00	1.57
5.833	2.09	11.917	99.29	18.000	2.35	24.08	1.57
5.917	2.09	12.000	99.30	18.083	2.35	24.17	1.57

6.000 2.09 |12.083 159.92 |18.167 2.35 |
6.083 2.09 |12.167 159.93 |18.250 2.35 |

Unit Hyd Qpeak (cms)= 0.395

PEAK FLOW (cms)= 0.144 (i)
TIME TO PEAK (hrs)= 12.333
RUNOFF VOLUME (mm)= 25.850
TOTAL RAINFALL (mm)= 130.660
RUNOFF COEFFICIENT = 0.198

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0010) | Area (ha)= 0.87 Curve Number (CN)= 32.0
| ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.24

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.09	12.250	18.83	18.33	2.35
0.167	0.00	6.250	2.35	12.333	18.82	18.42	2.35
0.250	1.44	6.333	2.35	12.417	18.81	18.50	2.35
0.333	1.44	6.417	2.35	12.500	18.82	18.58	2.35
0.417	1.44	6.500	2.35	12.583	18.81	18.67	2.35
0.500	1.44	6.583	2.35	12.667	18.82	18.75	2.35
0.583	1.44	6.667	2.35	12.750	9.67	18.83	2.35
0.667	1.44	6.750	2.35	12.833	9.67	18.92	2.35
0.750	1.44	6.833	2.35	12.917	9.67	19.00	2.35
0.833	1.44	6.917	2.35	13.000	9.67	19.08	2.35
0.917	1.44	7.000	2.35	13.083	9.67	19.17	2.35
1.000	1.44	7.083	2.35	13.167	9.67	19.25	2.35
1.083	1.44	7.167	2.35	13.250	7.06	19.33	2.35
1.167	1.44	7.250	2.87	13.333	7.06	19.42	2.35
1.250	1.44	7.333	2.87	13.417	7.06	19.50	2.35
1.333	1.44	7.417	2.87	13.500	7.06	19.58	2.35
1.417	1.44	7.500	2.87	13.583	7.06	19.67	2.35
1.500	1.44	7.583	2.87	13.667	7.06	19.75	2.35
1.583	1.44	7.667	2.87	13.750	5.49	19.83	2.35
1.667	1.44	7.750	2.87	13.833	5.49	19.92	2.35
1.750	1.44	7.833	2.87	13.917	5.49	20.00	2.35
1.833	1.44	7.917	2.87	14.000	5.49	20.08	2.35
1.917	1.44	8.000	2.87	14.083	5.49	20.17	2.35
2.000	1.44	8.083	2.87	14.167	5.49	20.25	1.57
2.083	1.44	8.167	2.87	14.250	3.92	20.33	1.57
2.167	1.44	8.250	3.40	14.333	3.92	20.42	1.57
2.250	1.70	8.333	3.40	14.417	3.92	20.50	1.57
2.333	1.70	8.417	3.40	14.500	3.92	20.58	1.57
2.417	1.70	8.500	3.40	14.583	3.92	20.67	1.57
2.500	1.70	8.583	3.40	14.667	3.92	20.75	1.57
2.583	1.70	8.667	3.40	14.750	3.92	20.83	1.57
2.667	1.70	8.750	3.66	14.833	3.92	20.92	1.57
2.750	1.70	8.833	3.66	14.917	3.92	21.00	1.57
2.833	1.70	8.917	3.66	15.000	3.92	21.08	1.57
2.917	1.70	9.000	3.66	15.083	3.92	21.17	1.57
3.000	1.70	9.083	3.66	15.167	3.92	21.25	1.57
3.083	1.70	9.167	3.66	15.250	3.92	21.33	1.57
3.167	1.70	9.250	4.18	15.333	3.92	21.42	1.57
3.250	1.70	9.333	4.18	15.417	3.92	21.50	1.57
3.333	1.70	9.417	4.18	15.500	3.92	21.58	1.57
3.417	1.70	9.500	4.18	15.583	3.92	21.67	1.57
3.500	1.70	9.583	4.18	15.667	3.92	21.75	1.57
3.583	1.70	9.667	4.18	15.750	3.92	21.83	1.57
3.667	1.70	9.750	4.70	15.833	3.92	21.92	1.57
3.750	1.70	9.833	4.70	15.917	3.92	22.00	1.57
3.833	1.70	9.917	4.70	16.000	3.92	22.08	1.57
3.917	1.70	10.000	4.70	16.083	3.92	22.17	1.57

4.000	1.70	10.083	4.70	16.167	3.92	22.25	1.57
4.083	1.70	10.167	4.70	16.250	2.35	22.33	1.57
4.167	1.70	10.250	6.01	16.333	2.35	22.42	1.57
4.250	2.09	10.333	6.01	16.417	2.35	22.50	1.57
4.333	2.09	10.417	6.01	16.500	2.35	22.58	1.57
4.417	2.09	10.500	6.01	16.583	2.35	22.67	1.57
4.500	2.09	10.583	6.01	16.667	2.35	22.75	1.57
4.583	2.09	10.667	6.01	16.750	2.35	22.83	1.57
4.667	2.09	10.750	8.10	16.833	2.35	22.92	1.57
4.750	2.09	10.833	8.10	16.917	2.35	23.00	1.57
4.833	2.09	10.917	8.10	17.000	2.35	23.08	1.57
4.917	2.09	11.000	8.10	17.083	2.35	23.17	1.57
5.000	2.09	11.083	8.10	17.167	2.35	23.25	1.57
5.083	2.09	11.167	8.10	17.250	2.35	23.33	1.57
5.167	2.09	11.250	12.54	17.333	2.35	23.42	1.57
5.250	2.09	11.333	12.54	17.417	2.35	23.50	1.57
5.333	2.09	11.417	12.54	17.500	2.35	23.58	1.57
5.417	2.09	11.500	12.54	17.583	2.35	23.67	1.57
5.500	2.09	11.583	12.54	17.667	2.35	23.75	1.57
5.583	2.09	11.667	12.54	17.750	2.35	23.83	1.57
5.667	2.09	11.750	38.67	17.833	2.35	23.92	1.57
5.750	2.09	11.833	38.68	17.917	2.35	24.00	1.57
5.833	2.09	11.917	99.29	18.000	2.35	24.08	1.57
5.917	2.09	12.000	99.30	18.083	2.35	24.17	1.57
6.000	2.09	12.083	159.92	18.167	2.35		
6.083	2.09	12.167	159.93	18.250	2.35		

Unit Hyd Qpeak (cms)= 0.138

PEAK FLOW (cms)= 0.040 (i)
TIME TO PEAK (hrs)= 12.250
RUNOFF VOLUME (mm)= 22.024
TOTAL RAINFALL (mm)= 130.660
RUNOFF COEFFICIENT = 0.169

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0009) | Area (ha)= 1.11 Curve Number (CN)= 62.0
| ID= 1 DT= 5.0 min | Ia (mm)= 7.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.34

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.09	12.250	18.83	18.33	2.35
0.167	0.00	6.250	2.35	12.333	18.82	18.42	2.35
0.250	1.44	6.333	2.35	12.417	18.81	18.50	2.35
0.333	1.44	6.417	2.35	12.500	18.82	18.58	2.35
0.417	1.44	6.500	2.35	12.583	18.81	18.67	2.35
0.500	1.44	6.583	2.35	12.667	18.82	18.75	2.35
0.583	1.44	6.667	2.35	12.750	9.67	18.83	2.35
0.667	1.44	6.750	2.35	12.833	9.67	18.92	2.35
0.750	1.44	6.833	2.35	12.917	9.67	19.00	2.35
0.833	1.44	6.917	2.35	13.000	9.67	19.08	2.35
0.917	1.44	7.000	2.35	13.083	9.67	19.17	2.35
1.000	1.44	7.083	2.35	13.167	9.67	19.25	2.35
1.083	1.44	7.167	2.35	13.250	7.06	19.33	2.35
1.167	1.44	7.250	2.87	13.333	7.06	19.42	2.35
1.250	1.44	7.333	2.87	13.417	7.06	19.50	2.35
1.333	1.44	7.417	2.87	13.500	7.06	19.58	2.35
1.417	1.44	7.500	2.87	13.583	7.06	19.67	2.35
1.500	1.44	7.583	2.87	13.667	7.06	19.75	2.35
1.583	1.44	7.667	2.87	13.750	5.49	19.83	2.35
1.667	1.44	7.750	2.87	13.833	5.49	19.92	2.35
1.750	1.44	7.833	2.87	13.917	5.49	20.00	2.35
1.833	1.44	7.917	2.87	14.000	5.49	20.08	2.35
1.917	1.44	8.000	2.87	14.083	5.49	20.17	2.35

2.000	1.44	8.083	2.87	14.167	5.49	20.25	1.57
2.083	1.44	8.167	2.87	14.250	3.92	20.33	1.57
2.167	1.44	8.250	3.40	14.333	3.92	20.42	1.57
2.250	1.70	8.333	3.40	14.417	3.92	20.50	1.57
2.333	1.70	8.417	3.40	14.500	3.92	20.58	1.57
2.417	1.70	8.500	3.40	14.583	3.92	20.67	1.57
2.500	1.70	8.583	3.40	14.667	3.92	20.75	1.57
2.583	1.70	8.667	3.40	14.750	3.92	20.83	1.57
2.667	1.70	8.750	3.66	14.833	3.92	20.92	1.57
2.750	1.70	8.833	3.66	14.917	3.92	21.00	1.57
2.833	1.70	8.917	3.66	15.000	3.92	21.08	1.57
2.917	1.70	9.000	3.66	15.083	3.92	21.17	1.57
3.000	1.70	9.083	3.66	15.167	3.92	21.25	1.57
3.083	1.70	9.167	3.66	15.250	3.92	21.33	1.57
3.167	1.70	9.250	4.18	15.333	3.92	21.42	1.57
3.250	1.70	9.333	4.18	15.417	3.92	21.50	1.57
3.333	1.70	9.417	4.18	15.500	3.92	21.58	1.57
3.417	1.70	9.500	4.18	15.583	3.92	21.67	1.57
3.500	1.70	9.583	4.18	15.667	3.92	21.75	1.57
3.583	1.70	9.667	4.18	15.750	3.92	21.83	1.57
3.667	1.70	9.750	4.70	15.833	3.92	21.92	1.57
3.750	1.70	9.833	4.70	15.917	3.92	22.00	1.57
3.833	1.70	9.917	4.70	16.000	3.92	22.08	1.57
3.917	1.70	10.000	4.70	16.083	3.92	22.17	1.57
4.000	1.70	10.083	4.70	16.167	3.92	22.25	1.57
4.083	1.70	10.167	4.70	16.250	2.35	22.33	1.57
4.167	1.70	10.250	6.01	16.333	2.35	22.42	1.57
4.250	2.09	10.333	6.01	16.417	2.35	22.50	1.57
4.333	2.09	10.417	6.01	16.500	2.35	22.58	1.57
4.417	2.09	10.500	6.01	16.583	2.35	22.67	1.57
4.500	2.09	10.583	6.01	16.667	2.35	22.75	1.57
4.583	2.09	10.667	6.01	16.750	2.35	22.83	1.57
4.667	2.09	10.750	8.10	16.833	2.35	22.92	1.57
4.750	2.09	10.833	8.10	16.917	2.35	23.00	1.57
4.833	2.09	10.917	8.10	17.000	2.35	23.08	1.57
4.917	2.09	11.000	8.10	17.083	2.35	23.17	1.57
5.000	2.09	11.083	8.10	17.167	2.35	23.25	1.57
5.083	2.09	11.167	8.10	17.250	2.35	23.33	1.57
5.167	2.09	11.250	12.54	17.333	2.35	23.42	1.57
5.250	2.09	11.333	12.54	17.417	2.35	23.50	1.57
5.333	2.09	11.417	12.54	17.500	2.35	23.58	1.57
5.417	2.09	11.500	12.54	17.583	2.35	23.67	1.57
5.500	2.09	11.583	12.54	17.667	2.35	23.75	1.57
5.583	2.09	11.667	12.54	17.750	2.35	23.83	1.57
5.667	2.09	11.750	38.67	17.833	2.35	23.92	1.57
5.750	2.09	11.833	38.68	17.917	2.35	24.00	1.57
5.833	2.09	11.917	99.29	18.000	2.35	24.08	1.57
5.917	2.09	12.000	99.30	18.083	2.35	24.17	1.57
6.000	2.09	12.083	159.92	18.167	2.35		
6.083	2.09	12.167	159.93	18.250	2.35		

Unit Hyd Qpeak (cms)= 0.125

PEAK FLOW (cms)= 0.105 (i)

TIME TO PEAK (hrs)= 12.333

RUNOFF VOLUME (mm)= 54.730

TOTAL RAINFALL (mm)= 130.660

RUNOFF COEFFICIENT = 0.419

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| ADD HYD (0017) |

| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.

----- (ha) (cms) (hrs) (mm)

ID1= 1 (0010): 0.87 0.040 12.25 22.02

+ ID2= 2 (0027): 3.10 0.144 12.33 25.85

=====

ID = 3 (0017): 3.97 0.183 12.33 25.01

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0017)|

| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.

(ha) (cms) (hrs) (mm)

ID1= 3 (0017): 3.97 0.183 12.33 25.01

+ ID2= 2 (0009): 1.11 0.105 12.33 54.73

=====

ID = 1 (0017): 5.08 0.288 12.33 31.51

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| CALIB |

| NASHYD (0028)| Area (ha)= 14.72 Curve Number (CN)= 32.0

| ID= 1 DT= 5.0 min | la (mm)= 10.00 # of Linear Res.(N)= 3.00

----- U.H. Tp(hrs)= 0.82

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr

0.083	0.00	6.167	2.09	12.250	18.83	18.33	2.35
0.167	0.00	6.250	2.35	12.333	18.82	18.42	2.35
0.250	1.44	6.333	2.35	12.417	18.81	18.50	2.35
0.333	1.44	6.417	2.35	12.500	18.82	18.58	2.35
0.417	1.44	6.500	2.35	12.583	18.81	18.67	2.35
0.500	1.44	6.583	2.35	12.667	18.82	18.75	2.35
0.583	1.44	6.667	2.35	12.750	9.67	18.83	2.35
0.667	1.44	6.750	2.35	12.833	9.67	18.92	2.35
0.750	1.44	6.833	2.35	12.917	9.67	19.00	2.35
0.833	1.44	6.917	2.35	13.000	9.67	19.08	2.35
0.917	1.44	7.000	2.35	13.083	9.67	19.17	2.35
1.000	1.44	7.083	2.35	13.167	9.67	19.25	2.35
1.083	1.44	7.167	2.35	13.250	7.06	19.33	2.35
1.167	1.44	7.250	2.87	13.333	7.06	19.42	2.35
1.250	1.44	7.333	2.87	13.417	7.06	19.50	2.35
1.333	1.44	7.417	2.87	13.500	7.06	19.58	2.35
1.417	1.44	7.500	2.87	13.583	7.06	19.67	2.35
1.500	1.44	7.583	2.87	13.667	7.06	19.75	2.35
1.583	1.44	7.667	2.87	13.750	5.49	19.83	2.35
1.667	1.44	7.750	2.87	13.833	5.49	19.92	2.35
1.750	1.44	7.833	2.87	13.917	5.49	20.00	2.35
1.833	1.44	7.917	2.87	14.000	5.49	20.08	2.35
1.917	1.44	8.000	2.87	14.083	5.49	20.17	2.35
2.000	1.44	8.083	2.87	14.167	5.49	20.25	1.57
2.083	1.44	8.167	2.87	14.250	3.92	20.33	1.57
2.167	1.44	8.250	3.40	14.333	3.92	20.42	1.57
2.250	1.70	8.333	3.40	14.417	3.92	20.50	1.57
2.333	1.70	8.417	3.40	14.500	3.92	20.58	1.57
2.417	1.70	8.500	3.40	14.583	3.92	20.67	1.57
2.500	1.70	8.583	3.40	14.667	3.92	20.75	1.57
2.583	1.70	8.667	3.40	14.750	3.92	20.83	1.57
2.667	1.70	8.750	3.66	14.833	3.92	20.92	1.57
2.750	1.70	8.833	3.66	14.917	3.92	21.00	1.57
2.833	1.70	8.917	3.66	15.000	3.92	21.08	1.57
2.917	1.70	9.000	3.66	15.083	3.92	21.17	1.57
3.000	1.70	9.083	3.66	15.167	3.92	21.25	1.57
3.083	1.70	9.167	3.66	15.250	3.92	21.33	1.57
3.167	1.70	9.250	4.18	15.333	3.92	21.42	1.57
3.250	1.70	9.333	4.18	15.417	3.92	21.50	1.57
3.333	1.70	9.417	4.18	15.500	3.92	21.58	1.57
3.417	1.70	9.500	4.18	15.583	3.92	21.67	1.57
3.500	1.70	9.583	4.18	15.667	3.92	21.75	1.57
3.583	1.70	9.667	4.18	15.750	3.92	21.83	1.57
3.667	1.70	9.750	4.70	15.833	3.92	21.92	1.57
3.750	1.70	9.833	4.70	15.917	3.92	22.00	1.57
3.833	1.70	9.917	4.70	16.000	3.92	22.08	1.57
3.917	1.70	10.000	4.70	16.083	3.92	22.17	1.57
4.000	1.70	10.083	4.70	16.167	3.92	22.25	1.57

4.083	1.70	10.167	4.70	16.250	2.35	22.33	1.57
4.167	1.70	10.250	6.01	16.333	2.35	22.42	1.57
4.250	2.09	10.333	6.01	16.417	2.35	22.50	1.57
4.333	2.09	10.417	6.01	16.500	2.35	22.58	1.57
4.417	2.09	10.500	6.01	16.583	2.35	22.67	1.57
4.500	2.09	10.583	6.01	16.667	2.35	22.75	1.57
4.583	2.09	10.667	6.01	16.750	2.35	22.83	1.57
4.667	2.09	10.750	8.10	16.833	2.35	22.92	1.57
4.750	2.09	10.833	8.10	16.917	2.35	23.00	1.57
4.833	2.09	10.917	8.10	17.000	2.35	23.08	1.57
4.917	2.09	11.000	8.10	17.083	2.35	23.17	1.57
5.000	2.09	11.083	8.10	17.167	2.35	23.25	1.57
5.083	2.09	11.167	8.10	17.250	2.35	23.33	1.57
5.167	2.09	11.250	12.54	17.333	2.35	23.42	1.57
5.250	2.09	11.333	12.54	17.417	2.35	23.50	1.57
5.333	2.09	11.417	12.54	17.500	2.35	23.58	1.57
5.417	2.09	11.500	12.54	17.583	2.35	23.67	1.57
5.500	2.09	11.583	12.54	17.667	2.35	23.75	1.57
5.583	2.09	11.667	12.54	17.750	2.35	23.83	1.57
5.667	2.09	11.750	38.67	17.833	2.35	23.92	1.57
5.750	2.09	11.833	38.68	17.917	2.35	24.00	1.57
5.833	2.09	11.917	99.29	18.000	2.35	24.08	1.57
5.917	2.09	12.000	99.30	18.083	2.35	24.17	1.57
6.000	2.09	12.083	159.92	18.167	2.35		
6.083	2.09	12.167	159.93	18.250	2.35		

Unit Hyd Qpeak (cms)= 0.686

PEAK FLOW (cms)= 0.281 (i)

TIME TO PEAK (hrs)= 13.000

RUNOFF VOLUME (mm)= 22.045

TOTAL RAINFALL (mm)= 130.660

RUNOFF COEFFICIENT = 0.169

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0005) | Area (ha)= 9.65 Curve Number (CN)= 32.0
 | ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.71

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.09	12.250	18.83	18.33	2.35
0.167	0.00	6.250	2.35	12.333	18.82	18.42	2.35
0.250	1.44	6.333	2.35	12.417	18.81	18.50	2.35
0.333	1.44	6.417	2.35	12.500	18.82	18.58	2.35
0.417	1.44	6.500	2.35	12.583	18.81	18.67	2.35
0.500	1.44	6.583	2.35	12.667	18.82	18.75	2.35
0.583	1.44	6.667	2.35	12.750	9.67	18.83	2.35
0.667	1.44	6.750	2.35	12.833	9.67	18.92	2.35
0.750	1.44	6.833	2.35	12.917	9.67	19.00	2.35
0.833	1.44	6.917	2.35	13.000	9.67	19.08	2.35
0.917	1.44	7.000	2.35	13.083	9.67	19.17	2.35
1.000	1.44	7.083	2.35	13.167	9.67	19.25	2.35
1.083	1.44	7.167	2.35	13.250	7.06	19.33	2.35
1.167	1.44	7.250	2.87	13.333	7.06	19.42	2.35
1.250	1.44	7.333	2.87	13.417	7.06	19.50	2.35
1.333	1.44	7.417	2.87	13.500	7.06	19.58	2.35
1.417	1.44	7.500	2.87	13.583	7.06	19.67	2.35
1.500	1.44	7.583	2.87	13.667	7.06	19.75	2.35
1.583	1.44	7.667	2.87	13.750	5.49	19.83	2.35
1.667	1.44	7.750	2.87	13.833	5.49	19.92	2.35
1.750	1.44	7.833	2.87	13.917	5.49	20.00	2.35
1.833	1.44	7.917	2.87	14.000	5.49	20.08	2.35
1.917	1.44	8.000	2.87	14.083	5.49	20.17	2.35
2.000	1.44	8.083	2.87	14.167	5.49	20.25	1.57

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr

0.083	0.00	6.167	2.09	12.250	18.83	18.33	2.35
0.167	0.00	6.250	2.35	12.333	18.82	18.42	2.35
0.250	1.44	6.333	2.35	12.417	18.81	18.50	2.35
0.333	1.44	6.417	2.35	12.500	18.82	18.58	2.35
0.417	1.44	6.500	2.35	12.583	18.81	18.67	2.35
0.500	1.44	6.583	2.35	12.667	18.82	18.75	2.35
0.583	1.44	6.667	2.35	12.750	9.67	18.83	2.35
0.667	1.44	6.750	2.35	12.833	9.67	18.92	2.35
0.750	1.44	6.833	2.35	12.917	9.67	19.00	2.35
0.833	1.44	6.917	2.35	13.000	9.67	19.08	2.35
0.917	1.44	7.000	2.35	13.083	9.67	19.17	2.35
1.000	1.44	7.083	2.35	13.167	9.67	19.25	2.35
1.083	1.44	7.167	2.35	13.250	7.06	19.33	2.35
1.167	1.44	7.250	2.87	13.333	7.06	19.42	2.35
1.250	1.44	7.333	2.87	13.417	7.06	19.50	2.35
1.333	1.44	7.417	2.87	13.500	7.06	19.58	2.35
1.417	1.44	7.500	2.87	13.583	7.06	19.67	2.35
1.500	1.44	7.583	2.87	13.667	7.06	19.75	2.35
1.583	1.44	7.667	2.87	13.750	5.49	19.83	2.35
1.667	1.44	7.750	2.87	13.833	5.49	19.92	2.35
1.750	1.44	7.833	2.87	13.917	5.49	20.00	2.35
1.833	1.44	7.917	2.87	14.000	5.49	20.08	2.35
1.917	1.44	8.000	2.87	14.083	5.49	20.17	2.35
2.000	1.44	8.083	2.87	14.167	5.49	20.25	1.57
2.083	1.44	8.167	2.87	14.250	3.92	20.33	1.57
2.167	1.44	8.250	3.40	14.333	3.92	20.42	1.57
2.250	1.70	8.333	3.40	14.417	3.92	20.50	1.57
2.333	1.70	8.417	3.40	14.500	3.92	20.58	1.57
2.417	1.70	8.500	3.40	14.583	3.92	20.67	1.57
2.500	1.70	8.583	3.40	14.667	3.92	20.75	1.57
2.583	1.70	8.667	3.40	14.750	3.92	20.83	1.57
2.667	1.70	8.750	3.66	14.833	3.92	20.92	1.57
2.750	1.70	8.833	3.66	14.917	3.92	21.00	1.57
2.833	1.70	8.917	3.66	15.000	3.92	21.08	1.57
2.917	1.70	9.000	3.66	15.083	3.92	21.17	1.57
3.000	1.70	9.083	3.66	15.167	3.92	21.25	1.57
3.083	1.70	9.167	3.66	15.250	3.92	21.33	1.57
3.167	1.70	9.250	4.18	15.333	3.92	21.42	1.57
3.250	1.70	9.333	4.18	15.417	3.92	21.50	1.57
3.333	1.70	9.417	4.18	15.500	3.92	21.58	1.57
3.417	1.70	9.500	4.18	15.583	3.92	21.67	1.57
3.500	1.70	9.583	4.18	15.667	3.92	21.75	1.57
3.583	1.70	9.667	4.18	15.750	3.92	21.83	1.57
3.667	1.70	9.750	4.70	15.833	3.92	21.92	1.57
3.750	1.70	9.833	4.70	15.917	3.92	22.00	1.57
3.833	1.70	9.917	4.70	16.000	3.92	22.08	1.57
3.917	1.70	10.000	4.70	16.083	3.92	22.17	1.57
4.000	1.70	10.083	4.70	16.167	3.92	22.25	1.57
4.083	1.70	10.167	4.70	16.250	2.35	22.33	1.57
4.167	1.70	10.250	6.01	16.333	2.35	22.42	1.57
4.250	2.09	10.333	6.01	16.417	2.35	22.50	1.57
4.333	2.09	10.417	6.01	16.500	2.35	22.58	1.57
4.417	2.09	10.500	6.01	16.583	2.35	22.67	1.57
4.500	2.09	10.583	6.01	16.667	2.35	22.75	1.57
4.583	2.09	10.667	6.01	16.750	2.35	22.83	1.57
4.667	2.09	10.750	8.10	16.833	2.35	22.92	1.57
4.750	2.09	10.833	8.10	16.917	2.35	23.00	1.57
4.833	2.09	10.917	8.10	17.000	2.35	23.08	1.57
4.917	2.09	11.000	8.10	17.083	2.35	23.17	1.57
5.000	2.09	11.083	8.10	17.167	2.35	23.25	1.57
5.083	2.09	11.167	8.10	17.250	2.35	23.33	1.57
5.167	2.09	11.250	12.54	17.333	2.35	23.42	1.57
5.250	2.09	11.333	12.54	17.417	2.35	23.50	1.57
5.333	2.09	11.417	12.54	17.500	2.35	23.58	1.57
5.417	2.09	11.500	12.54	17.583	2.35	23.67	1.57
5.500	2.09	11.583	12.54	17.667	2.35	23.75	1.57
5.583	2.09	11.667	12.54	17.750	2.35	23.83	1.57
5.667	2.09	11.750	38.67	17.833	2.35	23.92	1.57
5.750	2.09	11.833	38.68	17.917	2.35	24.00	1.57
5.833	2.09	11.917	99.29	18.000	2.35	24.08	1.57
5.917	2.09	12.000	99.30	18.083	2.35	24.17	1.57
6.000	2.09	12.083	159.92	18.167	2.35		
6.083	2.09	12.167	159.93	18.250	2.35		

Unit Hyd Qpeak (cms)= 0.027

PEAK FLOW (cms)= 0.008 (i)

TIME TO PEAK (hrs)= 12.333

RUNOFF VOLUME (mm)= 22.036

TOTAL RAINFALL (mm)= 130.660

RUNOFF COEFFICIENT = 0.169

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0013) | Area (ha)= 12.11 Curve Number (CN)= 48.1
| ID= 1 DT= 5.0 min | Ia (mm)= 11.30 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.55

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.09	12.250	18.83	18.33	2.35
0.167	0.00	6.250	2.35	12.333	18.82	18.42	2.35
0.250	1.44	6.333	2.35	12.417	18.81	18.50	2.35
0.333	1.44	6.417	2.35	12.500	18.82	18.58	2.35
0.417	1.44	6.500	2.35	12.583	18.81	18.67	2.35
0.500	1.44	6.583	2.35	12.667	18.82	18.75	2.35
0.583	1.44	6.667	2.35	12.750	9.67	18.83	2.35
0.667	1.44	6.750	2.35	12.833	9.67	18.92	2.35
0.750	1.44	6.833	2.35	12.917	9.67	19.00	2.35
0.833	1.44	6.917	2.35	13.000	9.67	19.08	2.35
0.917	1.44	7.000	2.35	13.083	9.67	19.17	2.35
1.000	1.44	7.083	2.35	13.167	9.67	19.25	2.35
1.083	1.44	7.167	2.35	13.250	7.06	19.33	2.35
1.167	1.44	7.250	2.87	13.333	7.06	19.42	2.35
1.250	1.44	7.333	2.87	13.417	7.06	19.50	2.35
1.333	1.44	7.417	2.87	13.500	7.06	19.58	2.35
1.417	1.44	7.500	2.87	13.583	7.06	19.67	2.35
1.500	1.44	7.583	2.87	13.667	7.06	19.75	2.35
1.583	1.44	7.667	2.87	13.750	5.49	19.83	2.35
1.667	1.44	7.750	2.87	13.833	5.49	19.92	2.35
1.750	1.44	7.833	2.87	13.917	5.49	20.00	2.35
1.833	1.44	7.917	2.87	14.000	5.49	20.08	2.35
1.917	1.44	8.000	2.87	14.083	5.49	20.17	2.35
2.000	1.44	8.083	2.87	14.167	5.49	20.25	1.57
2.083	1.44	8.167	2.87	14.250	3.92	20.33	1.57
2.167	1.44	8.250	3.40	14.333	3.92	20.42	1.57
2.250	1.70	8.333	3.40	14.417	3.92	20.50	1.57
2.333	1.70	8.417	3.40	14.500	3.92	20.58	1.57
2.417	1.70	8.500	3.40	14.583	3.92	20.67	1.57
2.500	1.70	8.583	3.40	14.667	3.92	20.75	1.57
2.583	1.70	8.667	3.40	14.750	3.92	20.83	1.57
2.667	1.70	8.750	3.66	14.833	3.92	20.92	1.57
2.750	1.70	8.833	3.66	14.917	3.92	21.00	1.57
2.833	1.70	8.917	3.66	15.000	3.92	21.08	1.57
2.917	1.70	9.000	3.66	15.083	3.92	21.17	1.57
3.000	1.70	9.083	3.66	15.167	3.92	21.25	1.57
3.083	1.70	9.167	3.66	15.250	3.92	21.33	1.57
3.167	1.70	9.250	4.18	15.333	3.92	21.42	1.57
3.250	1.70	9.333	4.18	15.417	3.92	21.50	1.57
3.333	1.70	9.417	4.18	15.500	3.92	21.58	1.57
3.417	1.70	9.500	4.18	15.583	3.92	21.67	1.57
3.500	1.70	9.583	4.18	15.667	3.92	21.75	1.57
3.583	1.70	9.667	4.18	15.750	3.92	21.83	1.57
3.667	1.70	9.750	4.70	15.833	3.92	21.92	1.57
3.750	1.70	9.833	4.70	15.917	3.92	22.00	1.57
3.833	1.70	9.917	4.70	16.000	3.92	22.08	1.57
3.917	1.70	10.000	4.70	16.083	3.92	22.17	1.57
4.000	1.70	10.083	4.70	16.167	3.92	22.25	1.57
4.083	1.70	10.167	4.70	16.250	2.35	22.33	1.57

4.167	1.70	10.250	6.01	16.333	2.35	22.42	1.57
4.250	2.09	10.333	6.01	16.417	2.35	22.50	1.57
4.333	2.09	10.417	6.01	16.500	2.35	22.58	1.57
4.417	2.09	10.500	6.01	16.583	2.35	22.67	1.57
4.500	2.09	10.583	6.01	16.667	2.35	22.75	1.57
4.583	2.09	10.667	6.01	16.750	2.35	22.83	1.57
4.667	2.09	10.750	8.10	16.833	2.35	22.92	1.57
4.750	2.09	10.833	8.10	16.917	2.35	23.00	1.57
4.833	2.09	10.917	8.10	17.000	2.35	23.08	1.57
4.917	2.09	11.000	8.10	17.083	2.35	23.17	1.57
5.000	2.09	11.083	8.10	17.167	2.35	23.25	1.57
5.083	2.09	11.167	8.10	17.250	2.35	23.33	1.57
5.167	2.09	11.250	12.54	17.333	2.35	23.42	1.57
5.250	2.09	11.333	12.54	17.417	2.35	23.50	1.57
5.333	2.09	11.417	12.54	17.500	2.35	23.58	1.57
5.417	2.09	11.500	12.54	17.583	2.35	23.67	1.57
5.500	2.09	11.583	12.54	17.667	2.35	23.75	1.57
5.583	2.09	11.667	12.54	17.750	2.35	23.83	1.57
5.667	2.09	11.750	38.67	17.833	2.35	23.92	1.57
5.750	2.09	11.833	38.68	17.917	2.35	24.00	1.57
5.833	2.09	11.917	99.29	18.000	2.35	24.08	1.57
5.917	2.09	12.000	99.30	18.083	2.35	24.17	1.57
6.000	2.09	12.083	159.92	18.167	2.35		
6.083	2.09	12.167	159.93	18.250	2.35		

Unit Hyd Qpeak (cms)= 0.841

PEAK FLOW (cms)= 0.522 (i)
TIME TO PEAK (hrs)= 12.667
RUNOFF VOLUME (mm)= 36.211
TOTAL RAINFALL (mm)= 130.660
RUNOFF COEFFICIENT = 0.277

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0012)| Area (ha)= 1.60 Curve Number (CN)= 49.7
|ID= 1 DT= 5.0 min | Ia (mm)= 8.23 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.24

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.09	12.250	18.83	18.33	2.35
0.167	0.00	6.250	2.35	12.333	18.82	18.42	2.35
0.250	1.44	6.333	2.35	12.417	18.81	18.50	2.35
0.333	1.44	6.417	2.35	12.500	18.82	18.58	2.35
0.417	1.44	6.500	2.35	12.583	18.81	18.67	2.35
0.500	1.44	6.583	2.35	12.667	18.82	18.75	2.35
0.583	1.44	6.667	2.35	12.750	9.67	18.83	2.35
0.667	1.44	6.750	2.35	12.833	9.67	18.92	2.35
0.750	1.44	6.833	2.35	12.917	9.67	19.00	2.35
0.833	1.44	6.917	2.35	13.000	9.67	19.08	2.35
0.917	1.44	7.000	2.35	13.083	9.67	19.17	2.35
1.000	1.44	7.083	2.35	13.167	9.67	19.25	2.35
1.083	1.44	7.167	2.35	13.250	7.06	19.33	2.35
1.167	1.44	7.250	2.87	13.333	7.06	19.42	2.35
1.250	1.44	7.333	2.87	13.417	7.06	19.50	2.35
1.333	1.44	7.417	2.87	13.500	7.06	19.58	2.35
1.417	1.44	7.500	2.87	13.583	7.06	19.67	2.35
1.500	1.44	7.583	2.87	13.667	7.06	19.75	2.35
1.583	1.44	7.667	2.87	13.750	5.49	19.83	2.35
1.667	1.44	7.750	2.87	13.833	5.49	19.92	2.35
1.750	1.44	7.833	2.87	13.917	5.49	20.00	2.35
1.833	1.44	7.917	2.87	14.000	5.49	20.08	2.35
1.917	1.44	8.000	2.87	14.083	5.49	20.17	2.35
2.000	1.44	8.083	2.87	14.167	5.49	20.25	1.57
2.083	1.44	8.167	2.87	14.250	3.92	20.33	1.57

2.167	1.44	8.250	3.40	14.333	3.92	20.42	1.57
2.250	1.70	8.333	3.40	14.417	3.92	20.50	1.57
2.333	1.70	8.417	3.40	14.500	3.92	20.58	1.57
2.417	1.70	8.500	3.40	14.583	3.92	20.67	1.57
2.500	1.70	8.583	3.40	14.667	3.92	20.75	1.57
2.583	1.70	8.667	3.40	14.750	3.92	20.83	1.57
2.667	1.70	8.750	3.66	14.833	3.92	20.92	1.57
2.750	1.70	8.833	3.66	14.917	3.92	21.00	1.57
2.833	1.70	8.917	3.66	15.000	3.92	21.08	1.57
2.917	1.70	9.000	3.66	15.083	3.92	21.17	1.57
3.000	1.70	9.083	3.66	15.167	3.92	21.25	1.57
3.083	1.70	9.167	3.66	15.250	3.92	21.33	1.57
3.167	1.70	9.250	4.18	15.333	3.92	21.42	1.57
3.250	1.70	9.333	4.18	15.417	3.92	21.50	1.57
3.333	1.70	9.417	4.18	15.500	3.92	21.58	1.57
3.417	1.70	9.500	4.18	15.583	3.92	21.67	1.57
3.500	1.70	9.583	4.18	15.667	3.92	21.75	1.57
3.583	1.70	9.667	4.18	15.750	3.92	21.83	1.57
3.667	1.70	9.750	4.70	15.833	3.92	21.92	1.57
3.750	1.70	9.833	4.70	15.917	3.92	22.00	1.57
3.833	1.70	9.917	4.70	16.000	3.92	22.08	1.57
3.917	1.70	10.000	4.70	16.083	3.92	22.17	1.57
4.000	1.70	10.083	4.70	16.167	3.92	22.25	1.57
4.083	1.70	10.167	4.70	16.250	2.35	22.33	1.57
4.167	1.70	10.250	6.01	16.333	2.35	22.42	1.57
4.250	2.09	10.333	6.01	16.417	2.35	22.50	1.57
4.333	2.09	10.417	6.01	16.500	2.35	22.58	1.57
4.417	2.09	10.500	6.01	16.583	2.35	22.67	1.57
4.500	2.09	10.583	6.01	16.667	2.35	22.75	1.57
4.583	2.09	10.667	6.01	16.750	2.35	22.83	1.57
4.667	2.09	10.750	8.10	16.833	2.35	22.92	1.57
4.750	2.09	10.833	8.10	16.917	2.35	23.00	1.57
4.833	2.09	10.917	8.10	17.000	2.35	23.08	1.57
4.917	2.09	11.000	8.10	17.083	2.35	23.17	1.57
5.000	2.09	11.083	8.10	17.167	2.35	23.25	1.57
5.083	2.09	11.167	8.10	17.250	2.35	23.33	1.57
5.167	2.09	11.250	12.54	17.333	2.35	23.42	1.57
5.250	2.09	11.333	12.54	17.417	2.35	23.50	1.57
5.333	2.09	11.417	12.54	17.500	2.35	23.58	1.57
5.417	2.09	11.500	12.54	17.583	2.35	23.67	1.57
5.500	2.09	11.583	12.54	17.667	2.35	23.75	1.57
5.583	2.09	11.667	12.54	17.750	2.35	23.83	1.57
5.667	2.09	11.750	38.67	17.833	2.35	23.92	1.57
5.750	2.09	11.833	38.68	17.917	2.35	24.00	1.57
5.833	2.09	11.917	99.29	18.000	2.35	24.08	1.57
5.917	2.09	12.000	99.30	18.083	2.35	24.17	1.57
6.000	2.09	12.083	159.92	18.167	2.35		
6.083	2.09	12.167	159.93	18.250	2.35		

Unit Hyd Qpeak (cms)= 0.255

PEAK FLOW (cms)= 0.136 (i)

TIME TO PEAK (hrs)= 12.250

RUNOFF VOLUME (mm)= 39.460

TOTAL RAINFALL (mm)= 130.660

RUNOFF COEFFICIENT = 0.302

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0007) | Area (ha)= 1.70 Curve Number (CN)= 62.0
 | ID= 1 DT= 5.0 min | Ia (mm)= 7.00 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.43

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.09	12.250	18.83	18.33	2.35

0.167	0.00	6.250	2.35	12.333	18.82	18.42	2.35
0.250	1.44	6.333	2.35	12.417	18.81	18.50	2.35
0.333	1.44	6.417	2.35	12.500	18.82	18.58	2.35
0.417	1.44	6.500	2.35	12.583	18.81	18.67	2.35
0.500	1.44	6.583	2.35	12.667	18.82	18.75	2.35
0.583	1.44	6.667	2.35	12.750	9.67	18.83	2.35
0.667	1.44	6.750	2.35	12.833	9.67	18.92	2.35
0.750	1.44	6.833	2.35	12.917	9.67	19.00	2.35
0.833	1.44	6.917	2.35	13.000	9.67	19.08	2.35
0.917	1.44	7.000	2.35	13.083	9.67	19.17	2.35
1.000	1.44	7.083	2.35	13.167	9.67	19.25	2.35
1.083	1.44	7.167	2.35	13.250	7.06	19.33	2.35
1.167	1.44	7.250	2.87	13.333	7.06	19.42	2.35
1.250	1.44	7.333	2.87	13.417	7.06	19.50	2.35
1.333	1.44	7.417	2.87	13.500	7.06	19.58	2.35
1.417	1.44	7.500	2.87	13.583	7.06	19.67	2.35
1.500	1.44	7.583	2.87	13.667	7.06	19.75	2.35
1.583	1.44	7.667	2.87	13.750	5.49	19.83	2.35
1.667	1.44	7.750	2.87	13.833	5.49	19.92	2.35
1.750	1.44	7.833	2.87	13.917	5.49	20.00	2.35
1.833	1.44	7.917	2.87	14.000	5.49	20.08	2.35
1.917	1.44	8.000	2.87	14.083	5.49	20.17	2.35
2.000	1.44	8.083	2.87	14.167	5.49	20.25	1.57
2.083	1.44	8.167	2.87	14.250	3.92	20.33	1.57
2.167	1.44	8.250	3.40	14.333	3.92	20.42	1.57
2.250	1.70	8.333	3.40	14.417	3.92	20.50	1.57
2.333	1.70	8.417	3.40	14.500	3.92	20.58	1.57
2.417	1.70	8.500	3.40	14.583	3.92	20.67	1.57
2.500	1.70	8.583	3.40	14.667	3.92	20.75	1.57
2.583	1.70	8.667	3.40	14.750	3.92	20.83	1.57
2.667	1.70	8.750	3.66	14.833	3.92	20.92	1.57
2.750	1.70	8.833	3.66	14.917	3.92	21.00	1.57
2.833	1.70	8.917	3.66	15.000	3.92	21.08	1.57
2.917	1.70	9.000	3.66	15.083	3.92	21.17	1.57
3.000	1.70	9.083	3.66	15.167	3.92	21.25	1.57
3.083	1.70	9.167	3.66	15.250	3.92	21.33	1.57
3.167	1.70	9.250	4.18	15.333	3.92	21.42	1.57
3.250	1.70	9.333	4.18	15.417	3.92	21.50	1.57
3.333	1.70	9.417	4.18	15.500	3.92	21.58	1.57
3.417	1.70	9.500	4.18	15.583	3.92	21.67	1.57
3.500	1.70	9.583	4.18	15.667	3.92	21.75	1.57
3.583	1.70	9.667	4.18	15.750	3.92	21.83	1.57
3.667	1.70	9.750	4.70	15.833	3.92	21.92	1.57
3.750	1.70	9.833	4.70	15.917	3.92	22.00	1.57
3.833	1.70	9.917	4.70	16.000	3.92	22.08	1.57
3.917	1.70	10.000	4.70	16.083	3.92	22.17	1.57
4.000	1.70	10.083	4.70	16.167	3.92	22.25	1.57
4.083	1.70	10.167	4.70	16.250	2.35	22.33	1.57
4.167	1.70	10.250	6.01	16.333	2.35	22.42	1.57
4.250	2.09	10.333	6.01	16.417	2.35	22.50	1.57
4.333	2.09	10.417	6.01	16.500	2.35	22.58	1.57
4.417	2.09	10.500	6.01	16.583	2.35	22.67	1.57
4.500	2.09	10.583	6.01	16.667	2.35	22.75	1.57
4.583	2.09	10.667	6.01	16.750	2.35	22.83	1.57
4.667	2.09	10.750	8.10	16.833	2.35	22.92	1.57
4.750	2.09	10.833	8.10	16.917	2.35	23.00	1.57
4.833	2.09	10.917	8.10	17.000	2.35	23.08	1.57
4.917	2.09	11.000	8.10	17.083	2.35	23.17	1.57
5.000	2.09	11.083	8.10	17.167	2.35	23.25	1.57
5.083	2.09	11.167	8.10	17.250	2.35	23.33	1.57
5.167	2.09	11.250	12.54	17.333	2.35	23.42	1.57
5.250	2.09	11.333	12.54	17.417	2.35	23.50	1.57
5.333	2.09	11.417	12.54	17.500	2.35	23.58	1.57
5.417	2.09	11.500	12.54	17.583	2.35	23.67	1.57
5.500	2.09	11.583	12.54	17.667	2.35	23.75	1.57
5.583	2.09	11.667	12.54	17.750	2.35	23.83	1.57
5.667	2.09	11.750	38.67	17.833	2.35	23.92	1.57
5.750	2.09	11.833	38.68	17.917	2.35	24.00	1.57
5.833	2.09	11.917	99.29	18.000	2.35	24.08	1.57
5.917	2.09	12.000	99.30	18.083	2.35	24.17	1.57
6.000	2.09	12.083	159.92	18.167	2.35		
6.083	2.09	12.167	159.93	18.250	2.35		

Unit Hyd Qpeak (cms)= 0.151

PEAK FLOW (cms)= 0.137 (i)
TIME TO PEAK (hrs)= 12.500
RUNOFF VOLUME (mm)= 54.738
TOTAL RAINFALL (mm)= 130.660
RUNOFF COEFFICIENT = 0.419

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0006) | Area (ha)= 1.82 Curve Number (CN)= 32.0
| ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.30

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.09	12.250	18.83	18.33	2.35
0.167	0.00	6.250	2.35	12.333	18.82	18.42	2.35
0.250	1.44	6.333	2.35	12.417	18.81	18.50	2.35
0.333	1.44	6.417	2.35	12.500	18.82	18.58	2.35
0.417	1.44	6.500	2.35	12.583	18.81	18.67	2.35
0.500	1.44	6.583	2.35	12.667	18.82	18.75	2.35
0.583	1.44	6.667	2.35	12.750	9.67	18.83	2.35
0.667	1.44	6.750	2.35	12.833	9.67	18.92	2.35
0.750	1.44	6.833	2.35	12.917	9.67	19.00	2.35
0.833	1.44	6.917	2.35	13.000	9.67	19.08	2.35
0.917	1.44	7.000	2.35	13.083	9.67	19.17	2.35
1.000	1.44	7.083	2.35	13.167	9.67	19.25	2.35
1.083	1.44	7.167	2.35	13.250	7.06	19.33	2.35
1.167	1.44	7.250	2.87	13.333	7.06	19.42	2.35
1.250	1.44	7.333	2.87	13.417	7.06	19.50	2.35
1.333	1.44	7.417	2.87	13.500	7.06	19.58	2.35
1.417	1.44	7.500	2.87	13.583	7.06	19.67	2.35
1.500	1.44	7.583	2.87	13.667	7.06	19.75	2.35
1.583	1.44	7.667	2.87	13.750	5.49	19.83	2.35
1.667	1.44	7.750	2.87	13.833	5.49	19.92	2.35
1.750	1.44	7.833	2.87	13.917	5.49	20.00	2.35
1.833	1.44	7.917	2.87	14.000	5.49	20.08	2.35
1.917	1.44	8.000	2.87	14.083	5.49	20.17	2.35
2.000	1.44	8.083	2.87	14.167	5.49	20.25	1.57
2.083	1.44	8.167	2.87	14.250	3.92	20.33	1.57
2.167	1.44	8.250	3.40	14.333	3.92	20.42	1.57
2.250	1.70	8.333	3.40	14.417	3.92	20.50	1.57
2.333	1.70	8.417	3.40	14.500	3.92	20.58	1.57
2.417	1.70	8.500	3.40	14.583	3.92	20.67	1.57
2.500	1.70	8.583	3.40	14.667	3.92	20.75	1.57
2.583	1.70	8.667	3.40	14.750	3.92	20.83	1.57
2.667	1.70	8.750	3.66	14.833	3.92	20.92	1.57
2.750	1.70	8.833	3.66	14.917	3.92	21.00	1.57
2.833	1.70	8.917	3.66	15.000	3.92	21.08	1.57
2.917	1.70	9.000	3.66	15.083	3.92	21.17	1.57
3.000	1.70	9.083	3.66	15.167	3.92	21.25	1.57
3.083	1.70	9.167	3.66	15.250	3.92	21.33	1.57
3.167	1.70	9.250	4.18	15.333	3.92	21.42	1.57
3.250	1.70	9.333	4.18	15.417	3.92	21.50	1.57
3.333	1.70	9.417	4.18	15.500	3.92	21.58	1.57
3.417	1.70	9.500	4.18	15.583	3.92	21.67	1.57
3.500	1.70	9.583	4.18	15.667	3.92	21.75	1.57
3.583	1.70	9.667	4.18	15.750	3.92	21.83	1.57
3.667	1.70	9.750	4.70	15.833	3.92	21.92	1.57
3.750	1.70	9.833	4.70	15.917	3.92	22.00	1.57
3.833	1.70	9.917	4.70	16.000	3.92	22.08	1.57
3.917	1.70	10.000	4.70	16.083	3.92	22.17	1.57
4.000	1.70	10.083	4.70	16.167	3.92	22.25	1.57
4.083	1.70	10.167	4.70	16.250	2.35	22.33	1.57
4.167	1.70	10.250	6.01	16.333	2.35	22.42	1.57

4.250	2.09	10.333	6.01	16.417	2.35	22.50	1.57
4.333	2.09	10.417	6.01	16.500	2.35	22.58	1.57
4.417	2.09	10.500	6.01	16.583	2.35	22.67	1.57
4.500	2.09	10.583	6.01	16.667	2.35	22.75	1.57
4.583	2.09	10.667	6.01	16.750	2.35	22.83	1.57
4.667	2.09	10.750	8.10	16.833	2.35	22.92	1.57
4.750	2.09	10.833	8.10	16.917	2.35	23.00	1.57
4.833	2.09	10.917	8.10	17.000	2.35	23.08	1.57
4.917	2.09	11.000	8.10	17.083	2.35	23.17	1.57
5.000	2.09	11.083	8.10	17.167	2.35	23.25	1.57
5.083	2.09	11.167	8.10	17.250	2.35	23.33	1.57
5.167	2.09	11.250	12.54	17.333	2.35	23.42	1.57
5.250	2.09	11.333	12.54	17.417	2.35	23.50	1.57
5.333	2.09	11.417	12.54	17.500	2.35	23.58	1.57
5.417	2.09	11.500	12.54	17.583	2.35	23.67	1.57
5.500	2.09	11.583	12.54	17.667	2.35	23.75	1.57
5.583	2.09	11.667	12.54	17.750	2.35	23.83	1.57
5.667	2.09	11.750	38.67	17.833	2.35	23.92	1.57
5.750	2.09	11.833	38.68	17.917	2.35	24.00	1.57
5.833	2.09	11.917	99.29	18.000	2.35	24.08	1.57
5.917	2.09	12.000	99.30	18.083	2.35	24.17	1.57
6.000	2.09	12.083	159.92	18.167	2.35		
6.083	2.09	12.167	159.93	18.250	2.35		

Unit Hyd Qpeak (cms)= 0.232

PEAK FLOW (cms)= 0.072 (i)
TIME TO PEAK (hrs)= 12.333
RUNOFF VOLUME (mm)= 22.036
TOTAL RAINFALL (mm)= 130.660
RUNOFF COEFFICIENT = 0.169

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| STANDHYD (0020) | Area (ha)= 3.73
| ID= 1 DT= 5.0 min | Total Imp(%)= 47.13 Dir. Conn.(%)= 36.26

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 1.76 1.97
Dep. Storage (mm)= 2.00 5.00
Average Slope (%)= 1.00 2.00
Length (m)= 56.00 32.50
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN		TIME	RAIN		TIME	RAIN
hrs	mm/hr		hrs	mm/hr		hrs	mm/hr
0.083	0.00		6.167	2.09		12.250	18.83
0.167	0.00		6.250	2.35		12.333	18.82
0.250	1.44		6.333	2.35		12.417	18.81
0.333	1.44		6.417	2.35		12.500	18.82
0.417	1.44		6.500	2.35		12.583	18.81
0.500	1.44		6.583	2.35		12.667	18.82
0.583	1.44		6.667	2.35		12.750	9.67
0.667	1.44		6.750	2.35		12.833	9.67
0.750	1.44		6.833	2.35		12.917	9.67
0.833	1.44		6.917	2.35		13.000	9.67
0.917	1.44		7.000	2.35		13.083	9.67
1.000	1.44		7.083	2.35		13.167	9.67
1.083	1.44		7.167	2.35		13.250	7.06
1.167	1.44		7.250	2.87		13.333	7.06
1.250	1.44		7.333	2.87		13.417	7.06
1.333	1.44		7.417	2.87		13.500	7.06
1.417	1.44		7.500	2.87		13.583	7.06
1.500	1.44		7.583	2.87		13.667	7.06
1.583	1.44		7.667	2.87		13.750	5.49
1.667	1.44		7.750	2.87		13.833	5.49

1.750	1.44	7.833	2.87	13.917	5.49	20.00	2.35
1.833	1.44	7.917	2.87	14.000	5.49	20.08	2.35
1.917	1.44	8.000	2.87	14.083	5.49	20.17	2.35
2.000	1.44	8.083	2.87	14.167	5.49	20.25	1.57
2.083	1.44	8.167	2.87	14.250	3.92	20.33	1.57
2.167	1.44	8.250	3.40	14.333	3.92	20.42	1.57
2.250	1.70	8.333	3.40	14.417	3.92	20.50	1.57
2.333	1.70	8.417	3.40	14.500	3.92	20.58	1.57
2.417	1.70	8.500	3.40	14.583	3.92	20.67	1.57
2.500	1.70	8.583	3.40	14.667	3.92	20.75	1.57
2.583	1.70	8.667	3.40	14.750	3.92	20.83	1.57
2.667	1.70	8.750	3.66	14.833	3.92	20.92	1.57
2.750	1.70	8.833	3.66	14.917	3.92	21.00	1.57
2.833	1.70	8.917	3.66	15.000	3.92	21.08	1.57
2.917	1.70	9.000	3.66	15.083	3.92	21.17	1.57
3.000	1.70	9.083	3.66	15.167	3.92	21.25	1.57
3.083	1.70	9.167	3.66	15.250	3.92	21.33	1.57
3.167	1.70	9.250	4.18	15.333	3.92	21.42	1.57
3.250	1.70	9.333	4.18	15.417	3.92	21.50	1.57
3.333	1.70	9.417	4.18	15.500	3.92	21.58	1.57
3.417	1.70	9.500	4.18	15.583	3.92	21.67	1.57
3.500	1.70	9.583	4.18	15.667	3.92	21.75	1.57
3.583	1.70	9.667	4.18	15.750	3.92	21.83	1.57
3.667	1.70	9.750	4.70	15.833	3.92	21.92	1.57
3.750	1.70	9.833	4.70	15.917	3.92	22.00	1.57
3.833	1.70	9.917	4.70	16.000	3.92	22.08	1.57
3.917	1.70	10.000	4.70	16.083	3.92	22.17	1.57
4.000	1.70	10.083	4.70	16.167	3.92	22.25	1.57
4.083	1.70	10.167	4.70	16.250	2.35	22.33	1.57
4.167	1.70	10.250	6.01	16.333	2.35	22.42	1.57
4.250	2.09	10.333	6.01	16.417	2.35	22.50	1.57
4.333	2.09	10.417	6.01	16.500	2.35	22.58	1.57
4.417	2.09	10.500	6.01	16.583	2.35	22.67	1.57
4.500	2.09	10.583	6.01	16.667	2.35	22.75	1.57
4.583	2.09	10.667	6.01	16.750	2.35	22.83	1.57
4.667	2.09	10.750	8.10	16.833	2.35	22.92	1.57
4.750	2.09	10.833	8.10	16.917	2.35	23.00	1.57
4.833	2.09	10.917	8.10	17.000	2.35	23.08	1.57
4.917	2.09	11.000	8.10	17.083	2.35	23.17	1.57
5.000	2.09	11.083	8.10	17.167	2.35	23.25	1.57
5.083	2.09	11.167	8.10	17.250	2.35	23.33	1.57
5.167	2.09	11.250	12.54	17.333	2.35	23.42	1.57
5.250	2.09	11.333	12.54	17.417	2.35	23.50	1.57
5.333	2.09	11.417	12.54	17.500	2.35	23.58	1.57
5.417	2.09	11.500	12.54	17.583	2.35	23.67	1.57
5.500	2.09	11.583	12.54	17.667	2.35	23.75	1.57
5.583	2.09	11.667	12.54	17.750	2.35	23.83	1.57
5.667	2.09	11.750	38.67	17.833	2.35	23.92	1.57
5.750	2.09	11.833	38.68	17.917	2.35	24.00	1.57
5.833	2.09	11.917	99.29	18.000	2.35	24.08	1.57
5.917	2.09	12.000	99.30	18.083	2.35	24.17	1.57
6.000	2.09	12.083	159.92	18.167	2.35		
6.083	2.09	12.167	159.93	18.250	2.35		

Max.Eff.Inten.(mm/hr)= 159.93 81.13
over (min) 5.00 10.00

Storage Coeff. (min)= 1.50 (ii) 8.27 (ii)

Unit Hyd. Tpeak (min)= 5.00 10.00

Unit Hyd. peak (cms)= 0.33 0.13

TOTALS

PEAK FLOW (cms)= 0.60 0.32 0.917 (iii)

TIME TO PEAK (hrs)= 12.17 12.17 12.17

RUNOFF VOLUME (mm)= 128.66 46.29 76.15

TOTAL RAINFALL (mm)= 130.66 130.66 130.66

RUNOFF COEFFICIENT = 0.98 0.35 0.58

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 49.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

-----
| RESERVOIR( 0026)| OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE
----- (cms) (ha.m.) | (cms) (ha.m.)
0.0000 0.0000 | 0.0240 0.1740
0.0030 0.0310 | 0.0270 0.1880
0.0050 0.0640 | 0.0310 0.2150
0.0060 0.0990 | 0.0370 0.2560
0.0080 0.1360 | 0.0000 0.0000

```

```

          AREA QPEAK TPEAK R.V.
          (ha) (cms) (hrs) (mm)
INFLOW : ID= 2 ( 0020) 3.730 0.917 12.17 76.15
OUTFLOW: ID= 1 ( 0026) 3.730 0.028 16.17 75.45

```

```

PEAK FLOW REDUCTION [Qout/Qin](%)= 3.07
TIME SHIFT OF PEAK FLOW (min)=240.00
MAXIMUM STORAGE USED (ha.m.)= 0.1958

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-----
| CALIB |
| STANDHYD ( 0021)| Area (ha)= 2.16
| ID= 1 DT= 5.0 min | Total Imp(%)= 41.54 Dir. Conn.(%)= 31.77
-----

```

```

          IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 0.90 1.26
Dep. Storage (mm)= 2.00 5.00
Average Slope (%)= 1.20 2.00
Length (m)= 64.00 33.00
Mannings n = 0.013 0.250

```

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

```

---- TRANSFORMED HYETOGRAPH ----
TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN
hrs mm/hr | hrs mm/hr | hrs mm/hr | hrs mm/hr
0.083 0.00 | 6.167 2.09 | 12.250 18.83 | 18.33 2.35
0.167 0.00 | 6.250 2.35 | 12.333 18.82 | 18.42 2.35
0.250 1.44 | 6.333 2.35 | 12.417 18.81 | 18.50 2.35
0.333 1.44 | 6.417 2.35 | 12.500 18.82 | 18.58 2.35
0.417 1.44 | 6.500 2.35 | 12.583 18.81 | 18.67 2.35
0.500 1.44 | 6.583 2.35 | 12.667 18.82 | 18.75 2.35
0.583 1.44 | 6.667 2.35 | 12.750 9.67 | 18.83 2.35
0.667 1.44 | 6.750 2.35 | 12.833 9.67 | 18.92 2.35
0.750 1.44 | 6.833 2.35 | 12.917 9.67 | 19.00 2.35
0.833 1.44 | 6.917 2.35 | 13.000 9.67 | 19.08 2.35
0.917 1.44 | 7.000 2.35 | 13.083 9.67 | 19.17 2.35
1.000 1.44 | 7.083 2.35 | 13.167 9.67 | 19.25 2.35
1.083 1.44 | 7.167 2.35 | 13.250 7.06 | 19.33 2.35
1.167 1.44 | 7.250 2.87 | 13.333 7.06 | 19.42 2.35
1.250 1.44 | 7.333 2.87 | 13.417 7.06 | 19.50 2.35
1.333 1.44 | 7.417 2.87 | 13.500 7.06 | 19.58 2.35
1.417 1.44 | 7.500 2.87 | 13.583 7.06 | 19.67 2.35
1.500 1.44 | 7.583 2.87 | 13.667 7.06 | 19.75 2.35
1.583 1.44 | 7.667 2.87 | 13.750 5.49 | 19.83 2.35
1.667 1.44 | 7.750 2.87 | 13.833 5.49 | 19.92 2.35
1.750 1.44 | 7.833 2.87 | 13.917 5.49 | 20.00 2.35
1.833 1.44 | 7.917 2.87 | 14.000 5.49 | 20.08 2.35
1.917 1.44 | 8.000 2.87 | 14.083 5.49 | 20.17 2.35
2.000 1.44 | 8.083 2.87 | 14.167 5.49 | 20.25 1.57
2.083 1.44 | 8.167 2.87 | 14.250 3.92 | 20.33 1.57
2.167 1.44 | 8.250 3.40 | 14.333 3.92 | 20.42 1.57
2.250 1.70 | 8.333 3.40 | 14.417 3.92 | 20.50 1.57
2.333 1.70 | 8.417 3.40 | 14.500 3.92 | 20.58 1.57
2.417 1.70 | 8.500 3.40 | 14.583 3.92 | 20.67 1.57
2.500 1.70 | 8.583 3.40 | 14.667 3.92 | 20.75 1.57
2.583 1.70 | 8.667 3.40 | 14.750 3.92 | 20.83 1.57
2.667 1.70 | 8.750 3.66 | 14.833 3.92 | 20.92 1.57

```

2.750	1.70	8.833	3.66	14.917	3.92	21.00	1.57
2.833	1.70	8.917	3.66	15.000	3.92	21.08	1.57
2.917	1.70	9.000	3.66	15.083	3.92	21.17	1.57
3.000	1.70	9.083	3.66	15.167	3.92	21.25	1.57
3.083	1.70	9.167	3.66	15.250	3.92	21.33	1.57
3.167	1.70	9.250	4.18	15.333	3.92	21.42	1.57
3.250	1.70	9.333	4.18	15.417	3.92	21.50	1.57
3.333	1.70	9.417	4.18	15.500	3.92	21.58	1.57
3.417	1.70	9.500	4.18	15.583	3.92	21.67	1.57
3.500	1.70	9.583	4.18	15.667	3.92	21.75	1.57
3.583	1.70	9.667	4.18	15.750	3.92	21.83	1.57
3.667	1.70	9.750	4.70	15.833	3.92	21.92	1.57
3.750	1.70	9.833	4.70	15.917	3.92	22.00	1.57
3.833	1.70	9.917	4.70	16.000	3.92	22.08	1.57
3.917	1.70	10.000	4.70	16.083	3.92	22.17	1.57
4.000	1.70	10.083	4.70	16.167	3.92	22.25	1.57
4.083	1.70	10.167	4.70	16.250	2.35	22.33	1.57
4.167	1.70	10.250	6.01	16.333	2.35	22.42	1.57
4.250	2.09	10.333	6.01	16.417	2.35	22.50	1.57
4.333	2.09	10.417	6.01	16.500	2.35	22.58	1.57
4.417	2.09	10.500	6.01	16.583	2.35	22.67	1.57
4.500	2.09	10.583	6.01	16.667	2.35	22.75	1.57
4.583	2.09	10.667	6.01	16.750	2.35	22.83	1.57
4.667	2.09	10.750	8.10	16.833	2.35	22.92	1.57
4.750	2.09	10.833	8.10	16.917	2.35	23.00	1.57
4.833	2.09	10.917	8.10	17.000	2.35	23.08	1.57
4.917	2.09	11.000	8.10	17.083	2.35	23.17	1.57
5.000	2.09	11.083	8.10	17.167	2.35	23.25	1.57
5.083	2.09	11.167	8.10	17.250	2.35	23.33	1.57
5.167	2.09	11.250	12.54	17.333	2.35	23.42	1.57
5.250	2.09	11.333	12.54	17.417	2.35	23.50	1.57
5.333	2.09	11.417	12.54	17.500	2.35	23.58	1.57
5.417	2.09	11.500	12.54	17.583	2.35	23.67	1.57
5.500	2.09	11.583	12.54	17.667	2.35	23.75	1.57
5.583	2.09	11.667	12.54	17.750	2.35	23.83	1.57
5.667	2.09	11.750	38.67	17.833	2.35	23.92	1.57
5.750	2.09	11.833	38.68	17.917	2.35	24.00	1.57
5.833	2.09	11.917	99.29	18.000	2.35	24.08	1.57
5.917	2.09	12.000	99.30	18.083	2.35	24.17	1.57
6.000	2.09	12.083	159.92	18.167	2.35		
6.083	2.09	12.167	159.93	18.250	2.35		

Max.Eff.Inten.(mm/hr)= 159.93 76.78

over (min) 5.00 10.00

Storage Coeff. (min)= 1.53 (ii) 8.52 (ii)

Unit Hyd. Tpeak (min)= 5.00 10.00

Unit Hyd. peak (cms)= 0.33 0.12

TOTALS

PEAK FLOW (cms)= 0.30 0.19 0.494 (iii)

TIME TO PEAK (hrs)= 12.17 12.17 12.17

RUNOFF VOLUME (mm)= 128.66 45.26 71.75

TOTAL RAINFALL (mm)= 130.66 130.66 130.66

RUNOFF COEFFICIENT = 0.98 0.35 0.55

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 49.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0025)| OVERFLOW IS OFF

| IN= 2---> OUT= 1 |

| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE

----- (cms) (ha.m.) | (cms) (ha.m.)

0.0000 0.0000 | 0.0300 0.0570

0.0010 0.0070 | 0.0340 0.0670

0.0020 0.0140 | 0.0380 0.0780

0.0020 0.0210 | 0.0400 0.0870

0.0020 0.0230 | 0.0410 0.0890

0.0020	0.0300		0.0440	0.1010
0.0180	0.0380		0.0470	0.1120
0.0240	0.0470		0.0000	0.0000

AREA	QPEAK	TPEAK	R.V.
(ha)	(cms)	(hrs)	(mm)
INFLOW: ID= 2 (0021)	2.160	0.494	12.17 71.75
OUTFLOW: ID= 1 (0025)	2.160	0.041	13.00 70.93

PEAK FLOW REDUCTION [Qout/Qin](%)= 8.26
TIME SHIFT OF PEAK FLOW (min)= 50.00
MAXIMUM STORAGE USED (ha.m.)= 0.0885

| ADD HYD (0019)|

| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.

----- (ha) (cms) (hrs) (mm)

ID1= 1 (0012): 1.60 0.136 12.25 39.46

+ ID2= 2 (0013): 12.11 0.522 12.67 36.21

=====

ID = 3 (0019): 13.71 0.598 12.50 36.59

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|

| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.

----- (ha) (cms) (hrs) (mm)

ID1= 3 (0019): 13.71 0.598 12.50 36.59

+ ID2= 2 (0017): 5.08 0.288 12.33 31.51

=====

ID = 1 (0019): 18.79 0.858 12.42 35.22

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|

| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.

----- (ha) (cms) (hrs) (mm)

ID1= 1 (0019): 18.79 0.858 12.42 35.22

+ ID2= 2 (0023): 3.32 0.120 12.75 69.00

=====

ID = 3 (0019): 22.11 0.972 12.42 40.29

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|

| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.

----- (ha) (cms) (hrs) (mm)

ID1= 3 (0019): 22.11 0.972 12.42 40.29

+ ID2= 2 (0025): 2.16 0.041 13.00 70.93

=====

ID = 1 (0019): 24.27 1.011 12.42 43.02

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|

| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.

----- (ha) (cms) (hrs) (mm)

ID1= 1 (0019): 24.27 1.011 12.42 43.02

+ ID2= 2 (0026): 3.73 0.028 16.17 75.45

=====

ID = 3 (0019): 28.00 1.030 12.42 47.34

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 3 (0019): 28.00 1.030 12.42 47.34
+ ID2= 2 (0028): 14.72 0.281 13.00 22.04
=====

ID = 1 (0019): 42.72 1.239 12.50 38.62

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 1 (0019): 42.72 1.239 12.50 38.62
+ ID2= 2 (0005): 9.65 0.205 12.83 22.04
=====

ID = 3 (0019): 52.37 1.422 12.58 35.57

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 3 (0019): 52.37 1.422 12.58 35.57
+ ID2= 2 (0006): 1.82 0.072 12.33 22.04
=====

ID = 1 (0019): 54.19 1.477 12.58 35.11

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 1 (0019): 54.19 1.477 12.58 35.11
+ ID2= 2 (0007): 1.70 0.137 12.50 54.74
=====

ID = 3 (0019): 55.89 1.609 12.50 35.71

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 3 (0019): 55.89 1.609 12.50 35.71
+ ID2= 2 (0008): 0.23 0.008 12.33 22.04
=====

ID = 1 (0019): 56.12 1.617 12.50 35.65

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

FINISH

=====

=====

V V I SSSSS U U A L (v 6.2.2015)
V V I SS U U A A L
V V I SS U U AAAAA L
V V I SS U U A A L
VV I SSSSS UUUUU A A LLLLL

OOO TTTT TTTT H H Y Y M M OOO TM
O O T T H H YY MM MM O O
O O T T H H Y M M O O
OOO T T H H Y M M OOO
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***** DETAILED OUTPUT *****

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.2\VO2\voim.dat
Output filename: C:\Users\ajoshi\AppData\Local\Civica\XH5\152aa03f-7064-4fdb-bb4c-0cf677e1e463\638f8c7b-3554-4558-a838-eef186329d1b\scena
Summary filename: C:\Users\ajoshi\AppData\Local\Civica\XH5\152aa03f-7064-4fdb-bb4c-0cf677e1e463\638f8c7b-3554-4558-a838-eef186329d1b\scena

DATE: 04-25-2025 TIME: 04:08:38

USER:

COMMENTS: _____

** SIMULATION : 10yr 24hr 10min SCS Type II (**

| READ STORM | Filename: C:\Users\ajoshi\AppData
| | ata\Local\Temp\
| | 7bb2ef64-4018-4f05-a7fd-fa3d49c20288\3f711a1f
| Ptotal= 91.10 mm | Comments: 10yr 24hr 10min SCS Type II (MTO)

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.00	0.00	6.17	1.64	12.33	13.12	18.50	1.64
0.17	1.00	6.33	1.64	12.50	13.12	18.67	1.64
0.33	1.00	6.50	1.64	12.67	6.74	18.83	1.64
0.50	1.00	6.67	1.64	12.83	6.74	19.00	1.64
0.67	1.00	6.83	1.64	13.00	6.74	19.17	1.64
0.83	1.00	7.00	1.64	13.17	4.92	19.33	1.64
1.00	1.00	7.17	2.00	13.33	4.92	19.50	1.64
1.17	1.00	7.33	2.00	13.50	4.92	19.67	1.64
1.33	1.00	7.50	2.00	13.67	3.83	19.83	1.64
1.50	1.00	7.67	2.00	13.83	3.83	20.00	1.64
1.67	1.00	7.83	2.00	14.00	3.83	20.17	1.09
1.83	1.00	8.00	2.00	14.17	2.73	20.33	1.09
2.00	1.00	8.17	2.37	14.33	2.73	20.50	1.09
2.17	1.18	8.33	2.37	14.50	2.73	20.67	1.09
2.33	1.18	8.50	2.37	14.67	2.73	20.83	1.09
2.50	1.18	8.67	2.55	14.83	2.73	21.00	1.09
2.67	1.18	8.83	2.55	15.00	2.73	21.17	1.09
2.83	1.18	9.00	2.55	15.17	2.73	21.33	1.09
3.00	1.18	9.17	2.92	15.33	2.73	21.50	1.09
3.17	1.18	9.33	2.92	15.50	2.73	21.67	1.09
3.33	1.18	9.50	2.92	15.67	2.73	21.83	1.09
3.50	1.18	9.67	3.28	15.83	2.73	22.00	1.09
3.67	1.18	9.83	3.28	16.00	2.73	22.17	1.09
3.83	1.18	10.00	3.28	16.17	1.64	22.33	1.09
4.00	1.18	10.17	4.19	16.33	1.64	22.50	1.09
4.17	1.46	10.33	4.19	16.50	1.64	22.67	1.09
4.33	1.46	10.50	4.19	16.67	1.64	22.83	1.09
4.50	1.46	10.67	5.65	16.83	1.64	23.00	1.09
4.67	1.46	10.83	5.65	17.00	1.64	23.17	1.09
4.83	1.46	11.00	5.65	17.17	1.64	23.33	1.09
5.00	1.46	11.17	8.75	17.33	1.64	23.50	1.09
5.17	1.46	11.33	8.75	17.50	1.64	23.67	1.09
5.33	1.46	11.50	8.75	17.67	1.64	23.83	1.09

5.50	1.46		11.67	26.97		17.83	1.64		24.00	1.09
5.67	1.46		11.83	69.24		18.00	1.64			
5.83	1.46		12.00	111.51		18.17	1.64			
6.00	1.46		12.17	13.12		18.33	1.64			

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| CALIB      |
| NASHYD ( 0015)| Area  (ha)=  1.13 Curve Number  (CN)= 43.0
|ID= 1 DT= 5.0 min| Ia   (mm)= 13.66 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)=  0.30

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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---- TRANSFORMED HYETOGRAPH ----
TIME RAIN| TIME RAIN| TIME RAIN| TIME RAIN
hrs mm/hr| hrs mm/hr| hrs mm/hr| hrs mm/hr
0.083 0.00| 6.167 1.46|12.250 13.13| 18.33 1.64
0.167 0.00| 6.250 1.64|12.333 13.12| 18.42 1.64
0.250 1.00| 6.333 1.64|12.417 13.12| 18.50 1.64
0.333 1.00| 6.417 1.64|12.500 13.12| 18.58 1.64
0.417 1.00| 6.500 1.64|12.583 13.12| 18.67 1.64
0.500 1.00| 6.583 1.64|12.667 13.12| 18.75 1.64
0.583 1.00| 6.667 1.64|12.750 6.74| 18.83 1.64
0.667 1.00| 6.750 1.64|12.833 6.74| 18.92 1.64
0.750 1.00| 6.833 1.64|12.917 6.74| 19.00 1.64
0.833 1.00| 6.917 1.64|13.000 6.74| 19.08 1.64
0.917 1.00| 7.000 1.64|13.083 6.74| 19.17 1.64
1.000 1.00| 7.083 1.64|13.167 6.74| 19.25 1.64
1.083 1.00| 7.167 1.64|13.250 4.92| 19.33 1.64
1.167 1.00| 7.250 2.00|13.333 4.92| 19.42 1.64
1.250 1.00| 7.333 2.00|13.417 4.92| 19.50 1.64
1.333 1.00| 7.417 2.00|13.500 4.92| 19.58 1.64
1.417 1.00| 7.500 2.00|13.583 4.92| 19.67 1.64
1.500 1.00| 7.583 2.00|13.667 4.92| 19.75 1.64
1.583 1.00| 7.667 2.00|13.750 3.83| 19.83 1.64
1.667 1.00| 7.750 2.00|13.833 3.83| 19.92 1.64
1.750 1.00| 7.833 2.00|13.917 3.83| 20.00 1.64
1.833 1.00| 7.917 2.00|14.000 3.83| 20.08 1.64
1.917 1.00| 8.000 2.00|14.083 3.83| 20.17 1.64
2.000 1.00| 8.083 2.00|14.167 3.83| 20.25 1.09
2.083 1.00| 8.167 2.00|14.250 2.73| 20.33 1.09
2.167 1.00| 8.250 2.37|14.333 2.73| 20.42 1.09
2.250 1.18| 8.333 2.37|14.417 2.73| 20.50 1.09
2.333 1.18| 8.417 2.37|14.500 2.73| 20.58 1.09
2.417 1.18| 8.500 2.37|14.583 2.73| 20.67 1.09
2.500 1.18| 8.583 2.37|14.667 2.73| 20.75 1.09
2.583 1.18| 8.667 2.37|14.750 2.73| 20.83 1.09
2.667 1.18| 8.750 2.55|14.833 2.73| 20.92 1.09
2.750 1.18| 8.833 2.55|14.917 2.73| 21.00 1.09
2.833 1.18| 8.917 2.55|15.000 2.73| 21.08 1.09
2.917 1.18| 9.000 2.55|15.083 2.73| 21.17 1.09
3.000 1.18| 9.083 2.55|15.167 2.73| 21.25 1.09
3.083 1.18| 9.167 2.55|15.250 2.73| 21.33 1.09
3.167 1.18| 9.250 2.92|15.333 2.73| 21.42 1.09
3.250 1.18| 9.333 2.92|15.417 2.73| 21.50 1.09
3.333 1.18| 9.417 2.92|15.500 2.73| 21.58 1.09
3.417 1.18| 9.500 2.92|15.583 2.73| 21.67 1.09
3.500 1.18| 9.583 2.92|15.667 2.73| 21.75 1.09
3.583 1.18| 9.667 2.92|15.750 2.73| 21.83 1.09
3.667 1.18| 9.750 3.28|15.833 2.73| 21.92 1.09
3.750 1.18| 9.833 3.28|15.917 2.73| 22.00 1.09
3.833 1.18| 9.917 3.28|16.000 2.73| 22.08 1.09
3.917 1.18|10.000 3.28|16.083 2.73| 22.17 1.09
4.000 1.18|10.083 3.28|16.167 2.73| 22.25 1.09
4.083 1.18|10.167 3.28|16.250 1.64| 22.33 1.09
4.167 1.18|10.250 4.19|16.333 1.64| 22.42 1.09
4.250 1.46|10.333 4.19|16.417 1.64| 22.50 1.09
4.333 1.46|10.417 4.19|16.500 1.64| 22.58 1.09
4.417 1.46|10.500 4.19|16.583 1.64| 22.67 1.09
4.500 1.46|10.583 4.19|16.667 1.64| 22.75 1.09

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4.583	1.46	10.667	4.19	16.750	1.64	22.83	1.09
4.667	1.46	10.750	5.65	16.833	1.64	22.92	1.09
4.750	1.46	10.833	5.65	16.917	1.64	23.00	1.09
4.833	1.46	10.917	5.65	17.000	1.64	23.08	1.09
4.917	1.46	11.000	5.65	17.083	1.64	23.17	1.09
5.000	1.46	11.083	5.65	17.167	1.64	23.25	1.09
5.083	1.46	11.167	5.65	17.250	1.64	23.33	1.09
5.167	1.46	11.250	8.75	17.333	1.64	23.42	1.09
5.250	1.46	11.333	8.75	17.417	1.64	23.50	1.09
5.333	1.46	11.417	8.75	17.500	1.64	23.58	1.09
5.417	1.46	11.500	8.75	17.583	1.64	23.67	1.09
5.500	1.46	11.583	8.75	17.667	1.64	23.75	1.09
5.583	1.46	11.667	8.75	17.750	1.64	23.83	1.09
5.667	1.46	11.750	26.96	17.833	1.64	23.92	1.09
5.750	1.46	11.833	26.97	17.917	1.64	24.00	1.09
5.833	1.46	11.917	69.23	18.000	1.64	24.08	1.09
5.917	1.46	12.000	69.24	18.083	1.64	24.17	1.09
6.000	1.46	12.083	111.50	18.167	1.64		
6.083	1.46	12.167	111.51	18.250	1.64		

Unit Hyd Qpeak (cms)= 0.144

PEAK FLOW (cms)= 0.029 (i)
TIME TO PEAK (hrs)= 12.333
RUNOFF VOLUME (mm)= 14.474
TOTAL RAINFALL (mm)= 91.100
RUNOFF COEFFICIENT = 0.159

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0004) | Area (ha)= 0.66 Curve Number (CN)= 62.0
| ID= 1 DT= 5.0 min | Ia (mm)= 7.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.19

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.46	12.250	13.13	18.33	1.64
0.167	0.00	6.250	1.64	12.333	13.12	18.42	1.64
0.250	1.00	6.333	1.64	12.417	13.12	18.50	1.64
0.333	1.00	6.417	1.64	12.500	13.12	18.58	1.64
0.417	1.00	6.500	1.64	12.583	13.12	18.67	1.64
0.500	1.00	6.583	1.64	12.667	13.12	18.75	1.64
0.583	1.00	6.667	1.64	12.750	6.74	18.83	1.64
0.667	1.00	6.750	1.64	12.833	6.74	18.92	1.64
0.750	1.00	6.833	1.64	12.917	6.74	19.00	1.64
0.833	1.00	6.917	1.64	13.000	6.74	19.08	1.64
0.917	1.00	7.000	1.64	13.083	6.74	19.17	1.64
1.000	1.00	7.083	1.64	13.167	6.74	19.25	1.64
1.083	1.00	7.167	1.64	13.250	4.92	19.33	1.64
1.167	1.00	7.250	2.00	13.333	4.92	19.42	1.64
1.250	1.00	7.333	2.00	13.417	4.92	19.50	1.64
1.333	1.00	7.417	2.00	13.500	4.92	19.58	1.64
1.417	1.00	7.500	2.00	13.583	4.92	19.67	1.64
1.500	1.00	7.583	2.00	13.667	4.92	19.75	1.64
1.583	1.00	7.667	2.00	13.750	3.83	19.83	1.64
1.667	1.00	7.750	2.00	13.833	3.83	19.92	1.64
1.750	1.00	7.833	2.00	13.917	3.83	20.00	1.64
1.833	1.00	7.917	2.00	14.000	3.83	20.08	1.64
1.917	1.00	8.000	2.00	14.083	3.83	20.17	1.64
2.000	1.00	8.083	2.00	14.167	3.83	20.25	1.09
2.083	1.00	8.167	2.00	14.250	2.73	20.33	1.09
2.167	1.00	8.250	2.37	14.333	2.73	20.42	1.09
2.250	1.18	8.333	2.37	14.417	2.73	20.50	1.09
2.333	1.18	8.417	2.37	14.500	2.73	20.58	1.09
2.417	1.18	8.500	2.37	14.583	2.73	20.67	1.09
2.500	1.18	8.583	2.37	14.667	2.73	20.75	1.09

2.583	1.18	8.667	2.37	14.750	2.73	20.83	1.09
2.667	1.18	8.750	2.55	14.833	2.73	20.92	1.09
2.750	1.18	8.833	2.55	14.917	2.73	21.00	1.09
2.833	1.18	8.917	2.55	15.000	2.73	21.08	1.09
2.917	1.18	9.000	2.55	15.083	2.73	21.17	1.09
3.000	1.18	9.083	2.55	15.167	2.73	21.25	1.09
3.083	1.18	9.167	2.55	15.250	2.73	21.33	1.09
3.167	1.18	9.250	2.92	15.333	2.73	21.42	1.09
3.250	1.18	9.333	2.92	15.417	2.73	21.50	1.09
3.333	1.18	9.417	2.92	15.500	2.73	21.58	1.09
3.417	1.18	9.500	2.92	15.583	2.73	21.67	1.09
3.500	1.18	9.583	2.92	15.667	2.73	21.75	1.09
3.583	1.18	9.667	2.92	15.750	2.73	21.83	1.09
3.667	1.18	9.750	3.28	15.833	2.73	21.92	1.09
3.750	1.18	9.833	3.28	15.917	2.73	22.00	1.09
3.833	1.18	9.917	3.28	16.000	2.73	22.08	1.09
3.917	1.18	10.000	3.28	16.083	2.73	22.17	1.09
4.000	1.18	10.083	3.28	16.167	2.73	22.25	1.09
4.083	1.18	10.167	3.28	16.250	1.64	22.33	1.09
4.167	1.18	10.250	4.19	16.333	1.64	22.42	1.09
4.250	1.46	10.333	4.19	16.417	1.64	22.50	1.09
4.333	1.46	10.417	4.19	16.500	1.64	22.58	1.09
4.417	1.46	10.500	4.19	16.583	1.64	22.67	1.09
4.500	1.46	10.583	4.19	16.667	1.64	22.75	1.09
4.583	1.46	10.667	4.19	16.750	1.64	22.83	1.09
4.667	1.46	10.750	5.65	16.833	1.64	22.92	1.09
4.750	1.46	10.833	5.65	16.917	1.64	23.00	1.09
4.833	1.46	10.917	5.65	17.000	1.64	23.08	1.09
4.917	1.46	11.000	5.65	17.083	1.64	23.17	1.09
5.000	1.46	11.083	5.65	17.167	1.64	23.25	1.09
5.083	1.46	11.167	5.65	17.250	1.64	23.33	1.09
5.167	1.46	11.250	8.75	17.333	1.64	23.42	1.09
5.250	1.46	11.333	8.75	17.417	1.64	23.50	1.09
5.333	1.46	11.417	8.75	17.500	1.64	23.58	1.09
5.417	1.46	11.500	8.75	17.583	1.64	23.67	1.09
5.500	1.46	11.583	8.75	17.667	1.64	23.75	1.09
5.583	1.46	11.667	8.75	17.750	1.64	23.83	1.09
5.667	1.46	11.750	26.96	17.833	1.64	23.92	1.09
5.750	1.46	11.833	26.97	17.917	1.64	24.00	1.09
5.833	1.46	11.917	69.23	18.000	1.64	24.08	1.09
5.917	1.46	12.000	69.24	18.083	1.64	24.17	1.09
6.000	1.46	12.083	111.50	18.167	1.64		
6.083	1.46	12.167	111.51	18.250	1.64		

Unit Hyd Qpeak (cms)= 0.133

PEAK FLOW (cms)= 0.049 (i)

TIME TO PEAK (hrs)= 12.250

RUNOFF VOLUME (mm)= 29.428

TOTAL RAINFALL (mm)= 91.100

RUNOFF COEFFICIENT = 0.323

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | STANDHYD (0022) | Area (ha)= 2.66
 | ID= 1 DT= 5.0 min | Total Imp(%)= 45.08 Dir. Conn.(%)= 31.83

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	1.20	1.46
Dep. Storage (mm)=	2.00	5.00
Average Slope (%)=	1.00	2.00
Length (m)=	67.80	47.60
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----
 TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN
 hrs mm/hr | hrs mm/hr | hrs mm/hr | hrs mm/hr

0.083	0.00	6.167	1.46	12.250	13.13	18.33	1.64
0.167	0.00	6.250	1.64	12.333	13.12	18.42	1.64
0.250	1.00	6.333	1.64	12.417	13.12	18.50	1.64
0.333	1.00	6.417	1.64	12.500	13.12	18.58	1.64
0.417	1.00	6.500	1.64	12.583	13.12	18.67	1.64
0.500	1.00	6.583	1.64	12.667	13.12	18.75	1.64
0.583	1.00	6.667	1.64	12.750	6.74	18.83	1.64
0.667	1.00	6.750	1.64	12.833	6.74	18.92	1.64
0.750	1.00	6.833	1.64	12.917	6.74	19.00	1.64
0.833	1.00	6.917	1.64	13.000	6.74	19.08	1.64
0.917	1.00	7.000	1.64	13.083	6.74	19.17	1.64
1.000	1.00	7.083	1.64	13.167	6.74	19.25	1.64
1.083	1.00	7.167	1.64	13.250	4.92	19.33	1.64
1.167	1.00	7.250	2.00	13.333	4.92	19.42	1.64
1.250	1.00	7.333	2.00	13.417	4.92	19.50	1.64
1.333	1.00	7.417	2.00	13.500	4.92	19.58	1.64
1.417	1.00	7.500	2.00	13.583	4.92	19.67	1.64
1.500	1.00	7.583	2.00	13.667	4.92	19.75	1.64
1.583	1.00	7.667	2.00	13.750	3.83	19.83	1.64
1.667	1.00	7.750	2.00	13.833	3.83	19.92	1.64
1.750	1.00	7.833	2.00	13.917	3.83	20.00	1.64
1.833	1.00	7.917	2.00	14.000	3.83	20.08	1.64
1.917	1.00	8.000	2.00	14.083	3.83	20.17	1.64
2.000	1.00	8.083	2.00	14.167	3.83	20.25	1.09
2.083	1.00	8.167	2.00	14.250	2.73	20.33	1.09
2.167	1.00	8.250	2.37	14.333	2.73	20.42	1.09
2.250	1.18	8.333	2.37	14.417	2.73	20.50	1.09
2.333	1.18	8.417	2.37	14.500	2.73	20.58	1.09
2.417	1.18	8.500	2.37	14.583	2.73	20.67	1.09
2.500	1.18	8.583	2.37	14.667	2.73	20.75	1.09
2.583	1.18	8.667	2.37	14.750	2.73	20.83	1.09
2.667	1.18	8.750	2.55	14.833	2.73	20.92	1.09
2.750	1.18	8.833	2.55	14.917	2.73	21.00	1.09
2.833	1.18	8.917	2.55	15.000	2.73	21.08	1.09
2.917	1.18	9.000	2.55	15.083	2.73	21.17	1.09
3.000	1.18	9.083	2.55	15.167	2.73	21.25	1.09
3.083	1.18	9.167	2.55	15.250	2.73	21.33	1.09
3.167	1.18	9.250	2.92	15.333	2.73	21.42	1.09
3.250	1.18	9.333	2.92	15.417	2.73	21.50	1.09
3.333	1.18	9.417	2.92	15.500	2.73	21.58	1.09
3.417	1.18	9.500	2.92	15.583	2.73	21.67	1.09
3.500	1.18	9.583	2.92	15.667	2.73	21.75	1.09
3.583	1.18	9.667	2.92	15.750	2.73	21.83	1.09
3.667	1.18	9.750	3.28	15.833	2.73	21.92	1.09
3.750	1.18	9.833	3.28	15.917	2.73	22.00	1.09
3.833	1.18	9.917	3.28	16.000	2.73	22.08	1.09
3.917	1.18	10.000	3.28	16.083	2.73	22.17	1.09
4.000	1.18	10.083	3.28	16.167	2.73	22.25	1.09
4.083	1.18	10.167	3.28	16.250	1.64	22.33	1.09
4.167	1.18	10.250	4.19	16.333	1.64	22.42	1.09
4.250	1.46	10.333	4.19	16.417	1.64	22.50	1.09
4.333	1.46	10.417	4.19	16.500	1.64	22.58	1.09
4.417	1.46	10.500	4.19	16.583	1.64	22.67	1.09
4.500	1.46	10.583	4.19	16.667	1.64	22.75	1.09
4.583	1.46	10.667	4.19	16.750	1.64	22.83	1.09
4.667	1.46	10.750	5.65	16.833	1.64	22.92	1.09
4.750	1.46	10.833	5.65	16.917	1.64	23.00	1.09
4.833	1.46	10.917	5.65	17.000	1.64	23.08	1.09
4.917	1.46	11.000	5.65	17.083	1.64	23.17	1.09
5.000	1.46	11.083	5.65	17.167	1.64	23.25	1.09
5.083	1.46	11.167	5.65	17.250	1.64	23.33	1.09
5.167	1.46	11.250	8.75	17.333	1.64	23.42	1.09
5.250	1.46	11.333	8.75	17.417	1.64	23.50	1.09
5.333	1.46	11.417	8.75	17.500	1.64	23.58	1.09
5.417	1.46	11.500	8.75	17.583	1.64	23.67	1.09
5.500	1.46	11.583	8.75	17.667	1.64	23.75	1.09
5.583	1.46	11.667	8.75	17.750	1.64	23.83	1.09
5.667	1.46	11.750	26.96	17.833	1.64	23.92	1.09
5.750	1.46	11.833	26.97	17.917	1.64	24.00	1.09
5.833	1.46	11.917	69.23	18.000	1.64	24.08	1.09
5.917	1.46	12.000	69.24	18.083	1.64	24.17	1.09
6.000	1.46	12.083	111.50	18.167	1.64		
6.083	1.46	12.167	111.51	18.250	1.64		

Max.Eff.Inten.(mm/hr)= 111.51 37.80
 over (min) 5.00 15.00
 Storage Coeff. (min)= 1.94 (ii) 13.50 (ii)
 Unit Hyd. Tpeak (min)= 5.00 15.00
 Unit Hyd. peak (cms)= 0.31 0.08
 TOTALS
 PEAK FLOW (cms)= 0.26 0.10 0.345 (iii)
 TIME TO PEAK (hrs)= 12.17 12.25 12.17
 RUNOFF VOLUME (mm)= 89.10 25.27 45.58
 TOTAL RAINFALL (mm)= 91.10 91.10 91.10
 RUNOFF COEFFICIENT = 0.98 0.28 0.50

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 49.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | ADD HYD (0024) |
 | 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
 ----- (ha) (cms) (hrs) (mm)
 ID1= 1 (0022): 2.66 0.345 12.17 45.58
 + ID2= 2 (0004): 0.66 0.049 12.25 29.43
 =====
 ID = 3 (0024): 3.32 0.390 12.17 42.37

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

 | RESERVOIR(0023) | OVERFLOW IS OFF
 | IN= 2---> OUT= 1 |
 | DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE
 ----- (cms) (ha.m.) | (cms) (ha.m.)
 0.0000 0.0000 | 0.0470 0.0670
 0.0020 0.0120 | 0.0790 0.0820
 0.0020 0.0250 | 0.1020 0.0980
 0.0030 0.0380 | 0.1200 0.1150
 0.0030 0.0520 | 0.0000 0.0000

AREA QPEAK TPEAK R.V.
 (ha) (cms) (hrs) (mm)
 INFLOW: ID= 2 (0024) 3.320 0.390 12.17 42.37
 OUTFLOW: ID= 1 (0023) 3.320 0.063 12.75 41.91

PEAK FLOW REDUCTION [Qout/Qin](%)= 16.05
 TIME SHIFT OF PEAK FLOW (min)= 35.00
 MAXIMUM STORAGE USED (ha.m.)= 0.0744

 | CALIB |
 | NASHYD (0027) | Area (ha)= 3.10 Curve Number (CN)= 35.8
 | ID= 1 DT= 5.0 min | Ia (mm)= 8.43 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.30

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----
 TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN
 hrs mm/hr | hrs mm/hr | hrs mm/hr | hrs mm/hr
 0.083 0.00 | 6.167 1.46 | 12.250 13.13 | 18.33 1.64
 0.167 0.00 | 6.250 1.64 | 12.333 13.12 | 18.42 1.64
 0.250 1.00 | 6.333 1.64 | 12.417 13.12 | 18.50 1.64
 0.333 1.00 | 6.417 1.64 | 12.500 13.12 | 18.58 1.64
 0.417 1.00 | 6.500 1.64 | 12.583 13.12 | 18.67 1.64
 0.500 1.00 | 6.583 1.64 | 12.667 13.12 | 18.75 1.64

0.583	1.00	6.667	1.64	12.750	6.74	18.83	1.64
0.667	1.00	6.750	1.64	12.833	6.74	18.92	1.64
0.750	1.00	6.833	1.64	12.917	6.74	19.00	1.64
0.833	1.00	6.917	1.64	13.000	6.74	19.08	1.64
0.917	1.00	7.000	1.64	13.083	6.74	19.17	1.64
1.000	1.00	7.083	1.64	13.167	6.74	19.25	1.64
1.083	1.00	7.167	1.64	13.250	4.92	19.33	1.64
1.167	1.00	7.250	2.00	13.333	4.92	19.42	1.64
1.250	1.00	7.333	2.00	13.417	4.92	19.50	1.64
1.333	1.00	7.417	2.00	13.500	4.92	19.58	1.64
1.417	1.00	7.500	2.00	13.583	4.92	19.67	1.64
1.500	1.00	7.583	2.00	13.667	4.92	19.75	1.64
1.583	1.00	7.667	2.00	13.750	3.83	19.83	1.64
1.667	1.00	7.750	2.00	13.833	3.83	19.92	1.64
1.750	1.00	7.833	2.00	13.917	3.83	20.00	1.64
1.833	1.00	7.917	2.00	14.000	3.83	20.08	1.64
1.917	1.00	8.000	2.00	14.083	3.83	20.17	1.64
2.000	1.00	8.083	2.00	14.167	3.83	20.25	1.09
2.083	1.00	8.167	2.00	14.250	2.73	20.33	1.09
2.167	1.00	8.250	2.37	14.333	2.73	20.42	1.09
2.250	1.18	8.333	2.37	14.417	2.73	20.50	1.09
2.333	1.18	8.417	2.37	14.500	2.73	20.58	1.09
2.417	1.18	8.500	2.37	14.583	2.73	20.67	1.09
2.500	1.18	8.583	2.37	14.667	2.73	20.75	1.09
2.583	1.18	8.667	2.37	14.750	2.73	20.83	1.09
2.667	1.18	8.750	2.55	14.833	2.73	20.92	1.09
2.750	1.18	8.833	2.55	14.917	2.73	21.00	1.09
2.833	1.18	8.917	2.55	15.000	2.73	21.08	1.09
2.917	1.18	9.000	2.55	15.083	2.73	21.17	1.09
3.000	1.18	9.083	2.55	15.167	2.73	21.25	1.09
3.083	1.18	9.167	2.55	15.250	2.73	21.33	1.09
3.167	1.18	9.250	2.92	15.333	2.73	21.42	1.09
3.250	1.18	9.333	2.92	15.417	2.73	21.50	1.09
3.333	1.18	9.417	2.92	15.500	2.73	21.58	1.09
3.417	1.18	9.500	2.92	15.583	2.73	21.67	1.09
3.500	1.18	9.583	2.92	15.667	2.73	21.75	1.09
3.583	1.18	9.667	2.92	15.750	2.73	21.83	1.09
3.667	1.18	9.750	3.28	15.833	2.73	21.92	1.09
3.750	1.18	9.833	3.28	15.917	2.73	22.00	1.09
3.833	1.18	9.917	3.28	16.000	2.73	22.08	1.09
3.917	1.18	10.000	3.28	16.083	2.73	22.17	1.09
4.000	1.18	10.083	3.28	16.167	2.73	22.25	1.09
4.083	1.18	10.167	3.28	16.250	1.64	22.33	1.09
4.167	1.18	10.250	4.19	16.333	1.64	22.42	1.09
4.250	1.46	10.333	4.19	16.417	1.64	22.50	1.09
4.333	1.46	10.417	4.19	16.500	1.64	22.58	1.09
4.417	1.46	10.500	4.19	16.583	1.64	22.67	1.09
4.500	1.46	10.583	4.19	16.667	1.64	22.75	1.09
4.583	1.46	10.667	4.19	16.750	1.64	22.83	1.09
4.667	1.46	10.750	5.65	16.833	1.64	22.92	1.09
4.750	1.46	10.833	5.65	16.917	1.64	23.00	1.09
4.833	1.46	10.917	5.65	17.000	1.64	23.08	1.09
4.917	1.46	11.000	5.65	17.083	1.64	23.17	1.09
5.000	1.46	11.083	5.65	17.167	1.64	23.25	1.09
5.083	1.46	11.167	5.65	17.250	1.64	23.33	1.09
5.167	1.46	11.250	8.75	17.333	1.64	23.42	1.09
5.250	1.46	11.333	8.75	17.417	1.64	23.50	1.09
5.333	1.46	11.417	8.75	17.500	1.64	23.58	1.09
5.417	1.46	11.500	8.75	17.583	1.64	23.67	1.09
5.500	1.46	11.583	8.75	17.667	1.64	23.75	1.09
5.583	1.46	11.667	8.75	17.750	1.64	23.83	1.09
5.667	1.46	11.750	26.96	17.833	1.64	23.92	1.09
5.750	1.46	11.833	26.97	17.917	1.64	24.00	1.09
5.833	1.46	11.917	69.23	18.000	1.64	24.08	1.09
5.917	1.46	12.000	69.24	18.083	1.64	24.17	1.09
6.000	1.46	12.083	111.50	18.167	1.64		
6.083	1.46	12.167	111.51	18.250	1.64		

Unit Hyd Qpeak (cms)= 0.395

PEAK FLOW (cms)= 0.070 (i)

TIME TO PEAK (hrs)= 12.333

RUNOFF VOLUME (mm)= 12.694

TOTAL RAINFALL (mm)= 91.100
RUNOFF COEFFICIENT = 0.139

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0010) | Area (ha)= 0.87 Curve Number (CN)= 32.0
| ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.24

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.46	12.250	13.13	18.33	1.64
0.167	0.00	6.250	1.64	12.333	13.12	18.42	1.64
0.250	1.00	6.333	1.64	12.417	13.12	18.50	1.64
0.333	1.00	6.417	1.64	12.500	13.12	18.58	1.64
0.417	1.00	6.500	1.64	12.583	13.12	18.67	1.64
0.500	1.00	6.583	1.64	12.667	13.12	18.75	1.64
0.583	1.00	6.667	1.64	12.750	6.74	18.83	1.64
0.667	1.00	6.750	1.64	12.833	6.74	18.92	1.64
0.750	1.00	6.833	1.64	12.917	6.74	19.00	1.64
0.833	1.00	6.917	1.64	13.000	6.74	19.08	1.64
0.917	1.00	7.000	1.64	13.083	6.74	19.17	1.64
1.000	1.00	7.083	1.64	13.167	6.74	19.25	1.64
1.083	1.00	7.167	1.64	13.250	4.92	19.33	1.64
1.167	1.00	7.250	2.00	13.333	4.92	19.42	1.64
1.250	1.00	7.333	2.00	13.417	4.92	19.50	1.64
1.333	1.00	7.417	2.00	13.500	4.92	19.58	1.64
1.417	1.00	7.500	2.00	13.583	4.92	19.67	1.64
1.500	1.00	7.583	2.00	13.667	4.92	19.75	1.64
1.583	1.00	7.667	2.00	13.750	3.83	19.83	1.64
1.667	1.00	7.750	2.00	13.833	3.83	19.92	1.64
1.750	1.00	7.833	2.00	13.917	3.83	20.00	1.64
1.833	1.00	7.917	2.00	14.000	3.83	20.08	1.64
1.917	1.00	8.000	2.00	14.083	3.83	20.17	1.64
2.000	1.00	8.083	2.00	14.167	3.83	20.25	1.09
2.083	1.00	8.167	2.00	14.250	2.73	20.33	1.09
2.167	1.00	8.250	2.37	14.333	2.73	20.42	1.09
2.250	1.18	8.333	2.37	14.417	2.73	20.50	1.09
2.333	1.18	8.417	2.37	14.500	2.73	20.58	1.09
2.417	1.18	8.500	2.37	14.583	2.73	20.67	1.09
2.500	1.18	8.583	2.37	14.667	2.73	20.75	1.09
2.583	1.18	8.667	2.37	14.750	2.73	20.83	1.09
2.667	1.18	8.750	2.55	14.833	2.73	20.92	1.09
2.750	1.18	8.833	2.55	14.917	2.73	21.00	1.09
2.833	1.18	8.917	2.55	15.000	2.73	21.08	1.09
2.917	1.18	9.000	2.55	15.083	2.73	21.17	1.09
3.000	1.18	9.083	2.55	15.167	2.73	21.25	1.09
3.083	1.18	9.167	2.55	15.250	2.73	21.33	1.09
3.167	1.18	9.250	2.92	15.333	2.73	21.42	1.09
3.250	1.18	9.333	2.92	15.417	2.73	21.50	1.09
3.333	1.18	9.417	2.92	15.500	2.73	21.58	1.09
3.417	1.18	9.500	2.92	15.583	2.73	21.67	1.09
3.500	1.18	9.583	2.92	15.667	2.73	21.75	1.09
3.583	1.18	9.667	2.92	15.750	2.73	21.83	1.09
3.667	1.18	9.750	3.28	15.833	2.73	21.92	1.09
3.750	1.18	9.833	3.28	15.917	2.73	22.00	1.09
3.833	1.18	9.917	3.28	16.000	2.73	22.08	1.09
3.917	1.18	10.000	3.28	16.083	2.73	22.17	1.09
4.000	1.18	10.083	3.28	16.167	2.73	22.25	1.09
4.083	1.18	10.167	3.28	16.250	1.64	22.33	1.09
4.167	1.18	10.250	4.19	16.333	1.64	22.42	1.09
4.250	1.46	10.333	4.19	16.417	1.64	22.50	1.09
4.333	1.46	10.417	4.19	16.500	1.64	22.58	1.09
4.417	1.46	10.500	4.19	16.583	1.64	22.67	1.09
4.500	1.46	10.583	4.19	16.667	1.64	22.75	1.09
4.583	1.46	10.667	4.19	16.750	1.64	22.83	1.09

4.667	1.46	10.750	5.65	16.833	1.64	22.92	1.09
4.750	1.46	10.833	5.65	16.917	1.64	23.00	1.09
4.833	1.46	10.917	5.65	17.000	1.64	23.08	1.09
4.917	1.46	11.000	5.65	17.083	1.64	23.17	1.09
5.000	1.46	11.083	5.65	17.167	1.64	23.25	1.09
5.083	1.46	11.167	5.65	17.250	1.64	23.33	1.09
5.167	1.46	11.250	8.75	17.333	1.64	23.42	1.09
5.250	1.46	11.333	8.75	17.417	1.64	23.50	1.09
5.333	1.46	11.417	8.75	17.500	1.64	23.58	1.09
5.417	1.46	11.500	8.75	17.583	1.64	23.67	1.09
5.500	1.46	11.583	8.75	17.667	1.64	23.75	1.09
5.583	1.46	11.667	8.75	17.750	1.64	23.83	1.09
5.667	1.46	11.750	26.96	17.833	1.64	23.92	1.09
5.750	1.46	11.833	26.97	17.917	1.64	24.00	1.09
5.833	1.46	11.917	69.23	18.000	1.64	24.08	1.09
5.917	1.46	12.000	69.24	18.083	1.64	24.17	1.09
6.000	1.46	12.083	111.50	18.167	1.64		
6.083	1.46	12.167	111.51	18.250	1.64		

Unit Hyd Qpeak (cms)= 0.138

PEAK FLOW (cms)= 0.019 (i)
TIME TO PEAK (hrs)= 12.250
RUNOFF VOLUME (mm)= 10.583
TOTAL RAINFALL (mm)= 91.100
RUNOFF COEFFICIENT = 0.116

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0009)| Area (ha)= 1.11 Curve Number (CN)= 62.0
| ID= 1 DT= 5.0 min | Ia (mm)= 7.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.34

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.46	12.250	13.13	18.33	1.64
0.167	0.00	6.250	1.64	12.333	13.12	18.42	1.64
0.250	1.00	6.333	1.64	12.417	13.12	18.50	1.64
0.333	1.00	6.417	1.64	12.500	13.12	18.58	1.64
0.417	1.00	6.500	1.64	12.583	13.12	18.67	1.64
0.500	1.00	6.583	1.64	12.667	13.12	18.75	1.64
0.583	1.00	6.667	1.64	12.750	6.74	18.83	1.64
0.667	1.00	6.750	1.64	12.833	6.74	18.92	1.64
0.750	1.00	6.833	1.64	12.917	6.74	19.00	1.64
0.833	1.00	6.917	1.64	13.000	6.74	19.08	1.64
0.917	1.00	7.000	1.64	13.083	6.74	19.17	1.64
1.000	1.00	7.083	1.64	13.167	6.74	19.25	1.64
1.083	1.00	7.167	1.64	13.250	4.92	19.33	1.64
1.167	1.00	7.250	2.00	13.333	4.92	19.42	1.64
1.250	1.00	7.333	2.00	13.417	4.92	19.50	1.64
1.333	1.00	7.417	2.00	13.500	4.92	19.58	1.64
1.417	1.00	7.500	2.00	13.583	4.92	19.67	1.64
1.500	1.00	7.583	2.00	13.667	4.92	19.75	1.64
1.583	1.00	7.667	2.00	13.750	3.83	19.83	1.64
1.667	1.00	7.750	2.00	13.833	3.83	19.92	1.64
1.750	1.00	7.833	2.00	13.917	3.83	20.00	1.64
1.833	1.00	7.917	2.00	14.000	3.83	20.08	1.64
1.917	1.00	8.000	2.00	14.083	3.83	20.17	1.64
2.000	1.00	8.083	2.00	14.167	3.83	20.25	1.09
2.083	1.00	8.167	2.00	14.250	2.73	20.33	1.09
2.167	1.00	8.250	2.37	14.333	2.73	20.42	1.09
2.250	1.18	8.333	2.37	14.417	2.73	20.50	1.09
2.333	1.18	8.417	2.37	14.500	2.73	20.58	1.09
2.417	1.18	8.500	2.37	14.583	2.73	20.67	1.09
2.500	1.18	8.583	2.37	14.667	2.73	20.75	1.09
2.583	1.18	8.667	2.37	14.750	2.73	20.83	1.09

2.667	1.18	8.750	2.55	14.833	2.73	20.92	1.09
2.750	1.18	8.833	2.55	14.917	2.73	21.00	1.09
2.833	1.18	8.917	2.55	15.000	2.73	21.08	1.09
2.917	1.18	9.000	2.55	15.083	2.73	21.17	1.09
3.000	1.18	9.083	2.55	15.167	2.73	21.25	1.09
3.083	1.18	9.167	2.55	15.250	2.73	21.33	1.09
3.167	1.18	9.250	2.92	15.333	2.73	21.42	1.09
3.250	1.18	9.333	2.92	15.417	2.73	21.50	1.09
3.333	1.18	9.417	2.92	15.500	2.73	21.58	1.09
3.417	1.18	9.500	2.92	15.583	2.73	21.67	1.09
3.500	1.18	9.583	2.92	15.667	2.73	21.75	1.09
3.583	1.18	9.667	2.92	15.750	2.73	21.83	1.09
3.667	1.18	9.750	3.28	15.833	2.73	21.92	1.09
3.750	1.18	9.833	3.28	15.917	2.73	22.00	1.09
3.833	1.18	9.917	3.28	16.000	2.73	22.08	1.09
3.917	1.18	10.000	3.28	16.083	2.73	22.17	1.09
4.000	1.18	10.083	3.28	16.167	2.73	22.25	1.09
4.083	1.18	10.167	3.28	16.250	1.64	22.33	1.09
4.167	1.18	10.250	4.19	16.333	1.64	22.42	1.09
4.250	1.46	10.333	4.19	16.417	1.64	22.50	1.09
4.333	1.46	10.417	4.19	16.500	1.64	22.58	1.09
4.417	1.46	10.500	4.19	16.583	1.64	22.67	1.09
4.500	1.46	10.583	4.19	16.667	1.64	22.75	1.09
4.583	1.46	10.667	4.19	16.750	1.64	22.83	1.09
4.667	1.46	10.750	5.65	16.833	1.64	22.92	1.09
4.750	1.46	10.833	5.65	16.917	1.64	23.00	1.09
4.833	1.46	10.917	5.65	17.000	1.64	23.08	1.09
4.917	1.46	11.000	5.65	17.083	1.64	23.17	1.09
5.000	1.46	11.083	5.65	17.167	1.64	23.25	1.09
5.083	1.46	11.167	5.65	17.250	1.64	23.33	1.09
5.167	1.46	11.250	8.75	17.333	1.64	23.42	1.09
5.250	1.46	11.333	8.75	17.417	1.64	23.50	1.09
5.333	1.46	11.417	8.75	17.500	1.64	23.58	1.09
5.417	1.46	11.500	8.75	17.583	1.64	23.67	1.09
5.500	1.46	11.583	8.75	17.667	1.64	23.75	1.09
5.583	1.46	11.667	8.75	17.750	1.64	23.83	1.09
5.667	1.46	11.750	26.96	17.833	1.64	23.92	1.09
5.750	1.46	11.833	26.97	17.917	1.64	24.00	1.09
5.833	1.46	11.917	69.23	18.000	1.64	24.08	1.09
5.917	1.46	12.000	69.24	18.083	1.64	24.17	1.09
6.000	1.46	12.083	111.50	18.167	1.64		
6.083	1.46	12.167	111.51	18.250	1.64		

Unit Hyd Qpeak (cms)= 0.125

PEAK FLOW (cms)= 0.055 (i)

TIME TO PEAK (hrs)= 12.417

RUNOFF VOLUME (mm)= 29.490

TOTAL RAINFALL (mm)= 91.100

RUNOFF COEFFICIENT = 0.324

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| ADD HYD (0017)|

1 + 2 = 3	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)

ID1= 1 (0010): 0.87 0.019 12.25 10.58

+ ID2= 2 (0027): 3.10 0.070 12.33 12.69

=====

ID = 3 (0017): 3.97 0.088 12.33 12.23

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0017)|

3 + 2 = 1	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)

ID1= 3 (0017): 3.97 0.088 12.33 12.23

+ ID2= 2 (0009): 1.11 0.055 12.42 29.49

=====

ID = 1 (0017): 5.08 0.143 12.33 16.00

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| CALIB |

| NASHYD (0028) | Area (ha)= 14.72 Curve Number (CN)= 32.0

| ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00

----- U.H. Tp(hrs)= 0.82

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.46	12.250	13.13	18.33	1.64
0.167	0.00	6.250	1.64	12.333	13.12	18.42	1.64
0.250	1.00	6.333	1.64	12.417	13.12	18.50	1.64
0.333	1.00	6.417	1.64	12.500	13.12	18.58	1.64
0.417	1.00	6.500	1.64	12.583	13.12	18.67	1.64
0.500	1.00	6.583	1.64	12.667	13.12	18.75	1.64
0.583	1.00	6.667	1.64	12.750	6.74	18.83	1.64
0.667	1.00	6.750	1.64	12.833	6.74	18.92	1.64
0.750	1.00	6.833	1.64	12.917	6.74	19.00	1.64
0.833	1.00	6.917	1.64	13.000	6.74	19.08	1.64
0.917	1.00	7.000	1.64	13.083	6.74	19.17	1.64
1.000	1.00	7.083	1.64	13.167	6.74	19.25	1.64
1.083	1.00	7.167	1.64	13.250	4.92	19.33	1.64
1.167	1.00	7.250	2.00	13.333	4.92	19.42	1.64
1.250	1.00	7.333	2.00	13.417	4.92	19.50	1.64
1.333	1.00	7.417	2.00	13.500	4.92	19.58	1.64
1.417	1.00	7.500	2.00	13.583	4.92	19.67	1.64
1.500	1.00	7.583	2.00	13.667	4.92	19.75	1.64
1.583	1.00	7.667	2.00	13.750	3.83	19.83	1.64
1.667	1.00	7.750	2.00	13.833	3.83	19.92	1.64
1.750	1.00	7.833	2.00	13.917	3.83	20.00	1.64
1.833	1.00	7.917	2.00	14.000	3.83	20.08	1.64
1.917	1.00	8.000	2.00	14.083	3.83	20.17	1.64
2.000	1.00	8.083	2.00	14.167	3.83	20.25	1.09
2.083	1.00	8.167	2.00	14.250	2.73	20.33	1.09
2.167	1.00	8.250	2.37	14.333	2.73	20.42	1.09
2.250	1.18	8.333	2.37	14.417	2.73	20.50	1.09
2.333	1.18	8.417	2.37	14.500	2.73	20.58	1.09
2.417	1.18	8.500	2.37	14.583	2.73	20.67	1.09
2.500	1.18	8.583	2.37	14.667	2.73	20.75	1.09
2.583	1.18	8.667	2.37	14.750	2.73	20.83	1.09
2.667	1.18	8.750	2.55	14.833	2.73	20.92	1.09
2.750	1.18	8.833	2.55	14.917	2.73	21.00	1.09
2.833	1.18	8.917	2.55	15.000	2.73	21.08	1.09
2.917	1.18	9.000	2.55	15.083	2.73	21.17	1.09
3.000	1.18	9.083	2.55	15.167	2.73	21.25	1.09
3.083	1.18	9.167	2.55	15.250	2.73	21.33	1.09
3.167	1.18	9.250	2.92	15.333	2.73	21.42	1.09
3.250	1.18	9.333	2.92	15.417	2.73	21.50	1.09
3.333	1.18	9.417	2.92	15.500	2.73	21.58	1.09
3.417	1.18	9.500	2.92	15.583	2.73	21.67	1.09
3.500	1.18	9.583	2.92	15.667	2.73	21.75	1.09
3.583	1.18	9.667	2.92	15.750	2.73	21.83	1.09
3.667	1.18	9.750	3.28	15.833	2.73	21.92	1.09
3.750	1.18	9.833	3.28	15.917	2.73	22.00	1.09
3.833	1.18	9.917	3.28	16.000	2.73	22.08	1.09
3.917	1.18	10.000	3.28	16.083	2.73	22.17	1.09
4.000	1.18	10.083	3.28	16.167	2.73	22.25	1.09
4.083	1.18	10.167	3.28	16.250	1.64	22.33	1.09
4.167	1.18	10.250	4.19	16.333	1.64	22.42	1.09
4.250	1.46	10.333	4.19	16.417	1.64	22.50	1.09
4.333	1.46	10.417	4.19	16.500	1.64	22.58	1.09
4.417	1.46	10.500	4.19	16.583	1.64	22.67	1.09
4.500	1.46	10.583	4.19	16.667	1.64	22.75	1.09
4.583	1.46	10.667	4.19	16.750	1.64	22.83	1.09
4.667	1.46	10.750	5.65	16.833	1.64	22.92	1.09

4.750	1.46	10.833	5.65	16.917	1.64	23.00	1.09
4.833	1.46	10.917	5.65	17.000	1.64	23.08	1.09
4.917	1.46	11.000	5.65	17.083	1.64	23.17	1.09
5.000	1.46	11.083	5.65	17.167	1.64	23.25	1.09
5.083	1.46	11.167	5.65	17.250	1.64	23.33	1.09
5.167	1.46	11.250	8.75	17.333	1.64	23.42	1.09
5.250	1.46	11.333	8.75	17.417	1.64	23.50	1.09
5.333	1.46	11.417	8.75	17.500	1.64	23.58	1.09
5.417	1.46	11.500	8.75	17.583	1.64	23.67	1.09
5.500	1.46	11.583	8.75	17.667	1.64	23.75	1.09
5.583	1.46	11.667	8.75	17.750	1.64	23.83	1.09
5.667	1.46	11.750	26.96	17.833	1.64	23.92	1.09
5.750	1.46	11.833	26.97	17.917	1.64	24.00	1.09
5.833	1.46	11.917	69.23	18.000	1.64	24.08	1.09
5.917	1.46	12.000	69.24	18.083	1.64	24.17	1.09
6.000	1.46	12.083	111.50	18.167	1.64		
6.083	1.46	12.167	111.51	18.250	1.64		

Unit Hyd Qpeak (cms)= 0.686

PEAK FLOW (cms)= 0.133 (i)

TIME TO PEAK (hrs)= 13.000

RUNOFF VOLUME (mm)= 10.594

TOTAL RAINFALL (mm)= 91.100

RUNOFF COEFFICIENT = 0.116

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0005) | Area (ha)= 9.65 Curve Number (CN)= 32.0
 | ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.71

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.46	12.250	13.13	18.33	1.64
0.167	0.00	6.250	1.64	12.333	13.12	18.42	1.64
0.250	1.00	6.333	1.64	12.417	13.12	18.50	1.64
0.333	1.00	6.417	1.64	12.500	13.12	18.58	1.64
0.417	1.00	6.500	1.64	12.583	13.12	18.67	1.64
0.500	1.00	6.583	1.64	12.667	13.12	18.75	1.64
0.583	1.00	6.667	1.64	12.750	6.74	18.83	1.64
0.667	1.00	6.750	1.64	12.833	6.74	18.92	1.64
0.750	1.00	6.833	1.64	12.917	6.74	19.00	1.64
0.833	1.00	6.917	1.64	13.000	6.74	19.08	1.64
0.917	1.00	7.000	1.64	13.083	6.74	19.17	1.64
1.000	1.00	7.083	1.64	13.167	6.74	19.25	1.64
1.083	1.00	7.167	1.64	13.250	4.92	19.33	1.64
1.167	1.00	7.250	2.00	13.333	4.92	19.42	1.64
1.250	1.00	7.333	2.00	13.417	4.92	19.50	1.64
1.333	1.00	7.417	2.00	13.500	4.92	19.58	1.64
1.417	1.00	7.500	2.00	13.583	4.92	19.67	1.64
1.500	1.00	7.583	2.00	13.667	4.92	19.75	1.64
1.583	1.00	7.667	2.00	13.750	3.83	19.83	1.64
1.667	1.00	7.750	2.00	13.833	3.83	19.92	1.64
1.750	1.00	7.833	2.00	13.917	3.83	20.00	1.64
1.833	1.00	7.917	2.00	14.000	3.83	20.08	1.64
1.917	1.00	8.000	2.00	14.083	3.83	20.17	1.64
2.000	1.00	8.083	2.00	14.167	3.83	20.25	1.09
2.083	1.00	8.167	2.00	14.250	2.73	20.33	1.09
2.167	1.00	8.250	2.37	14.333	2.73	20.42	1.09
2.250	1.18	8.333	2.37	14.417	2.73	20.50	1.09
2.333	1.18	8.417	2.37	14.500	2.73	20.58	1.09
2.417	1.18	8.500	2.37	14.583	2.73	20.67	1.09
2.500	1.18	8.583	2.37	14.667	2.73	20.75	1.09
2.583	1.18	8.667	2.37	14.750	2.73	20.83	1.09
2.667	1.18	8.750	2.55	14.833	2.73	20.92	1.09

2.750	1.18	8.833	2.55	14.917	2.73	21.00	1.09
2.833	1.18	8.917	2.55	15.000	2.73	21.08	1.09
2.917	1.18	9.000	2.55	15.083	2.73	21.17	1.09
3.000	1.18	9.083	2.55	15.167	2.73	21.25	1.09
3.083	1.18	9.167	2.55	15.250	2.73	21.33	1.09
3.167	1.18	9.250	2.92	15.333	2.73	21.42	1.09
3.250	1.18	9.333	2.92	15.417	2.73	21.50	1.09
3.333	1.18	9.417	2.92	15.500	2.73	21.58	1.09
3.417	1.18	9.500	2.92	15.583	2.73	21.67	1.09
3.500	1.18	9.583	2.92	15.667	2.73	21.75	1.09
3.583	1.18	9.667	2.92	15.750	2.73	21.83	1.09
3.667	1.18	9.750	3.28	15.833	2.73	21.92	1.09
3.750	1.18	9.833	3.28	15.917	2.73	22.00	1.09
3.833	1.18	9.917	3.28	16.000	2.73	22.08	1.09
3.917	1.18	10.000	3.28	16.083	2.73	22.17	1.09
4.000	1.18	10.083	3.28	16.167	2.73	22.25	1.09
4.083	1.18	10.167	3.28	16.250	1.64	22.33	1.09
4.167	1.18	10.250	4.19	16.333	1.64	22.42	1.09
4.250	1.46	10.333	4.19	16.417	1.64	22.50	1.09
4.333	1.46	10.417	4.19	16.500	1.64	22.58	1.09
4.417	1.46	10.500	4.19	16.583	1.64	22.67	1.09
4.500	1.46	10.583	4.19	16.667	1.64	22.75	1.09
4.583	1.46	10.667	4.19	16.750	1.64	22.83	1.09
4.667	1.46	10.750	5.65	16.833	1.64	22.92	1.09
4.750	1.46	10.833	5.65	16.917	1.64	23.00	1.09
4.833	1.46	10.917	5.65	17.000	1.64	23.08	1.09
4.917	1.46	11.000	5.65	17.083	1.64	23.17	1.09
5.000	1.46	11.083	5.65	17.167	1.64	23.25	1.09
5.083	1.46	11.167	5.65	17.250	1.64	23.33	1.09
5.167	1.46	11.250	8.75	17.333	1.64	23.42	1.09
5.250	1.46	11.333	8.75	17.417	1.64	23.50	1.09
5.333	1.46	11.417	8.75	17.500	1.64	23.58	1.09
5.417	1.46	11.500	8.75	17.583	1.64	23.67	1.09
5.500	1.46	11.583	8.75	17.667	1.64	23.75	1.09
5.583	1.46	11.667	8.75	17.750	1.64	23.83	1.09
5.667	1.46	11.750	26.96	17.833	1.64	23.92	1.09
5.750	1.46	11.833	26.97	17.917	1.64	24.00	1.09
5.833	1.46	11.917	69.23	18.000	1.64	24.08	1.09
5.917	1.46	12.000	69.24	18.083	1.64	24.17	1.09
6.000	1.46	12.083	111.50	18.167	1.64		
6.083	1.46	12.167	111.51	18.250	1.64		

Unit Hyd Qpeak (cms)= 0.519

PEAK FLOW (cms)= 0.097 (i)

TIME TO PEAK (hrs)= 12.833

RUNOFF VOLUME (mm)= 10.594

TOTAL RAINFALL (mm)= 91.100

RUNOFF COEFFICIENT = 0.116

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0008)| Area (ha)= 0.23 Curve Number (CN)= 32.0
|ID= 1 DT= 5.0 min| Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.33

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.46	12.250	13.13	18.33	1.64
0.167	0.00	6.250	1.64	12.333	13.12	18.42	1.64
0.250	1.00	6.333	1.64	12.417	13.12	18.50	1.64
0.333	1.00	6.417	1.64	12.500	13.12	18.58	1.64
0.417	1.00	6.500	1.64	12.583	13.12	18.67	1.64
0.500	1.00	6.583	1.64	12.667	13.12	18.75	1.64
0.583	1.00	6.667	1.64	12.750	6.74	18.83	1.64
0.667	1.00	6.750	1.64	12.833	6.74	18.92	1.64

0.750	1.00	6.833	1.64	12.917	6.74	19.00	1.64
0.833	1.00	6.917	1.64	13.000	6.74	19.08	1.64
0.917	1.00	7.000	1.64	13.083	6.74	19.17	1.64
1.000	1.00	7.083	1.64	13.167	6.74	19.25	1.64
1.083	1.00	7.167	1.64	13.250	4.92	19.33	1.64
1.167	1.00	7.250	2.00	13.333	4.92	19.42	1.64
1.250	1.00	7.333	2.00	13.417	4.92	19.50	1.64
1.333	1.00	7.417	2.00	13.500	4.92	19.58	1.64
1.417	1.00	7.500	2.00	13.583	4.92	19.67	1.64
1.500	1.00	7.583	2.00	13.667	4.92	19.75	1.64
1.583	1.00	7.667	2.00	13.750	3.83	19.83	1.64
1.667	1.00	7.750	2.00	13.833	3.83	19.92	1.64
1.750	1.00	7.833	2.00	13.917	3.83	20.00	1.64
1.833	1.00	7.917	2.00	14.000	3.83	20.08	1.64
1.917	1.00	8.000	2.00	14.083	3.83	20.17	1.64
2.000	1.00	8.083	2.00	14.167	3.83	20.25	1.09
2.083	1.00	8.167	2.00	14.250	2.73	20.33	1.09
2.167	1.00	8.250	2.37	14.333	2.73	20.42	1.09
2.250	1.18	8.333	2.37	14.417	2.73	20.50	1.09
2.333	1.18	8.417	2.37	14.500	2.73	20.58	1.09
2.417	1.18	8.500	2.37	14.583	2.73	20.67	1.09
2.500	1.18	8.583	2.37	14.667	2.73	20.75	1.09
2.583	1.18	8.667	2.37	14.750	2.73	20.83	1.09
2.667	1.18	8.750	2.55	14.833	2.73	20.92	1.09
2.750	1.18	8.833	2.55	14.917	2.73	21.00	1.09
2.833	1.18	8.917	2.55	15.000	2.73	21.08	1.09
2.917	1.18	9.000	2.55	15.083	2.73	21.17	1.09
3.000	1.18	9.083	2.55	15.167	2.73	21.25	1.09
3.083	1.18	9.167	2.55	15.250	2.73	21.33	1.09
3.167	1.18	9.250	2.92	15.333	2.73	21.42	1.09
3.250	1.18	9.333	2.92	15.417	2.73	21.50	1.09
3.333	1.18	9.417	2.92	15.500	2.73	21.58	1.09
3.417	1.18	9.500	2.92	15.583	2.73	21.67	1.09
3.500	1.18	9.583	2.92	15.667	2.73	21.75	1.09
3.583	1.18	9.667	2.92	15.750	2.73	21.83	1.09
3.667	1.18	9.750	3.28	15.833	2.73	21.92	1.09
3.750	1.18	9.833	3.28	15.917	2.73	22.00	1.09
3.833	1.18	9.917	3.28	16.000	2.73	22.08	1.09
3.917	1.18	10.000	3.28	16.083	2.73	22.17	1.09
4.000	1.18	10.083	3.28	16.167	2.73	22.25	1.09
4.083	1.18	10.167	3.28	16.250	1.64	22.33	1.09
4.167	1.18	10.250	4.19	16.333	1.64	22.42	1.09
4.250	1.46	10.333	4.19	16.417	1.64	22.50	1.09
4.333	1.46	10.417	4.19	16.500	1.64	22.58	1.09
4.417	1.46	10.500	4.19	16.583	1.64	22.67	1.09
4.500	1.46	10.583	4.19	16.667	1.64	22.75	1.09
4.583	1.46	10.667	4.19	16.750	1.64	22.83	1.09
4.667	1.46	10.750	5.65	16.833	1.64	22.92	1.09
4.750	1.46	10.833	5.65	16.917	1.64	23.00	1.09
4.833	1.46	10.917	5.65	17.000	1.64	23.08	1.09
4.917	1.46	11.000	5.65	17.083	1.64	23.17	1.09
5.000	1.46	11.083	5.65	17.167	1.64	23.25	1.09
5.083	1.46	11.167	5.65	17.250	1.64	23.33	1.09
5.167	1.46	11.250	8.75	17.333	1.64	23.42	1.09
5.250	1.46	11.333	8.75	17.417	1.64	23.50	1.09
5.333	1.46	11.417	8.75	17.500	1.64	23.58	1.09
5.417	1.46	11.500	8.75	17.583	1.64	23.67	1.09
5.500	1.46	11.583	8.75	17.667	1.64	23.75	1.09
5.583	1.46	11.667	8.75	17.750	1.64	23.83	1.09
5.667	1.46	11.750	26.96	17.833	1.64	23.92	1.09
5.750	1.46	11.833	26.97	17.917	1.64	24.00	1.09
5.833	1.46	11.917	69.23	18.000	1.64	24.08	1.09
5.917	1.46	12.000	69.24	18.083	1.64	24.17	1.09
6.000	1.46	12.083	111.50	18.167	1.64		
6.083	1.46	12.167	111.51	18.250	1.64		

Unit Hyd Qpeak (cms)= 0.027

PEAK FLOW (cms)= 0.004 (i)

TIME TO PEAK (hrs)= 12.417

RUNOFF VOLUME (mm)= 10.588

TOTAL RAINFALL (mm)= 91.100

RUNOFF COEFFICIENT = 0.116

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0013) | Area (ha)= 12.11 Curve Number (CN)= 48.1
| ID= 1 DT= 5.0 min | Ia (mm)= 11.30 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.55

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.46	12.250	13.13	18.33	1.64
0.167	0.00	6.250	1.64	12.333	13.12	18.42	1.64
0.250	1.00	6.333	1.64	12.417	13.12	18.50	1.64
0.333	1.00	6.417	1.64	12.500	13.12	18.58	1.64
0.417	1.00	6.500	1.64	12.583	13.12	18.67	1.64
0.500	1.00	6.583	1.64	12.667	13.12	18.75	1.64
0.583	1.00	6.667	1.64	12.750	6.74	18.83	1.64
0.667	1.00	6.750	1.64	12.833	6.74	18.92	1.64
0.750	1.00	6.833	1.64	12.917	6.74	19.00	1.64
0.833	1.00	6.917	1.64	13.000	6.74	19.08	1.64
0.917	1.00	7.000	1.64	13.083	6.74	19.17	1.64
1.000	1.00	7.083	1.64	13.167	6.74	19.25	1.64
1.083	1.00	7.167	1.64	13.250	4.92	19.33	1.64
1.167	1.00	7.250	2.00	13.333	4.92	19.42	1.64
1.250	1.00	7.333	2.00	13.417	4.92	19.50	1.64
1.333	1.00	7.417	2.00	13.500	4.92	19.58	1.64
1.417	1.00	7.500	2.00	13.583	4.92	19.67	1.64
1.500	1.00	7.583	2.00	13.667	4.92	19.75	1.64
1.583	1.00	7.667	2.00	13.750	3.83	19.83	1.64
1.667	1.00	7.750	2.00	13.833	3.83	19.92	1.64
1.750	1.00	7.833	2.00	13.917	3.83	20.00	1.64
1.833	1.00	7.917	2.00	14.000	3.83	20.08	1.64
1.917	1.00	8.000	2.00	14.083	3.83	20.17	1.64
2.000	1.00	8.083	2.00	14.167	3.83	20.25	1.09
2.083	1.00	8.167	2.00	14.250	2.73	20.33	1.09
2.167	1.00	8.250	2.37	14.333	2.73	20.42	1.09
2.250	1.18	8.333	2.37	14.417	2.73	20.50	1.09
2.333	1.18	8.417	2.37	14.500	2.73	20.58	1.09
2.417	1.18	8.500	2.37	14.583	2.73	20.67	1.09
2.500	1.18	8.583	2.37	14.667	2.73	20.75	1.09
2.583	1.18	8.667	2.37	14.750	2.73	20.83	1.09
2.667	1.18	8.750	2.55	14.833	2.73	20.92	1.09
2.750	1.18	8.833	2.55	14.917	2.73	21.00	1.09
2.833	1.18	8.917	2.55	15.000	2.73	21.08	1.09
2.917	1.18	9.000	2.55	15.083	2.73	21.17	1.09
3.000	1.18	9.083	2.55	15.167	2.73	21.25	1.09
3.083	1.18	9.167	2.55	15.250	2.73	21.33	1.09
3.167	1.18	9.250	2.92	15.333	2.73	21.42	1.09
3.250	1.18	9.333	2.92	15.417	2.73	21.50	1.09
3.333	1.18	9.417	2.92	15.500	2.73	21.58	1.09
3.417	1.18	9.500	2.92	15.583	2.73	21.67	1.09
3.500	1.18	9.583	2.92	15.667	2.73	21.75	1.09
3.583	1.18	9.667	2.92	15.750	2.73	21.83	1.09
3.667	1.18	9.750	3.28	15.833	2.73	21.92	1.09
3.750	1.18	9.833	3.28	15.917	2.73	22.00	1.09
3.833	1.18	9.917	3.28	16.000	2.73	22.08	1.09
3.917	1.18	10.000	3.28	16.083	2.73	22.17	1.09
4.000	1.18	10.083	3.28	16.167	2.73	22.25	1.09
4.083	1.18	10.167	3.28	16.250	1.64	22.33	1.09
4.167	1.18	10.250	4.19	16.333	1.64	22.42	1.09
4.250	1.46	10.333	4.19	16.417	1.64	22.50	1.09
4.333	1.46	10.417	4.19	16.500	1.64	22.58	1.09
4.417	1.46	10.500	4.19	16.583	1.64	22.67	1.09
4.500	1.46	10.583	4.19	16.667	1.64	22.75	1.09
4.583	1.46	10.667	4.19	16.750	1.64	22.83	1.09
4.667	1.46	10.750	5.65	16.833	1.64	22.92	1.09
4.750	1.46	10.833	5.65	16.917	1.64	23.00	1.09

4.833	1.46	10.917	5.65	17.000	1.64	23.08	1.09
4.917	1.46	11.000	5.65	17.083	1.64	23.17	1.09
5.000	1.46	11.083	5.65	17.167	1.64	23.25	1.09
5.083	1.46	11.167	5.65	17.250	1.64	23.33	1.09
5.167	1.46	11.250	8.75	17.333	1.64	23.42	1.09
5.250	1.46	11.333	8.75	17.417	1.64	23.50	1.09
5.333	1.46	11.417	8.75	17.500	1.64	23.58	1.09
5.417	1.46	11.500	8.75	17.583	1.64	23.67	1.09
5.500	1.46	11.583	8.75	17.667	1.64	23.75	1.09
5.583	1.46	11.667	8.75	17.750	1.64	23.83	1.09
5.667	1.46	11.750	26.96	17.833	1.64	23.92	1.09
5.750	1.46	11.833	26.97	17.917	1.64	24.00	1.09
5.833	1.46	11.917	69.23	18.000	1.64	24.08	1.09
5.917	1.46	12.000	69.24	18.083	1.64	24.17	1.09
6.000	1.46	12.083	111.50	18.167	1.64		
6.083	1.46	12.167	111.51	18.250	1.64		

Unit Hyd Qpeak (cms)= 0.841

PEAK FLOW (cms)= 0.253 (i)
TIME TO PEAK (hrs)= 12.667
RUNOFF VOLUME (mm)= 17.995
TOTAL RAINFALL (mm)= 91.100
RUNOFF COEFFICIENT = 0.198

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0012)| Area (ha)= 1.60 Curve Number (CN)= 49.7
| ID= 1 DT= 5.0 min | Ia (mm)= 8.23 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.24

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.46	12.250	13.13	18.33	1.64
0.167	0.00	6.250	1.64	12.333	13.12	18.42	1.64
0.250	1.00	6.333	1.64	12.417	13.12	18.50	1.64
0.333	1.00	6.417	1.64	12.500	13.12	18.58	1.64
0.417	1.00	6.500	1.64	12.583	13.12	18.67	1.64
0.500	1.00	6.583	1.64	12.667	13.12	18.75	1.64
0.583	1.00	6.667	1.64	12.750	6.74	18.83	1.64
0.667	1.00	6.750	1.64	12.833	6.74	18.92	1.64
0.750	1.00	6.833	1.64	12.917	6.74	19.00	1.64
0.833	1.00	6.917	1.64	13.000	6.74	19.08	1.64
0.917	1.00	7.000	1.64	13.083	6.74	19.17	1.64
1.000	1.00	7.083	1.64	13.167	6.74	19.25	1.64
1.083	1.00	7.167	1.64	13.250	4.92	19.33	1.64
1.167	1.00	7.250	2.00	13.333	4.92	19.42	1.64
1.250	1.00	7.333	2.00	13.417	4.92	19.50	1.64
1.333	1.00	7.417	2.00	13.500	4.92	19.58	1.64
1.417	1.00	7.500	2.00	13.583	4.92	19.67	1.64
1.500	1.00	7.583	2.00	13.667	4.92	19.75	1.64
1.583	1.00	7.667	2.00	13.750	3.83	19.83	1.64
1.667	1.00	7.750	2.00	13.833	3.83	19.92	1.64
1.750	1.00	7.833	2.00	13.917	3.83	20.00	1.64
1.833	1.00	7.917	2.00	14.000	3.83	20.08	1.64
1.917	1.00	8.000	2.00	14.083	3.83	20.17	1.64
2.000	1.00	8.083	2.00	14.167	3.83	20.25	1.09
2.083	1.00	8.167	2.00	14.250	2.73	20.33	1.09
2.167	1.00	8.250	2.37	14.333	2.73	20.42	1.09
2.250	1.18	8.333	2.37	14.417	2.73	20.50	1.09
2.333	1.18	8.417	2.37	14.500	2.73	20.58	1.09
2.417	1.18	8.500	2.37	14.583	2.73	20.67	1.09
2.500	1.18	8.583	2.37	14.667	2.73	20.75	1.09
2.583	1.18	8.667	2.37	14.750	2.73	20.83	1.09
2.667	1.18	8.750	2.55	14.833	2.73	20.92	1.09
2.750	1.18	8.833	2.55	14.917	2.73	21.00	1.09

2.833	1.18	8.917	2.55	15.000	2.73	21.08	1.09
2.917	1.18	9.000	2.55	15.083	2.73	21.17	1.09
3.000	1.18	9.083	2.55	15.167	2.73	21.25	1.09
3.083	1.18	9.167	2.55	15.250	2.73	21.33	1.09
3.167	1.18	9.250	2.92	15.333	2.73	21.42	1.09
3.250	1.18	9.333	2.92	15.417	2.73	21.50	1.09
3.333	1.18	9.417	2.92	15.500	2.73	21.58	1.09
3.417	1.18	9.500	2.92	15.583	2.73	21.67	1.09
3.500	1.18	9.583	2.92	15.667	2.73	21.75	1.09
3.583	1.18	9.667	2.92	15.750	2.73	21.83	1.09
3.667	1.18	9.750	3.28	15.833	2.73	21.92	1.09
3.750	1.18	9.833	3.28	15.917	2.73	22.00	1.09
3.833	1.18	9.917	3.28	16.000	2.73	22.08	1.09
3.917	1.18	10.000	3.28	16.083	2.73	22.17	1.09
4.000	1.18	10.083	3.28	16.167	2.73	22.25	1.09
4.083	1.18	10.167	3.28	16.250	1.64	22.33	1.09
4.167	1.18	10.250	4.19	16.333	1.64	22.42	1.09
4.250	1.46	10.333	4.19	16.417	1.64	22.50	1.09
4.333	1.46	10.417	4.19	16.500	1.64	22.58	1.09
4.417	1.46	10.500	4.19	16.583	1.64	22.67	1.09
4.500	1.46	10.583	4.19	16.667	1.64	22.75	1.09
4.583	1.46	10.667	4.19	16.750	1.64	22.83	1.09
4.667	1.46	10.750	5.65	16.833	1.64	22.92	1.09
4.750	1.46	10.833	5.65	16.917	1.64	23.00	1.09
4.833	1.46	10.917	5.65	17.000	1.64	23.08	1.09
4.917	1.46	11.000	5.65	17.083	1.64	23.17	1.09
5.000	1.46	11.083	5.65	17.167	1.64	23.25	1.09
5.083	1.46	11.167	5.65	17.250	1.64	23.33	1.09
5.167	1.46	11.250	8.75	17.333	1.64	23.42	1.09
5.250	1.46	11.333	8.75	17.417	1.64	23.50	1.09
5.333	1.46	11.417	8.75	17.500	1.64	23.58	1.09
5.417	1.46	11.500	8.75	17.583	1.64	23.67	1.09
5.500	1.46	11.583	8.75	17.667	1.64	23.75	1.09
5.583	1.46	11.667	8.75	17.750	1.64	23.83	1.09
5.667	1.46	11.750	26.96	17.833	1.64	23.92	1.09
5.750	1.46	11.833	26.97	17.917	1.64	24.00	1.09
5.833	1.46	11.917	69.23	18.000	1.64	24.08	1.09
5.917	1.46	12.000	69.24	18.083	1.64	24.17	1.09
6.000	1.46	12.083	111.50	18.167	1.64		
6.083	1.46	12.167	111.51	18.250	1.64		

Unit Hyd Qpeak (cms)= 0.255

PEAK FLOW (cms)= 0.068 (i)

TIME TO PEAK (hrs)= 12.250

RUNOFF VOLUME (mm)= 20.183

TOTAL RAINFALL (mm)= 91.100

RUNOFF COEFFICIENT = 0.222

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0007) | Area (ha)= 1.70 Curve Number (CN)= 62.0
 | ID= 1 DT= 5.0 min | Ia (mm)= 7.00 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.43

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN		TIME	RAIN		TIME	RAIN
hrs	mm/hr		hrs	mm/hr		hrs	mm/hr
0.083	0.00		6.167	1.46		12.250	13.13
0.167	0.00		6.250	1.64		12.333	13.12
0.250	1.00		6.333	1.64		12.417	13.12
0.333	1.00		6.417	1.64		12.500	13.12
0.417	1.00		6.500	1.64		12.583	13.12
0.500	1.00		6.583	1.64		12.667	13.12
0.583	1.00		6.667	1.64		12.750	6.74
0.667	1.00		6.750	1.64		12.833	6.74
0.750	1.00		6.833	1.64		12.917	6.74

0.833	1.00	6.917	1.64	13.000	6.74	19.08	1.64
0.917	1.00	7.000	1.64	13.083	6.74	19.17	1.64
1.000	1.00	7.083	1.64	13.167	6.74	19.25	1.64
1.083	1.00	7.167	1.64	13.250	4.92	19.33	1.64
1.167	1.00	7.250	2.00	13.333	4.92	19.42	1.64
1.250	1.00	7.333	2.00	13.417	4.92	19.50	1.64
1.333	1.00	7.417	2.00	13.500	4.92	19.58	1.64
1.417	1.00	7.500	2.00	13.583	4.92	19.67	1.64
1.500	1.00	7.583	2.00	13.667	4.92	19.75	1.64
1.583	1.00	7.667	2.00	13.750	3.83	19.83	1.64
1.667	1.00	7.750	2.00	13.833	3.83	19.92	1.64
1.750	1.00	7.833	2.00	13.917	3.83	20.00	1.64
1.833	1.00	7.917	2.00	14.000	3.83	20.08	1.64
1.917	1.00	8.000	2.00	14.083	3.83	20.17	1.64
2.000	1.00	8.083	2.00	14.167	3.83	20.25	1.09
2.083	1.00	8.167	2.00	14.250	2.73	20.33	1.09
2.167	1.00	8.250	2.37	14.333	2.73	20.42	1.09
2.250	1.18	8.333	2.37	14.417	2.73	20.50	1.09
2.333	1.18	8.417	2.37	14.500	2.73	20.58	1.09
2.417	1.18	8.500	2.37	14.583	2.73	20.67	1.09
2.500	1.18	8.583	2.37	14.667	2.73	20.75	1.09
2.583	1.18	8.667	2.37	14.750	2.73	20.83	1.09
2.667	1.18	8.750	2.55	14.833	2.73	20.92	1.09
2.750	1.18	8.833	2.55	14.917	2.73	21.00	1.09
2.833	1.18	8.917	2.55	15.000	2.73	21.08	1.09
2.917	1.18	9.000	2.55	15.083	2.73	21.17	1.09
3.000	1.18	9.083	2.55	15.167	2.73	21.25	1.09
3.083	1.18	9.167	2.55	15.250	2.73	21.33	1.09
3.167	1.18	9.250	2.92	15.333	2.73	21.42	1.09
3.250	1.18	9.333	2.92	15.417	2.73	21.50	1.09
3.333	1.18	9.417	2.92	15.500	2.73	21.58	1.09
3.417	1.18	9.500	2.92	15.583	2.73	21.67	1.09
3.500	1.18	9.583	2.92	15.667	2.73	21.75	1.09
3.583	1.18	9.667	2.92	15.750	2.73	21.83	1.09
3.667	1.18	9.750	3.28	15.833	2.73	21.92	1.09
3.750	1.18	9.833	3.28	15.917	2.73	22.00	1.09
3.833	1.18	9.917	3.28	16.000	2.73	22.08	1.09
3.917	1.18	10.000	3.28	16.083	2.73	22.17	1.09
4.000	1.18	10.083	3.28	16.167	2.73	22.25	1.09
4.083	1.18	10.167	3.28	16.250	1.64	22.33	1.09
4.167	1.18	10.250	4.19	16.333	1.64	22.42	1.09
4.250	1.46	10.333	4.19	16.417	1.64	22.50	1.09
4.333	1.46	10.417	4.19	16.500	1.64	22.58	1.09
4.417	1.46	10.500	4.19	16.583	1.64	22.67	1.09
4.500	1.46	10.583	4.19	16.667	1.64	22.75	1.09
4.583	1.46	10.667	4.19	16.750	1.64	22.83	1.09
4.667	1.46	10.750	5.65	16.833	1.64	22.92	1.09
4.750	1.46	10.833	5.65	16.917	1.64	23.00	1.09
4.833	1.46	10.917	5.65	17.000	1.64	23.08	1.09
4.917	1.46	11.000	5.65	17.083	1.64	23.17	1.09
5.000	1.46	11.083	5.65	17.167	1.64	23.25	1.09
5.083	1.46	11.167	5.65	17.250	1.64	23.33	1.09
5.167	1.46	11.250	8.75	17.333	1.64	23.42	1.09
5.250	1.46	11.333	8.75	17.417	1.64	23.50	1.09
5.333	1.46	11.417	8.75	17.500	1.64	23.58	1.09
5.417	1.46	11.500	8.75	17.583	1.64	23.67	1.09
5.500	1.46	11.583	8.75	17.667	1.64	23.75	1.09
5.583	1.46	11.667	8.75	17.750	1.64	23.83	1.09
5.667	1.46	11.750	26.96	17.833	1.64	23.92	1.09
5.750	1.46	11.833	26.97	17.917	1.64	24.00	1.09
5.833	1.46	11.917	69.23	18.000	1.64	24.08	1.09
5.917	1.46	12.000	69.24	18.083	1.64	24.17	1.09
6.000	1.46	12.083	111.50	18.167	1.64		
6.083	1.46	12.167	111.51	18.250	1.64		

Unit Hyd Qpeak (cms)= 0.151

PEAK FLOW (cms)= 0.072 (i)

TIME TO PEAK (hrs)= 12.500

RUNOFF VOLUME (mm)= 29.494

TOTAL RAINFALL (mm)= 91.100

RUNOFF COEFFICIENT = 0.324

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0006) | Area (ha)= 1.82 Curve Number (CN)= 32.0
| ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.30

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.46	12.250	13.13	18.33	1.64
0.167	0.00	6.250	1.64	12.333	13.12	18.42	1.64
0.250	1.00	6.333	1.64	12.417	13.12	18.50	1.64
0.333	1.00	6.417	1.64	12.500	13.12	18.58	1.64
0.417	1.00	6.500	1.64	12.583	13.12	18.67	1.64
0.500	1.00	6.583	1.64	12.667	13.12	18.75	1.64
0.583	1.00	6.667	1.64	12.750	6.74	18.83	1.64
0.667	1.00	6.750	1.64	12.833	6.74	18.92	1.64
0.750	1.00	6.833	1.64	12.917	6.74	19.00	1.64
0.833	1.00	6.917	1.64	13.000	6.74	19.08	1.64
0.917	1.00	7.000	1.64	13.083	6.74	19.17	1.64
1.000	1.00	7.083	1.64	13.167	6.74	19.25	1.64
1.083	1.00	7.167	1.64	13.250	4.92	19.33	1.64
1.167	1.00	7.250	2.00	13.333	4.92	19.42	1.64
1.250	1.00	7.333	2.00	13.417	4.92	19.50	1.64
1.333	1.00	7.417	2.00	13.500	4.92	19.58	1.64
1.417	1.00	7.500	2.00	13.583	4.92	19.67	1.64
1.500	1.00	7.583	2.00	13.667	4.92	19.75	1.64
1.583	1.00	7.667	2.00	13.750	3.83	19.83	1.64
1.667	1.00	7.750	2.00	13.833	3.83	19.92	1.64
1.750	1.00	7.833	2.00	13.917	3.83	20.00	1.64
1.833	1.00	7.917	2.00	14.000	3.83	20.08	1.64
1.917	1.00	8.000	2.00	14.083	3.83	20.17	1.64
2.000	1.00	8.083	2.00	14.167	3.83	20.25	1.09
2.083	1.00	8.167	2.00	14.250	2.73	20.33	1.09
2.167	1.00	8.250	2.37	14.333	2.73	20.42	1.09
2.250	1.18	8.333	2.37	14.417	2.73	20.50	1.09
2.333	1.18	8.417	2.37	14.500	2.73	20.58	1.09
2.417	1.18	8.500	2.37	14.583	2.73	20.67	1.09
2.500	1.18	8.583	2.37	14.667	2.73	20.75	1.09
2.583	1.18	8.667	2.37	14.750	2.73	20.83	1.09
2.667	1.18	8.750	2.55	14.833	2.73	20.92	1.09
2.750	1.18	8.833	2.55	14.917	2.73	21.00	1.09
2.833	1.18	8.917	2.55	15.000	2.73	21.08	1.09
2.917	1.18	9.000	2.55	15.083	2.73	21.17	1.09
3.000	1.18	9.083	2.55	15.167	2.73	21.25	1.09
3.083	1.18	9.167	2.55	15.250	2.73	21.33	1.09
3.167	1.18	9.250	2.92	15.333	2.73	21.42	1.09
3.250	1.18	9.333	2.92	15.417	2.73	21.50	1.09
3.333	1.18	9.417	2.92	15.500	2.73	21.58	1.09
3.417	1.18	9.500	2.92	15.583	2.73	21.67	1.09
3.500	1.18	9.583	2.92	15.667	2.73	21.75	1.09
3.583	1.18	9.667	2.92	15.750	2.73	21.83	1.09
3.667	1.18	9.750	3.28	15.833	2.73	21.92	1.09
3.750	1.18	9.833	3.28	15.917	2.73	22.00	1.09
3.833	1.18	9.917	3.28	16.000	2.73	22.08	1.09
3.917	1.18	10.000	3.28	16.083	2.73	22.17	1.09
4.000	1.18	10.083	3.28	16.167	2.73	22.25	1.09
4.083	1.18	10.167	3.28	16.250	1.64	22.33	1.09
4.167	1.18	10.250	4.19	16.333	1.64	22.42	1.09
4.250	1.46	10.333	4.19	16.417	1.64	22.50	1.09
4.333	1.46	10.417	4.19	16.500	1.64	22.58	1.09
4.417	1.46	10.500	4.19	16.583	1.64	22.67	1.09
4.500	1.46	10.583	4.19	16.667	1.64	22.75	1.09
4.583	1.46	10.667	4.19	16.750	1.64	22.83	1.09
4.667	1.46	10.750	5.65	16.833	1.64	22.92	1.09
4.750	1.46	10.833	5.65	16.917	1.64	23.00	1.09
4.833	1.46	10.917	5.65	17.000	1.64	23.08	1.09

4.917	1.46	11.000	5.65	17.083	1.64	23.17	1.09
5.000	1.46	11.083	5.65	17.167	1.64	23.25	1.09
5.083	1.46	11.167	5.65	17.250	1.64	23.33	1.09
5.167	1.46	11.250	8.75	17.333	1.64	23.42	1.09
5.250	1.46	11.333	8.75	17.417	1.64	23.50	1.09
5.333	1.46	11.417	8.75	17.500	1.64	23.58	1.09
5.417	1.46	11.500	8.75	17.583	1.64	23.67	1.09
5.500	1.46	11.583	8.75	17.667	1.64	23.75	1.09
5.583	1.46	11.667	8.75	17.750	1.64	23.83	1.09
5.667	1.46	11.750	26.96	17.833	1.64	23.92	1.09
5.750	1.46	11.833	26.97	17.917	1.64	24.00	1.09
5.833	1.46	11.917	69.23	18.000	1.64	24.08	1.09
5.917	1.46	12.000	69.24	18.083	1.64	24.17	1.09
6.000	1.46	12.083	111.50	18.167	1.64		
6.083	1.46	12.167	111.51	18.250	1.64		

Unit Hyd Qpeak (cms)= 0.232

PEAK FLOW (cms)= 0.034 (i)

TIME TO PEAK (hrs)= 12.333

RUNOFF VOLUME (mm)= 10.589

TOTAL RAINFALL (mm)= 91.100

RUNOFF COEFFICIENT = 0.116

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| STANDHYD (0020) | Area (ha)= 3.73
| ID= 1 DT= 5.0 min | Total Imp(%)= 47.13 Dir. Conn.(%)= 36.26

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	1.76	1.97
Dep. Storage (mm)=	2.00	5.00
Average Slope (%)=	1.00	2.00
Length (m)=	56.00	32.50
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.46	12.250	13.13	18.33	1.64
0.167	0.00	6.250	1.64	12.333	13.12	18.42	1.64
0.250	1.00	6.333	1.64	12.417	13.12	18.50	1.64
0.333	1.00	6.417	1.64	12.500	13.12	18.58	1.64
0.417	1.00	6.500	1.64	12.583	13.12	18.67	1.64
0.500	1.00	6.583	1.64	12.667	13.12	18.75	1.64
0.583	1.00	6.667	1.64	12.750	6.74	18.83	1.64
0.667	1.00	6.750	1.64	12.833	6.74	18.92	1.64
0.750	1.00	6.833	1.64	12.917	6.74	19.00	1.64
0.833	1.00	6.917	1.64	13.000	6.74	19.08	1.64
0.917	1.00	7.000	1.64	13.083	6.74	19.17	1.64
1.000	1.00	7.083	1.64	13.167	6.74	19.25	1.64
1.083	1.00	7.167	1.64	13.250	4.92	19.33	1.64
1.167	1.00	7.250	2.00	13.333	4.92	19.42	1.64
1.250	1.00	7.333	2.00	13.417	4.92	19.50	1.64
1.333	1.00	7.417	2.00	13.500	4.92	19.58	1.64
1.417	1.00	7.500	2.00	13.583	4.92	19.67	1.64
1.500	1.00	7.583	2.00	13.667	4.92	19.75	1.64
1.583	1.00	7.667	2.00	13.750	3.83	19.83	1.64
1.667	1.00	7.750	2.00	13.833	3.83	19.92	1.64
1.750	1.00	7.833	2.00	13.917	3.83	20.00	1.64
1.833	1.00	7.917	2.00	14.000	3.83	20.08	1.64
1.917	1.00	8.000	2.00	14.083	3.83	20.17	1.64
2.000	1.00	8.083	2.00	14.167	3.83	20.25	1.09
2.083	1.00	8.167	2.00	14.250	2.73	20.33	1.09
2.167	1.00	8.250	2.37	14.333	2.73	20.42	1.09
2.250	1.18	8.333	2.37	14.417	2.73	20.50	1.09
2.333	1.18	8.417	2.37	14.500	2.73	20.58	1.09

2.417	1.18	8.500	2.37	14.583	2.73	20.67	1.09
2.500	1.18	8.583	2.37	14.667	2.73	20.75	1.09
2.583	1.18	8.667	2.37	14.750	2.73	20.83	1.09
2.667	1.18	8.750	2.55	14.833	2.73	20.92	1.09
2.750	1.18	8.833	2.55	14.917	2.73	21.00	1.09
2.833	1.18	8.917	2.55	15.000	2.73	21.08	1.09
2.917	1.18	9.000	2.55	15.083	2.73	21.17	1.09
3.000	1.18	9.083	2.55	15.167	2.73	21.25	1.09
3.083	1.18	9.167	2.55	15.250	2.73	21.33	1.09
3.167	1.18	9.250	2.92	15.333	2.73	21.42	1.09
3.250	1.18	9.333	2.92	15.417	2.73	21.50	1.09
3.333	1.18	9.417	2.92	15.500	2.73	21.58	1.09
3.417	1.18	9.500	2.92	15.583	2.73	21.67	1.09
3.500	1.18	9.583	2.92	15.667	2.73	21.75	1.09
3.583	1.18	9.667	2.92	15.750	2.73	21.83	1.09
3.667	1.18	9.750	3.28	15.833	2.73	21.92	1.09
3.750	1.18	9.833	3.28	15.917	2.73	22.00	1.09
3.833	1.18	9.917	3.28	16.000	2.73	22.08	1.09
3.917	1.18	10.000	3.28	16.083	2.73	22.17	1.09
4.000	1.18	10.083	3.28	16.167	2.73	22.25	1.09
4.083	1.18	10.167	3.28	16.250	1.64	22.33	1.09
4.167	1.18	10.250	4.19	16.333	1.64	22.42	1.09
4.250	1.46	10.333	4.19	16.417	1.64	22.50	1.09
4.333	1.46	10.417	4.19	16.500	1.64	22.58	1.09
4.417	1.46	10.500	4.19	16.583	1.64	22.67	1.09
4.500	1.46	10.583	4.19	16.667	1.64	22.75	1.09
4.583	1.46	10.667	4.19	16.750	1.64	22.83	1.09
4.667	1.46	10.750	5.65	16.833	1.64	22.92	1.09
4.750	1.46	10.833	5.65	16.917	1.64	23.00	1.09
4.833	1.46	10.917	5.65	17.000	1.64	23.08	1.09
4.917	1.46	11.000	5.65	17.083	1.64	23.17	1.09
5.000	1.46	11.083	5.65	17.167	1.64	23.25	1.09
5.083	1.46	11.167	5.65	17.250	1.64	23.33	1.09
5.167	1.46	11.250	8.75	17.333	1.64	23.42	1.09
5.250	1.46	11.333	8.75	17.417	1.64	23.50	1.09
5.333	1.46	11.417	8.75	17.500	1.64	23.58	1.09
5.417	1.46	11.500	8.75	17.583	1.64	23.67	1.09
5.500	1.46	11.583	8.75	17.667	1.64	23.75	1.09
5.583	1.46	11.667	8.75	17.750	1.64	23.83	1.09
5.667	1.46	11.750	26.96	17.833	1.64	23.92	1.09
5.750	1.46	11.833	26.97	17.917	1.64	24.00	1.09
5.833	1.46	11.917	69.23	18.000	1.64	24.08	1.09
5.917	1.46	12.000	69.24	18.083	1.64	24.17	1.09
6.000	1.46	12.083	111.50	18.167	1.64		
6.083	1.46	12.167	111.51	18.250	1.64		

Max.Eff.Inten.(mm/hr)= 111.51 43.13
over (min) 5.00 15.00

Storage Coeff. (min)= 1.73 (ii) 10.45 (ii)

Unit Hyd. Tpeak (min)= 5.00 15.00

Unit Hyd. peak (cms)= 0.32 0.09

TOTALS

PEAK FLOW (cms)= 0.42 0.14 0.538 (iii)

TIME TO PEAK (hrs)= 12.17 12.25 12.17

RUNOFF VOLUME (mm)= 89.10 24.69 48.04

TOTAL RAINFALL (mm)= 91.10 91.10 91.10

RUNOFF COEFFICIENT = 0.98 0.27 0.53

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 49.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0026)| OVERFLOW IS OFF

| IN= 2---> OUT= 1 |

| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE

----- (cms) (ha.m.) | (cms) (ha.m.)

0.0000 0.0000 | 0.0240 0.1740

0.0030	0.0310		0.0270	0.1880
0.0050	0.0640		0.0310	0.2150
0.0060	0.0990		0.0370	0.2560
0.0080	0.1360		0.0000	0.0000

AREA QPEAK TPEAK R.V.				
(ha) (cms) (hrs) (mm)				
INFLOW : ID= 2 (0020)	3.730	0.538	12.17	48.04
OUTFLOW: ID= 1 (0026)	3.730	0.010	20.25	47.34

PEAK FLOW REDUCTION [Qout/Qin](%)= 1.80
TIME SHIFT OF PEAK FLOW (min)=485.00
MAXIMUM STORAGE USED (ha.m.)= 0.1399

| CALIB |
| STANDHYD (0021) | Area (ha)= 2.16
| ID= 1 DT= 5.0 min | Total Imp(%)= 41.54 Dir. Conn.(%)= 31.77

IMPERVIOUS PERVIOUS (i)		
Surface Area (ha)=	0.90	1.26
Dep. Storage (mm)=	2.00	5.00
Average Slope (°)=	1.20	2.00
Length (m)=	64.00	33.00
Mannings n	= 0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.46	12.250	13.13	18.33	1.64
0.167	0.00	6.250	1.64	12.333	13.12	18.42	1.64
0.250	1.00	6.333	1.64	12.417	13.12	18.50	1.64
0.333	1.00	6.417	1.64	12.500	13.12	18.58	1.64
0.417	1.00	6.500	1.64	12.583	13.12	18.67	1.64
0.500	1.00	6.583	1.64	12.667	13.12	18.75	1.64
0.583	1.00	6.667	1.64	12.750	6.74	18.83	1.64
0.667	1.00	6.750	1.64	12.833	6.74	18.92	1.64
0.750	1.00	6.833	1.64	12.917	6.74	19.00	1.64
0.833	1.00	6.917	1.64	13.000	6.74	19.08	1.64
0.917	1.00	7.000	1.64	13.083	6.74	19.17	1.64
1.000	1.00	7.083	1.64	13.167	6.74	19.25	1.64
1.083	1.00	7.167	1.64	13.250	4.92	19.33	1.64
1.167	1.00	7.250	2.00	13.333	4.92	19.42	1.64
1.250	1.00	7.333	2.00	13.417	4.92	19.50	1.64
1.333	1.00	7.417	2.00	13.500	4.92	19.58	1.64
1.417	1.00	7.500	2.00	13.583	4.92	19.67	1.64
1.500	1.00	7.583	2.00	13.667	4.92	19.75	1.64
1.583	1.00	7.667	2.00	13.750	3.83	19.83	1.64
1.667	1.00	7.750	2.00	13.833	3.83	19.92	1.64
1.750	1.00	7.833	2.00	13.917	3.83	20.00	1.64
1.833	1.00	7.917	2.00	14.000	3.83	20.08	1.64
1.917	1.00	8.000	2.00	14.083	3.83	20.17	1.64
2.000	1.00	8.083	2.00	14.167	3.83	20.25	1.09
2.083	1.00	8.167	2.00	14.250	2.73	20.33	1.09
2.167	1.00	8.250	2.37	14.333	2.73	20.42	1.09
2.250	1.18	8.333	2.37	14.417	2.73	20.50	1.09
2.333	1.18	8.417	2.37	14.500	2.73	20.58	1.09
2.417	1.18	8.500	2.37	14.583	2.73	20.67	1.09
2.500	1.18	8.583	2.37	14.667	2.73	20.75	1.09
2.583	1.18	8.667	2.37	14.750	2.73	20.83	1.09
2.667	1.18	8.750	2.55	14.833	2.73	20.92	1.09
2.750	1.18	8.833	2.55	14.917	2.73	21.00	1.09
2.833	1.18	8.917	2.55	15.000	2.73	21.08	1.09
2.917	1.18	9.000	2.55	15.083	2.73	21.17	1.09
3.000	1.18	9.083	2.55	15.167	2.73	21.25	1.09
3.083	1.18	9.167	2.55	15.250	2.73	21.33	1.09
3.167	1.18	9.250	2.92	15.333	2.73	21.42	1.09
3.250	1.18	9.333	2.92	15.417	2.73	21.50	1.09
3.333	1.18	9.417	2.92	15.500	2.73	21.58	1.09

3.417	1.18	9.500	2.92	15.583	2.73	21.67	1.09
3.500	1.18	9.583	2.92	15.667	2.73	21.75	1.09
3.583	1.18	9.667	2.92	15.750	2.73	21.83	1.09
3.667	1.18	9.750	3.28	15.833	2.73	21.92	1.09
3.750	1.18	9.833	3.28	15.917	2.73	22.00	1.09
3.833	1.18	9.917	3.28	16.000	2.73	22.08	1.09
3.917	1.18	10.000	3.28	16.083	2.73	22.17	1.09
4.000	1.18	10.083	3.28	16.167	2.73	22.25	1.09
4.083	1.18	10.167	3.28	16.250	1.64	22.33	1.09
4.167	1.18	10.250	4.19	16.333	1.64	22.42	1.09
4.250	1.46	10.333	4.19	16.417	1.64	22.50	1.09
4.333	1.46	10.417	4.19	16.500	1.64	22.58	1.09
4.417	1.46	10.500	4.19	16.583	1.64	22.67	1.09
4.500	1.46	10.583	4.19	16.667	1.64	22.75	1.09
4.583	1.46	10.667	4.19	16.750	1.64	22.83	1.09
4.667	1.46	10.750	5.65	16.833	1.64	22.92	1.09
4.750	1.46	10.833	5.65	16.917	1.64	23.00	1.09
4.833	1.46	10.917	5.65	17.000	1.64	23.08	1.09
4.917	1.46	11.000	5.65	17.083	1.64	23.17	1.09
5.000	1.46	11.083	5.65	17.167	1.64	23.25	1.09
5.083	1.46	11.167	5.65	17.250	1.64	23.33	1.09
5.167	1.46	11.250	8.75	17.333	1.64	23.42	1.09
5.250	1.46	11.333	8.75	17.417	1.64	23.50	1.09
5.333	1.46	11.417	8.75	17.500	1.64	23.58	1.09
5.417	1.46	11.500	8.75	17.583	1.64	23.67	1.09
5.500	1.46	11.583	8.75	17.667	1.64	23.75	1.09
5.583	1.46	11.667	8.75	17.750	1.64	23.83	1.09
5.667	1.46	11.750	26.96	17.833	1.64	23.92	1.09
5.750	1.46	11.833	26.97	17.917	1.64	24.00	1.09
5.833	1.46	11.917	69.23	18.000	1.64	24.08	1.09
5.917	1.46	12.000	69.24	18.083	1.64	24.17	1.09
6.000	1.46	12.083	111.50	18.167	1.64		
6.083	1.46	12.167	111.51	18.250	1.64		

Max.Eff.Inten.(mm/hr)= 111.51 40.66
over (min) 5.00 15.00

Storage Coeff. (min)= 1.77 (ii) 10.78 (ii)

Unit Hyd. Tpeak (min)= 5.00 15.00

Unit Hyd. peak (cms)= 0.32 0.09

TOTALS

PEAK FLOW (cms)= 0.21 0.09 0.283 (iii)

TIME TO PEAK (hrs)= 12.17 12.25 12.17

RUNOFF VOLUME (mm)= 89.10 24.05 44.72

TOTAL RAINFALL (mm)= 91.10 91.10 91.10

RUNOFF COEFFICIENT = 0.98 0.26 0.49

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 49.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

-----
| RESERVOIR( 0025)| OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE
----- (cms) (ha.m.) | (cms) (ha.m.)
      0.0000 0.0000 | 0.0300 0.0570
      0.0010 0.0070 | 0.0340 0.0670
      0.0020 0.0140 | 0.0380 0.0780
      0.0020 0.0210 | 0.0400 0.0870
      0.0020 0.0230 | 0.0410 0.0890
      0.0020 0.0300 | 0.0440 0.1010
      0.0180 0.0380 | 0.0470 0.1120
      0.0240 0.0470 | 0.0000 0.0000

```

AREA QPEAK TPEAK R.V.

(ha) (cms) (hrs) (mm)

INFLOW: ID= 2 (0021) 2.160 0.283 12.17 44.72

OUTFLOW: ID= 1 (0025) 2.160 0.029 13.00 43.89

PEAK FLOW REDUCTION [Qout/Qin](%)= 10.10
TIME SHIFT OF PEAK FLOW (min)= 50.00
MAXIMUM STORAGE USED (ha.m.)= 0.0547

| ADD HYD (0019)|

| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)

ID1= 1 (0012): 1.60 0.068 12.25 20.18

+ ID2= 2 (0013): 12.11 0.253 12.67 17.99

=====

ID = 3 (0019): 13.71 0.290 12.58 18.25

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|

| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)

ID1= 3 (0019): 13.71 0.290 12.58 18.25

+ ID2= 2 (0017): 5.08 0.143 12.33 16.00

=====

ID = 1 (0019): 18.79 0.419 12.42 17.64

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|

| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)

ID1= 1 (0019): 18.79 0.419 12.42 17.64

+ ID2= 2 (0023): 3.32 0.063 12.75 41.91

=====

ID = 3 (0019): 22.11 0.472 12.50 21.29

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|

| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)

ID1= 3 (0019): 22.11 0.472 12.50 21.29

+ ID2= 2 (0025): 2.16 0.029 13.00 43.89

=====

ID = 1 (0019): 24.27 0.499 12.50 23.30

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|

| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)

ID1= 1 (0019): 24.27 0.499 12.50 23.30

+ ID2= 2 (0026): 3.73 0.010 20.25 47.34

=====

ID = 3 (0019): 28.00 0.505 12.50 26.50

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|

| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)

ID1= 3 (0019): 28.00 0.505 12.50 26.50

+ ID2= 2 (0028): 14.72 0.133 13.00 10.59

=====

ID = 1 (0019):	42.72	0.604	12.58	21.02

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|

1 + 2 = 3	AREA	QPEAK	TPEAK	R.V.
-----	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0019):	42.72	0.604	12.58	21.02
+ ID2= 2 (0005):	9.65	0.097	12.83	10.59

=====

ID = 3 (0019):	52.37	0.691	12.58	19.10

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|

3 + 2 = 1	AREA	QPEAK	TPEAK	R.V.
-----	(ha)	(cms)	(hrs)	(mm)
ID1= 3 (0019):	52.37	0.691	12.58	19.10
+ ID2= 2 (0006):	1.82	0.034	12.33	10.59

=====

ID = 1 (0019):	54.19	0.717	12.58	18.81

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|

1 + 2 = 3	AREA	QPEAK	TPEAK	R.V.
-----	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0019):	54.19	0.717	12.58	18.81
+ ID2= 2 (0007):	1.70	0.072	12.50	29.49

=====

ID = 3 (0019):	55.89	0.788	12.58	19.14

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|

3 + 2 = 1	AREA	QPEAK	TPEAK	R.V.
-----	(ha)	(cms)	(hrs)	(mm)
ID1= 3 (0019):	55.89	0.788	12.58	19.14
+ ID2= 2 (0008):	0.23	0.004	12.42	10.59

=====

ID = 1 (0019):	56.12	0.791	12.58	19.10

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

=====

V V I SSSSS U U A L (v 6.2.2015)

V V I SS U U AA L

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V V I SS U U A A L

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OOO TTTT TTTT H H Y Y M M OOO TM

O O T T H H YY MMM O O

O O T T H H Y M M O O

OOO T T H H Y M M OOO

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***** DETAILED OUTPUT*****

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.2\VO2\voindat
Output filename: C:\Users\ajoshi\AppData\Local\Civica\XH5\152aa03f-7064-4fdb-bb4c-0cf677e1e463\0595b341-7926-48aa-97fc-f543bed9c5f1\scena
Summary filename: C:\Users\ajoshi\AppData\Local\Civica\XH5\152aa03f-7064-4fdb-bb4c-0cf677e1e463\0595b341-7926-48aa-97fc-f543bed9c5f1\scena

DATE: 04-25-2025 TIME: 04:08:37

USER:

COMMENTS: _____

** SIMULATION : 25 mm **

| CHICAGO STORM | IDF curve parameters: A= 381.403
| Ptotal= 33.08 mm | B= 0.000
----- C= 0.699
 used in: INTENSITY = A / (t + B)^C

Duration of storm = 4.00 hrs
Storm time step = 10.00 min
Time to peak ratio = 0.33

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.00	2.78	1.00	13.16	2.00	5.50	3.00	3.20
0.17	3.11	1.17	76.28	2.17	4.86	3.17	3.02
0.33	3.55	1.33	16.15	2.33	4.37	3.33	2.86
0.50	4.18	1.50	10.18	2.50	3.99	3.50	2.71
0.67	5.17	1.67	7.77	2.67	3.68	3.67	2.59
0.83	7.08	1.83	6.40	2.83	3.42	3.83	2.47

| CALIB |
| NASHYD (0015) | Area (ha)= 1.13 Curve Number (CN)= 43.0
| ID= 1 DT= 5.0 min | la (mm)= 13.66 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.30

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	2.78	1.083	13.16	2.083	5.50	3.08	3.20
0.167	2.78	1.167	13.16	2.167	5.50	3.17	3.20
0.250	3.11	1.250	76.28	2.250	4.86	3.25	3.02
0.333	3.11	1.333	76.28	2.333	4.86	3.33	3.02
0.417	3.55	1.417	16.15	2.417	4.37	3.42	2.86
0.500	3.55	1.500	16.15	2.500	4.37	3.50	2.86
0.583	4.18	1.583	10.18	2.583	3.99	3.58	2.71
0.667	4.18	1.667	10.18	2.667	3.99	3.67	2.71
0.750	5.17	1.750	7.77	2.750	3.68	3.75	2.59
0.833	5.17	1.833	7.77	2.833	3.68	3.83	2.59
0.917	7.08	1.917	6.40	2.917	3.42	3.92	2.47
1.000	7.08	2.000	6.40	3.000	3.42	4.00	2.47

Unit Hyd Qpeak (cms)= 0.144

PEAK FLOW (cms)= 0.002 (i)
TIME TO PEAK (hrs)= 1.917
RUNOFF VOLUME (mm)= 1.058
TOTAL RAINFALL (mm)= 33.076
RUNOFF COEFFICIENT = 0.032

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0004) | Area (ha)= 0.66 Curve Number (CN)= 62.0
| ID= 1 DT= 5.0 min | la (mm)= 7.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.19

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----
TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN
hrs mm/hr | hrs mm/hr | hrs mm/hr | hrs mm/hr
0.083 2.78 | 1.083 13.16 | 2.083 5.50 | 3.08 3.20
0.167 2.78 | 1.167 13.16 | 2.167 5.50 | 3.17 3.20
0.250 3.11 | 1.250 76.28 | 2.250 4.86 | 3.25 3.02
0.333 3.11 | 1.333 76.28 | 2.333 4.86 | 3.33 3.02
0.417 3.55 | 1.417 16.15 | 2.417 4.37 | 3.42 2.86
0.500 3.55 | 1.500 16.15 | 2.500 4.37 | 3.50 2.86
0.583 4.18 | 1.583 10.18 | 2.583 3.99 | 3.58 2.71
0.667 4.18 | 1.667 10.18 | 2.667 3.99 | 3.67 2.71
0.750 5.17 | 1.750 7.77 | 2.750 3.68 | 3.75 2.59
0.833 5.17 | 1.833 7.77 | 2.833 3.68 | 3.83 2.59
0.917 7.08 | 1.917 6.40 | 2.917 3.42 | 3.92 2.47
1.000 7.08 | 2.000 6.40 | 3.000 3.42 | 4.00 2.47

Unit Hyd Qpeak (cms)= 0.133

PEAK FLOW (cms)= 0.006 (i)
TIME TO PEAK (hrs)= 1.500
RUNOFF VOLUME (mm)= 3.732
TOTAL RAINFALL (mm)= 33.076
RUNOFF COEFFICIENT = 0.113

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| STANDHYD (0022) | Area (ha)= 2.66
| ID= 1 DT= 5.0 min | Total Imp(%)= 45.08 Dir. Conn.(%)= 31.83

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 1.20 1.46
Dep. Storage (mm)= 2.00 5.00
Average Slope (°)= 1.00 2.00
Length (m)= 67.80 47.60
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----
TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN
hrs mm/hr | hrs mm/hr | hrs mm/hr | hrs mm/hr
0.083 2.78 | 1.083 13.16 | 2.083 5.50 | 3.08 3.20
0.167 2.78 | 1.167 13.16 | 2.167 5.50 | 3.17 3.20
0.250 3.11 | 1.250 76.28 | 2.250 4.86 | 3.25 3.02
0.333 3.11 | 1.333 76.28 | 2.333 4.86 | 3.33 3.02
0.417 3.55 | 1.417 16.15 | 2.417 4.37 | 3.42 2.86
0.500 3.55 | 1.500 16.15 | 2.500 4.37 | 3.50 2.86
0.583 4.18 | 1.583 10.18 | 2.583 3.99 | 3.58 2.71
0.667 4.18 | 1.667 10.18 | 2.667 3.99 | 3.67 2.71
0.750 5.17 | 1.750 7.77 | 2.750 3.68 | 3.75 2.59
0.833 5.17 | 1.833 7.77 | 2.833 3.68 | 3.83 2.59
0.917 7.08 | 1.917 6.40 | 2.917 3.42 | 3.92 2.47
1.000 7.08 | 2.000 6.40 | 3.000 3.42 | 4.00 2.47

Max.Eff.Inten.(mm/hr)= 76.28 4.02
over (min) 5.00 35.00
Storage Coeff. (min)= 2.25 (ii) 30.59 (ii)

Unit Hyd. Tpeak (min)= 5.00 35.00
Unit Hyd. peak (cms)= 0.30 0.04
TOTALS
PEAK FLOW (cms)= 0.18 0.01 0.179 (iii)
TIME TO PEAK (hrs)= 1.33 1.83 1.33
RUNOFF VOLUME (mm)= 31.08 3.49 12.26
TOTAL RAINFALL (mm)= 33.08 33.08 33.08
RUNOFF COEFFICIENT = 0.94 0.11 0.37

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 49.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| ADD HYD (0024)|
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 1 (0022): 2.66 0.179 1.33 12.26
+ ID2= 2 (0004): 0.66 0.006 1.50 3.73
=====

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| RESERVOIR(0023)| OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE
----- (cms) (ha.m.) | (cms) (ha.m.)
0.0000 0.0000 | 0.0470 0.0670
0.0020 0.0120 | 0.0790 0.0820
0.0020 0.0250 | 0.1020 0.0980
0.0030 0.0380 | 0.1200 0.1150
0.0030 0.0520 | 0.0000 0.0000

AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)
INFLOW : ID= 2 (0024) 3.320 0.182 1.33 10.57
OUTFLOW: ID= 1 (0023) 3.320 0.003 4.42 10.11

PEAK FLOW REDUCTION [Qout/Qin](%)= 1.40
TIME SHIFT OF PEAK FLOW (min)=185.00
MAXIMUM STORAGE USED (ha.m.)= 0.0320

| CALIB |
| NASHYD (0027)| Area (ha)= 3.10 Curve Number (CN)= 35.8
| ID= 1 DT= 5.0 min | Ia (mm)= 8.43 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.30

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----
TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN
hrs mm/hr | hrs mm/hr | hrs mm/hr | hrs mm/hr
0.083 2.78 | 1.083 13.16 | 2.083 5.50 | 3.08 3.20
0.167 2.78 | 1.167 13.16 | 2.167 5.50 | 3.17 3.20
0.250 3.11 | 1.250 76.28 | 2.250 4.86 | 3.25 3.02
0.333 3.11 | 1.333 76.28 | 2.333 4.86 | 3.33 3.02
0.417 3.55 | 1.417 16.15 | 2.417 4.37 | 3.42 2.86
0.500 3.55 | 1.500 16.15 | 2.500 4.37 | 3.50 2.86
0.583 4.18 | 1.583 10.18 | 2.583 3.99 | 3.58 2.71
0.667 4.18 | 1.667 10.18 | 2.667 3.99 | 3.67 2.71
0.750 5.17 | 1.750 7.77 | 2.750 3.68 | 3.75 2.59
0.833 5.17 | 1.833 7.77 | 2.833 3.68 | 3.83 2.59

0.917 7.08 | 1.917 6.40 | 2.917 3.42 | 3.92 2.47
1.000 7.08 | 2.000 6.40 | 3.000 3.42 | 4.00 2.47

Unit Hyd Qpeak (cms)= 0.395

PEAK FLOW (cms)= 0.006 (i)
TIME TO PEAK (hrs)= 1.750
RUNOFF VOLUME (mm)= 1.264
TOTAL RAINFALL (mm)= 33.076
RUNOFF COEFFICIENT = 0.038

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0010) | Area (ha)= 0.87 Curve Number (CN)= 32.0
| ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.24

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----
TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN
hrs mm/hr | hrs mm/hr | hrs mm/hr | hrs mm/hr
0.083 2.78 | 1.083 13.16 | 2.083 5.50 | 3.08 3.20
0.167 2.78 | 1.167 13.16 | 2.167 5.50 | 3.17 3.20
0.250 3.11 | 1.250 76.28 | 2.250 4.86 | 3.25 3.02
0.333 3.11 | 1.333 76.28 | 2.333 4.86 | 3.33 3.02
0.417 3.55 | 1.417 16.15 | 2.417 4.37 | 3.42 2.86
0.500 3.55 | 1.500 16.15 | 2.500 4.37 | 3.50 2.86
0.583 4.18 | 1.583 10.18 | 2.583 3.99 | 3.58 2.71
0.667 4.18 | 1.667 10.18 | 2.667 3.99 | 3.67 2.71
0.750 5.17 | 1.750 7.77 | 2.750 3.68 | 3.75 2.59
0.833 5.17 | 1.833 7.77 | 2.833 3.68 | 3.83 2.59
0.917 7.08 | 1.917 6.40 | 2.917 3.42 | 3.92 2.47
1.000 7.08 | 2.000 6.40 | 3.000 3.42 | 4.00 2.47

Unit Hyd Qpeak (cms)= 0.138

PEAK FLOW (cms)= 0.001 (i)
TIME TO PEAK (hrs)= 1.667
RUNOFF VOLUME (mm)= 0.945
TOTAL RAINFALL (mm)= 33.076
RUNOFF COEFFICIENT = 0.029

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0009) | Area (ha)= 1.11 Curve Number (CN)= 62.0
| ID= 1 DT= 5.0 min | Ia (mm)= 7.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.34

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----
TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN
hrs mm/hr | hrs mm/hr | hrs mm/hr | hrs mm/hr
0.083 2.78 | 1.083 13.16 | 2.083 5.50 | 3.08 3.20
0.167 2.78 | 1.167 13.16 | 2.167 5.50 | 3.17 3.20
0.250 3.11 | 1.250 76.28 | 2.250 4.86 | 3.25 3.02
0.333 3.11 | 1.333 76.28 | 2.333 4.86 | 3.33 3.02
0.417 3.55 | 1.417 16.15 | 2.417 4.37 | 3.42 2.86
0.500 3.55 | 1.500 16.15 | 2.500 4.37 | 3.50 2.86
0.583 4.18 | 1.583 10.18 | 2.583 3.99 | 3.58 2.71
0.667 4.18 | 1.667 10.18 | 2.667 3.99 | 3.67 2.71
0.750 5.17 | 1.750 7.77 | 2.750 3.68 | 3.75 2.59
0.833 5.17 | 1.833 7.77 | 2.833 3.68 | 3.83 2.59
0.917 7.08 | 1.917 6.40 | 2.917 3.42 | 3.92 2.47

1.000 7.08 | 2.000 6.40 | 3.000 3.42 | 4.00 2.47

Unit Hyd Qpeak (cms)= 0.125

PEAK FLOW (cms)= 0.007 (i)
TIME TO PEAK (hrs)= 1.750
RUNOFF VOLUME (mm)= 3.740
TOTAL RAINFALL (mm)= 33.076
RUNOFF COEFFICIENT = 0.113

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| ADD HYD (0017)|
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 1 (0010): 0.87 0.001 1.67 0.94
+ ID2= 2 (0027): 3.10 0.006 1.75 1.26
=====

ID = 3 (0017): 3.97 0.008 1.67 1.19

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0017)|
| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 3 (0017): 3.97 0.008 1.67 1.19
+ ID2= 2 (0009): 1.11 0.007 1.75 3.74
=====

ID = 1 (0017): 5.08 0.014 1.75 1.75

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| CALIB |
| NASHYD (0028)| Area (ha)= 14.72 Curve Number (CN)= 32.0
| ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.82

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----
TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN
hrs mm/hr | hrs mm/hr | hrs mm/hr | hrs mm/hr
0.083 2.78 | 1.083 13.16 | 2.083 5.50 | 3.08 3.20
0.167 2.78 | 1.167 13.16 | 2.167 5.50 | 3.17 3.20
0.250 3.11 | 1.250 76.28 | 2.250 4.86 | 3.25 3.02
0.333 3.11 | 1.333 76.28 | 2.333 4.86 | 3.33 3.02
0.417 3.55 | 1.417 16.15 | 2.417 4.37 | 3.42 2.86
0.500 3.55 | 1.500 16.15 | 2.500 4.37 | 3.50 2.86
0.583 4.18 | 1.583 10.18 | 2.583 3.99 | 3.58 2.71
0.667 4.18 | 1.667 10.18 | 2.667 3.99 | 3.67 2.71
0.750 5.17 | 1.750 7.77 | 2.750 3.68 | 3.75 2.59
0.833 5.17 | 1.833 7.77 | 2.833 3.68 | 3.83 2.59
0.917 7.08 | 1.917 6.40 | 2.917 3.42 | 3.92 2.47
1.000 7.08 | 2.000 6.40 | 3.000 3.42 | 4.00 2.47

Unit Hyd Qpeak (cms)= 0.686

PEAK FLOW (cms)= 0.013 (i)
TIME TO PEAK (hrs)= 2.750
RUNOFF VOLUME (mm)= 0.946
TOTAL RAINFALL (mm)= 33.076
RUNOFF COEFFICIENT = 0.029

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0005)| Area (ha)= 9.65 Curve Number (CN)= 32.0
|ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.71

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----
TIME RAIN | TIME RAIN |' TIME RAIN | TIME RAIN
hrs mm/hr | hrs mm/hr |' hrs mm/hr | hrs mm/hr
0.083 2.78 | 1.083 13.16 | 2.083 5.50 | 3.08 3.20
0.167 2.78 | 1.167 13.16 | 2.167 5.50 | 3.17 3.20
0.250 3.11 | 1.250 76.28 | 2.250 4.86 | 3.25 3.02
0.333 3.11 | 1.333 76.28 | 2.333 4.86 | 3.33 3.02
0.417 3.55 | 1.417 16.15 | 2.417 4.37 | 3.42 2.86
0.500 3.55 | 1.500 16.15 | 2.500 4.37 | 3.50 2.86
0.583 4.18 | 1.583 10.18 | 2.583 3.99 | 3.58 2.71
0.667 4.18 | 1.667 10.18 | 2.667 3.99 | 3.67 2.71
0.750 5.17 | 1.750 7.77 | 2.750 3.68 | 3.75 2.59
0.833 5.17 | 1.833 7.77 | 2.833 3.68 | 3.83 2.59
0.917 7.08 | 1.917 6.40 | 2.917 3.42 | 3.92 2.47
1.000 7.08 | 2.000 6.40 | 3.000 3.42 | 4.00 2.47

Unit Hyd Qpeak (cms)= 0.519

PEAK FLOW (cms)= 0.009 (i)
TIME TO PEAK (hrs)= 2.583
RUNOFF VOLUME (mm)= 0.946
TOTAL RAINFALL (mm)= 33.076
RUNOFF COEFFICIENT = 0.029

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0008)| Area (ha)= 0.23 Curve Number (CN)= 32.0
|ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.33

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----
TIME RAIN | TIME RAIN |' TIME RAIN | TIME RAIN
hrs mm/hr | hrs mm/hr |' hrs mm/hr | hrs mm/hr
0.083 2.78 | 1.083 13.16 | 2.083 5.50 | 3.08 3.20
0.167 2.78 | 1.167 13.16 | 2.167 5.50 | 3.17 3.20
0.250 3.11 | 1.250 76.28 | 2.250 4.86 | 3.25 3.02
0.333 3.11 | 1.333 76.28 | 2.333 4.86 | 3.33 3.02
0.417 3.55 | 1.417 16.15 | 2.417 4.37 | 3.42 2.86
0.500 3.55 | 1.500 16.15 | 2.500 4.37 | 3.50 2.86
0.583 4.18 | 1.583 10.18 | 2.583 3.99 | 3.58 2.71
0.667 4.18 | 1.667 10.18 | 2.667 3.99 | 3.67 2.71
0.750 5.17 | 1.750 7.77 | 2.750 3.68 | 3.75 2.59
0.833 5.17 | 1.833 7.77 | 2.833 3.68 | 3.83 2.59
0.917 7.08 | 1.917 6.40 | 2.917 3.42 | 3.92 2.47
1.000 7.08 | 2.000 6.40 | 3.000 3.42 | 4.00 2.47

Unit Hyd Qpeak (cms)= 0.027

PEAK FLOW (cms)= 0.000 (i)
TIME TO PEAK (hrs)= 1.833
RUNOFF VOLUME (mm)= 0.942
TOTAL RAINFALL (mm)= 33.076
RUNOFF COEFFICIENT = 0.028

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0013) | Area (ha)= 12.11 Curve Number (CN)= 48.1
| ID= 1 DT= 5.0 min | Ia (mm)= 11.30 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.55

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----
TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN
hrs mm/hr | hrs mm/hr | hrs mm/hr | hrs mm/hr
0.083 2.78 | 1.083 13.16 | 2.083 5.50 | 3.08 3.20
0.167 2.78 | 1.167 13.16 | 2.167 5.50 | 3.17 3.20
0.250 3.11 | 1.250 76.28 | 2.250 4.86 | 3.25 3.02
0.333 3.11 | 1.333 76.28 | 2.333 4.86 | 3.33 3.02
0.417 3.55 | 1.417 16.15 | 2.417 4.37 | 3.42 2.86
0.500 3.55 | 1.500 16.15 | 2.500 4.37 | 3.50 2.86
0.583 4.18 | 1.583 10.18 | 2.583 3.99 | 3.58 2.71
0.667 4.18 | 1.667 10.18 | 2.667 3.99 | 3.67 2.71
0.750 5.17 | 1.750 7.77 | 2.750 3.68 | 3.75 2.59
0.833 5.17 | 1.833 7.77 | 2.833 3.68 | 3.83 2.59
0.917 7.08 | 1.917 6.40 | 2.917 3.42 | 3.92 2.47
1.000 7.08 | 2.000 6.40 | 3.000 3.42 | 4.00 2.47

Unit Hyd Qpeak (cms)= 0.841

PEAK FLOW (cms)= 0.022 (i)
TIME TO PEAK (hrs)= 2.333
RUNOFF VOLUME (mm)= 1.603
TOTAL RAINFALL (mm)= 33.076
RUNOFF COEFFICIENT = 0.048

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0012) | Area (ha)= 1.60 Curve Number (CN)= 49.7
| ID= 1 DT= 5.0 min | Ia (mm)= 8.23 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.24

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----
TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN
hrs mm/hr | hrs mm/hr | hrs mm/hr | hrs mm/hr
0.083 2.78 | 1.083 13.16 | 2.083 5.50 | 3.08 3.20
0.167 2.78 | 1.167 13.16 | 2.167 5.50 | 3.17 3.20
0.250 3.11 | 1.250 76.28 | 2.250 4.86 | 3.25 3.02
0.333 3.11 | 1.333 76.28 | 2.333 4.86 | 3.33 3.02
0.417 3.55 | 1.417 16.15 | 2.417 4.37 | 3.42 2.86
0.500 3.55 | 1.500 16.15 | 2.500 4.37 | 3.50 2.86
0.583 4.18 | 1.583 10.18 | 2.583 3.99 | 3.58 2.71
0.667 4.18 | 1.667 10.18 | 2.667 3.99 | 3.67 2.71
0.750 5.17 | 1.750 7.77 | 2.750 3.68 | 3.75 2.59
0.833 5.17 | 1.833 7.77 | 2.833 3.68 | 3.83 2.59
0.917 7.08 | 1.917 6.40 | 2.917 3.42 | 3.92 2.47
1.000 7.08 | 2.000 6.40 | 3.000 3.42 | 4.00 2.47

Unit Hyd Qpeak (cms)= 0.255

PEAK FLOW (cms)= 0.006 (i)
TIME TO PEAK (hrs)= 1.583
RUNOFF VOLUME (mm)= 2.187
TOTAL RAINFALL (mm)= 33.076
RUNOFF COEFFICIENT = 0.066

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |

| NASHYD (0007)| Area (ha)= 1.70 Curve Number (CN)= 62.0
|ID= 1 DT= 5.0 min| Ia (mm)= 7.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.43

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	2.78	1.083	13.16	2.083	5.50	3.08	3.20
0.167	2.78	1.167	13.16	2.167	5.50	3.17	3.20
0.250	3.11	1.250	76.28	2.250	4.86	3.25	3.02
0.333	3.11	1.333	76.28	2.333	4.86	3.33	3.02
0.417	3.55	1.417	16.15	2.417	4.37	3.42	2.86
0.500	3.55	1.500	16.15	2.500	4.37	3.50	2.86
0.583	4.18	1.583	10.18	2.583	3.99	3.58	2.71
0.667	4.18	1.667	10.18	2.667	3.99	3.67	2.71
0.750	5.17	1.750	7.77	2.750	3.68	3.75	2.59
0.833	5.17	1.833	7.77	2.833	3.68	3.83	2.59
0.917	7.08	1.917	6.40	2.917	3.42	3.92	2.47
1.000	7.08	2.000	6.40	3.000	3.42	4.00	2.47

Unit Hyd Qpeak (cms)= 0.151

PEAK FLOW (cms)= 0.009 (i)
TIME TO PEAK (hrs)= 1.917
RUNOFF VOLUME (mm)= 3.740
TOTAL RAINFALL (mm)= 33.076
RUNOFF COEFFICIENT = 0.113

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0006)| Area (ha)= 1.82 Curve Number (CN)= 32.0
|ID= 1 DT= 5.0 min| Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.30

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	2.78	1.083	13.16	2.083	5.50	3.08	3.20
0.167	2.78	1.167	13.16	2.167	5.50	3.17	3.20
0.250	3.11	1.250	76.28	2.250	4.86	3.25	3.02
0.333	3.11	1.333	76.28	2.333	4.86	3.33	3.02
0.417	3.55	1.417	16.15	2.417	4.37	3.42	2.86
0.500	3.55	1.500	16.15	2.500	4.37	3.50	2.86
0.583	4.18	1.583	10.18	2.583	3.99	3.58	2.71
0.667	4.18	1.667	10.18	2.667	3.99	3.67	2.71
0.750	5.17	1.750	7.77	2.750	3.68	3.75	2.59
0.833	5.17	1.833	7.77	2.833	3.68	3.83	2.59
0.917	7.08	1.917	6.40	2.917	3.42	3.92	2.47
1.000	7.08	2.000	6.40	3.000	3.42	4.00	2.47

Unit Hyd Qpeak (cms)= 0.232

PEAK FLOW (cms)= 0.003 (i)
TIME TO PEAK (hrs)= 1.750
RUNOFF VOLUME (mm)= 0.945
TOTAL RAINFALL (mm)= 33.076
RUNOFF COEFFICIENT = 0.029

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| STANDHYD (0020)| Area (ha)= 3.73

|ID= 1 DT= 5.0 min | Total Imp(%)= 47.13 Dir. Conn.(%)= 36.26

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 1.76 1.97
Dep. Storage (mm)= 2.00 5.00
Average Slope (%)= 1.00 2.00
Length (m)= 56.00 32.50
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----
TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN
hrs mm/hr | hrs mm/hr | hrs mm/hr | hrs mm/hr
0.083 2.78 | 1.083 13.16 | 2.083 5.50 | 3.08 3.20
0.167 2.78 | 1.167 13.16 | 2.167 5.50 | 3.17 3.20
0.250 3.11 | 1.250 76.28 | 2.250 4.86 | 3.25 3.02
0.333 3.11 | 1.333 76.28 | 2.333 4.86 | 3.33 3.02
0.417 3.55 | 1.417 16.15 | 2.417 4.37 | 3.42 2.86
0.500 3.55 | 1.500 16.15 | 2.500 4.37 | 3.50 2.86
0.583 4.18 | 1.583 10.18 | 2.583 3.99 | 3.58 2.71
0.667 4.18 | 1.667 10.18 | 2.667 3.99 | 3.67 2.71
0.750 5.17 | 1.750 7.77 | 2.750 3.68 | 3.75 2.59
0.833 5.17 | 1.833 7.77 | 2.833 3.68 | 3.83 2.59
0.917 7.08 | 1.917 6.40 | 2.917 3.42 | 3.92 2.47
1.000 7.08 | 2.000 6.40 | 3.000 3.42 | 4.00 2.47

Max.Eff.Inten.(mm/hr)= 76.28 4.14
over (min) 5.00 25.00
Storage Coeff. (min)= 2.01 (ii) 24.28 (ii)
Unit Hyd. Tpeak (min)= 5.00 25.00
Unit Hyd. peak (cms)= 0.31 0.05
TOTALS
PEAK FLOW (cms)= 0.28 0.01 0.288 (iii)
TIME TO PEAK (hrs)= 1.33 1.67 1.33
RUNOFF VOLUME (mm)= 31.08 3.37 13.41
TOTAL RAINFALL (mm)= 33.08 33.08 33.08
RUNOFF COEFFICIENT = 0.94 0.10 0.41

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 49.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0026) | OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE
----- (cms) (ha.m.) | (cms) (ha.m.)
0.0000 0.0000 | 0.0240 0.1740
0.0030 0.0310 | 0.0270 0.1880
0.0050 0.0640 | 0.0310 0.2150
0.0060 0.0990 | 0.0370 0.2560
0.0080 0.1360 | 0.0000 0.0000

AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)
INFLOW: ID= 2 (0020) 3.730 0.288 1.33 13.41
OUTFLOW: ID= 1 (0026) 3.730 0.004 4.17 12.71

PEAK FLOW REDUCTION [Qout/Qin](%)= 1.36
TIME SHIFT OF PEAK FLOW (min)=170.00
MAXIMUM STORAGE USED (ha.m.)= 0.0459

| CALIB |
| STANDHYD (0021) | Area (ha)= 2.16

|ID= 1 DT= 5.0 min | Total Imp(%)= 41.54 Dir. Conn.(%)= 31.77

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 0.90 1.26
Dep. Storage (mm)= 2.00 5.00
Average Slope (%)= 1.20 2.00
Length (m)= 64.00 33.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----
TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN
hrs mm/hr | hrs mm/hr | hrs mm/hr | hrs mm/hr
0.083 2.78 | 1.083 13.16 | 2.083 5.50 | 3.08 3.20
0.167 2.78 | 1.167 13.16 | 2.167 5.50 | 3.17 3.20
0.250 3.11 | 1.250 76.28 | 2.250 4.86 | 3.25 3.02
0.333 3.11 | 1.333 76.28 | 2.333 4.86 | 3.33 3.02
0.417 3.55 | 1.417 16.15 | 2.417 4.37 | 3.42 2.86
0.500 3.55 | 1.500 16.15 | 2.500 4.37 | 3.50 2.86
0.583 4.18 | 1.583 10.18 | 2.583 3.99 | 3.58 2.71
0.667 4.18 | 1.667 10.18 | 2.667 3.99 | 3.67 2.71
0.750 5.17 | 1.750 7.77 | 2.750 3.68 | 3.75 2.59
0.833 5.17 | 1.833 7.77 | 2.833 3.68 | 3.83 2.59
0.917 7.08 | 1.917 6.40 | 2.917 3.42 | 3.92 2.47
1.000 7.08 | 2.000 6.40 | 3.000 3.42 | 4.00 2.47

Max.Eff.Inten.(mm/hr)= 76.28 3.84
over (min) 5.00 30.00
Storage Coeff. (min)= 2.06 (ii) 25.22 (ii)
Unit Hyd. Tpeak (min)= 5.00 30.00
Unit Hyd. peak (cms)= 0.31 0.04
TOTALS
PEAK FLOW (cms)= 0.14 0.01 0.146 (iii)
TIME TO PEAK (hrs)= 1.33 1.75 1.33
RUNOFF VOLUME (mm)= 31.08 3.25 12.08
TOTAL RAINFALL (mm)= 33.08 33.08 33.08
RUNOFF COEFFICIENT = 0.94 0.10 0.37

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 49.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0025) | OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE
----- (cms) (ha.m.) | (cms) (ha.m.)
0.0000 0.0000 | 0.0300 0.0570
0.0010 0.0070 | 0.0340 0.0670
0.0020 0.0140 | 0.0380 0.0780
0.0020 0.0210 | 0.0400 0.0870
0.0020 0.0230 | 0.0410 0.0890
0.0020 0.0300 | 0.0440 0.1010
0.0180 0.0380 | 0.0470 0.1120
0.0240 0.0470 | 0.0000 0.0000

AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)
INFLOW: ID= 2 (0021) 2.160 0.146 1.33 12.08
OUTFLOW: ID= 1 (0025) 2.160 0.002 1.67 11.26

PEAK FLOW REDUCTION [Qout/Qin](%)= 1.37
TIME SHIFT OF PEAK FLOW (min)= 20.00
MAXIMUM STORAGE USED (ha.m.)= 0.0236

| ADD HYD (0019)|
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 1 (0012): 1.60 0.006 1.58 2.19
+ ID2= 2 (0013): 12.11 0.022 2.33 1.60
=====

ID = 3 (0019): 13.71 0.025 2.17 1.67

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 3 (0019): 13.71 0.025 2.17 1.67
+ ID2= 2 (0017): 5.08 0.014 1.75 1.75
=====

ID = 1 (0019): 18.79 0.037 2.00 1.69

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 1 (0019): 18.79 0.037 2.00 1.69
+ ID2= 2 (0023): 3.32 0.003 4.42 10.11
=====

ID = 3 (0019): 22.11 0.039 2.00 2.96

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 3 (0019): 22.11 0.039 2.00 2.96
+ ID2= 2 (0025): 2.16 0.002 1.67 11.26
=====

ID = 1 (0019): 24.27 0.041 2.00 3.69

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 1 (0019): 24.27 0.041 2.00 3.69
+ ID2= 2 (0026): 3.73 0.004 4.17 12.71
=====

ID = 3 (0019): 28.00 0.044 2.00 4.90

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 3 (0019): 28.00 0.044 2.00 4.90
+ ID2= 2 (0028): 14.72 0.013 2.75 0.95
=====

ID = 1 (0019): 42.72 0.055 2.17 3.53

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ADD HYD ( 0019)|
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 1 ( 0019): 42.72 0.055 2.17 3.53
+ ID2= 2 ( 0005): 9.65 0.009 2.58 0.95
=====
ID = 3 ( 0019): 52.37 0.063 2.25 3.06

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ADD HYD ( 0019)|
| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 3 ( 0019): 52.37 0.063 2.25 3.06
+ ID2= 2 ( 0006): 1.82 0.003 1.75 0.95
=====
ID = 1 ( 0019): 54.19 0.065 2.25 2.99

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ADD HYD ( 0019)|
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 1 ( 0019): 54.19 0.065 2.25 2.99
+ ID2= 2 ( 0007): 1.70 0.009 1.92 3.74
=====
ID = 3 ( 0019): 55.89 0.073 2.17 3.01

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ADD HYD ( 0019)|
| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 3 ( 0019): 55.89 0.073 2.17 3.01
+ ID2= 2 ( 0008): 0.23 0.000 1.83 0.94
=====
ID = 1 ( 0019): 56.12 0.074 2.17 3.00

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

=====
V V I SSSSS U U A L (v6.2.2015)
V V I SS U U A A L
V V I SS U U AAAAA L
V V I SS U U A A L
VV I SSSSS UUUUU A A LLLLL

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OOO TTTT TTTT H H Y Y M M OOO TM
O O T T H H Y Y M M M M O O
O O T T H H Y Y M M O O
OOO T T H H Y Y M M OOO

```

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***** DETAILED OUTPUT *****

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.2\VO2\voin.dat
 Output filename: C:\Users\ajoshi\AppData\Local\Civica\XH5\152aa03f-7064-4fdb-bb4c-0cf677e1e463\ac0b87c7-6a3a-45e4-9baa-0e71c1d4b4bc\scena
 Summary filename: C:\Users\ajoshi\AppData\Local\Civica\XH5\152aa03f-7064-4fdb-bb4c-0cf677e1e463\ac0b87c7-6a3a-45e4-9baa-0e71c1d4b4bc\scena

USER:

COMMENTS: _____

** SIMULATION : 25yr 24hr 10min SCS Type II (**

| READ STORM | Filename: C:\Users\ajoshi\AppData
| | ata\Local\Temp\
| | 7bb2ef64-4018-4f05-a7fd-fa3d49c20288\7d889c5e
| Ptotal=106.98 mm | Comments: 25yr 24hr 10min SCS Type II (MTO)

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.00	0.00	6.17	1.93	12.33	15.41	18.50	1.93
0.17	1.18	6.33	1.93	12.50	15.41	18.67	1.93
0.33	1.18	6.50	1.93	12.67	7.92	18.83	1.93
0.50	1.18	6.67	1.93	12.83	7.92	19.00	1.93
0.67	1.18	6.83	1.93	13.00	7.92	19.17	1.93
0.83	1.18	7.00	1.93	13.17	5.78	19.33	1.93
1.00	1.18	7.17	2.35	13.33	5.78	19.50	1.93
1.17	1.18	7.33	2.35	13.50	5.78	19.67	1.93
1.33	1.18	7.50	2.35	13.67	4.49	19.83	1.93
1.50	1.18	7.67	2.35	13.83	4.49	20.00	1.93
1.67	1.18	7.83	2.35	14.00	4.49	20.17	1.28
1.83	1.18	8.00	2.35	14.17	3.21	20.33	1.28
2.00	1.18	8.17	2.78	14.33	3.21	20.50	1.28
2.17	1.39	8.33	2.78	14.50	3.21	20.67	1.28
2.33	1.39	8.50	2.78	14.67	3.21	20.83	1.28
2.50	1.39	8.67	3.00	14.83	3.21	21.00	1.28
2.67	1.39	8.83	3.00	15.00	3.21	21.17	1.28
2.83	1.39	9.00	3.00	15.17	3.21	21.33	1.28
3.00	1.39	9.17	3.42	15.33	3.21	21.50	1.28
3.17	1.39	9.33	3.42	15.50	3.21	21.67	1.28
3.33	1.39	9.50	3.42	15.67	3.21	21.83	1.28
3.50	1.39	9.67	3.85	15.83	3.21	22.00	1.28
3.67	1.39	9.83	3.85	16.00	3.21	22.17	1.28
3.83	1.39	10.00	3.85	16.17	1.93	22.33	1.28
4.00	1.39	10.17	4.92	16.33	1.93	22.50	1.28
4.17	1.71	10.33	4.92	16.50	1.93	22.67	1.28
4.33	1.71	10.50	4.92	16.67	1.93	22.83	1.28
4.50	1.71	10.67	6.63	16.83	1.93	23.00	1.28
4.67	1.71	10.83	6.63	17.00	1.93	23.17	1.28
4.83	1.71	11.00	6.63	17.17	1.93	23.33	1.28
5.00	1.71	11.17	10.27	17.33	1.93	23.50	1.28
5.17	1.71	11.33	10.27	17.50	1.93	23.67	1.28
5.33	1.71	11.50	10.27	17.67	1.93	23.83	1.28
5.50	1.71	11.67	31.67	17.83	1.93	24.00	1.28
5.67	1.71	11.83	81.30	18.00	1.93		
5.83	1.71	12.00	130.94	18.17	1.93		
6.00	1.71	12.17	15.41	18.33	1.93		

| CALIB |
| NASHYD (0015) | Area (ha)= 1.13 Curve Number (CN)= 43.0
| ID= 1 DT= 5.0 min | Ia (mm)= 13.66 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.30

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.71	12.250	15.42	18.33	1.93
0.167	0.00	6.250	1.93	12.333	15.41	18.42	1.93
0.250	1.18	6.333	1.93	12.417	15.41	18.50	1.93
0.333	1.18	6.417	1.93	12.500	15.41	18.58	1.93
0.417	1.18	6.500	1.93	12.583	15.41	18.67	1.93
0.500	1.18	6.583	1.93	12.667	15.41	18.75	1.93
0.583	1.18	6.667	1.93	12.750	7.92	18.83	1.93
0.667	1.18	6.750	1.93	12.833	7.92	18.92	1.93
0.750	1.18	6.833	1.93	12.917	7.92	19.00	1.93
0.833	1.18	6.917	1.93	13.000	7.92	19.08	1.93
0.917	1.18	7.000	1.93	13.083	7.92	19.17	1.93
1.000	1.18	7.083	1.93	13.167	7.92	19.25	1.93
1.083	1.18	7.167	1.93	13.250	5.78	19.33	1.93
1.167	1.18	7.250	2.35	13.333	5.78	19.42	1.93
1.250	1.18	7.333	2.35	13.417	5.78	19.50	1.93
1.333	1.18	7.417	2.35	13.500	5.78	19.58	1.93
1.417	1.18	7.500	2.35	13.583	5.78	19.67	1.93
1.500	1.18	7.583	2.35	13.667	5.78	19.75	1.93
1.583	1.18	7.667	2.35	13.750	4.49	19.83	1.93
1.667	1.18	7.750	2.35	13.833	4.49	19.92	1.93
1.750	1.18	7.833	2.35	13.917	4.49	20.00	1.93
1.833	1.18	7.917	2.35	14.000	4.49	20.08	1.93
1.917	1.18	8.000	2.35	14.083	4.49	20.17	1.93
2.000	1.18	8.083	2.35	14.167	4.49	20.25	1.28
2.083	1.18	8.167	2.35	14.250	3.21	20.33	1.28
2.167	1.18	8.250	2.78	14.333	3.21	20.42	1.28
2.250	1.39	8.333	2.78	14.417	3.21	20.50	1.28
2.333	1.39	8.417	2.78	14.500	3.21	20.58	1.28
2.417	1.39	8.500	2.78	14.583	3.21	20.67	1.28
2.500	1.39	8.583	2.78	14.667	3.21	20.75	1.28
2.583	1.39	8.667	2.78	14.750	3.21	20.83	1.28
2.667	1.39	8.750	3.00	14.833	3.21	20.92	1.28
2.750	1.39	8.833	3.00	14.917	3.21	21.00	1.28
2.833	1.39	8.917	3.00	15.000	3.21	21.08	1.28
2.917	1.39	9.000	3.00	15.083	3.21	21.17	1.28
3.000	1.39	9.083	3.00	15.167	3.21	21.25	1.28
3.083	1.39	9.167	3.00	15.250	3.21	21.33	1.28
3.167	1.39	9.250	3.42	15.333	3.21	21.42	1.28
3.250	1.39	9.333	3.42	15.417	3.21	21.50	1.28
3.333	1.39	9.417	3.42	15.500	3.21	21.58	1.28
3.417	1.39	9.500	3.42	15.583	3.21	21.67	1.28
3.500	1.39	9.583	3.42	15.667	3.21	21.75	1.28
3.583	1.39	9.667	3.42	15.750	3.21	21.83	1.28
3.667	1.39	9.750	3.85	15.833	3.21	21.92	1.28
3.750	1.39	9.833	3.85	15.917	3.21	22.00	1.28
3.833	1.39	9.917	3.85	16.000	3.21	22.08	1.28
3.917	1.39	10.000	3.85	16.083	3.21	22.17	1.28
4.000	1.39	10.083	3.85	16.167	3.21	22.25	1.28
4.083	1.39	10.167	3.85	16.250	1.93	22.33	1.28
4.167	1.39	10.250	4.92	16.333	1.93	22.42	1.28
4.250	1.71	10.333	4.92	16.417	1.93	22.50	1.28
4.333	1.71	10.417	4.92	16.500	1.93	22.58	1.28
4.417	1.71	10.500	4.92	16.583	1.93	22.67	1.28
4.500	1.71	10.583	4.92	16.667	1.93	22.75	1.28
4.583	1.71	10.667	4.92	16.750	1.93	22.83	1.28
4.667	1.71	10.750	6.63	16.833	1.93	22.92	1.28
4.750	1.71	10.833	6.63	16.917	1.93	23.00	1.28
4.833	1.71	10.917	6.63	17.000	1.93	23.08	1.28
4.917	1.71	11.000	6.63	17.083	1.93	23.17	1.28
5.000	1.71	11.083	6.63	17.167	1.93	23.25	1.28
5.083	1.71	11.167	6.63	17.250	1.93	23.33	1.28
5.167	1.71	11.250	10.27	17.333	1.93	23.42	1.28
5.250	1.71	11.333	10.27	17.417	1.93	23.50	1.28
5.333	1.71	11.417	10.27	17.500	1.93	23.58	1.28
5.417	1.71	11.500	10.27	17.583	1.93	23.67	1.28
5.500	1.71	11.583	10.27	17.667	1.93	23.75	1.28
5.583	1.71	11.667	10.27	17.750	1.93	23.83	1.28
5.667	1.71	11.750	31.66	17.833	1.93	23.92	1.28
5.750	1.71	11.833	31.67	17.917	1.93	24.00	1.28
5.833	1.71	11.917	81.30	18.000	1.93	24.08	1.28
5.917	1.71	12.000	81.30	18.083	1.93	24.17	1.28

6.000 1.71 |12.083 130.94 |18.167 1.93 |
6.083 1.71 |12.167 130.94 |18.250 1.93 |

Unit Hyd Qpeak (cms)= 0.144

PEAK FLOW (cms)= 0.041 (i)
TIME TO PEAK (hrs)= 12.333
RUNOFF VOLUME (mm)= 20.243
TOTAL RAINFALL (mm)= 106.980
RUNOFF COEFFICIENT = 0.189

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0004) | Area (ha)= 0.66 Curve Number (CN)= 62.0
| ID= 1 DT= 5.0 min | Ia (mm)= 7.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.19

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.71	12.250	15.42	18.33	1.93
0.167	0.00	6.250	1.93	12.333	15.41	18.42	1.93
0.250	1.18	6.333	1.93	12.417	15.41	18.50	1.93
0.333	1.18	6.417	1.93	12.500	15.41	18.58	1.93
0.417	1.18	6.500	1.93	12.583	15.41	18.67	1.93
0.500	1.18	6.583	1.93	12.667	15.41	18.75	1.93
0.583	1.18	6.667	1.93	12.750	7.92	18.83	1.93
0.667	1.18	6.750	1.93	12.833	7.92	18.92	1.93
0.750	1.18	6.833	1.93	12.917	7.92	19.00	1.93
0.833	1.18	6.917	1.93	13.000	7.92	19.08	1.93
0.917	1.18	7.000	1.93	13.083	7.92	19.17	1.93
1.000	1.18	7.083	1.93	13.167	7.92	19.25	1.93
1.083	1.18	7.167	1.93	13.250	5.78	19.33	1.93
1.167	1.18	7.250	2.35	13.333	5.78	19.42	1.93
1.250	1.18	7.333	2.35	13.417	5.78	19.50	1.93
1.333	1.18	7.417	2.35	13.500	5.78	19.58	1.93
1.417	1.18	7.500	2.35	13.583	5.78	19.67	1.93
1.500	1.18	7.583	2.35	13.667	5.78	19.75	1.93
1.583	1.18	7.667	2.35	13.750	4.49	19.83	1.93
1.667	1.18	7.750	2.35	13.833	4.49	19.92	1.93
1.750	1.18	7.833	2.35	13.917	4.49	20.00	1.93
1.833	1.18	7.917	2.35	14.000	4.49	20.08	1.93
1.917	1.18	8.000	2.35	14.083	4.49	20.17	1.93
2.000	1.18	8.083	2.35	14.167	4.49	20.25	1.28
2.083	1.18	8.167	2.35	14.250	3.21	20.33	1.28
2.167	1.18	8.250	2.78	14.333	3.21	20.42	1.28
2.250	1.39	8.333	2.78	14.417	3.21	20.50	1.28
2.333	1.39	8.417	2.78	14.500	3.21	20.58	1.28
2.417	1.39	8.500	2.78	14.583	3.21	20.67	1.28
2.500	1.39	8.583	2.78	14.667	3.21	20.75	1.28
2.583	1.39	8.667	2.78	14.750	3.21	20.83	1.28
2.667	1.39	8.750	3.00	14.833	3.21	20.92	1.28
2.750	1.39	8.833	3.00	14.917	3.21	21.00	1.28
2.833	1.39	8.917	3.00	15.000	3.21	21.08	1.28
2.917	1.39	9.000	3.00	15.083	3.21	21.17	1.28
3.000	1.39	9.083	3.00	15.167	3.21	21.25	1.28
3.083	1.39	9.167	3.00	15.250	3.21	21.33	1.28
3.167	1.39	9.250	3.42	15.333	3.21	21.42	1.28
3.250	1.39	9.333	3.42	15.417	3.21	21.50	1.28
3.333	1.39	9.417	3.42	15.500	3.21	21.58	1.28
3.417	1.39	9.500	3.42	15.583	3.21	21.67	1.28
3.500	1.39	9.583	3.42	15.667	3.21	21.75	1.28
3.583	1.39	9.667	3.42	15.750	3.21	21.83	1.28
3.667	1.39	9.750	3.85	15.833	3.21	21.92	1.28
3.750	1.39	9.833	3.85	15.917	3.21	22.00	1.28
3.833	1.39	9.917	3.85	16.000	3.21	22.08	1.28
3.917	1.39	10.000	3.85	16.083	3.21	22.17	1.28

4.000	1.39	10.083	3.85	16.167	3.21	22.25	1.28
4.083	1.39	10.167	3.85	16.250	1.93	22.33	1.28
4.167	1.39	10.250	4.92	16.333	1.93	22.42	1.28
4.250	1.71	10.333	4.92	16.417	1.93	22.50	1.28
4.333	1.71	10.417	4.92	16.500	1.93	22.58	1.28
4.417	1.71	10.500	4.92	16.583	1.93	22.67	1.28
4.500	1.71	10.583	4.92	16.667	1.93	22.75	1.28
4.583	1.71	10.667	4.92	16.750	1.93	22.83	1.28
4.667	1.71	10.750	6.63	16.833	1.93	22.92	1.28
4.750	1.71	10.833	6.63	16.917	1.93	23.00	1.28
4.833	1.71	10.917	6.63	17.000	1.93	23.08	1.28
4.917	1.71	11.000	6.63	17.083	1.93	23.17	1.28
5.000	1.71	11.083	6.63	17.167	1.93	23.25	1.28
5.083	1.71	11.167	6.63	17.250	1.93	23.33	1.28
5.167	1.71	11.250	10.27	17.333	1.93	23.42	1.28
5.250	1.71	11.333	10.27	17.417	1.93	23.50	1.28
5.333	1.71	11.417	10.27	17.500	1.93	23.58	1.28
5.417	1.71	11.500	10.27	17.583	1.93	23.67	1.28
5.500	1.71	11.583	10.27	17.667	1.93	23.75	1.28
5.583	1.71	11.667	10.27	17.750	1.93	23.83	1.28
5.667	1.71	11.750	31.66	17.833	1.93	23.92	1.28
5.750	1.71	11.833	31.67	17.917	1.93	24.00	1.28
5.833	1.71	11.917	81.30	18.000	1.93	24.08	1.28
5.917	1.71	12.000	81.30	18.083	1.93	24.17	1.28
6.000	1.71	12.083	130.94	18.167	1.93		
6.083	1.71	12.167	130.94	18.250	1.93		

Unit Hyd Qpeak (cms)= 0.133

PEAK FLOW (cms)= 0.065 (i)
TIME TO PEAK (hrs)= 12.250
RUNOFF VOLUME (mm)= 39.008
TOTAL RAINFALL (mm)= 106.980
RUNOFF COEFFICIENT = 0.365

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| STANDHYD (0022) | Area (ha)= 2.66
| ID= 1 DT= 5.0 min | Total Imp(%)= 45.08 Dir. Conn.(%)= 31.83

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	1.20	1.46
Dep. Storage (mm)=	2.00	5.00
Average Slope (%)=	1.00	2.00
Length (m)=	67.80	47.60
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN		TIME	RAIN		TIME	RAIN		TIME	RAIN
hrs	mm/hr		hrs	mm/hr		hrs	mm/hr		hrs	mm/hr
0.083	0.00		6.167	1.71		12.250	15.42		18.33	1.93
0.167	0.00		6.250	1.93		12.333	15.41		18.42	1.93
0.250	1.18		6.333	1.93		12.417	15.41		18.50	1.93
0.333	1.18		6.417	1.93		12.500	15.41		18.58	1.93
0.417	1.18		6.500	1.93		12.583	15.41		18.67	1.93
0.500	1.18		6.583	1.93		12.667	15.41		18.75	1.93
0.583	1.18		6.667	1.93		12.750	7.92		18.83	1.93
0.667	1.18		6.750	1.93		12.833	7.92		18.92	1.93
0.750	1.18		6.833	1.93		12.917	7.92		19.00	1.93
0.833	1.18		6.917	1.93		13.000	7.92		19.08	1.93
0.917	1.18		7.000	1.93		13.083	7.92		19.17	1.93
1.000	1.18		7.083	1.93		13.167	7.92		19.25	1.93
1.083	1.18		7.167	1.93		13.250	5.78		19.33	1.93
1.167	1.18		7.250	2.35		13.333	5.78		19.42	1.93
1.250	1.18		7.333	2.35		13.417	5.78		19.50	1.93
1.333	1.18		7.417	2.35		13.500	5.78		19.58	1.93
1.417	1.18		7.500	2.35		13.583	5.78		19.67	1.93

1.500	1.18	7.583	2.35	13.667	5.78	19.75	1.93
1.583	1.18	7.667	2.35	13.750	4.49	19.83	1.93
1.667	1.18	7.750	2.35	13.833	4.49	19.92	1.93
1.750	1.18	7.833	2.35	13.917	4.49	20.00	1.93
1.833	1.18	7.917	2.35	14.000	4.49	20.08	1.93
1.917	1.18	8.000	2.35	14.083	4.49	20.17	1.93
2.000	1.18	8.083	2.35	14.167	4.49	20.25	1.28
2.083	1.18	8.167	2.35	14.250	3.21	20.33	1.28
2.167	1.18	8.250	2.78	14.333	3.21	20.42	1.28
2.250	1.39	8.333	2.78	14.417	3.21	20.50	1.28
2.333	1.39	8.417	2.78	14.500	3.21	20.58	1.28
2.417	1.39	8.500	2.78	14.583	3.21	20.67	1.28
2.500	1.39	8.583	2.78	14.667	3.21	20.75	1.28
2.583	1.39	8.667	2.78	14.750	3.21	20.83	1.28
2.667	1.39	8.750	3.00	14.833	3.21	20.92	1.28
2.750	1.39	8.833	3.00	14.917	3.21	21.00	1.28
2.833	1.39	8.917	3.00	15.000	3.21	21.08	1.28
2.917	1.39	9.000	3.00	15.083	3.21	21.17	1.28
3.000	1.39	9.083	3.00	15.167	3.21	21.25	1.28
3.083	1.39	9.167	3.00	15.250	3.21	21.33	1.28
3.167	1.39	9.250	3.42	15.333	3.21	21.42	1.28
3.250	1.39	9.333	3.42	15.417	3.21	21.50	1.28
3.333	1.39	9.417	3.42	15.500	3.21	21.58	1.28
3.417	1.39	9.500	3.42	15.583	3.21	21.67	1.28
3.500	1.39	9.583	3.42	15.667	3.21	21.75	1.28
3.583	1.39	9.667	3.42	15.750	3.21	21.83	1.28
3.667	1.39	9.750	3.85	15.833	3.21	21.92	1.28
3.750	1.39	9.833	3.85	15.917	3.21	22.00	1.28
3.833	1.39	9.917	3.85	16.000	3.21	22.08	1.28
3.917	1.39	10.000	3.85	16.083	3.21	22.17	1.28
4.000	1.39	10.083	3.85	16.167	3.21	22.25	1.28
4.083	1.39	10.167	3.85	16.250	1.93	22.33	1.28
4.167	1.39	10.250	4.92	16.333	1.93	22.42	1.28
4.250	1.71	10.333	4.92	16.417	1.93	22.50	1.28
4.333	1.71	10.417	4.92	16.500	1.93	22.58	1.28
4.417	1.71	10.500	4.92	16.583	1.93	22.67	1.28
4.500	1.71	10.583	4.92	16.667	1.93	22.75	1.28
4.583	1.71	10.667	4.92	16.750	1.93	22.83	1.28
4.667	1.71	10.750	6.63	16.833	1.93	22.92	1.28
4.750	1.71	10.833	6.63	16.917	1.93	23.00	1.28
4.833	1.71	10.917	6.63	17.000	1.93	23.08	1.28
4.917	1.71	11.000	6.63	17.083	1.93	23.17	1.28
5.000	1.71	11.083	6.63	17.167	1.93	23.25	1.28
5.083	1.71	11.167	6.63	17.250	1.93	23.33	1.28
5.167	1.71	11.250	10.27	17.333	1.93	23.42	1.28
5.250	1.71	11.333	10.27	17.417	1.93	23.50	1.28
5.333	1.71	11.417	10.27	17.500	1.93	23.58	1.28
5.417	1.71	11.500	10.27	17.583	1.93	23.67	1.28
5.500	1.71	11.583	10.27	17.667	1.93	23.75	1.28
5.583	1.71	11.667	10.27	17.750	1.93	23.83	1.28
5.667	1.71	11.750	31.66	17.833	1.93	23.92	1.28
5.750	1.71	11.833	31.67	17.917	1.93	24.00	1.28
5.833	1.71	11.917	81.30	18.000	1.93	24.08	1.28
5.917	1.71	12.000	81.30	18.083	1.93	24.17	1.28
6.000	1.71	12.083	130.94	18.167	1.93		
6.083	1.71	12.167	130.94	18.250	1.93		

Max.Eff.Inten.(mm/hr)= 130.94 60.45
over (min) 5.00 15.00

Storage Coeff. (min)= 1.82 (ii) 11.40 (ii)

Unit Hyd. Tpeak (min)= 5.00 15.00

Unit Hyd. peak (cms)= 0.32 0.09

TOTALS

PEAK FLOW (cms)= 0.31 0.15 0.428 (iii)

TIME TO PEAK (hrs)= 12.17 12.25 12.17

RUNOFF VOLUME (mm)= 104.98 33.55 56.28

TOTAL RAINFALL (mm)= 106.98 106.98 106.98

RUNOFF COEFFICIENT = 0.98 0.31 0.53

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 49.0 Ia = Dep. Storage (Above)

- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0024)					
1 + 2 = 3	AREA	QPEAK	TPEAK	R.V.	
-----	(ha)	(cms)	(hrs)	(mm)	
ID1= 1 (0022):	2.66	0.428	12.17	56.28	
+ ID2= 2 (0004):	0.66	0.065	12.25	39.01	
=====					
ID = 3 (0024):	3.32	0.490	12.17	52.85	

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

RESERVOIR(0023) OVERFLOW IS OFF							
IN= 2---> OUT= 1							
DT= 5.0 min OUTFLOW STORAGE OUTFLOW STORAGE							
-----	(cms)	(ha.m.)	(cms)	(ha.m.)			
0.0000	0.0000	0.0470	0.0670				
0.0020	0.0120	0.0790	0.0820				
0.0020	0.0250	0.1020	0.0980				
0.0030	0.0380	0.1200	0.1150				
0.0030	0.0520	0.0000	0.0000				
AREA QPEAK TPEAK R.V.							
(ha) (cms) (hrs) (mm)							
INFLOW : ID= 2 (0024)	3.320	0.490	12.17	52.85			
OUTFLOW: ID= 1 (0023)	3.320	0.089	12.75	52.39			
PEAK FLOW REDUCTION [Qout/Qin](%)= 18.26							
TIME SHIFT OF PEAK FLOW (min)= 35.00							
MAXIMUM STORAGE USED (ha.m.)= 0.0893							

CALIB					
NASHYD (0027) Area (ha)= 3.10 Curve Number (CN)= 35.8					
ID= 1 DT= 5.0 min Ia (mm)= 8.43 # of Linear Res.(N)= 3.00					
-----	U.H. Tp(hrs)= 0.30				

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.71	12.250	15.42	18.33	1.93
0.167	0.00	6.250	1.93	12.333	15.41	18.42	1.93
0.250	1.18	6.333	1.93	12.417	15.41	18.50	1.93
0.333	1.18	6.417	1.93	12.500	15.41	18.58	1.93
0.417	1.18	6.500	1.93	12.583	15.41	18.67	1.93
0.500	1.18	6.583	1.93	12.667	15.41	18.75	1.93
0.583	1.18	6.667	1.93	12.750	7.92	18.83	1.93
0.667	1.18	6.750	1.93	12.833	7.92	18.92	1.93
0.750	1.18	6.833	1.93	12.917	7.92	19.00	1.93
0.833	1.18	6.917	1.93	13.000	7.92	19.08	1.93
0.917	1.18	7.000	1.93	13.083	7.92	19.17	1.93
1.000	1.18	7.083	1.93	13.167	7.92	19.25	1.93
1.083	1.18	7.167	1.93	13.250	5.78	19.33	1.93
1.167	1.18	7.250	2.35	13.333	5.78	19.42	1.93
1.250	1.18	7.333	2.35	13.417	5.78	19.50	1.93
1.333	1.18	7.417	2.35	13.500	5.78	19.58	1.93
1.417	1.18	7.500	2.35	13.583	5.78	19.67	1.93
1.500	1.18	7.583	2.35	13.667	5.78	19.75	1.93
1.583	1.18	7.667	2.35	13.750	4.49	19.83	1.93
1.667	1.18	7.750	2.35	13.833	4.49	19.92	1.93
1.750	1.18	7.833	2.35	13.917	4.49	20.00	1.93
1.833	1.18	7.917	2.35	14.000	4.49	20.08	1.93
1.917	1.18	8.000	2.35	14.083	4.49	20.17	1.93

2.000	1.18	8.083	2.35	14.167	4.49	20.25	1.28
2.083	1.18	8.167	2.35	14.250	3.21	20.33	1.28
2.167	1.18	8.250	2.78	14.333	3.21	20.42	1.28
2.250	1.39	8.333	2.78	14.417	3.21	20.50	1.28
2.333	1.39	8.417	2.78	14.500	3.21	20.58	1.28
2.417	1.39	8.500	2.78	14.583	3.21	20.67	1.28
2.500	1.39	8.583	2.78	14.667	3.21	20.75	1.28
2.583	1.39	8.667	2.78	14.750	3.21	20.83	1.28
2.667	1.39	8.750	3.00	14.833	3.21	20.92	1.28
2.750	1.39	8.833	3.00	14.917	3.21	21.00	1.28
2.833	1.39	8.917	3.00	15.000	3.21	21.08	1.28
2.917	1.39	9.000	3.00	15.083	3.21	21.17	1.28
3.000	1.39	9.083	3.00	15.167	3.21	21.25	1.28
3.083	1.39	9.167	3.00	15.250	3.21	21.33	1.28
3.167	1.39	9.250	3.42	15.333	3.21	21.42	1.28
3.250	1.39	9.333	3.42	15.417	3.21	21.50	1.28
3.333	1.39	9.417	3.42	15.500	3.21	21.58	1.28
3.417	1.39	9.500	3.42	15.583	3.21	21.67	1.28
3.500	1.39	9.583	3.42	15.667	3.21	21.75	1.28
3.583	1.39	9.667	3.42	15.750	3.21	21.83	1.28
3.667	1.39	9.750	3.85	15.833	3.21	21.92	1.28
3.750	1.39	9.833	3.85	15.917	3.21	22.00	1.28
3.833	1.39	9.917	3.85	16.000	3.21	22.08	1.28
3.917	1.39	10.000	3.85	16.083	3.21	22.17	1.28
4.000	1.39	10.083	3.85	16.167	3.21	22.25	1.28
4.083	1.39	10.167	3.85	16.250	1.93	22.33	1.28
4.167	1.39	10.250	4.92	16.333	1.93	22.42	1.28
4.250	1.71	10.333	4.92	16.417	1.93	22.50	1.28
4.333	1.71	10.417	4.92	16.500	1.93	22.58	1.28
4.417	1.71	10.500	4.92	16.583	1.93	22.67	1.28
4.500	1.71	10.583	4.92	16.667	1.93	22.75	1.28
4.583	1.71	10.667	4.92	16.750	1.93	22.83	1.28
4.667	1.71	10.750	6.63	16.833	1.93	22.92	1.28
4.750	1.71	10.833	6.63	16.917	1.93	23.00	1.28
4.833	1.71	10.917	6.63	17.000	1.93	23.08	1.28
4.917	1.71	11.000	6.63	17.083	1.93	23.17	1.28
5.000	1.71	11.083	6.63	17.167	1.93	23.25	1.28
5.083	1.71	11.167	6.63	17.250	1.93	23.33	1.28
5.167	1.71	11.250	10.27	17.333	1.93	23.42	1.28
5.250	1.71	11.333	10.27	17.417	1.93	23.50	1.28
5.333	1.71	11.417	10.27	17.500	1.93	23.58	1.28
5.417	1.71	11.500	10.27	17.583	1.93	23.67	1.28
5.500	1.71	11.583	10.27	17.667	1.93	23.75	1.28
5.583	1.71	11.667	10.27	17.750	1.93	23.83	1.28
5.667	1.71	11.750	31.66	17.833	1.93	23.92	1.28
5.750	1.71	11.833	31.67	17.917	1.93	24.00	1.28
5.833	1.71	11.917	81.30	18.000	1.93	24.08	1.28
5.917	1.71	12.000	81.30	18.083	1.93	24.17	1.28
6.000	1.71	12.083	130.94	18.167	1.93		
6.083	1.71	12.167	130.94	18.250	1.93		

Unit Hyd Qpeak (cms)= 0.395

PEAK FLOW (cms)= 0.097 (i)

TIME TO PEAK (hrs)= 12.333

RUNOFF VOLUME (mm)= 17.522

TOTAL RAINFALL (mm)= 106.980

RUNOFF COEFFICIENT = 0.164

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0010)| Area (ha)= 0.87 Curve Number (CN)= 32.0
| ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.24

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----
TIME RAIN | TIME RAIN |' TIME RAIN | TIME RAIN

hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.71	12.250	15.42	18.33	1.93
0.167	0.00	6.250	1.93	12.333	15.41	18.42	1.93
0.250	1.18	6.333	1.93	12.417	15.41	18.50	1.93
0.333	1.18	6.417	1.93	12.500	15.41	18.58	1.93
0.417	1.18	6.500	1.93	12.583	15.41	18.67	1.93
0.500	1.18	6.583	1.93	12.667	15.41	18.75	1.93
0.583	1.18	6.667	1.93	12.750	7.92	18.83	1.93
0.667	1.18	6.750	1.93	12.833	7.92	18.92	1.93
0.750	1.18	6.833	1.93	12.917	7.92	19.00	1.93
0.833	1.18	6.917	1.93	13.000	7.92	19.08	1.93
0.917	1.18	7.000	1.93	13.083	7.92	19.17	1.93
1.000	1.18	7.083	1.93	13.167	7.92	19.25	1.93
1.083	1.18	7.167	1.93	13.250	5.78	19.33	1.93
1.167	1.18	7.250	2.35	13.333	5.78	19.42	1.93
1.250	1.18	7.333	2.35	13.417	5.78	19.50	1.93
1.333	1.18	7.417	2.35	13.500	5.78	19.58	1.93
1.417	1.18	7.500	2.35	13.583	5.78	19.67	1.93
1.500	1.18	7.583	2.35	13.667	5.78	19.75	1.93
1.583	1.18	7.667	2.35	13.750	4.49	19.83	1.93
1.667	1.18	7.750	2.35	13.833	4.49	19.92	1.93
1.750	1.18	7.833	2.35	13.917	4.49	20.00	1.93
1.833	1.18	7.917	2.35	14.000	4.49	20.08	1.93
1.917	1.18	8.000	2.35	14.083	4.49	20.17	1.93
2.000	1.18	8.083	2.35	14.167	4.49	20.25	1.28
2.083	1.18	8.167	2.35	14.250	3.21	20.33	1.28
2.167	1.18	8.250	2.78	14.333	3.21	20.42	1.28
2.250	1.39	8.333	2.78	14.417	3.21	20.50	1.28
2.333	1.39	8.417	2.78	14.500	3.21	20.58	1.28
2.417	1.39	8.500	2.78	14.583	3.21	20.67	1.28
2.500	1.39	8.583	2.78	14.667	3.21	20.75	1.28
2.583	1.39	8.667	2.78	14.750	3.21	20.83	1.28
2.667	1.39	8.750	3.00	14.833	3.21	20.92	1.28
2.750	1.39	8.833	3.00	14.917	3.21	21.00	1.28
2.833	1.39	8.917	3.00	15.000	3.21	21.08	1.28
2.917	1.39	9.000	3.00	15.083	3.21	21.17	1.28
3.000	1.39	9.083	3.00	15.167	3.21	21.25	1.28
3.083	1.39	9.167	3.00	15.250	3.21	21.33	1.28
3.167	1.39	9.250	3.42	15.333	3.21	21.42	1.28
3.250	1.39	9.333	3.42	15.417	3.21	21.50	1.28
3.333	1.39	9.417	3.42	15.500	3.21	21.58	1.28
3.417	1.39	9.500	3.42	15.583	3.21	21.67	1.28
3.500	1.39	9.583	3.42	15.667	3.21	21.75	1.28
3.583	1.39	9.667	3.42	15.750	3.21	21.83	1.28
3.667	1.39	9.750	3.85	15.833	3.21	21.92	1.28
3.750	1.39	9.833	3.85	15.917	3.21	22.00	1.28
3.833	1.39	9.917	3.85	16.000	3.21	22.08	1.28
3.917	1.39	10.000	3.85	16.083	3.21	22.17	1.28
4.000	1.39	10.083	3.85	16.167	3.21	22.25	1.28
4.083	1.39	10.167	3.85	16.250	1.93	22.33	1.28
4.167	1.39	10.250	4.92	16.333	1.93	22.42	1.28
4.250	1.71	10.333	4.92	16.417	1.93	22.50	1.28
4.333	1.71	10.417	4.92	16.500	1.93	22.58	1.28
4.417	1.71	10.500	4.92	16.583	1.93	22.67	1.28
4.500	1.71	10.583	4.92	16.667	1.93	22.75	1.28
4.583	1.71	10.667	4.92	16.750	1.93	22.83	1.28
4.667	1.71	10.750	6.63	16.833	1.93	22.92	1.28
4.750	1.71	10.833	6.63	16.917	1.93	23.00	1.28
4.833	1.71	10.917	6.63	17.000	1.93	23.08	1.28
4.917	1.71	11.000	6.63	17.083	1.93	23.17	1.28
5.000	1.71	11.083	6.63	17.167	1.93	23.25	1.28
5.083	1.71	11.167	6.63	17.250	1.93	23.33	1.28
5.167	1.71	11.250	10.27	17.333	1.93	23.42	1.28
5.250	1.71	11.333	10.27	17.417	1.93	23.50	1.28
5.333	1.71	11.417	10.27	17.500	1.93	23.58	1.28
5.417	1.71	11.500	10.27	17.583	1.93	23.67	1.28
5.500	1.71	11.583	10.27	17.667	1.93	23.75	1.28
5.583	1.71	11.667	10.27	17.750	1.93	23.83	1.28
5.667	1.71	11.750	31.66	17.833	1.93	23.92	1.28
5.750	1.71	11.833	31.67	17.917	1.93	24.00	1.28
5.833	1.71	11.917	81.30	18.000	1.93	24.08	1.28
5.917	1.71	12.000	81.30	18.083	1.93	24.17	1.28
6.000	1.71	12.083	130.94	18.167	1.93		

6.083 1.71 |12.167 130.94 |18.250 1.93 |

Unit Hyd Qpeak (cms)= 0.138

PEAK FLOW (cms)= 0.026 (i)
TIME TO PEAK (hrs)= 12.250
RUNOFF VOLUME (mm)= 14.757
TOTAL RAINFALL (mm)= 106.980
RUNOFF COEFFICIENT = 0.138

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0009) | Area (ha)= 1.11 Curve Number (CN)= 62.0
| ID= 1 DT= 5.0 min | la (mm)= 7.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.34

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.71	12.250	15.42	18.33	1.93
0.167	0.00	6.250	1.93	12.333	15.41	18.42	1.93
0.250	1.18	6.333	1.93	12.417	15.41	18.50	1.93
0.333	1.18	6.417	1.93	12.500	15.41	18.58	1.93
0.417	1.18	6.500	1.93	12.583	15.41	18.67	1.93
0.500	1.18	6.583	1.93	12.667	15.41	18.75	1.93
0.583	1.18	6.667	1.93	12.750	7.92	18.83	1.93
0.667	1.18	6.750	1.93	12.833	7.92	18.92	1.93
0.750	1.18	6.833	1.93	12.917	7.92	19.00	1.93
0.833	1.18	6.917	1.93	13.000	7.92	19.08	1.93
0.917	1.18	7.000	1.93	13.083	7.92	19.17	1.93
1.000	1.18	7.083	1.93	13.167	7.92	19.25	1.93
1.083	1.18	7.167	1.93	13.250	5.78	19.33	1.93
1.167	1.18	7.250	2.35	13.333	5.78	19.42	1.93
1.250	1.18	7.333	2.35	13.417	5.78	19.50	1.93
1.333	1.18	7.417	2.35	13.500	5.78	19.58	1.93
1.417	1.18	7.500	2.35	13.583	5.78	19.67	1.93
1.500	1.18	7.583	2.35	13.667	5.78	19.75	1.93
1.583	1.18	7.667	2.35	13.750	4.49	19.83	1.93
1.667	1.18	7.750	2.35	13.833	4.49	19.92	1.93
1.750	1.18	7.833	2.35	13.917	4.49	20.00	1.93
1.833	1.18	7.917	2.35	14.000	4.49	20.08	1.93
1.917	1.18	8.000	2.35	14.083	4.49	20.17	1.93
2.000	1.18	8.083	2.35	14.167	4.49	20.25	1.28
2.083	1.18	8.167	2.35	14.250	3.21	20.33	1.28
2.167	1.18	8.250	2.78	14.333	3.21	20.42	1.28
2.250	1.39	8.333	2.78	14.417	3.21	20.50	1.28
2.333	1.39	8.417	2.78	14.500	3.21	20.58	1.28
2.417	1.39	8.500	2.78	14.583	3.21	20.67	1.28
2.500	1.39	8.583	2.78	14.667	3.21	20.75	1.28
2.583	1.39	8.667	2.78	14.750	3.21	20.83	1.28
2.667	1.39	8.750	3.00	14.833	3.21	20.92	1.28
2.750	1.39	8.833	3.00	14.917	3.21	21.00	1.28
2.833	1.39	8.917	3.00	15.000	3.21	21.08	1.28
2.917	1.39	9.000	3.00	15.083	3.21	21.17	1.28
3.000	1.39	9.083	3.00	15.167	3.21	21.25	1.28
3.083	1.39	9.167	3.00	15.250	3.21	21.33	1.28
3.167	1.39	9.250	3.42	15.333	3.21	21.42	1.28
3.250	1.39	9.333	3.42	15.417	3.21	21.50	1.28
3.333	1.39	9.417	3.42	15.500	3.21	21.58	1.28
3.417	1.39	9.500	3.42	15.583	3.21	21.67	1.28
3.500	1.39	9.583	3.42	15.667	3.21	21.75	1.28
3.583	1.39	9.667	3.42	15.750	3.21	21.83	1.28
3.667	1.39	9.750	3.85	15.833	3.21	21.92	1.28
3.750	1.39	9.833	3.85	15.917	3.21	22.00	1.28
3.833	1.39	9.917	3.85	16.000	3.21	22.08	1.28
3.917	1.39	10.000	3.85	16.083	3.21	22.17	1.28
4.000	1.39	10.083	3.85	16.167	3.21	22.25	1.28

4.083	1.39	10.167	3.85	16.250	1.93	22.33	1.28
4.167	1.39	10.250	4.92	16.333	1.93	22.42	1.28
4.250	1.71	10.333	4.92	16.417	1.93	22.50	1.28
4.333	1.71	10.417	4.92	16.500	1.93	22.58	1.28
4.417	1.71	10.500	4.92	16.583	1.93	22.67	1.28
4.500	1.71	10.583	4.92	16.667	1.93	22.75	1.28
4.583	1.71	10.667	4.92	16.750	1.93	22.83	1.28
4.667	1.71	10.750	6.63	16.833	1.93	22.92	1.28
4.750	1.71	10.833	6.63	16.917	1.93	23.00	1.28
4.833	1.71	10.917	6.63	17.000	1.93	23.08	1.28
4.917	1.71	11.000	6.63	17.083	1.93	23.17	1.28
5.000	1.71	11.083	6.63	17.167	1.93	23.25	1.28
5.083	1.71	11.167	6.63	17.250	1.93	23.33	1.28
5.167	1.71	11.250	10.27	17.333	1.93	23.42	1.28
5.250	1.71	11.333	10.27	17.417	1.93	23.50	1.28
5.333	1.71	11.417	10.27	17.500	1.93	23.58	1.28
5.417	1.71	11.500	10.27	17.583	1.93	23.67	1.28
5.500	1.71	11.583	10.27	17.667	1.93	23.75	1.28
5.583	1.71	11.667	10.27	17.750	1.93	23.83	1.28
5.667	1.71	11.750	31.66	17.833	1.93	23.92	1.28
5.750	1.71	11.833	31.67	17.917	1.93	24.00	1.28
5.833	1.71	11.917	81.30	18.000	1.93	24.08	1.28
5.917	1.71	12.000	81.30	18.083	1.93	24.17	1.28
6.000	1.71	12.083	130.94	18.167	1.93		
6.083	1.71	12.167	130.94	18.250	1.93		

Unit Hyd Qpeak (cms)= 0.125

PEAK FLOW (cms)= 0.074 (i)
TIME TO PEAK (hrs)= 12.333
RUNOFF VOLUME (mm)= 39.089
TOTAL RAINFALL (mm)= 106.980
RUNOFF COEFFICIENT = 0.365

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| ADD HYD ( 0017)|
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
|----- (ha) (cms) (hrs) (mm)
ID1= 1 ( 0010): 0.87 0.026 12.25 14.76
+ ID2= 2 ( 0027): 3.10 0.097 12.33 17.52
=====
ID = 3 ( 0017): 3.97 0.123 12.33 16.92

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NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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| ADD HYD ( 0017)|
| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
|----- (ha) (cms) (hrs) (mm)
ID1= 3 ( 0017): 3.97 0.123 12.33 16.92
+ ID2= 2 ( 0009): 1.11 0.074 12.33 39.09
=====
ID = 1 ( 0017): 5.08 0.197 12.33 21.76

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NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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| CALIB |
| NASHYD ( 0028)| Area (ha)= 14.72 Curve Number (CN)= 32.0
| ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
|----- U.H. Tp(hrs)= 0.82

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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---- TRANSFORMED HYETOGRAPH ----
TIME RAIN| TIME RAIN|' TIME RAIN| TIME RAIN
hrs mm/hr| hrs mm/hr|' hrs mm/hr| hrs mm/hr

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0.083	0.00	6.167	1.71	12.250	15.42	18.33	1.93
0.167	0.00	6.250	1.93	12.333	15.41	18.42	1.93
0.250	1.18	6.333	1.93	12.417	15.41	18.50	1.93
0.333	1.18	6.417	1.93	12.500	15.41	18.58	1.93
0.417	1.18	6.500	1.93	12.583	15.41	18.67	1.93
0.500	1.18	6.583	1.93	12.667	15.41	18.75	1.93
0.583	1.18	6.667	1.93	12.750	7.92	18.83	1.93
0.667	1.18	6.750	1.93	12.833	7.92	18.92	1.93
0.750	1.18	6.833	1.93	12.917	7.92	19.00	1.93
0.833	1.18	6.917	1.93	13.000	7.92	19.08	1.93
0.917	1.18	7.000	1.93	13.083	7.92	19.17	1.93
1.000	1.18	7.083	1.93	13.167	7.92	19.25	1.93
1.083	1.18	7.167	1.93	13.250	5.78	19.33	1.93
1.167	1.18	7.250	2.35	13.333	5.78	19.42	1.93
1.250	1.18	7.333	2.35	13.417	5.78	19.50	1.93
1.333	1.18	7.417	2.35	13.500	5.78	19.58	1.93
1.417	1.18	7.500	2.35	13.583	5.78	19.67	1.93
1.500	1.18	7.583	2.35	13.667	5.78	19.75	1.93
1.583	1.18	7.667	2.35	13.750	4.49	19.83	1.93
1.667	1.18	7.750	2.35	13.833	4.49	19.92	1.93
1.750	1.18	7.833	2.35	13.917	4.49	20.00	1.93
1.833	1.18	7.917	2.35	14.000	4.49	20.08	1.93
1.917	1.18	8.000	2.35	14.083	4.49	20.17	1.93
2.000	1.18	8.083	2.35	14.167	4.49	20.25	1.28
2.083	1.18	8.167	2.35	14.250	3.21	20.33	1.28
2.167	1.18	8.250	2.78	14.333	3.21	20.42	1.28
2.250	1.39	8.333	2.78	14.417	3.21	20.50	1.28
2.333	1.39	8.417	2.78	14.500	3.21	20.58	1.28
2.417	1.39	8.500	2.78	14.583	3.21	20.67	1.28
2.500	1.39	8.583	2.78	14.667	3.21	20.75	1.28
2.583	1.39	8.667	2.78	14.750	3.21	20.83	1.28
2.667	1.39	8.750	3.00	14.833	3.21	20.92	1.28
2.750	1.39	8.833	3.00	14.917	3.21	21.00	1.28
2.833	1.39	8.917	3.00	15.000	3.21	21.08	1.28
2.917	1.39	9.000	3.00	15.083	3.21	21.17	1.28
3.000	1.39	9.083	3.00	15.167	3.21	21.25	1.28
3.083	1.39	9.167	3.00	15.250	3.21	21.33	1.28
3.167	1.39	9.250	3.42	15.333	3.21	21.42	1.28
3.250	1.39	9.333	3.42	15.417	3.21	21.50	1.28
3.333	1.39	9.417	3.42	15.500	3.21	21.58	1.28
3.417	1.39	9.500	3.42	15.583	3.21	21.67	1.28
3.500	1.39	9.583	3.42	15.667	3.21	21.75	1.28
3.583	1.39	9.667	3.42	15.750	3.21	21.83	1.28
3.667	1.39	9.750	3.85	15.833	3.21	21.92	1.28
3.750	1.39	9.833	3.85	15.917	3.21	22.00	1.28
3.833	1.39	9.917	3.85	16.000	3.21	22.08	1.28
3.917	1.39	10.000	3.85	16.083	3.21	22.17	1.28
4.000	1.39	10.083	3.85	16.167	3.21	22.25	1.28
4.083	1.39	10.167	3.85	16.250	1.93	22.33	1.28
4.167	1.39	10.250	4.92	16.333	1.93	22.42	1.28
4.250	1.71	10.333	4.92	16.417	1.93	22.50	1.28
4.333	1.71	10.417	4.92	16.500	1.93	22.58	1.28
4.417	1.71	10.500	4.92	16.583	1.93	22.67	1.28
4.500	1.71	10.583	4.92	16.667	1.93	22.75	1.28
4.583	1.71	10.667	4.92	16.750	1.93	22.83	1.28
4.667	1.71	10.750	6.63	16.833	1.93	22.92	1.28
4.750	1.71	10.833	6.63	16.917	1.93	23.00	1.28
4.833	1.71	10.917	6.63	17.000	1.93	23.08	1.28
4.917	1.71	11.000	6.63	17.083	1.93	23.17	1.28
5.000	1.71	11.083	6.63	17.167	1.93	23.25	1.28
5.083	1.71	11.167	6.63	17.250	1.93	23.33	1.28
5.167	1.71	11.250	10.27	17.333	1.93	23.42	1.28
5.250	1.71	11.333	10.27	17.417	1.93	23.50	1.28
5.333	1.71	11.417	10.27	17.500	1.93	23.58	1.28
5.417	1.71	11.500	10.27	17.583	1.93	23.67	1.28
5.500	1.71	11.583	10.27	17.667	1.93	23.75	1.28
5.583	1.71	11.667	10.27	17.750	1.93	23.83	1.28
5.667	1.71	11.750	31.66	17.833	1.93	23.92	1.28
5.750	1.71	11.833	31.67	17.917	1.93	24.00	1.28
5.833	1.71	11.917	81.30	18.000	1.93	24.08	1.28
5.917	1.71	12.000	81.30	18.083	1.93	24.17	1.28
6.000	1.71	12.083	130.94	18.167	1.93		
6.083	1.71	12.167	130.94	18.250	1.93		

Unit Hyd Qpeak (cms)= 0.686

PEAK FLOW (cms)= 0.187 (i)
TIME TO PEAK (hrs)= 13.000
RUNOFF VOLUME (mm)= 14.771
TOTAL RAINFALL (mm)= 106.980
RUNOFF COEFFICIENT = 0.138

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0005) | Area (ha)= 9.65 Curve Number (CN)= 32.0
| ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.71

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.71	12.250	15.42	18.33	1.93
0.167	0.00	6.250	1.93	12.333	15.41	18.42	1.93
0.250	1.18	6.333	1.93	12.417	15.41	18.50	1.93
0.333	1.18	6.417	1.93	12.500	15.41	18.58	1.93
0.417	1.18	6.500	1.93	12.583	15.41	18.67	1.93
0.500	1.18	6.583	1.93	12.667	15.41	18.75	1.93
0.583	1.18	6.667	1.93	12.750	7.92	18.83	1.93
0.667	1.18	6.750	1.93	12.833	7.92	18.92	1.93
0.750	1.18	6.833	1.93	12.917	7.92	19.00	1.93
0.833	1.18	6.917	1.93	13.000	7.92	19.08	1.93
0.917	1.18	7.000	1.93	13.083	7.92	19.17	1.93
1.000	1.18	7.083	1.93	13.167	7.92	19.25	1.93
1.083	1.18	7.167	1.93	13.250	5.78	19.33	1.93
1.167	1.18	7.250	2.35	13.333	5.78	19.42	1.93
1.250	1.18	7.333	2.35	13.417	5.78	19.50	1.93
1.333	1.18	7.417	2.35	13.500	5.78	19.58	1.93
1.417	1.18	7.500	2.35	13.583	5.78	19.67	1.93
1.500	1.18	7.583	2.35	13.667	5.78	19.75	1.93
1.583	1.18	7.667	2.35	13.750	4.49	19.83	1.93
1.667	1.18	7.750	2.35	13.833	4.49	19.92	1.93
1.750	1.18	7.833	2.35	13.917	4.49	20.00	1.93
1.833	1.18	7.917	2.35	14.000	4.49	20.08	1.93
1.917	1.18	8.000	2.35	14.083	4.49	20.17	1.93
2.000	1.18	8.083	2.35	14.167	4.49	20.25	1.28
2.083	1.18	8.167	2.35	14.250	3.21	20.33	1.28
2.167	1.18	8.250	2.78	14.333	3.21	20.42	1.28
2.250	1.39	8.333	2.78	14.417	3.21	20.50	1.28
2.333	1.39	8.417	2.78	14.500	3.21	20.58	1.28
2.417	1.39	8.500	2.78	14.583	3.21	20.67	1.28
2.500	1.39	8.583	2.78	14.667	3.21	20.75	1.28
2.583	1.39	8.667	2.78	14.750	3.21	20.83	1.28
2.667	1.39	8.750	3.00	14.833	3.21	20.92	1.28
2.750	1.39	8.833	3.00	14.917	3.21	21.00	1.28
2.833	1.39	8.917	3.00	15.000	3.21	21.08	1.28
2.917	1.39	9.000	3.00	15.083	3.21	21.17	1.28
3.000	1.39	9.083	3.00	15.167	3.21	21.25	1.28
3.083	1.39	9.167	3.00	15.250	3.21	21.33	1.28
3.167	1.39	9.250	3.42	15.333	3.21	21.42	1.28
3.250	1.39	9.333	3.42	15.417	3.21	21.50	1.28
3.333	1.39	9.417	3.42	15.500	3.21	21.58	1.28
3.417	1.39	9.500	3.42	15.583	3.21	21.67	1.28
3.500	1.39	9.583	3.42	15.667	3.21	21.75	1.28
3.583	1.39	9.667	3.42	15.750	3.21	21.83	1.28
3.667	1.39	9.750	3.85	15.833	3.21	21.92	1.28
3.750	1.39	9.833	3.85	15.917	3.21	22.00	1.28
3.833	1.39	9.917	3.85	16.000	3.21	22.08	1.28
3.917	1.39	10.000	3.85	16.083	3.21	22.17	1.28
4.000	1.39	10.083	3.85	16.167	3.21	22.25	1.28
4.083	1.39	10.167	3.85	16.250	1.93	22.33	1.28

4.167	1.39	10.250	4.92	16.333	1.93	22.42	1.28
4.250	1.71	10.333	4.92	16.417	1.93	22.50	1.28
4.333	1.71	10.417	4.92	16.500	1.93	22.58	1.28
4.417	1.71	10.500	4.92	16.583	1.93	22.67	1.28
4.500	1.71	10.583	4.92	16.667	1.93	22.75	1.28
4.583	1.71	10.667	4.92	16.750	1.93	22.83	1.28
4.667	1.71	10.750	6.63	16.833	1.93	22.92	1.28
4.750	1.71	10.833	6.63	16.917	1.93	23.00	1.28
4.833	1.71	10.917	6.63	17.000	1.93	23.08	1.28
4.917	1.71	11.000	6.63	17.083	1.93	23.17	1.28
5.000	1.71	11.083	6.63	17.167	1.93	23.25	1.28
5.083	1.71	11.167	6.63	17.250	1.93	23.33	1.28
5.167	1.71	11.250	10.27	17.333	1.93	23.42	1.28
5.250	1.71	11.333	10.27	17.417	1.93	23.50	1.28
5.333	1.71	11.417	10.27	17.500	1.93	23.58	1.28
5.417	1.71	11.500	10.27	17.583	1.93	23.67	1.28
5.500	1.71	11.583	10.27	17.667	1.93	23.75	1.28
5.583	1.71	11.667	10.27	17.750	1.93	23.83	1.28
5.667	1.71	11.750	31.66	17.833	1.93	23.92	1.28
5.750	1.71	11.833	31.67	17.917	1.93	24.00	1.28
5.833	1.71	11.917	81.30	18.000	1.93	24.08	1.28
5.917	1.71	12.000	81.30	18.083	1.93	24.17	1.28
6.000	1.71	12.083	130.94	18.167	1.93		
6.083	1.71	12.167	130.94	18.250	1.93		

Unit Hyd Qpeak (cms)= 0.519

PEAK FLOW (cms)= 0.136 (i)
TIME TO PEAK (hrs)= 12.833
RUNOFF VOLUME (mm)= 14.771
TOTAL RAINFALL (mm)= 106.980
RUNOFF COEFFICIENT = 0.138

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0008)| Area (ha)= 0.23 Curve Number (CN)= 32.0
| ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.33

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.71	12.250	15.42	18.33	1.93
0.167	0.00	6.250	1.93	12.333	15.41	18.42	1.93
0.250	1.18	6.333	1.93	12.417	15.41	18.50	1.93
0.333	1.18	6.417	1.93	12.500	15.41	18.58	1.93
0.417	1.18	6.500	1.93	12.583	15.41	18.67	1.93
0.500	1.18	6.583	1.93	12.667	15.41	18.75	1.93
0.583	1.18	6.667	1.93	12.750	7.92	18.83	1.93
0.667	1.18	6.750	1.93	12.833	7.92	18.92	1.93
0.750	1.18	6.833	1.93	12.917	7.92	19.00	1.93
0.833	1.18	6.917	1.93	13.000	7.92	19.08	1.93
0.917	1.18	7.000	1.93	13.083	7.92	19.17	1.93
1.000	1.18	7.083	1.93	13.167	7.92	19.25	1.93
1.083	1.18	7.167	1.93	13.250	5.78	19.33	1.93
1.167	1.18	7.250	2.35	13.333	5.78	19.42	1.93
1.250	1.18	7.333	2.35	13.417	5.78	19.50	1.93
1.333	1.18	7.417	2.35	13.500	5.78	19.58	1.93
1.417	1.18	7.500	2.35	13.583	5.78	19.67	1.93
1.500	1.18	7.583	2.35	13.667	5.78	19.75	1.93
1.583	1.18	7.667	2.35	13.750	4.49	19.83	1.93
1.667	1.18	7.750	2.35	13.833	4.49	19.92	1.93
1.750	1.18	7.833	2.35	13.917	4.49	20.00	1.93
1.833	1.18	7.917	2.35	14.000	4.49	20.08	1.93
1.917	1.18	8.000	2.35	14.083	4.49	20.17	1.93
2.000	1.18	8.083	2.35	14.167	4.49	20.25	1.28
2.083	1.18	8.167	2.35	14.250	3.21	20.33	1.28

2.167	1.18	8.250	2.78	14.333	3.21	20.42	1.28
2.250	1.39	8.333	2.78	14.417	3.21	20.50	1.28
2.333	1.39	8.417	2.78	14.500	3.21	20.58	1.28
2.417	1.39	8.500	2.78	14.583	3.21	20.67	1.28
2.500	1.39	8.583	2.78	14.667	3.21	20.75	1.28
2.583	1.39	8.667	2.78	14.750	3.21	20.83	1.28
2.667	1.39	8.750	3.00	14.833	3.21	20.92	1.28
2.750	1.39	8.833	3.00	14.917	3.21	21.00	1.28
2.833	1.39	8.917	3.00	15.000	3.21	21.08	1.28
2.917	1.39	9.000	3.00	15.083	3.21	21.17	1.28
3.000	1.39	9.083	3.00	15.167	3.21	21.25	1.28
3.083	1.39	9.167	3.00	15.250	3.21	21.33	1.28
3.167	1.39	9.250	3.42	15.333	3.21	21.42	1.28
3.250	1.39	9.333	3.42	15.417	3.21	21.50	1.28
3.333	1.39	9.417	3.42	15.500	3.21	21.58	1.28
3.417	1.39	9.500	3.42	15.583	3.21	21.67	1.28
3.500	1.39	9.583	3.42	15.667	3.21	21.75	1.28
3.583	1.39	9.667	3.42	15.750	3.21	21.83	1.28
3.667	1.39	9.750	3.85	15.833	3.21	21.92	1.28
3.750	1.39	9.833	3.85	15.917	3.21	22.00	1.28
3.833	1.39	9.917	3.85	16.000	3.21	22.08	1.28
3.917	1.39	10.000	3.85	16.083	3.21	22.17	1.28
4.000	1.39	10.083	3.85	16.167	3.21	22.25	1.28
4.083	1.39	10.167	3.85	16.250	1.93	22.33	1.28
4.167	1.39	10.250	4.92	16.333	1.93	22.42	1.28
4.250	1.71	10.333	4.92	16.417	1.93	22.50	1.28
4.333	1.71	10.417	4.92	16.500	1.93	22.58	1.28
4.417	1.71	10.500	4.92	16.583	1.93	22.67	1.28
4.500	1.71	10.583	4.92	16.667	1.93	22.75	1.28
4.583	1.71	10.667	4.92	16.750	1.93	22.83	1.28
4.667	1.71	10.750	6.63	16.833	1.93	22.92	1.28
4.750	1.71	10.833	6.63	16.917	1.93	23.00	1.28
4.833	1.71	10.917	6.63	17.000	1.93	23.08	1.28
4.917	1.71	11.000	6.63	17.083	1.93	23.17	1.28
5.000	1.71	11.083	6.63	17.167	1.93	23.25	1.28
5.083	1.71	11.167	6.63	17.250	1.93	23.33	1.28
5.167	1.71	11.250	10.27	17.333	1.93	23.42	1.28
5.250	1.71	11.333	10.27	17.417	1.93	23.50	1.28
5.333	1.71	11.417	10.27	17.500	1.93	23.58	1.28
5.417	1.71	11.500	10.27	17.583	1.93	23.67	1.28
5.500	1.71	11.583	10.27	17.667	1.93	23.75	1.28
5.583	1.71	11.667	10.27	17.750	1.93	23.83	1.28
5.667	1.71	11.750	31.66	17.833	1.93	23.92	1.28
5.750	1.71	11.833	31.67	17.917	1.93	24.00	1.28
5.833	1.71	11.917	81.30	18.000	1.93	24.08	1.28
5.917	1.71	12.000	81.30	18.083	1.93	24.17	1.28
6.000	1.71	12.083	130.94	18.167	1.93		
6.083	1.71	12.167	130.94	18.250	1.93		

Unit Hyd Qpeak (cms)= 0.027

PEAK FLOW (cms)= 0.006 (i)

TIME TO PEAK (hrs)= 12.417

RUNOFF VOLUME (mm)= 14.764

TOTAL RAINFALL (mm)= 106.980

RUNOFF COEFFICIENT = 0.138

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0013) | Area (ha)= 12.11 Curve Number (CN)= 48.1
 | ID= 1 DT= 5.0 min | Ia (mm)= 11.30 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.55

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.71	12.250	15.42	18.33	1.93

0.167	0.00	6.250	1.93	12.333	15.41	18.42	1.93
0.250	1.18	6.333	1.93	12.417	15.41	18.50	1.93
0.333	1.18	6.417	1.93	12.500	15.41	18.58	1.93
0.417	1.18	6.500	1.93	12.583	15.41	18.67	1.93
0.500	1.18	6.583	1.93	12.667	15.41	18.75	1.93
0.583	1.18	6.667	1.93	12.750	7.92	18.83	1.93
0.667	1.18	6.750	1.93	12.833	7.92	18.92	1.93
0.750	1.18	6.833	1.93	12.917	7.92	19.00	1.93
0.833	1.18	6.917	1.93	13.000	7.92	19.08	1.93
0.917	1.18	7.000	1.93	13.083	7.92	19.17	1.93
1.000	1.18	7.083	1.93	13.167	7.92	19.25	1.93
1.083	1.18	7.167	1.93	13.250	5.78	19.33	1.93
1.167	1.18	7.250	2.35	13.333	5.78	19.42	1.93
1.250	1.18	7.333	2.35	13.417	5.78	19.50	1.93
1.333	1.18	7.417	2.35	13.500	5.78	19.58	1.93
1.417	1.18	7.500	2.35	13.583	5.78	19.67	1.93
1.500	1.18	7.583	2.35	13.667	5.78	19.75	1.93
1.583	1.18	7.667	2.35	13.750	4.49	19.83	1.93
1.667	1.18	7.750	2.35	13.833	4.49	19.92	1.93
1.750	1.18	7.833	2.35	13.917	4.49	20.00	1.93
1.833	1.18	7.917	2.35	14.000	4.49	20.08	1.93
1.917	1.18	8.000	2.35	14.083	4.49	20.17	1.93
2.000	1.18	8.083	2.35	14.167	4.49	20.25	1.28
2.083	1.18	8.167	2.35	14.250	3.21	20.33	1.28
2.167	1.18	8.250	2.78	14.333	3.21	20.42	1.28
2.250	1.39	8.333	2.78	14.417	3.21	20.50	1.28
2.333	1.39	8.417	2.78	14.500	3.21	20.58	1.28
2.417	1.39	8.500	2.78	14.583	3.21	20.67	1.28
2.500	1.39	8.583	2.78	14.667	3.21	20.75	1.28
2.583	1.39	8.667	2.78	14.750	3.21	20.83	1.28
2.667	1.39	8.750	3.00	14.833	3.21	20.92	1.28
2.750	1.39	8.833	3.00	14.917	3.21	21.00	1.28
2.833	1.39	8.917	3.00	15.000	3.21	21.08	1.28
2.917	1.39	9.000	3.00	15.083	3.21	21.17	1.28
3.000	1.39	9.083	3.00	15.167	3.21	21.25	1.28
3.083	1.39	9.167	3.00	15.250	3.21	21.33	1.28
3.167	1.39	9.250	3.42	15.333	3.21	21.42	1.28
3.250	1.39	9.333	3.42	15.417	3.21	21.50	1.28
3.333	1.39	9.417	3.42	15.500	3.21	21.58	1.28
3.417	1.39	9.500	3.42	15.583	3.21	21.67	1.28
3.500	1.39	9.583	3.42	15.667	3.21	21.75	1.28
3.583	1.39	9.667	3.42	15.750	3.21	21.83	1.28
3.667	1.39	9.750	3.85	15.833	3.21	21.92	1.28
3.750	1.39	9.833	3.85	15.917	3.21	22.00	1.28
3.833	1.39	9.917	3.85	16.000	3.21	22.08	1.28
3.917	1.39	10.000	3.85	16.083	3.21	22.17	1.28
4.000	1.39	10.083	3.85	16.167	3.21	22.25	1.28
4.083	1.39	10.167	3.85	16.250	1.93	22.33	1.28
4.167	1.39	10.250	4.92	16.333	1.93	22.42	1.28
4.250	1.71	10.333	4.92	16.417	1.93	22.50	1.28
4.333	1.71	10.417	4.92	16.500	1.93	22.58	1.28
4.417	1.71	10.500	4.92	16.583	1.93	22.67	1.28
4.500	1.71	10.583	4.92	16.667	1.93	22.75	1.28
4.583	1.71	10.667	4.92	16.750	1.93	22.83	1.28
4.667	1.71	10.750	6.63	16.833	1.93	22.92	1.28
4.750	1.71	10.833	6.63	16.917	1.93	23.00	1.28
4.833	1.71	10.917	6.63	17.000	1.93	23.08	1.28
4.917	1.71	11.000	6.63	17.083	1.93	23.17	1.28
5.000	1.71	11.083	6.63	17.167	1.93	23.25	1.28
5.083	1.71	11.167	6.63	17.250	1.93	23.33	1.28
5.167	1.71	11.250	10.27	17.333	1.93	23.42	1.28
5.250	1.71	11.333	10.27	17.417	1.93	23.50	1.28
5.333	1.71	11.417	10.27	17.500	1.93	23.58	1.28
5.417	1.71	11.500	10.27	17.583	1.93	23.67	1.28
5.500	1.71	11.583	10.27	17.667	1.93	23.75	1.28
5.583	1.71	11.667	10.27	17.750	1.93	23.83	1.28
5.667	1.71	11.750	31.66	17.833	1.93	23.92	1.28
5.750	1.71	11.833	31.67	17.917	1.93	24.00	1.28
5.833	1.71	11.917	81.30	18.000	1.93	24.08	1.28
5.917	1.71	12.000	81.30	18.083	1.93	24.17	1.28
6.000	1.71	12.083	130.94	18.167	1.93		
6.083	1.71	12.167	130.94	18.250	1.93		

Unit Hyd Qpeak (cms)= 0.841

PEAK FLOW (cms)= 0.352 (i)
TIME TO PEAK (hrs)= 12.667
RUNOFF VOLUME (mm)= 24.758
TOTAL RAINFALL (mm)= 106.980
RUNOFF COEFFICIENT = 0.231

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0012) | Area (ha)= 1.60 Curve Number (CN)= 49.7
| ID= 1 DT= 5.0 min | Ia (mm)= 8.23 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.24

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.71	12.250	15.42	18.33	1.93
0.167	0.00	6.250	1.93	12.333	15.41	18.42	1.93
0.250	1.18	6.333	1.93	12.417	15.41	18.50	1.93
0.333	1.18	6.417	1.93	12.500	15.41	18.58	1.93
0.417	1.18	6.500	1.93	12.583	15.41	18.67	1.93
0.500	1.18	6.583	1.93	12.667	15.41	18.75	1.93
0.583	1.18	6.667	1.93	12.750	7.92	18.83	1.93
0.667	1.18	6.750	1.93	12.833	7.92	18.92	1.93
0.750	1.18	6.833	1.93	12.917	7.92	19.00	1.93
0.833	1.18	6.917	1.93	13.000	7.92	19.08	1.93
0.917	1.18	7.000	1.93	13.083	7.92	19.17	1.93
1.000	1.18	7.083	1.93	13.167	7.92	19.25	1.93
1.083	1.18	7.167	1.93	13.250	5.78	19.33	1.93
1.167	1.18	7.250	2.35	13.333	5.78	19.42	1.93
1.250	1.18	7.333	2.35	13.417	5.78	19.50	1.93
1.333	1.18	7.417	2.35	13.500	5.78	19.58	1.93
1.417	1.18	7.500	2.35	13.583	5.78	19.67	1.93
1.500	1.18	7.583	2.35	13.667	5.78	19.75	1.93
1.583	1.18	7.667	2.35	13.750	4.49	19.83	1.93
1.667	1.18	7.750	2.35	13.833	4.49	19.92	1.93
1.750	1.18	7.833	2.35	13.917	4.49	20.00	1.93
1.833	1.18	7.917	2.35	14.000	4.49	20.08	1.93
1.917	1.18	8.000	2.35	14.083	4.49	20.17	1.93
2.000	1.18	8.083	2.35	14.167	4.49	20.25	1.28
2.083	1.18	8.167	2.35	14.250	3.21	20.33	1.28
2.167	1.18	8.250	2.78	14.333	3.21	20.42	1.28
2.250	1.39	8.333	2.78	14.417	3.21	20.50	1.28
2.333	1.39	8.417	2.78	14.500	3.21	20.58	1.28
2.417	1.39	8.500	2.78	14.583	3.21	20.67	1.28
2.500	1.39	8.583	2.78	14.667	3.21	20.75	1.28
2.583	1.39	8.667	2.78	14.750	3.21	20.83	1.28
2.667	1.39	8.750	3.00	14.833	3.21	20.92	1.28
2.750	1.39	8.833	3.00	14.917	3.21	21.00	1.28
2.833	1.39	8.917	3.00	15.000	3.21	21.08	1.28
2.917	1.39	9.000	3.00	15.083	3.21	21.17	1.28
3.000	1.39	9.083	3.00	15.167	3.21	21.25	1.28
3.083	1.39	9.167	3.00	15.250	3.21	21.33	1.28
3.167	1.39	9.250	3.42	15.333	3.21	21.42	1.28
3.250	1.39	9.333	3.42	15.417	3.21	21.50	1.28
3.333	1.39	9.417	3.42	15.500	3.21	21.58	1.28
3.417	1.39	9.500	3.42	15.583	3.21	21.67	1.28
3.500	1.39	9.583	3.42	15.667	3.21	21.75	1.28
3.583	1.39	9.667	3.42	15.750	3.21	21.83	1.28
3.667	1.39	9.750	3.85	15.833	3.21	21.92	1.28
3.750	1.39	9.833	3.85	15.917	3.21	22.00	1.28
3.833	1.39	9.917	3.85	16.000	3.21	22.08	1.28
3.917	1.39	10.000	3.85	16.083	3.21	22.17	1.28
4.000	1.39	10.083	3.85	16.167	3.21	22.25	1.28
4.083	1.39	10.167	3.85	16.250	1.93	22.33	1.28
4.167	1.39	10.250	4.92	16.333	1.93	22.42	1.28

4.250	1.71	10.333	4.92	16.417	1.93	22.50	1.28
4.333	1.71	10.417	4.92	16.500	1.93	22.58	1.28
4.417	1.71	10.500	4.92	16.583	1.93	22.67	1.28
4.500	1.71	10.583	4.92	16.667	1.93	22.75	1.28
4.583	1.71	10.667	4.92	16.750	1.93	22.83	1.28
4.667	1.71	10.750	6.63	16.833	1.93	22.92	1.28
4.750	1.71	10.833	6.63	16.917	1.93	23.00	1.28
4.833	1.71	10.917	6.63	17.000	1.93	23.08	1.28
4.917	1.71	11.000	6.63	17.083	1.93	23.17	1.28
5.000	1.71	11.083	6.63	17.167	1.93	23.25	1.28
5.083	1.71	11.167	6.63	17.250	1.93	23.33	1.28
5.167	1.71	11.250	10.27	17.333	1.93	23.42	1.28
5.250	1.71	11.333	10.27	17.417	1.93	23.50	1.28
5.333	1.71	11.417	10.27	17.500	1.93	23.58	1.28
5.417	1.71	11.500	10.27	17.583	1.93	23.67	1.28
5.500	1.71	11.583	10.27	17.667	1.93	23.75	1.28
5.583	1.71	11.667	10.27	17.750	1.93	23.83	1.28
5.667	1.71	11.750	31.66	17.833	1.93	23.92	1.28
5.750	1.71	11.833	31.67	17.917	1.93	24.00	1.28
5.833	1.71	11.917	81.30	18.000	1.93	24.08	1.28
5.917	1.71	12.000	81.30	18.083	1.93	24.17	1.28
6.000	1.71	12.083	130.94	18.167	1.93		
6.083	1.71	12.167	130.94	18.250	1.93		

Unit Hyd Qpeak (cms)= 0.255

PEAK FLOW (cms)= 0.093 (i)
TIME TO PEAK (hrs)= 12.250
RUNOFF VOLUME (mm)= 27.380
TOTAL RAINFALL (mm)= 106.980
RUNOFF COEFFICIENT = 0.256

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0007)| Area (ha)= 1.70 Curve Number (CN)= 62.0
|ID= 1 DT= 5.0 min| la (mm)= 7.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.43

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.71	12.250	15.42	18.33	1.93
0.167	0.00	6.250	1.93	12.333	15.41	18.42	1.93
0.250	1.18	6.333	1.93	12.417	15.41	18.50	1.93
0.333	1.18	6.417	1.93	12.500	15.41	18.58	1.93
0.417	1.18	6.500	1.93	12.583	15.41	18.67	1.93
0.500	1.18	6.583	1.93	12.667	15.41	18.75	1.93
0.583	1.18	6.667	1.93	12.750	7.92	18.83	1.93
0.667	1.18	6.750	1.93	12.833	7.92	18.92	1.93
0.750	1.18	6.833	1.93	12.917	7.92	19.00	1.93
0.833	1.18	6.917	1.93	13.000	7.92	19.08	1.93
0.917	1.18	7.000	1.93	13.083	7.92	19.17	1.93
1.000	1.18	7.083	1.93	13.167	7.92	19.25	1.93
1.083	1.18	7.167	1.93	13.250	5.78	19.33	1.93
1.167	1.18	7.250	2.35	13.333	5.78	19.42	1.93
1.250	1.18	7.333	2.35	13.417	5.78	19.50	1.93
1.333	1.18	7.417	2.35	13.500	5.78	19.58	1.93
1.417	1.18	7.500	2.35	13.583	5.78	19.67	1.93
1.500	1.18	7.583	2.35	13.667	5.78	19.75	1.93
1.583	1.18	7.667	2.35	13.750	4.49	19.83	1.93
1.667	1.18	7.750	2.35	13.833	4.49	19.92	1.93
1.750	1.18	7.833	2.35	13.917	4.49	20.00	1.93
1.833	1.18	7.917	2.35	14.000	4.49	20.08	1.93
1.917	1.18	8.000	2.35	14.083	4.49	20.17	1.93
2.000	1.18	8.083	2.35	14.167	4.49	20.25	1.28
2.083	1.18	8.167	2.35	14.250	3.21	20.33	1.28
2.167	1.18	8.250	2.78	14.333	3.21	20.42	1.28

2.250	1.39	8.333	2.78	14.417	3.21	20.50	1.28
2.333	1.39	8.417	2.78	14.500	3.21	20.58	1.28
2.417	1.39	8.500	2.78	14.583	3.21	20.67	1.28
2.500	1.39	8.583	2.78	14.667	3.21	20.75	1.28
2.583	1.39	8.667	2.78	14.750	3.21	20.83	1.28
2.667	1.39	8.750	3.00	14.833	3.21	20.92	1.28
2.750	1.39	8.833	3.00	14.917	3.21	21.00	1.28
2.833	1.39	8.917	3.00	15.000	3.21	21.08	1.28
2.917	1.39	9.000	3.00	15.083	3.21	21.17	1.28
3.000	1.39	9.083	3.00	15.167	3.21	21.25	1.28
3.083	1.39	9.167	3.00	15.250	3.21	21.33	1.28
3.167	1.39	9.250	3.42	15.333	3.21	21.42	1.28
3.250	1.39	9.333	3.42	15.417	3.21	21.50	1.28
3.333	1.39	9.417	3.42	15.500	3.21	21.58	1.28
3.417	1.39	9.500	3.42	15.583	3.21	21.67	1.28
3.500	1.39	9.583	3.42	15.667	3.21	21.75	1.28
3.583	1.39	9.667	3.42	15.750	3.21	21.83	1.28
3.667	1.39	9.750	3.85	15.833	3.21	21.92	1.28
3.750	1.39	9.833	3.85	15.917	3.21	22.00	1.28
3.833	1.39	9.917	3.85	16.000	3.21	22.08	1.28
3.917	1.39	10.000	3.85	16.083	3.21	22.17	1.28
4.000	1.39	10.083	3.85	16.167	3.21	22.25	1.28
4.083	1.39	10.167	3.85	16.250	1.93	22.33	1.28
4.167	1.39	10.250	4.92	16.333	1.93	22.42	1.28
4.250	1.71	10.333	4.92	16.417	1.93	22.50	1.28
4.333	1.71	10.417	4.92	16.500	1.93	22.58	1.28
4.417	1.71	10.500	4.92	16.583	1.93	22.67	1.28
4.500	1.71	10.583	4.92	16.667	1.93	22.75	1.28
4.583	1.71	10.667	4.92	16.750	1.93	22.83	1.28
4.667	1.71	10.750	6.63	16.833	1.93	22.92	1.28
4.750	1.71	10.833	6.63	16.917	1.93	23.00	1.28
4.833	1.71	10.917	6.63	17.000	1.93	23.08	1.28
4.917	1.71	11.000	6.63	17.083	1.93	23.17	1.28
5.000	1.71	11.083	6.63	17.167	1.93	23.25	1.28
5.083	1.71	11.167	6.63	17.250	1.93	23.33	1.28
5.167	1.71	11.250	10.27	17.333	1.93	23.42	1.28
5.250	1.71	11.333	10.27	17.417	1.93	23.50	1.28
5.333	1.71	11.417	10.27	17.500	1.93	23.58	1.28
5.417	1.71	11.500	10.27	17.583	1.93	23.67	1.28
5.500	1.71	11.583	10.27	17.667	1.93	23.75	1.28
5.583	1.71	11.667	10.27	17.750	1.93	23.83	1.28
5.667	1.71	11.750	31.66	17.833	1.93	23.92	1.28
5.750	1.71	11.833	31.67	17.917	1.93	24.00	1.28
5.833	1.71	11.917	81.30	18.000	1.93	24.08	1.28
5.917	1.71	12.000	81.30	18.083	1.93	24.17	1.28
6.000	1.71	12.083	130.94	18.167	1.93		
6.083	1.71	12.167	130.94	18.250	1.93		

Unit Hyd Qpeak (cms)= 0.151

PEAK FLOW (cms)= 0.097 (i)

TIME TO PEAK (hrs)= 12.500

RUNOFF VOLUME (mm)= 39.095

TOTAL RAINFALL (mm)= 106.980

RUNOFF COEFFICIENT = 0.365

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0006) | Area (ha)= 1.82 Curve Number (CN)= 32.0
 | ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.30

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----
 TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN
 hrs mm/hr | hrs mm/hr | hrs mm/hr | hrs mm/hr
 0.083 0.00 | 6.167 1.71 | 12.250 15.42 | 18.33 1.93
 0.167 0.00 | 6.250 1.93 | 12.333 15.41 | 18.42 1.93

0.250	1.18	6.333	1.93	12.417	15.41	18.50	1.93
0.333	1.18	6.417	1.93	12.500	15.41	18.58	1.93
0.417	1.18	6.500	1.93	12.583	15.41	18.67	1.93
0.500	1.18	6.583	1.93	12.667	15.41	18.75	1.93
0.583	1.18	6.667	1.93	12.750	7.92	18.83	1.93
0.667	1.18	6.750	1.93	12.833	7.92	18.92	1.93
0.750	1.18	6.833	1.93	12.917	7.92	19.00	1.93
0.833	1.18	6.917	1.93	13.000	7.92	19.08	1.93
0.917	1.18	7.000	1.93	13.083	7.92	19.17	1.93
1.000	1.18	7.083	1.93	13.167	7.92	19.25	1.93
1.083	1.18	7.167	1.93	13.250	5.78	19.33	1.93
1.167	1.18	7.250	2.35	13.333	5.78	19.42	1.93
1.250	1.18	7.333	2.35	13.417	5.78	19.50	1.93
1.333	1.18	7.417	2.35	13.500	5.78	19.58	1.93
1.417	1.18	7.500	2.35	13.583	5.78	19.67	1.93
1.500	1.18	7.583	2.35	13.667	5.78	19.75	1.93
1.583	1.18	7.667	2.35	13.750	4.49	19.83	1.93
1.667	1.18	7.750	2.35	13.833	4.49	19.92	1.93
1.750	1.18	7.833	2.35	13.917	4.49	20.00	1.93
1.833	1.18	7.917	2.35	14.000	4.49	20.08	1.93
1.917	1.18	8.000	2.35	14.083	4.49	20.17	1.93
2.000	1.18	8.083	2.35	14.167	4.49	20.25	1.28
2.083	1.18	8.167	2.35	14.250	3.21	20.33	1.28
2.167	1.18	8.250	2.78	14.333	3.21	20.42	1.28
2.250	1.39	8.333	2.78	14.417	3.21	20.50	1.28
2.333	1.39	8.417	2.78	14.500	3.21	20.58	1.28
2.417	1.39	8.500	2.78	14.583	3.21	20.67	1.28
2.500	1.39	8.583	2.78	14.667	3.21	20.75	1.28
2.583	1.39	8.667	2.78	14.750	3.21	20.83	1.28
2.667	1.39	8.750	3.00	14.833	3.21	20.92	1.28
2.750	1.39	8.833	3.00	14.917	3.21	21.00	1.28
2.833	1.39	8.917	3.00	15.000	3.21	21.08	1.28
2.917	1.39	9.000	3.00	15.083	3.21	21.17	1.28
3.000	1.39	9.083	3.00	15.167	3.21	21.25	1.28
3.083	1.39	9.167	3.00	15.250	3.21	21.33	1.28
3.167	1.39	9.250	3.42	15.333	3.21	21.42	1.28
3.250	1.39	9.333	3.42	15.417	3.21	21.50	1.28
3.333	1.39	9.417	3.42	15.500	3.21	21.58	1.28
3.417	1.39	9.500	3.42	15.583	3.21	21.67	1.28
3.500	1.39	9.583	3.42	15.667	3.21	21.75	1.28
3.583	1.39	9.667	3.42	15.750	3.21	21.83	1.28
3.667	1.39	9.750	3.85	15.833	3.21	21.92	1.28
3.750	1.39	9.833	3.85	15.917	3.21	22.00	1.28
3.833	1.39	9.917	3.85	16.000	3.21	22.08	1.28
3.917	1.39	10.000	3.85	16.083	3.21	22.17	1.28
4.000	1.39	10.083	3.85	16.167	3.21	22.25	1.28
4.083	1.39	10.167	3.85	16.250	1.93	22.33	1.28
4.167	1.39	10.250	4.92	16.333	1.93	22.42	1.28
4.250	1.71	10.333	4.92	16.417	1.93	22.50	1.28
4.333	1.71	10.417	4.92	16.500	1.93	22.58	1.28
4.417	1.71	10.500	4.92	16.583	1.93	22.67	1.28
4.500	1.71	10.583	4.92	16.667	1.93	22.75	1.28
4.583	1.71	10.667	4.92	16.750	1.93	22.83	1.28
4.667	1.71	10.750	6.63	16.833	1.93	22.92	1.28
4.750	1.71	10.833	6.63	16.917	1.93	23.00	1.28
4.833	1.71	10.917	6.63	17.000	1.93	23.08	1.28
4.917	1.71	11.000	6.63	17.083	1.93	23.17	1.28
5.000	1.71	11.083	6.63	17.167	1.93	23.25	1.28
5.083	1.71	11.167	6.63	17.250	1.93	23.33	1.28
5.167	1.71	11.250	10.27	17.333	1.93	23.42	1.28
5.250	1.71	11.333	10.27	17.417	1.93	23.50	1.28
5.333	1.71	11.417	10.27	17.500	1.93	23.58	1.28
5.417	1.71	11.500	10.27	17.583	1.93	23.67	1.28
5.500	1.71	11.583	10.27	17.667	1.93	23.75	1.28
5.583	1.71	11.667	10.27	17.750	1.93	23.83	1.28
5.667	1.71	11.750	31.66	17.833	1.93	23.92	1.28
5.750	1.71	11.833	31.67	17.917	1.93	24.00	1.28
5.833	1.71	11.917	81.30	18.000	1.93	24.08	1.28
5.917	1.71	12.000	81.30	18.083	1.93	24.17	1.28
6.000	1.71	12.083	130.94	18.167	1.93		
6.083	1.71	12.167	130.94	18.250	1.93		

Unit Hyd Qpeak (cms)= 0.232

PEAK FLOW (cms)= 0.048 (i)
 TIME TO PEAK (hrs)= 12.333
 RUNOFF VOLUME (mm)= 14.765
 TOTAL RAINFALL (mm)= 106.980
 RUNOFF COEFFICIENT = 0.138

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | STANDHYD (0020) | Area (ha)= 3.73
 | ID= 1 DT= 5.0 min | Total Imp(%)= 47.13 Dir. Conn.(%)= 36.26

IMPERVIOUS PERVIOUS (i)
 Surface Area (ha)= 1.76 1.97
 Dep. Storage (mm)= 2.00 5.00
 Average Slope (°)= 1.00 2.00
 Length (m)= 56.00 32.50
 Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.71	12.250	15.42	18.33	1.93
0.167	0.00	6.250	1.93	12.333	15.41	18.42	1.93
0.250	1.18	6.333	1.93	12.417	15.41	18.50	1.93
0.333	1.18	6.417	1.93	12.500	15.41	18.58	1.93
0.417	1.18	6.500	1.93	12.583	15.41	18.67	1.93
0.500	1.18	6.583	1.93	12.667	15.41	18.75	1.93
0.583	1.18	6.667	1.93	12.750	7.92	18.83	1.93
0.667	1.18	6.750	1.93	12.833	7.92	18.92	1.93
0.750	1.18	6.833	1.93	12.917	7.92	19.00	1.93
0.833	1.18	6.917	1.93	13.000	7.92	19.08	1.93
0.917	1.18	7.000	1.93	13.083	7.92	19.17	1.93
1.000	1.18	7.083	1.93	13.167	7.92	19.25	1.93
1.083	1.18	7.167	1.93	13.250	5.78	19.33	1.93
1.167	1.18	7.250	2.35	13.333	5.78	19.42	1.93
1.250	1.18	7.333	2.35	13.417	5.78	19.50	1.93
1.333	1.18	7.417	2.35	13.500	5.78	19.58	1.93
1.417	1.18	7.500	2.35	13.583	5.78	19.67	1.93
1.500	1.18	7.583	2.35	13.667	5.78	19.75	1.93
1.583	1.18	7.667	2.35	13.750	4.49	19.83	1.93
1.667	1.18	7.750	2.35	13.833	4.49	19.92	1.93
1.750	1.18	7.833	2.35	13.917	4.49	20.00	1.93
1.833	1.18	7.917	2.35	14.000	4.49	20.08	1.93
1.917	1.18	8.000	2.35	14.083	4.49	20.17	1.93
2.000	1.18	8.083	2.35	14.167	4.49	20.25	1.28
2.083	1.18	8.167	2.35	14.250	3.21	20.33	1.28
2.167	1.18	8.250	2.78	14.333	3.21	20.42	1.28
2.250	1.39	8.333	2.78	14.417	3.21	20.50	1.28
2.333	1.39	8.417	2.78	14.500	3.21	20.58	1.28
2.417	1.39	8.500	2.78	14.583	3.21	20.67	1.28
2.500	1.39	8.583	2.78	14.667	3.21	20.75	1.28
2.583	1.39	8.667	2.78	14.750	3.21	20.83	1.28
2.667	1.39	8.750	3.00	14.833	3.21	20.92	1.28
2.750	1.39	8.833	3.00	14.917	3.21	21.00	1.28
2.833	1.39	8.917	3.00	15.000	3.21	21.08	1.28
2.917	1.39	9.000	3.00	15.083	3.21	21.17	1.28
3.000	1.39	9.083	3.00	15.167	3.21	21.25	1.28
3.083	1.39	9.167	3.00	15.250	3.21	21.33	1.28
3.167	1.39	9.250	3.42	15.333	3.21	21.42	1.28
3.250	1.39	9.333	3.42	15.417	3.21	21.50	1.28
3.333	1.39	9.417	3.42	15.500	3.21	21.58	1.28
3.417	1.39	9.500	3.42	15.583	3.21	21.67	1.28
3.500	1.39	9.583	3.42	15.667	3.21	21.75	1.28
3.583	1.39	9.667	3.42	15.750	3.21	21.83	1.28
3.667	1.39	9.750	3.85	15.833	3.21	21.92	1.28
3.750	1.39	9.833	3.85	15.917	3.21	22.00	1.28

3.833	1.39	9.917	3.85	16.000	3.21	22.08	1.28
3.917	1.39	10.000	3.85	16.083	3.21	22.17	1.28
4.000	1.39	10.083	3.85	16.167	3.21	22.25	1.28
4.083	1.39	10.167	3.85	16.250	1.93	22.33	1.28
4.167	1.39	10.250	4.92	16.333	1.93	22.42	1.28
4.250	1.71	10.333	4.92	16.417	1.93	22.50	1.28
4.333	1.71	10.417	4.92	16.500	1.93	22.58	1.28
4.417	1.71	10.500	4.92	16.583	1.93	22.67	1.28
4.500	1.71	10.583	4.92	16.667	1.93	22.75	1.28
4.583	1.71	10.667	4.92	16.750	1.93	22.83	1.28
4.667	1.71	10.750	6.63	16.833	1.93	22.92	1.28
4.750	1.71	10.833	6.63	16.917	1.93	23.00	1.28
4.833	1.71	10.917	6.63	17.000	1.93	23.08	1.28
4.917	1.71	11.000	6.63	17.083	1.93	23.17	1.28
5.000	1.71	11.083	6.63	17.167	1.93	23.25	1.28
5.083	1.71	11.167	6.63	17.250	1.93	23.33	1.28
5.167	1.71	11.250	10.27	17.333	1.93	23.42	1.28
5.250	1.71	11.333	10.27	17.417	1.93	23.50	1.28
5.333	1.71	11.417	10.27	17.500	1.93	23.58	1.28
5.417	1.71	11.500	10.27	17.583	1.93	23.67	1.28
5.500	1.71	11.583	10.27	17.667	1.93	23.75	1.28
5.583	1.71	11.667	10.27	17.750	1.93	23.83	1.28
5.667	1.71	11.750	31.66	17.833	1.93	23.92	1.28
5.750	1.71	11.833	31.67	17.917	1.93	24.00	1.28
5.833	1.71	11.917	81.30	18.000	1.93	24.08	1.28
5.917	1.71	12.000	81.30	18.083	1.93	24.17	1.28
6.000	1.71	12.083	130.94	18.167	1.93		
6.083	1.71	12.167	130.94	18.250	1.93		

Max.Eff.Inten.(mm/hr)= 130.94 57.44
over (min) 5.00 10.00

Storage Coeff. (min)= 1.62 (ii) 9.40 (ii)

Unit Hyd. Tpeak (min)= 5.00 10.00

Unit Hyd. peak (cms)= 0.32 0.12

TOTALS

PEAK FLOW (cms)= 0.49 0.21 0.703 (iii)

TIME TO PEAK (hrs)= 12.17 12.25 12.17

RUNOFF VOLUME (mm)= 104.98 32.83 58.99

TOTAL RAINFALL (mm)= 106.98 106.98 106.98

RUNOFF COEFFICIENT = 0.98 0.31 0.55

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 49.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL

THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0026)| OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE
----- (cms) (ha.m.) | (cms) (ha.m.)
0.0000 0.0000 | 0.0240 0.1740
0.0030 0.0310 | 0.0270 0.1880
0.0050 0.0640 | 0.0310 0.2150
0.0060 0.0990 | 0.0370 0.2560
0.0080 0.1360 | 0.0000 0.0000

	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
INFLOW: ID= 2 (0020)	3.730	0.703	12.17	58.99
OUTFLOW: ID= 1 (0026)	3.730	0.018	16.25	58.28

PEAK FLOW REDUCTION [Qout/Qin](%)= 2.57

TIME SHIFT OF PEAK FLOW (min)=245.00

MAXIMUM STORAGE USED (ha.m.)= 0.1599

| CALIB |

|STANDHYD (0021)| Area (ha)= 2.16
 |ID= 1 DT= 5.0 min | Total Imp(%)= 41.54 Dir. Conn.(%)= 31.77

 IMPERVIOUS PERVIOUS (i)
 Surface Area (ha)= 0.90 1.26
 Dep. Storage (mm)= 2.00 5.00
 Average Slope (%)= 1.20 2.00
 Length (m)= 64.00 33.00
 Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.71	12.250	15.42	18.33	1.93
0.167	0.00	6.250	1.93	12.333	15.41	18.42	1.93
0.250	1.18	6.333	1.93	12.417	15.41	18.50	1.93
0.333	1.18	6.417	1.93	12.500	15.41	18.58	1.93
0.417	1.18	6.500	1.93	12.583	15.41	18.67	1.93
0.500	1.18	6.583	1.93	12.667	15.41	18.75	1.93
0.583	1.18	6.667	1.93	12.750	7.92	18.83	1.93
0.667	1.18	6.750	1.93	12.833	7.92	18.92	1.93
0.750	1.18	6.833	1.93	12.917	7.92	19.00	1.93
0.833	1.18	6.917	1.93	13.000	7.92	19.08	1.93
0.917	1.18	7.000	1.93	13.083	7.92	19.17	1.93
1.000	1.18	7.083	1.93	13.167	7.92	19.25	1.93
1.083	1.18	7.167	1.93	13.250	5.78	19.33	1.93
1.167	1.18	7.250	2.35	13.333	5.78	19.42	1.93
1.250	1.18	7.333	2.35	13.417	5.78	19.50	1.93
1.333	1.18	7.417	2.35	13.500	5.78	19.58	1.93
1.417	1.18	7.500	2.35	13.583	5.78	19.67	1.93
1.500	1.18	7.583	2.35	13.667	5.78	19.75	1.93
1.583	1.18	7.667	2.35	13.750	4.49	19.83	1.93
1.667	1.18	7.750	2.35	13.833	4.49	19.92	1.93
1.750	1.18	7.833	2.35	13.917	4.49	20.00	1.93
1.833	1.18	7.917	2.35	14.000	4.49	20.08	1.93
1.917	1.18	8.000	2.35	14.083	4.49	20.17	1.93
2.000	1.18	8.083	2.35	14.167	4.49	20.25	1.28
2.083	1.18	8.167	2.35	14.250	3.21	20.33	1.28
2.167	1.18	8.250	2.78	14.333	3.21	20.42	1.28
2.250	1.39	8.333	2.78	14.417	3.21	20.50	1.28
2.333	1.39	8.417	2.78	14.500	3.21	20.58	1.28
2.417	1.39	8.500	2.78	14.583	3.21	20.67	1.28
2.500	1.39	8.583	2.78	14.667	3.21	20.75	1.28
2.583	1.39	8.667	2.78	14.750	3.21	20.83	1.28
2.667	1.39	8.750	3.00	14.833	3.21	20.92	1.28
2.750	1.39	8.833	3.00	14.917	3.21	21.00	1.28
2.833	1.39	8.917	3.00	15.000	3.21	21.08	1.28
2.917	1.39	9.000	3.00	15.083	3.21	21.17	1.28
3.000	1.39	9.083	3.00	15.167	3.21	21.25	1.28
3.083	1.39	9.167	3.00	15.250	3.21	21.33	1.28
3.167	1.39	9.250	3.42	15.333	3.21	21.42	1.28
3.250	1.39	9.333	3.42	15.417	3.21	21.50	1.28
3.333	1.39	9.417	3.42	15.500	3.21	21.58	1.28
3.417	1.39	9.500	3.42	15.583	3.21	21.67	1.28
3.500	1.39	9.583	3.42	15.667	3.21	21.75	1.28
3.583	1.39	9.667	3.42	15.750	3.21	21.83	1.28
3.667	1.39	9.750	3.85	15.833	3.21	21.92	1.28
3.750	1.39	9.833	3.85	15.917	3.21	22.00	1.28
3.833	1.39	9.917	3.85	16.000	3.21	22.08	1.28
3.917	1.39	10.000	3.85	16.083	3.21	22.17	1.28
4.000	1.39	10.083	3.85	16.167	3.21	22.25	1.28
4.083	1.39	10.167	3.85	16.250	1.93	22.33	1.28
4.167	1.39	10.250	4.92	16.333	1.93	22.42	1.28
4.250	1.71	10.333	4.92	16.417	1.93	22.50	1.28
4.333	1.71	10.417	4.92	16.500	1.93	22.58	1.28
4.417	1.71	10.500	4.92	16.583	1.93	22.67	1.28
4.500	1.71	10.583	4.92	16.667	1.93	22.75	1.28
4.583	1.71	10.667	4.92	16.750	1.93	22.83	1.28
4.667	1.71	10.750	6.63	16.833	1.93	22.92	1.28
4.750	1.71	10.833	6.63	16.917	1.93	23.00	1.28

4.833	1.71	10.917	6.63	17.000	1.93	23.08	1.28
4.917	1.71	11.000	6.63	17.083	1.93	23.17	1.28
5.000	1.71	11.083	6.63	17.167	1.93	23.25	1.28
5.083	1.71	11.167	6.63	17.250	1.93	23.33	1.28
5.167	1.71	11.250	10.27	17.333	1.93	23.42	1.28
5.250	1.71	11.333	10.27	17.417	1.93	23.50	1.28
5.333	1.71	11.417	10.27	17.500	1.93	23.58	1.28
5.417	1.71	11.500	10.27	17.583	1.93	23.67	1.28
5.500	1.71	11.583	10.27	17.667	1.93	23.75	1.28
5.583	1.71	11.667	10.27	17.750	1.93	23.83	1.28
5.667	1.71	11.750	31.66	17.833	1.93	23.92	1.28
5.750	1.71	11.833	31.67	17.917	1.93	24.00	1.28
5.833	1.71	11.917	81.30	18.000	1.93	24.08	1.28
5.917	1.71	12.000	81.30	18.083	1.93	24.17	1.28
6.000	1.71	12.083	130.94	18.167	1.93		
6.083	1.71	12.167	130.94	18.250	1.93		

```

Max.Eff.Inten.(mm/hr)= 130.94 54.25
over (min) 5.00 10.00
Storage Coeff. (min)= 1.66 (ii) 9.69 (ii)
Unit Hyd. Tpeak (min)= 5.00 10.00
Unit Hyd. peak (cms)= 0.32 0.11
          *TOTALS*
PEAK FLOW (cms)= 0.25 0.13 0.375 (iii)
TIME TO PEAK (hrs)= 12.17 12.25 12.17
RUNOFF VOLUME (mm)= 104.98 32.04 55.21
TOTAL RAINFALL (mm)= 106.98 106.98 106.98
RUNOFF COEFFICIENT = 0.98 0.30 0.52

```

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 49.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

-----
| RESERVOIR( 0025)| OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE
----- (cms) (ha.m.) | (cms) (ha.m.)
0.0000 0.0000 | 0.0300 0.0570
0.0010 0.0070 | 0.0340 0.0670
0.0020 0.0140 | 0.0380 0.0780
0.0020 0.0210 | 0.0400 0.0870
0.0020 0.0230 | 0.0410 0.0890
0.0020 0.0300 | 0.0440 0.1010
0.0180 0.0380 | 0.0470 0.1120
0.0240 0.0470 | 0.0000 0.0000

```

AREA	QPEAK	TPEAK	R.V.
(ha)	(cms)	(hrs)	(mm)
INFLOW: ID= 2 (0021)	2.160	0.375	12.17 55.21
OUTFLOW: ID= 1 (0025)	2.160	0.034	12.92 54.38

```

PEAK FLOW REDUCTION [Qout/Qin](%)= 9.11
TIME SHIFT OF PEAK FLOW (min)= 45.00
MAXIMUM STORAGE USED (ha.m.)= 0.0676

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-----
| ADD HYD ( 0019)|
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 1 ( 0012): 1.60 0.093 12.25 27.38
+ ID2= 2 ( 0013): 12.11 0.352 12.67 24.76
=====
ID = 3 ( 0019): 13.71 0.403 12.58 25.06

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 3 (0019): 13.71 0.403 12.58 25.06
+ ID2= 2 (0017): 5.08 0.197 12.33 21.76
=====

ID = 1 (0019): 18.79 0.581 12.42 24.17

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 1 (0019): 18.79 0.581 12.42 24.17
+ ID2= 2 (0023): 3.32 0.089 12.75 52.39
=====

ID = 3 (0019): 22.11 0.663 12.42 28.41

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 3 (0019): 22.11 0.663 12.42 28.41
+ ID2= 2 (0025): 2.16 0.034 12.92 54.38
=====

ID = 1 (0019): 24.27 0.696 12.42 30.72

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 1 (0019): 24.27 0.696 12.42 30.72
+ ID2= 2 (0026): 3.73 0.018 16.25 58.28
=====

ID = 3 (0019): 28.00 0.703 12.42 34.39

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 3 (0019): 28.00 0.703 12.42 34.39
+ ID2= 2 (0028): 14.72 0.187 13.00 14.77
=====

ID = 1 (0019): 42.72 0.841 12.50 27.63

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 1 (0019): 42.72 0.841 12.50 27.63
+ ID2= 2 (0005): 9.65 0.136 12.83 14.77
=====

ID = 3 (0019): 52.37 0.963 12.58 25.26

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 3 (0019): 52.37 0.963 12.58 25.26
+ ID2= 2 (0006): 1.82 0.048 12.33 14.76
=====

ID = 1 (0019): 54.19 1.000 12.58 24.91

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 1 (0019): 54.19 1.000 12.58 24.91
+ ID2= 2 (0007): 1.70 0.097 12.50 39.10
=====

ID = 3 (0019): 55.89 1.093 12.58 25.34

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 3 (0019): 55.89 1.093 12.58 25.34
+ ID2= 2 (0008): 0.23 0.006 12.42 14.76
=====

ID = 1 (0019): 56.12 1.098 12.58 25.30

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

=====

V V I SSSSS U U A L (v 6.2.2015)
V V I SS U U AA L
V V I SS U U AAAAA L
V V I SS U U A A L
VV I SSSSS UUUUU A A LLLLL

OOO TTTT TTTT H H Y Y M M OOO TM
O O T T H H Y Y MM MM O O
O O T T H H Y M M O O
OOO T T H H Y M M OOO
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***** DETAILED OUTPUT *****

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.2\VO2\voindat
Output filename: C:\Users\ajoshi\AppData\Local\Civica\XH5\152aa03f-7064-4fdb-bb4c-0cf677e1e463\537da258-c001-49b7-8494-9dec6485af32\scena
Summary filename: C:\Users\ajoshi\AppData\Local\Civica\XH5\152aa03f-7064-4fdb-bb4c-0cf677e1e463\537da258-c001-49b7-8494-9dec6485af32\scena

DATE: 04-25-2025

TIME: 04:08:38

USER:

COMMENTS: _____

** SIMULATION : 2yr 24hr 10min SCS Type II (M **

| READ STORM | Filename: C:\Users\ajoshi\AppData
| | ata\Local\Temp\
| | 7bb2ef64-4018-4f05-a7fd-fa3d49c20288\363b3ce
| Ptotal= 56.74 mm | Comments: 2yr 24hr 10min SCS Type II (MTO)

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.00	0.00	6.17	1.02	12.33	8.17	18.50	1.02
0.17	0.62	6.33	1.02	12.50	8.17	18.67	1.02
0.33	0.62	6.50	1.02	12.67	4.20	18.83	1.02
0.50	0.62	6.67	1.02	12.83	4.20	19.00	1.02
0.67	0.62	6.83	1.02	13.00	4.20	19.17	1.02
0.83	0.62	7.00	1.02	13.17	3.06	19.33	1.02
1.00	0.62	7.17	1.25	13.33	3.06	19.50	1.02
1.17	0.62	7.33	1.25	13.50	3.06	19.67	1.02
1.33	0.62	7.50	1.25	13.67	2.38	19.83	1.02
1.50	0.62	7.67	1.25	13.83	2.38	20.00	1.02
1.67	0.62	7.83	1.25	14.00	2.38	20.17	0.68
1.83	0.62	8.00	1.25	14.17	1.70	20.33	0.68
2.00	0.62	8.17	1.48	14.33	1.70	20.50	0.68
2.17	0.74	8.33	1.48	14.50	1.70	20.67	0.68
2.33	0.74	8.50	1.48	14.67	1.70	20.83	0.68
2.50	0.74	8.67	1.59	14.83	1.70	21.00	0.68
2.67	0.74	8.83	1.59	15.00	1.70	21.17	0.68
2.83	0.74	9.00	1.59	15.17	1.70	21.33	0.68
3.00	0.74	9.17	1.82	15.33	1.70	21.50	0.68
3.17	0.74	9.33	1.82	15.50	1.70	21.67	0.68
3.33	0.74	9.50	1.82	15.67	1.70	21.83	0.68
3.50	0.74	9.67	2.04	15.83	1.70	22.00	0.68
3.67	0.74	9.83	2.04	16.00	1.70	22.17	0.68
3.83	0.74	10.00	2.04	16.17	1.02	22.33	0.68
4.00	0.74	10.17	2.61	16.33	1.02	22.50	0.68
4.17	0.91	10.33	2.61	16.50	1.02	22.67	0.68
4.33	0.91	10.50	2.61	16.67	1.02	22.83	0.68
4.50	0.91	10.67	3.52	16.83	1.02	23.00	0.68
4.67	0.91	10.83	3.52	17.00	1.02	23.17	0.68
4.83	0.91	11.00	3.52	17.17	1.02	23.33	0.68
5.00	0.91	11.17	5.45	17.33	1.02	23.50	0.68
5.17	0.91	11.33	5.45	17.50	1.02	23.67	0.68
5.33	0.91	11.50	5.45	17.67	1.02	23.83	0.68
5.50	0.91	11.67	16.80	17.83	1.02	24.00	0.68
5.67	0.91	11.83	43.12	18.00	1.02		
5.83	0.91	12.00	69.45	18.17	1.02		
6.00	0.91	12.17	8.17	18.33	1.02		

| CALIB |
| NASHYD (0015) | Area (ha)= 1.13 Curve Number (CN)= 43.0
| ID= 1 DT= 5.0 min | Ia (mm)= 13.66 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.30

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	0.91	12.250	8.18	18.33	1.02
0.167	0.00	6.250	1.02	12.333	8.17	18.42	1.02
0.250	0.62	6.333	1.02	12.417	8.17	18.50	1.02
0.333	0.62	6.417	1.02	12.500	8.17	18.58	1.02
0.417	0.62	6.500	1.02	12.583	8.17	18.67	1.02
0.500	0.62	6.583	1.02	12.667	8.17	18.75	1.02
0.583	0.62	6.667	1.02	12.750	4.20	18.83	1.02
0.667	0.62	6.750	1.02	12.833	4.20	18.92	1.02
0.750	0.62	6.833	1.02	12.917	4.20	19.00	1.02
0.833	0.62	6.917	1.02	13.000	4.20	19.08	1.02

0.917	0.62	7.000	1.02	13.083	4.20	19.17	1.02
1.000	0.62	7.083	1.02	13.167	4.20	19.25	1.02
1.083	0.62	7.167	1.02	13.250	3.06	19.33	1.02
1.167	0.62	7.250	1.25	13.333	3.06	19.42	1.02
1.250	0.62	7.333	1.25	13.417	3.06	19.50	1.02
1.333	0.62	7.417	1.25	13.500	3.06	19.58	1.02
1.417	0.62	7.500	1.25	13.583	3.06	19.67	1.02
1.500	0.62	7.583	1.25	13.667	3.06	19.75	1.02
1.583	0.62	7.667	1.25	13.750	2.38	19.83	1.02
1.667	0.62	7.750	1.25	13.833	2.38	19.92	1.02
1.750	0.62	7.833	1.25	13.917	2.38	20.00	1.02
1.833	0.62	7.917	1.25	14.000	2.38	20.08	1.02
1.917	0.62	8.000	1.25	14.083	2.38	20.17	1.02
2.000	0.62	8.083	1.25	14.167	2.38	20.25	0.68
2.083	0.62	8.167	1.25	14.250	1.70	20.33	0.68
2.167	0.62	8.250	1.48	14.333	1.70	20.42	0.68
2.250	0.74	8.333	1.48	14.417	1.70	20.50	0.68
2.333	0.74	8.417	1.48	14.500	1.70	20.58	0.68
2.417	0.74	8.500	1.48	14.583	1.70	20.67	0.68
2.500	0.74	8.583	1.48	14.667	1.70	20.75	0.68
2.583	0.74	8.667	1.48	14.750	1.70	20.83	0.68
2.667	0.74	8.750	1.59	14.833	1.70	20.92	0.68
2.750	0.74	8.833	1.59	14.917	1.70	21.00	0.68
2.833	0.74	8.917	1.59	15.000	1.70	21.08	0.68
2.917	0.74	9.000	1.59	15.083	1.70	21.17	0.68
3.000	0.74	9.083	1.59	15.167	1.70	21.25	0.68
3.083	0.74	9.167	1.59	15.250	1.70	21.33	0.68
3.167	0.74	9.250	1.82	15.333	1.70	21.42	0.68
3.250	0.74	9.333	1.82	15.417	1.70	21.50	0.68
3.333	0.74	9.417	1.82	15.500	1.70	21.58	0.68
3.417	0.74	9.500	1.82	15.583	1.70	21.67	0.68
3.500	0.74	9.583	1.82	15.667	1.70	21.75	0.68
3.583	0.74	9.667	1.82	15.750	1.70	21.83	0.68
3.667	0.74	9.750	2.04	15.833	1.70	21.92	0.68
3.750	0.74	9.833	2.04	15.917	1.70	22.00	0.68
3.833	0.74	9.917	2.04	16.000	1.70	22.08	0.68
3.917	0.74	10.000	2.04	16.083	1.70	22.17	0.68
4.000	0.74	10.083	2.04	16.167	1.70	22.25	0.68
4.083	0.74	10.167	2.04	16.250	1.02	22.33	0.68
4.167	0.74	10.250	2.61	16.333	1.02	22.42	0.68
4.250	0.91	10.333	2.61	16.417	1.02	22.50	0.68
4.333	0.91	10.417	2.61	16.500	1.02	22.58	0.68
4.417	0.91	10.500	2.61	16.583	1.02	22.67	0.68
4.500	0.91	10.583	2.61	16.667	1.02	22.75	0.68
4.583	0.91	10.667	2.61	16.750	1.02	22.83	0.68
4.667	0.91	10.750	3.52	16.833	1.02	22.92	0.68
4.750	0.91	10.833	3.52	16.917	1.02	23.00	0.68
4.833	0.91	10.917	3.52	17.000	1.02	23.08	0.68
4.917	0.91	11.000	3.52	17.083	1.02	23.17	0.68
5.000	0.91	11.083	3.52	17.167	1.02	23.25	0.68
5.083	0.91	11.167	3.52	17.250	1.02	23.33	0.68
5.167	0.91	11.250	5.45	17.333	1.02	23.42	0.68
5.250	0.91	11.333	5.45	17.417	1.02	23.50	0.68
5.333	0.91	11.417	5.45	17.500	1.02	23.58	0.68
5.417	0.91	11.500	5.45	17.583	1.02	23.67	0.68
5.500	0.91	11.583	5.45	17.667	1.02	23.75	0.68
5.583	0.91	11.667	5.45	17.750	1.02	23.83	0.68
5.667	0.91	11.750	16.79	17.833	1.02	23.92	0.68
5.750	0.91	11.833	16.80	17.917	1.02	24.00	0.68
5.833	0.91	11.917	43.12	18.000	1.02	24.08	0.68
5.917	0.91	12.000	43.12	18.083	1.02	24.17	0.68
6.000	0.91	12.083	69.45	18.167	1.02		
6.083	0.91	12.167	69.45	18.250	1.02		

Unit Hyd Qpeak (cms)= 0.144

PEAK FLOW (cms)= 0.009 (i)

TIME TO PEAK (hrs)= 12.333

RUNOFF VOLUME (mm)= 4.884

TOTAL RAINFALL (mm)= 56.740

RUNOFF COEFFICIENT = 0.086

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0004) | Area (ha)= 0.66 Curve Number (CN)= 62.0
 | ID= 1 DT= 5.0 min | la (mm)= 7.00 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.19

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	0.91	12.250	8.18	18.33	1.02
0.167	0.00	6.250	1.02	12.333	8.17	18.42	1.02
0.250	0.62	6.333	1.02	12.417	8.17	18.50	1.02
0.333	0.62	6.417	1.02	12.500	8.17	18.58	1.02
0.417	0.62	6.500	1.02	12.583	8.17	18.67	1.02
0.500	0.62	6.583	1.02	12.667	8.17	18.75	1.02
0.583	0.62	6.667	1.02	12.750	4.20	18.83	1.02
0.667	0.62	6.750	1.02	12.833	4.20	18.92	1.02
0.750	0.62	6.833	1.02	12.917	4.20	19.00	1.02
0.833	0.62	6.917	1.02	13.000	4.20	19.08	1.02
0.917	0.62	7.000	1.02	13.083	4.20	19.17	1.02
1.000	0.62	7.083	1.02	13.167	4.20	19.25	1.02
1.083	0.62	7.167	1.02	13.250	3.06	19.33	1.02
1.167	0.62	7.250	1.25	13.333	3.06	19.42	1.02
1.250	0.62	7.333	1.25	13.417	3.06	19.50	1.02
1.333	0.62	7.417	1.25	13.500	3.06	19.58	1.02
1.417	0.62	7.500	1.25	13.583	3.06	19.67	1.02
1.500	0.62	7.583	1.25	13.667	3.06	19.75	1.02
1.583	0.62	7.667	1.25	13.750	2.38	19.83	1.02
1.667	0.62	7.750	1.25	13.833	2.38	19.92	1.02
1.750	0.62	7.833	1.25	13.917	2.38	20.00	1.02
1.833	0.62	7.917	1.25	14.000	2.38	20.08	1.02
1.917	0.62	8.000	1.25	14.083	2.38	20.17	1.02
2.000	0.62	8.083	1.25	14.167	2.38	20.25	0.68
2.083	0.62	8.167	1.25	14.250	1.70	20.33	0.68
2.167	0.62	8.250	1.48	14.333	1.70	20.42	0.68
2.250	0.74	8.333	1.48	14.417	1.70	20.50	0.68
2.333	0.74	8.417	1.48	14.500	1.70	20.58	0.68
2.417	0.74	8.500	1.48	14.583	1.70	20.67	0.68
2.500	0.74	8.583	1.48	14.667	1.70	20.75	0.68
2.583	0.74	8.667	1.48	14.750	1.70	20.83	0.68
2.667	0.74	8.750	1.59	14.833	1.70	20.92	0.68
2.750	0.74	8.833	1.59	14.917	1.70	21.00	0.68
2.833	0.74	8.917	1.59	15.000	1.70	21.08	0.68
2.917	0.74	9.000	1.59	15.083	1.70	21.17	0.68
3.000	0.74	9.083	1.59	15.167	1.70	21.25	0.68
3.083	0.74	9.167	1.59	15.250	1.70	21.33	0.68
3.167	0.74	9.250	1.82	15.333	1.70	21.42	0.68
3.250	0.74	9.333	1.82	15.417	1.70	21.50	0.68
3.333	0.74	9.417	1.82	15.500	1.70	21.58	0.68
3.417	0.74	9.500	1.82	15.583	1.70	21.67	0.68
3.500	0.74	9.583	1.82	15.667	1.70	21.75	0.68
3.583	0.74	9.667	1.82	15.750	1.70	21.83	0.68
3.667	0.74	9.750	2.04	15.833	1.70	21.92	0.68
3.750	0.74	9.833	2.04	15.917	1.70	22.00	0.68
3.833	0.74	9.917	2.04	16.000	1.70	22.08	0.68
3.917	0.74	10.000	2.04	16.083	1.70	22.17	0.68
4.000	0.74	10.083	2.04	16.167	1.70	22.25	0.68
4.083	0.74	10.167	2.04	16.250	1.02	22.33	0.68
4.167	0.74	10.250	2.61	16.333	1.02	22.42	0.68
4.250	0.91	10.333	2.61	16.417	1.02	22.50	0.68
4.333	0.91	10.417	2.61	16.500	1.02	22.58	0.68
4.417	0.91	10.500	2.61	16.583	1.02	22.67	0.68
4.500	0.91	10.583	2.61	16.667	1.02	22.75	0.68
4.583	0.91	10.667	2.61	16.750	1.02	22.83	0.68
4.667	0.91	10.750	3.52	16.833	1.02	22.92	0.68
4.750	0.91	10.833	3.52	16.917	1.02	23.00	0.68
4.833	0.91	10.917	3.52	17.000	1.02	23.08	0.68
4.917	0.91	11.000	3.52	17.083	1.02	23.17	0.68

5.000	0.91	11.083	3.52	17.167	1.02	23.25	0.68
5.083	0.91	11.167	3.52	17.250	1.02	23.33	0.68
5.167	0.91	11.250	5.45	17.333	1.02	23.42	0.68
5.250	0.91	11.333	5.45	17.417	1.02	23.50	0.68
5.333	0.91	11.417	5.45	17.500	1.02	23.58	0.68
5.417	0.91	11.500	5.45	17.583	1.02	23.67	0.68
5.500	0.91	11.583	5.45	17.667	1.02	23.75	0.68
5.583	0.91	11.667	5.45	17.750	1.02	23.83	0.68
5.667	0.91	11.750	16.79	17.833	1.02	23.92	0.68
5.750	0.91	11.833	16.80	17.917	1.02	24.00	0.68
5.833	0.91	11.917	43.12	18.000	1.02	24.08	0.68
5.917	0.91	12.000	43.12	18.083	1.02	24.17	0.68
6.000	0.91	12.083	69.45	18.167	1.02		
6.083	0.91	12.167	69.45	18.250	1.02		

Unit Hyd Qpeak (cms)= 0.133

PEAK FLOW (cms)= 0.020 (i)
TIME TO PEAK (hrs)= 12.250
RUNOFF VOLUME (mm)= 12.016
TOTAL RAINFALL (mm)= 56.740
RUNOFF COEFFICIENT = 0.212

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| STANDHYD (0022)| Area (ha)= 2.66
| ID= 1 DT= 5.0 min | Total Imp(%)= 45.08 Dir. Conn.(%)= 31.83

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 1.20 1.46
Dep. Storage (mm)= 2.00 5.00
Average Slope (°)= 1.00 2.00
Length (m)= 67.80 47.60
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----							
TIME	RAIN		TIME	RAIN		TIME	RAIN
hrs	mm/hr		hrs	mm/hr		hrs	mm/hr
0.083	0.00		6.167	0.91		12.250	8.18
0.167	0.00		6.250	1.02		12.333	8.17
0.250	0.62		6.333	1.02		12.417	8.17
0.333	0.62		6.417	1.02		12.500	8.17
0.417	0.62		6.500	1.02		12.583	8.17
0.500	0.62		6.583	1.02		12.667	8.17
0.583	0.62		6.667	1.02		12.750	4.20
0.667	0.62		6.750	1.02		12.833	4.20
0.750	0.62		6.833	1.02		12.917	4.20
0.833	0.62		6.917	1.02		13.000	4.20
0.917	0.62		7.000	1.02		13.083	4.20
1.000	0.62		7.083	1.02		13.167	4.20
1.083	0.62		7.167	1.02		13.250	3.06
1.167	0.62		7.250	1.25		13.333	3.06
1.250	0.62		7.333	1.25		13.417	3.06
1.333	0.62		7.417	1.25		13.500	3.06
1.417	0.62		7.500	1.25		13.583	3.06
1.500	0.62		7.583	1.25		13.667	3.06
1.583	0.62		7.667	1.25		13.750	2.38
1.667	0.62		7.750	1.25		13.833	2.38
1.750	0.62		7.833	1.25		13.917	2.38
1.833	0.62		7.917	1.25		14.000	2.38
1.917	0.62		8.000	1.25		14.083	2.38
2.000	0.62		8.083	1.25		14.167	2.38
2.083	0.62		8.167	1.25		14.250	1.70
2.167	0.62		8.250	1.48		14.333	1.70
2.250	0.74		8.333	1.48		14.417	1.70
2.333	0.74		8.417	1.48		14.500	1.70
2.417	0.74		8.500	1.48		14.583	1.70

2.500	0.74	8.583	1.48	14.667	1.70	20.75	0.68
2.583	0.74	8.667	1.48	14.750	1.70	20.83	0.68
2.667	0.74	8.750	1.59	14.833	1.70	20.92	0.68
2.750	0.74	8.833	1.59	14.917	1.70	21.00	0.68
2.833	0.74	8.917	1.59	15.000	1.70	21.08	0.68
2.917	0.74	9.000	1.59	15.083	1.70	21.17	0.68
3.000	0.74	9.083	1.59	15.167	1.70	21.25	0.68
3.083	0.74	9.167	1.59	15.250	1.70	21.33	0.68
3.167	0.74	9.250	1.82	15.333	1.70	21.42	0.68
3.250	0.74	9.333	1.82	15.417	1.70	21.50	0.68
3.333	0.74	9.417	1.82	15.500	1.70	21.58	0.68
3.417	0.74	9.500	1.82	15.583	1.70	21.67	0.68
3.500	0.74	9.583	1.82	15.667	1.70	21.75	0.68
3.583	0.74	9.667	1.82	15.750	1.70	21.83	0.68
3.667	0.74	9.750	2.04	15.833	1.70	21.92	0.68
3.750	0.74	9.833	2.04	15.917	1.70	22.00	0.68
3.833	0.74	9.917	2.04	16.000	1.70	22.08	0.68
3.917	0.74	10.000	2.04	16.083	1.70	22.17	0.68
4.000	0.74	10.083	2.04	16.167	1.70	22.25	0.68
4.083	0.74	10.167	2.04	16.250	1.02	22.33	0.68
4.167	0.74	10.250	2.61	16.333	1.02	22.42	0.68
4.250	0.91	10.333	2.61	16.417	1.02	22.50	0.68
4.333	0.91	10.417	2.61	16.500	1.02	22.58	0.68
4.417	0.91	10.500	2.61	16.583	1.02	22.67	0.68
4.500	0.91	10.583	2.61	16.667	1.02	22.75	0.68
4.583	0.91	10.667	2.61	16.750	1.02	22.83	0.68
4.667	0.91	10.750	3.52	16.833	1.02	22.92	0.68
4.750	0.91	10.833	3.52	16.917	1.02	23.00	0.68
4.833	0.91	10.917	3.52	17.000	1.02	23.08	0.68
4.917	0.91	11.000	3.52	17.083	1.02	23.17	0.68
5.000	0.91	11.083	3.52	17.167	1.02	23.25	0.68
5.083	0.91	11.167	3.52	17.250	1.02	23.33	0.68
5.167	0.91	11.250	5.45	17.333	1.02	23.42	0.68
5.250	0.91	11.333	5.45	17.417	1.02	23.50	0.68
5.333	0.91	11.417	5.45	17.500	1.02	23.58	0.68
5.417	0.91	11.500	5.45	17.583	1.02	23.67	0.68
5.500	0.91	11.583	5.45	17.667	1.02	23.75	0.68
5.583	0.91	11.667	5.45	17.750	1.02	23.83	0.68
5.667	0.91	11.750	16.79	17.833	1.02	23.92	0.68
5.750	0.91	11.833	16.80	17.917	1.02	24.00	0.68
5.833	0.91	11.917	43.12	18.000	1.02	24.08	0.68
5.917	0.91	12.000	43.12	18.083	1.02	24.17	0.68
6.000	0.91	12.083	69.45	18.167	1.02		
6.083	0.91	12.167	69.45	18.250	1.02		

Max.Eff.Inten.(mm/hr)= 69.45 13.45
over (min) 5.00 20.00

Storage Coeff. (min)= 2.34 (ii) 19.82 (ii)

Unit Hyd. Tpeak (min)= 5.00 20.00

Unit Hyd. peak (cms)= 0.30 0.06

TOTALS

PEAK FLOW (cms)= 0.16 0.03 0.184 (iii)

TIME TO PEAK (hrs)= 12.17 12.42 12.17

RUNOFF VOLUME (mm)= 54.74 10.46 24.55

TOTAL RAINFALL (mm)= 56.74 56.74 56.74

RUNOFF COEFFICIENT = 0.96 0.18 0.43

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 49.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL

THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| ADD HYD (0024)|

| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.

----- (ha) (cms) (hrs) (mm)

ID1= 1 (0022): 2.66 0.184 12.17 24.55

+ ID2= 2 (0004): 0.66 0.020 12.25 12.02

=====

ID = 3 (0024): 3.32 0.202 12.17 22.06

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| RESERVOIR(0023)| OVERFLOW IS OFF

| IN= 2---> OUT= 1 |

| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE

----- (cms) (ha.m.) | (cms) (ha.m.)

0.0000 0.0000 | 0.0470 0.0670

0.0020 0.0120 | 0.0790 0.0820

0.0020 0.0250 | 0.1020 0.0980

0.0030 0.0380 | 0.1200 0.1150

0.0030 0.0520 | 0.0000 0.0000

AREA QPEAK TPEAK R.V.

(ha) (cms) (hrs) (mm)

INFLOW: ID= 2 (0024) 3.320 0.202 12.17 22.06

OUTFLOW: ID= 1 (0023) 3.320 0.007 16.25 21.60

PEAK FLOW REDUCTION [Qout/Qin](%)= 3.34

TIME SHIFT OF PEAK FLOW (min)=245.00

MAXIMUM STORAGE USED (ha.m.)= 0.0533

| CALIB |

| NASHYD (0027)| Area (ha)= 3.10 Curve Number (CN)= 35.8

| ID= 1 DT= 5.0 min | Ia (mm)= 8.43 # of Linear Res.(N)= 3.00

----- U.H. Tp(hrs)= 0.30

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN
hrs mm/hr | hrs mm/hr | hrs mm/hr | hrs mm/hr

0.083	0.00	6.167	0.91	12.250	8.18	18.33	1.02
0.167	0.00	6.250	1.02	12.333	8.17	18.42	1.02
0.250	0.62	6.333	1.02	12.417	8.17	18.50	1.02
0.333	0.62	6.417	1.02	12.500	8.17	18.58	1.02
0.417	0.62	6.500	1.02	12.583	8.17	18.67	1.02
0.500	0.62	6.583	1.02	12.667	8.17	18.75	1.02
0.583	0.62	6.667	1.02	12.750	4.20	18.83	1.02
0.667	0.62	6.750	1.02	12.833	4.20	18.92	1.02
0.750	0.62	6.833	1.02	12.917	4.20	19.00	1.02
0.833	0.62	6.917	1.02	13.000	4.20	19.08	1.02
0.917	0.62	7.000	1.02	13.083	4.20	19.17	1.02
1.000	0.62	7.083	1.02	13.167	4.20	19.25	1.02
1.083	0.62	7.167	1.02	13.250	3.06	19.33	1.02
1.167	0.62	7.250	1.25	13.333	3.06	19.42	1.02
1.250	0.62	7.333	1.25	13.417	3.06	19.50	1.02
1.333	0.62	7.417	1.25	13.500	3.06	19.58	1.02
1.417	0.62	7.500	1.25	13.583	3.06	19.67	1.02
1.500	0.62	7.583	1.25	13.667	3.06	19.75	1.02
1.583	0.62	7.667	1.25	13.750	2.38	19.83	1.02
1.667	0.62	7.750	1.25	13.833	2.38	19.92	1.02
1.750	0.62	7.833	1.25	13.917	2.38	20.00	1.02
1.833	0.62	7.917	1.25	14.000	2.38	20.08	1.02
1.917	0.62	8.000	1.25	14.083	2.38	20.17	1.02
2.000	0.62	8.083	1.25	14.167	2.38	20.25	0.68
2.083	0.62	8.167	1.25	14.250	1.70	20.33	0.68
2.167	0.62	8.250	1.48	14.333	1.70	20.42	0.68
2.250	0.74	8.333	1.48	14.417	1.70	20.50	0.68
2.333	0.74	8.417	1.48	14.500	1.70	20.58	0.68
2.417	0.74	8.500	1.48	14.583	1.70	20.67	0.68
2.500	0.74	8.583	1.48	14.667	1.70	20.75	0.68
2.583	0.74	8.667	1.48	14.750	1.70	20.83	0.68
2.667	0.74	8.750	1.59	14.833	1.70	20.92	0.68
2.750	0.74	8.833	1.59	14.917	1.70	21.00	0.68
2.833	0.74	8.917	1.59	15.000	1.70	21.08	0.68
2.917	0.74	9.000	1.59	15.083	1.70	21.17	0.68

3.000	0.74	9.083	1.59	15.167	1.70	21.25	0.68
3.083	0.74	9.167	1.59	15.250	1.70	21.33	0.68
3.167	0.74	9.250	1.82	15.333	1.70	21.42	0.68
3.250	0.74	9.333	1.82	15.417	1.70	21.50	0.68
3.333	0.74	9.417	1.82	15.500	1.70	21.58	0.68
3.417	0.74	9.500	1.82	15.583	1.70	21.67	0.68
3.500	0.74	9.583	1.82	15.667	1.70	21.75	0.68
3.583	0.74	9.667	1.82	15.750	1.70	21.83	0.68
3.667	0.74	9.750	2.04	15.833	1.70	21.92	0.68
3.750	0.74	9.833	2.04	15.917	1.70	22.00	0.68
3.833	0.74	9.917	2.04	16.000	1.70	22.08	0.68
3.917	0.74	10.000	2.04	16.083	1.70	22.17	0.68
4.000	0.74	10.083	2.04	16.167	1.70	22.25	0.68
4.083	0.74	10.167	2.04	16.250	1.02	22.33	0.68
4.167	0.74	10.250	2.61	16.333	1.02	22.42	0.68
4.250	0.91	10.333	2.61	16.417	1.02	22.50	0.68
4.333	0.91	10.417	2.61	16.500	1.02	22.58	0.68
4.417	0.91	10.500	2.61	16.583	1.02	22.67	0.68
4.500	0.91	10.583	2.61	16.667	1.02	22.75	0.68
4.583	0.91	10.667	2.61	16.750	1.02	22.83	0.68
4.667	0.91	10.750	3.52	16.833	1.02	22.92	0.68
4.750	0.91	10.833	3.52	16.917	1.02	23.00	0.68
4.833	0.91	10.917	3.52	17.000	1.02	23.08	0.68
4.917	0.91	11.000	3.52	17.083	1.02	23.17	0.68
5.000	0.91	11.083	3.52	17.167	1.02	23.25	0.68
5.083	0.91	11.167	3.52	17.250	1.02	23.33	0.68
5.167	0.91	11.250	5.45	17.333	1.02	23.42	0.68
5.250	0.91	11.333	5.45	17.417	1.02	23.50	0.68
5.333	0.91	11.417	5.45	17.500	1.02	23.58	0.68
5.417	0.91	11.500	5.45	17.583	1.02	23.67	0.68
5.500	0.91	11.583	5.45	17.667	1.02	23.75	0.68
5.583	0.91	11.667	5.45	17.750	1.02	23.83	0.68
5.667	0.91	11.750	16.79	17.833	1.02	23.92	0.68
5.750	0.91	11.833	16.80	17.917	1.02	24.00	0.68
5.833	0.91	11.917	43.12	18.000	1.02	24.08	0.68
5.917	0.91	12.000	43.12	18.083	1.02	24.17	0.68
6.000	0.91	12.083	69.45	18.167	1.02		
6.083	0.91	12.167	69.45	18.250	1.02		

Unit Hyd Qpeak (cms)= 0.395

PEAK FLOW (cms)= 0.025 (i)
TIME TO PEAK (hrs)= 12.333
RUNOFF VOLUME (mm)= 4.630
TOTAL RAINFALL (mm)= 56.740
RUNOFF COEFFICIENT = 0.082

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0010) | Area (ha)= 0.87 Curve Number (CN)= 32.0
| ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.24

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	0.91	12.250	8.18	18.33	1.02
0.167	0.00	6.250	1.02	12.333	8.17	18.42	1.02
0.250	0.62	6.333	1.02	12.417	8.17	18.50	1.02
0.333	0.62	6.417	1.02	12.500	8.17	18.58	1.02
0.417	0.62	6.500	1.02	12.583	8.17	18.67	1.02
0.500	0.62	6.583	1.02	12.667	8.17	18.75	1.02
0.583	0.62	6.667	1.02	12.750	4.20	18.83	1.02
0.667	0.62	6.750	1.02	12.833	4.20	18.92	1.02
0.750	0.62	6.833	1.02	12.917	4.20	19.00	1.02
0.833	0.62	6.917	1.02	13.000	4.20	19.08	1.02
0.917	0.62	7.000	1.02	13.083	4.20	19.17	1.02

1.000	0.62	7.083	1.02	13.167	4.20	19.25	1.02
1.083	0.62	7.167	1.02	13.250	3.06	19.33	1.02
1.167	0.62	7.250	1.25	13.333	3.06	19.42	1.02
1.250	0.62	7.333	1.25	13.417	3.06	19.50	1.02
1.333	0.62	7.417	1.25	13.500	3.06	19.58	1.02
1.417	0.62	7.500	1.25	13.583	3.06	19.67	1.02
1.500	0.62	7.583	1.25	13.667	3.06	19.75	1.02
1.583	0.62	7.667	1.25	13.750	2.38	19.83	1.02
1.667	0.62	7.750	1.25	13.833	2.38	19.92	1.02
1.750	0.62	7.833	1.25	13.917	2.38	20.00	1.02
1.833	0.62	7.917	1.25	14.000	2.38	20.08	1.02
1.917	0.62	8.000	1.25	14.083	2.38	20.17	1.02
2.000	0.62	8.083	1.25	14.167	2.38	20.25	0.68
2.083	0.62	8.167	1.25	14.250	1.70	20.33	0.68
2.167	0.62	8.250	1.48	14.333	1.70	20.42	0.68
2.250	0.74	8.333	1.48	14.417	1.70	20.50	0.68
2.333	0.74	8.417	1.48	14.500	1.70	20.58	0.68
2.417	0.74	8.500	1.48	14.583	1.70	20.67	0.68
2.500	0.74	8.583	1.48	14.667	1.70	20.75	0.68
2.583	0.74	8.667	1.48	14.750	1.70	20.83	0.68
2.667	0.74	8.750	1.59	14.833	1.70	20.92	0.68
2.750	0.74	8.833	1.59	14.917	1.70	21.00	0.68
2.833	0.74	8.917	1.59	15.000	1.70	21.08	0.68
2.917	0.74	9.000	1.59	15.083	1.70	21.17	0.68
3.000	0.74	9.083	1.59	15.167	1.70	21.25	0.68
3.083	0.74	9.167	1.59	15.250	1.70	21.33	0.68
3.167	0.74	9.250	1.82	15.333	1.70	21.42	0.68
3.250	0.74	9.333	1.82	15.417	1.70	21.50	0.68
3.333	0.74	9.417	1.82	15.500	1.70	21.58	0.68
3.417	0.74	9.500	1.82	15.583	1.70	21.67	0.68
3.500	0.74	9.583	1.82	15.667	1.70	21.75	0.68
3.583	0.74	9.667	1.82	15.750	1.70	21.83	0.68
3.667	0.74	9.750	2.04	15.833	1.70	21.92	0.68
3.750	0.74	9.833	2.04	15.917	1.70	22.00	0.68
3.833	0.74	9.917	2.04	16.000	1.70	22.08	0.68
3.917	0.74	10.000	2.04	16.083	1.70	22.17	0.68
4.000	0.74	10.083	2.04	16.167	1.70	22.25	0.68
4.083	0.74	10.167	2.04	16.250	1.02	22.33	0.68
4.167	0.74	10.250	2.61	16.333	1.02	22.42	0.68
4.250	0.91	10.333	2.61	16.417	1.02	22.50	0.68
4.333	0.91	10.417	2.61	16.500	1.02	22.58	0.68
4.417	0.91	10.500	2.61	16.583	1.02	22.67	0.68
4.500	0.91	10.583	2.61	16.667	1.02	22.75	0.68
4.583	0.91	10.667	2.61	16.750	1.02	22.83	0.68
4.667	0.91	10.750	3.52	16.833	1.02	22.92	0.68
4.750	0.91	10.833	3.52	16.917	1.02	23.00	0.68
4.833	0.91	10.917	3.52	17.000	1.02	23.08	0.68
4.917	0.91	11.000	3.52	17.083	1.02	23.17	0.68
5.000	0.91	11.083	3.52	17.167	1.02	23.25	0.68
5.083	0.91	11.167	3.52	17.250	1.02	23.33	0.68
5.167	0.91	11.250	5.45	17.333	1.02	23.42	0.68
5.250	0.91	11.333	5.45	17.417	1.02	23.50	0.68
5.333	0.91	11.417	5.45	17.500	1.02	23.58	0.68
5.417	0.91	11.500	5.45	17.583	1.02	23.67	0.68
5.500	0.91	11.583	5.45	17.667	1.02	23.75	0.68
5.583	0.91	11.667	5.45	17.750	1.02	23.83	0.68
5.667	0.91	11.750	16.79	17.833	1.02	23.92	0.68
5.750	0.91	11.833	16.80	17.917	1.02	24.00	0.68
5.833	0.91	11.917	43.12	18.000	1.02	24.08	0.68
5.917	0.91	12.000	43.12	18.083	1.02	24.17	0.68
6.000	0.91	12.083	69.45	18.167	1.02		
6.083	0.91	12.167	69.45	18.250	1.02		

Unit Hyd Qpeak (cms)= 0.138

PEAK FLOW (cms)= 0.006 (i)

TIME TO PEAK (hrs)= 12.250

RUNOFF VOLUME (mm)= 3.721

TOTAL RAINFALL (mm)= 56.740

RUNOFF COEFFICIENT = 0.066

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0009) | Area (ha)= 1.11 Curve Number (CN)= 62.0
 | ID= 1 DT= 5.0 min | Ia (mm)= 7.00 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.34

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	0.91	12.250	8.18	18.33	1.02
0.167	0.00	6.250	1.02	12.333	8.17	18.42	1.02
0.250	0.62	6.333	1.02	12.417	8.17	18.50	1.02
0.333	0.62	6.417	1.02	12.500	8.17	18.58	1.02
0.417	0.62	6.500	1.02	12.583	8.17	18.67	1.02
0.500	0.62	6.583	1.02	12.667	8.17	18.75	1.02
0.583	0.62	6.667	1.02	12.750	4.20	18.83	1.02
0.667	0.62	6.750	1.02	12.833	4.20	18.92	1.02
0.750	0.62	6.833	1.02	12.917	4.20	19.00	1.02
0.833	0.62	6.917	1.02	13.000	4.20	19.08	1.02
0.917	0.62	7.000	1.02	13.083	4.20	19.17	1.02
1.000	0.62	7.083	1.02	13.167	4.20	19.25	1.02
1.083	0.62	7.167	1.02	13.250	3.06	19.33	1.02
1.167	0.62	7.250	1.25	13.333	3.06	19.42	1.02
1.250	0.62	7.333	1.25	13.417	3.06	19.50	1.02
1.333	0.62	7.417	1.25	13.500	3.06	19.58	1.02
1.417	0.62	7.500	1.25	13.583	3.06	19.67	1.02
1.500	0.62	7.583	1.25	13.667	3.06	19.75	1.02
1.583	0.62	7.667	1.25	13.750	2.38	19.83	1.02
1.667	0.62	7.750	1.25	13.833	2.38	19.92	1.02
1.750	0.62	7.833	1.25	13.917	2.38	20.00	1.02
1.833	0.62	7.917	1.25	14.000	2.38	20.08	1.02
1.917	0.62	8.000	1.25	14.083	2.38	20.17	1.02
2.000	0.62	8.083	1.25	14.167	2.38	20.25	0.68
2.083	0.62	8.167	1.25	14.250	1.70	20.33	0.68
2.167	0.62	8.250	1.48	14.333	1.70	20.42	0.68
2.250	0.74	8.333	1.48	14.417	1.70	20.50	0.68
2.333	0.74	8.417	1.48	14.500	1.70	20.58	0.68
2.417	0.74	8.500	1.48	14.583	1.70	20.67	0.68
2.500	0.74	8.583	1.48	14.667	1.70	20.75	0.68
2.583	0.74	8.667	1.48	14.750	1.70	20.83	0.68
2.667	0.74	8.750	1.59	14.833	1.70	20.92	0.68
2.750	0.74	8.833	1.59	14.917	1.70	21.00	0.68
2.833	0.74	8.917	1.59	15.000	1.70	21.08	0.68
2.917	0.74	9.000	1.59	15.083	1.70	21.17	0.68
3.000	0.74	9.083	1.59	15.167	1.70	21.25	0.68
3.083	0.74	9.167	1.59	15.250	1.70	21.33	0.68
3.167	0.74	9.250	1.82	15.333	1.70	21.42	0.68
3.250	0.74	9.333	1.82	15.417	1.70	21.50	0.68
3.333	0.74	9.417	1.82	15.500	1.70	21.58	0.68
3.417	0.74	9.500	1.82	15.583	1.70	21.67	0.68
3.500	0.74	9.583	1.82	15.667	1.70	21.75	0.68
3.583	0.74	9.667	1.82	15.750	1.70	21.83	0.68
3.667	0.74	9.750	2.04	15.833	1.70	21.92	0.68
3.750	0.74	9.833	2.04	15.917	1.70	22.00	0.68
3.833	0.74	9.917	2.04	16.000	1.70	22.08	0.68
3.917	0.74	10.000	2.04	16.083	1.70	22.17	0.68
4.000	0.74	10.083	2.04	16.167	1.70	22.25	0.68
4.083	0.74	10.167	2.04	16.250	1.02	22.33	0.68
4.167	0.74	10.250	2.61	16.333	1.02	22.42	0.68
4.250	0.91	10.333	2.61	16.417	1.02	22.50	0.68
4.333	0.91	10.417	2.61	16.500	1.02	22.58	0.68
4.417	0.91	10.500	2.61	16.583	1.02	22.67	0.68
4.500	0.91	10.583	2.61	16.667	1.02	22.75	0.68
4.583	0.91	10.667	2.61	16.750	1.02	22.83	0.68
4.667	0.91	10.750	3.52	16.833	1.02	22.92	0.68
4.750	0.91	10.833	3.52	16.917	1.02	23.00	0.68
4.833	0.91	10.917	3.52	17.000	1.02	23.08	0.68
4.917	0.91	11.000	3.52	17.083	1.02	23.17	0.68
5.000	0.91	11.083	3.52	17.167	1.02	23.25	0.68

5.083	0.91	11.167	3.52	17.250	1.02	23.33	0.68
5.167	0.91	11.250	5.45	17.333	1.02	23.42	0.68
5.250	0.91	11.333	5.45	17.417	1.02	23.50	0.68
5.333	0.91	11.417	5.45	17.500	1.02	23.58	0.68
5.417	0.91	11.500	5.45	17.583	1.02	23.67	0.68
5.500	0.91	11.583	5.45	17.667	1.02	23.75	0.68
5.583	0.91	11.667	5.45	17.750	1.02	23.83	0.68
5.667	0.91	11.750	16.79	17.833	1.02	23.92	0.68
5.750	0.91	11.833	16.80	17.917	1.02	24.00	0.68
5.833	0.91	11.917	43.12	18.000	1.02	24.08	0.68
5.917	0.91	12.000	43.12	18.083	1.02	24.17	0.68
6.000	0.91	12.083	69.45	18.167	1.02		
6.083	0.91	12.167	69.45	18.250	1.02		

Unit Hyd Qpeak (cms)= 0.125

PEAK FLOW (cms)= 0.022 (i)
TIME TO PEAK (hrs)= 12.417
RUNOFF VOLUME (mm)= 12.041
TOTAL RAINFALL (mm)= 56.740
RUNOFF COEFFICIENT = 0.212

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

|ADD HYD ( 0017)|
| 1 + 2 = 3 |   AREA  QPEAK  TPEAK  R.V.
              (ha) (cms) (hrs) (mm)
ID1= 1 ( 0010): 0.87 0.006 12.25 3.72
+ ID2= 2 ( 0027): 3.10 0.025 12.33 4.63
=====
ID = 3 ( 0017): 3.97 0.031 12.33 4.43

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NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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|ADD HYD ( 0017)|
| 3 + 2 = 1 |   AREA  QPEAK  TPEAK  R.V.
              (ha) (cms) (hrs) (mm)
ID1= 3 ( 0017): 3.97 0.031 12.33 4.43
+ ID2= 2 ( 0009): 1.11 0.022 12.42 12.04
=====
ID = 1 ( 0017): 5.08 0.052 12.33 6.09

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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|CALIB      |
|NASHYD ( 0028)| Area (ha)= 14.72 Curve Number (CN)= 32.0
|ID= 1 DT= 5.0 min| Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
|-----| U.H. Tp(hrs)= 0.82

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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---- TRANSFORMED HYETOGRAPH ----
TIME RAIN| TIME RAIN|' TIME RAIN| TIME RAIN
hrs mm/hr| hrs mm/hr|' hrs mm/hr| hrs mm/hr
0.083 0.00|6.167 0.91|12.250 8.18|18.33 1.02
0.167 0.00|6.250 1.02|12.333 8.17|18.42 1.02
0.250 0.62|6.333 1.02|12.417 8.17|18.50 1.02
0.333 0.62|6.417 1.02|12.500 8.17|18.58 1.02
0.417 0.62|6.500 1.02|12.583 8.17|18.67 1.02
0.500 0.62|6.583 1.02|12.667 8.17|18.75 1.02
0.583 0.62|6.667 1.02|12.750 4.20|18.83 1.02
0.667 0.62|6.750 1.02|12.833 4.20|18.92 1.02
0.750 0.62|6.833 1.02|12.917 4.20|19.00 1.02
0.833 0.62|6.917 1.02|13.000 4.20|19.08 1.02
0.917 0.62|7.000 1.02|13.083 4.20|19.17 1.02
1.000 0.62|7.083 1.02|13.167 4.20|19.25 1.02

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1.083	0.62	7.167	1.02	13.250	3.06	19.33	1.02
1.167	0.62	7.250	1.25	13.333	3.06	19.42	1.02
1.250	0.62	7.333	1.25	13.417	3.06	19.50	1.02
1.333	0.62	7.417	1.25	13.500	3.06	19.58	1.02
1.417	0.62	7.500	1.25	13.583	3.06	19.67	1.02
1.500	0.62	7.583	1.25	13.667	3.06	19.75	1.02
1.583	0.62	7.667	1.25	13.750	2.38	19.83	1.02
1.667	0.62	7.750	1.25	13.833	2.38	19.92	1.02
1.750	0.62	7.833	1.25	13.917	2.38	20.00	1.02
1.833	0.62	7.917	1.25	14.000	2.38	20.08	1.02
1.917	0.62	8.000	1.25	14.083	2.38	20.17	1.02
2.000	0.62	8.083	1.25	14.167	2.38	20.25	0.68
2.083	0.62	8.167	1.25	14.250	1.70	20.33	0.68
2.167	0.62	8.250	1.48	14.333	1.70	20.42	0.68
2.250	0.74	8.333	1.48	14.417	1.70	20.50	0.68
2.333	0.74	8.417	1.48	14.500	1.70	20.58	0.68
2.417	0.74	8.500	1.48	14.583	1.70	20.67	0.68
2.500	0.74	8.583	1.48	14.667	1.70	20.75	0.68
2.583	0.74	8.667	1.48	14.750	1.70	20.83	0.68
2.667	0.74	8.750	1.59	14.833	1.70	20.92	0.68
2.750	0.74	8.833	1.59	14.917	1.70	21.00	0.68
2.833	0.74	8.917	1.59	15.000	1.70	21.08	0.68
2.917	0.74	9.000	1.59	15.083	1.70	21.17	0.68
3.000	0.74	9.083	1.59	15.167	1.70	21.25	0.68
3.083	0.74	9.167	1.59	15.250	1.70	21.33	0.68
3.167	0.74	9.250	1.82	15.333	1.70	21.42	0.68
3.250	0.74	9.333	1.82	15.417	1.70	21.50	0.68
3.333	0.74	9.417	1.82	15.500	1.70	21.58	0.68
3.417	0.74	9.500	1.82	15.583	1.70	21.67	0.68
3.500	0.74	9.583	1.82	15.667	1.70	21.75	0.68
3.583	0.74	9.667	1.82	15.750	1.70	21.83	0.68
3.667	0.74	9.750	2.04	15.833	1.70	21.92	0.68
3.750	0.74	9.833	2.04	15.917	1.70	22.00	0.68
3.833	0.74	9.917	2.04	16.000	1.70	22.08	0.68
3.917	0.74	10.000	2.04	16.083	1.70	22.17	0.68
4.000	0.74	10.083	2.04	16.167	1.70	22.25	0.68
4.083	0.74	10.167	2.04	16.250	1.02	22.33	0.68
4.167	0.74	10.250	2.61	16.333	1.02	22.42	0.68
4.250	0.91	10.333	2.61	16.417	1.02	22.50	0.68
4.333	0.91	10.417	2.61	16.500	1.02	22.58	0.68
4.417	0.91	10.500	2.61	16.583	1.02	22.67	0.68
4.500	0.91	10.583	2.61	16.667	1.02	22.75	0.68
4.583	0.91	10.667	2.61	16.750	1.02	22.83	0.68
4.667	0.91	10.750	3.52	16.833	1.02	22.92	0.68
4.750	0.91	10.833	3.52	16.917	1.02	23.00	0.68
4.833	0.91	10.917	3.52	17.000	1.02	23.08	0.68
4.917	0.91	11.000	3.52	17.083	1.02	23.17	0.68
5.000	0.91	11.083	3.52	17.167	1.02	23.25	0.68
5.083	0.91	11.167	3.52	17.250	1.02	23.33	0.68
5.167	0.91	11.250	5.45	17.333	1.02	23.42	0.68
5.250	0.91	11.333	5.45	17.417	1.02	23.50	0.68
5.333	0.91	11.417	5.45	17.500	1.02	23.58	0.68
5.417	0.91	11.500	5.45	17.583	1.02	23.67	0.68
5.500	0.91	11.583	5.45	17.667	1.02	23.75	0.68
5.583	0.91	11.667	5.45	17.750	1.02	23.83	0.68
5.667	0.91	11.750	16.79	17.833	1.02	23.92	0.68
5.750	0.91	11.833	16.80	17.917	1.02	24.00	0.68
5.833	0.91	11.917	43.12	18.000	1.02	24.08	0.68
5.917	0.91	12.000	43.12	18.083	1.02	24.17	0.68
6.000	0.91	12.083	69.45	18.167	1.02		
6.083	0.91	12.167	69.45	18.250	1.02		

Unit Hyd Qpeak (cms)= 0.686

PEAK FLOW (cms)= 0.045 (i)

TIME TO PEAK (hrs)= 13.000

RUNOFF VOLUME (mm)= 3.725

TOTAL RAINFALL (mm)= 56.740

RUNOFF COEFFICIENT = 0.066

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0005) | Area (ha)= 9.65 Curve Number (CN)= 32.0
 | ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.71

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	0.91	12.250	8.18	18.33	1.02
0.167	0.00	6.250	1.02	12.333	8.17	18.42	1.02
0.250	0.62	6.333	1.02	12.417	8.17	18.50	1.02
0.333	0.62	6.417	1.02	12.500	8.17	18.58	1.02
0.417	0.62	6.500	1.02	12.583	8.17	18.67	1.02
0.500	0.62	6.583	1.02	12.667	8.17	18.75	1.02
0.583	0.62	6.667	1.02	12.750	4.20	18.83	1.02
0.667	0.62	6.750	1.02	12.833	4.20	18.92	1.02
0.750	0.62	6.833	1.02	12.917	4.20	19.00	1.02
0.833	0.62	6.917	1.02	13.000	4.20	19.08	1.02
0.917	0.62	7.000	1.02	13.083	4.20	19.17	1.02
1.000	0.62	7.083	1.02	13.167	4.20	19.25	1.02
1.083	0.62	7.167	1.02	13.250	3.06	19.33	1.02
1.167	0.62	7.250	1.25	13.333	3.06	19.42	1.02
1.250	0.62	7.333	1.25	13.417	3.06	19.50	1.02
1.333	0.62	7.417	1.25	13.500	3.06	19.58	1.02
1.417	0.62	7.500	1.25	13.583	3.06	19.67	1.02
1.500	0.62	7.583	1.25	13.667	3.06	19.75	1.02
1.583	0.62	7.667	1.25	13.750	2.38	19.83	1.02
1.667	0.62	7.750	1.25	13.833	2.38	19.92	1.02
1.750	0.62	7.833	1.25	13.917	2.38	20.00	1.02
1.833	0.62	7.917	1.25	14.000	2.38	20.08	1.02
1.917	0.62	8.000	1.25	14.083	2.38	20.17	1.02
2.000	0.62	8.083	1.25	14.167	2.38	20.25	0.68
2.083	0.62	8.167	1.25	14.250	1.70	20.33	0.68
2.167	0.62	8.250	1.48	14.333	1.70	20.42	0.68
2.250	0.74	8.333	1.48	14.417	1.70	20.50	0.68
2.333	0.74	8.417	1.48	14.500	1.70	20.58	0.68
2.417	0.74	8.500	1.48	14.583	1.70	20.67	0.68
2.500	0.74	8.583	1.48	14.667	1.70	20.75	0.68
2.583	0.74	8.667	1.48	14.750	1.70	20.83	0.68
2.667	0.74	8.750	1.59	14.833	1.70	20.92	0.68
2.750	0.74	8.833	1.59	14.917	1.70	21.00	0.68
2.833	0.74	8.917	1.59	15.000	1.70	21.08	0.68
2.917	0.74	9.000	1.59	15.083	1.70	21.17	0.68
3.000	0.74	9.083	1.59	15.167	1.70	21.25	0.68
3.083	0.74	9.167	1.59	15.250	1.70	21.33	0.68
3.167	0.74	9.250	1.82	15.333	1.70	21.42	0.68
3.250	0.74	9.333	1.82	15.417	1.70	21.50	0.68
3.333	0.74	9.417	1.82	15.500	1.70	21.58	0.68
3.417	0.74	9.500	1.82	15.583	1.70	21.67	0.68
3.500	0.74	9.583	1.82	15.667	1.70	21.75	0.68
3.583	0.74	9.667	1.82	15.750	1.70	21.83	0.68
3.667	0.74	9.750	2.04	15.833	1.70	21.92	0.68
3.750	0.74	9.833	2.04	15.917	1.70	22.00	0.68
3.833	0.74	9.917	2.04	16.000	1.70	22.08	0.68
3.917	0.74	10.000	2.04	16.083	1.70	22.17	0.68
4.000	0.74	10.083	2.04	16.167	1.70	22.25	0.68
4.083	0.74	10.167	2.04	16.250	1.02	22.33	0.68
4.167	0.74	10.250	2.61	16.333	1.02	22.42	0.68
4.250	0.91	10.333	2.61	16.417	1.02	22.50	0.68
4.333	0.91	10.417	2.61	16.500	1.02	22.58	0.68
4.417	0.91	10.500	2.61	16.583	1.02	22.67	0.68
4.500	0.91	10.583	2.61	16.667	1.02	22.75	0.68
4.583	0.91	10.667	2.61	16.750	1.02	22.83	0.68
4.667	0.91	10.750	3.52	16.833	1.02	22.92	0.68
4.750	0.91	10.833	3.52	16.917	1.02	23.00	0.68
4.833	0.91	10.917	3.52	17.000	1.02	23.08	0.68
4.917	0.91	11.000	3.52	17.083	1.02	23.17	0.68
5.000	0.91	11.083	3.52	17.167	1.02	23.25	0.68
5.083	0.91	11.167	3.52	17.250	1.02	23.33	0.68

5.167	0.91	11.250	5.45	17.333	1.02	23.42	0.68
5.250	0.91	11.333	5.45	17.417	1.02	23.50	0.68
5.333	0.91	11.417	5.45	17.500	1.02	23.58	0.68
5.417	0.91	11.500	5.45	17.583	1.02	23.67	0.68
5.500	0.91	11.583	5.45	17.667	1.02	23.75	0.68
5.583	0.91	11.667	5.45	17.750	1.02	23.83	0.68
5.667	0.91	11.750	16.79	17.833	1.02	23.92	0.68
5.750	0.91	11.833	16.80	17.917	1.02	24.00	0.68
5.833	0.91	11.917	43.12	18.000	1.02	24.08	0.68
5.917	0.91	12.000	43.12	18.083	1.02	24.17	0.68
6.000	0.91	12.083	69.45	18.167	1.02		
6.083	0.91	12.167	69.45	18.250	1.02		

Unit Hyd Qpeak (cms)= 0.519

PEAK FLOW (cms)= 0.032 (i)
TIME TO PEAK (hrs)= 12.917
RUNOFF VOLUME (mm)= 3.725
TOTAL RAINFALL (mm)= 56.740
RUNOFF COEFFICIENT = 0.066

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0008) | Area (ha)= 0.23 Curve Number (CN)= 32.0
| ID= 1 DT= 5.0 min | la (mm)= 10.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.33

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN		TIME	RAIN		TIME	RAIN		TIME	RAIN		TIME	RAIN
hrs	mm/hr		hrs	mm/hr		hrs	mm/hr		hrs	mm/hr		hrs	mm/hr
0.083	0.00		6.167	0.91		12.250	8.18		18.33	1.02			
0.167	0.00		6.250	1.02		12.333	8.17		18.42	1.02			
0.250	0.62		6.333	1.02		12.417	8.17		18.50	1.02			
0.333	0.62		6.417	1.02		12.500	8.17		18.58	1.02			
0.417	0.62		6.500	1.02		12.583	8.17		18.67	1.02			
0.500	0.62		6.583	1.02		12.667	8.17		18.75	1.02			
0.583	0.62		6.667	1.02		12.750	4.20		18.83	1.02			
0.667	0.62		6.750	1.02		12.833	4.20		18.92	1.02			
0.750	0.62		6.833	1.02		12.917	4.20		19.00	1.02			
0.833	0.62		6.917	1.02		13.000	4.20		19.08	1.02			
0.917	0.62		7.000	1.02		13.083	4.20		19.17	1.02			
1.000	0.62		7.083	1.02		13.167	4.20		19.25	1.02			
1.083	0.62		7.167	1.02		13.250	3.06		19.33	1.02			
1.167	0.62		7.250	1.25		13.333	3.06		19.42	1.02			
1.250	0.62		7.333	1.25		13.417	3.06		19.50	1.02			
1.333	0.62		7.417	1.25		13.500	3.06		19.58	1.02			
1.417	0.62		7.500	1.25		13.583	3.06		19.67	1.02			
1.500	0.62		7.583	1.25		13.667	3.06		19.75	1.02			
1.583	0.62		7.667	1.25		13.750	2.38		19.83	1.02			
1.667	0.62		7.750	1.25		13.833	2.38		19.92	1.02			
1.750	0.62		7.833	1.25		13.917	2.38		20.00	1.02			
1.833	0.62		7.917	1.25		14.000	2.38		20.08	1.02			
1.917	0.62		8.000	1.25		14.083	2.38		20.17	1.02			
2.000	0.62		8.083	1.25		14.167	2.38		20.25	0.68			
2.083	0.62		8.167	1.25		14.250	1.70		20.33	0.68			
2.167	0.62		8.250	1.48		14.333	1.70		20.42	0.68			
2.250	0.74		8.333	1.48		14.417	1.70		20.50	0.68			
2.333	0.74		8.417	1.48		14.500	1.70		20.58	0.68			
2.417	0.74		8.500	1.48		14.583	1.70		20.67	0.68			
2.500	0.74		8.583	1.48		14.667	1.70		20.75	0.68			
2.583	0.74		8.667	1.48		14.750	1.70		20.83	0.68			
2.667	0.74		8.750	1.59		14.833	1.70		20.92	0.68			
2.750	0.74		8.833	1.59		14.917	1.70		21.00	0.68			
2.833	0.74		8.917	1.59		15.000	1.70		21.08	0.68			
2.917	0.74		9.000	1.59		15.083	1.70		21.17	0.68			
3.000	0.74		9.083	1.59		15.167	1.70		21.25	0.68			
3.083	0.74		9.167	1.59		15.250	1.70		21.33	0.68			

3.167	0.74		9.250	1.82		15.333	1.70		21.42	0.68
3.250	0.74		9.333	1.82		15.417	1.70		21.50	0.68
3.333	0.74		9.417	1.82		15.500	1.70		21.58	0.68
3.417	0.74		9.500	1.82		15.583	1.70		21.67	0.68
3.500	0.74		9.583	1.82		15.667	1.70		21.75	0.68
3.583	0.74		9.667	1.82		15.750	1.70		21.83	0.68
3.667	0.74		9.750	2.04		15.833	1.70		21.92	0.68
3.750	0.74		9.833	2.04		15.917	1.70		22.00	0.68
3.833	0.74		9.917	2.04		16.000	1.70		22.08	0.68
3.917	0.74		10.000	2.04		16.083	1.70		22.17	0.68
4.000	0.74		10.083	2.04		16.167	1.70		22.25	0.68
4.083	0.74		10.167	2.04		16.250	1.02		22.33	0.68
4.167	0.74		10.250	2.61		16.333	1.02		22.42	0.68
4.250	0.91		10.333	2.61		16.417	1.02		22.50	0.68
4.333	0.91		10.417	2.61		16.500	1.02		22.58	0.68
4.417	0.91		10.500	2.61		16.583	1.02		22.67	0.68
4.500	0.91		10.583	2.61		16.667	1.02		22.75	0.68
4.583	0.91		10.667	2.61		16.750	1.02		22.83	0.68
4.667	0.91		10.750	3.52		16.833	1.02		22.92	0.68
4.750	0.91		10.833	3.52		16.917	1.02		23.00	0.68
4.833	0.91		10.917	3.52		17.000	1.02		23.08	0.68
4.917	0.91		11.000	3.52		17.083	1.02		23.17	0.68
5.000	0.91		11.083	3.52		17.167	1.02		23.25	0.68
5.083	0.91		11.167	3.52		17.250	1.02		23.33	0.68
5.167	0.91		11.250	5.45		17.333	1.02		23.42	0.68
5.250	0.91		11.333	5.45		17.417	1.02		23.50	0.68
5.333	0.91		11.417	5.45		17.500	1.02		23.58	0.68
5.417	0.91		11.500	5.45		17.583	1.02		23.67	0.68
5.500	0.91		11.583	5.45		17.667	1.02		23.75	0.68
5.583	0.91		11.667	5.45		17.750	1.02		23.83	0.68
5.667	0.91		11.750	16.79		17.833	1.02		23.92	0.68
5.750	0.91		11.833	16.80		17.917	1.02		24.00	0.68
5.833	0.91		11.917	43.12		18.000	1.02		24.08	0.68
5.917	0.91		12.000	43.12		18.083	1.02		24.17	0.68
6.000	0.91		12.083	69.45		18.167	1.02			
6.083	0.91		12.167	69.45		18.250	1.02			

Unit Hyd Qpeak (cms)= 0.027

PEAK FLOW (cms)= 0.001 (i)

TIME TO PEAK (hrs)= 12.417

RUNOFF VOLUME (mm)= 3.720

TOTAL RAINFALL (mm)= 56.740

RUNOFF COEFFICIENT = 0.066

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0013) | Area (ha)= 12.11 Curve Number (CN)= 48.1
 | ID= 1 DT= 5.0 min | Ia (mm)= 11.30 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.55

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN			
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr			
0.083	0.00		6.167	0.91		12.250	8.18		18.33	1.02
0.167	0.00		6.250	1.02		12.333	8.17		18.42	1.02
0.250	0.62		6.333	1.02		12.417	8.17		18.50	1.02
0.333	0.62		6.417	1.02		12.500	8.17		18.58	1.02
0.417	0.62		6.500	1.02		12.583	8.17		18.67	1.02
0.500	0.62		6.583	1.02		12.667	8.17		18.75	1.02
0.583	0.62		6.667	1.02		12.750	4.20		18.83	1.02
0.667	0.62		6.750	1.02		12.833	4.20		18.92	1.02
0.750	0.62		6.833	1.02		12.917	4.20		19.00	1.02
0.833	0.62		6.917	1.02		13.000	4.20		19.08	1.02
0.917	0.62		7.000	1.02		13.083	4.20		19.17	1.02
1.000	0.62		7.083	1.02		13.167	4.20		19.25	1.02
1.083	0.62		7.167	1.02		13.250	3.06		19.33	1.02

1.167	0.62	7.250	1.25	13.333	3.06	19.42	1.02
1.250	0.62	7.333	1.25	13.417	3.06	19.50	1.02
1.333	0.62	7.417	1.25	13.500	3.06	19.58	1.02
1.417	0.62	7.500	1.25	13.583	3.06	19.67	1.02
1.500	0.62	7.583	1.25	13.667	3.06	19.75	1.02
1.583	0.62	7.667	1.25	13.750	2.38	19.83	1.02
1.667	0.62	7.750	1.25	13.833	2.38	19.92	1.02
1.750	0.62	7.833	1.25	13.917	2.38	20.00	1.02
1.833	0.62	7.917	1.25	14.000	2.38	20.08	1.02
1.917	0.62	8.000	1.25	14.083	2.38	20.17	1.02
2.000	0.62	8.083	1.25	14.167	2.38	20.25	0.68
2.083	0.62	8.167	1.25	14.250	1.70	20.33	0.68
2.167	0.62	8.250	1.48	14.333	1.70	20.42	0.68
2.250	0.74	8.333	1.48	14.417	1.70	20.50	0.68
2.333	0.74	8.417	1.48	14.500	1.70	20.58	0.68
2.417	0.74	8.500	1.48	14.583	1.70	20.67	0.68
2.500	0.74	8.583	1.48	14.667	1.70	20.75	0.68
2.583	0.74	8.667	1.48	14.750	1.70	20.83	0.68
2.667	0.74	8.750	1.59	14.833	1.70	20.92	0.68
2.750	0.74	8.833	1.59	14.917	1.70	21.00	0.68
2.833	0.74	8.917	1.59	15.000	1.70	21.08	0.68
2.917	0.74	9.000	1.59	15.083	1.70	21.17	0.68
3.000	0.74	9.083	1.59	15.167	1.70	21.25	0.68
3.083	0.74	9.167	1.59	15.250	1.70	21.33	0.68
3.167	0.74	9.250	1.82	15.333	1.70	21.42	0.68
3.250	0.74	9.333	1.82	15.417	1.70	21.50	0.68
3.333	0.74	9.417	1.82	15.500	1.70	21.58	0.68
3.417	0.74	9.500	1.82	15.583	1.70	21.67	0.68
3.500	0.74	9.583	1.82	15.667	1.70	21.75	0.68
3.583	0.74	9.667	1.82	15.750	1.70	21.83	0.68
3.667	0.74	9.750	2.04	15.833	1.70	21.92	0.68
3.750	0.74	9.833	2.04	15.917	1.70	22.00	0.68
3.833	0.74	9.917	2.04	16.000	1.70	22.08	0.68
3.917	0.74	10.000	2.04	16.083	1.70	22.17	0.68
4.000	0.74	10.083	2.04	16.167	1.70	22.25	0.68
4.083	0.74	10.167	2.04	16.250	1.02	22.33	0.68
4.167	0.74	10.250	2.61	16.333	1.02	22.42	0.68
4.250	0.91	10.333	2.61	16.417	1.02	22.50	0.68
4.333	0.91	10.417	2.61	16.500	1.02	22.58	0.68
4.417	0.91	10.500	2.61	16.583	1.02	22.67	0.68
4.500	0.91	10.583	2.61	16.667	1.02	22.75	0.68
4.583	0.91	10.667	2.61	16.750	1.02	22.83	0.68
4.667	0.91	10.750	3.52	16.833	1.02	22.92	0.68
4.750	0.91	10.833	3.52	16.917	1.02	23.00	0.68
4.833	0.91	10.917	3.52	17.000	1.02	23.08	0.68
4.917	0.91	11.000	3.52	17.083	1.02	23.17	0.68
5.000	0.91	11.083	3.52	17.167	1.02	23.25	0.68
5.083	0.91	11.167	3.52	17.250	1.02	23.33	0.68
5.167	0.91	11.250	5.45	17.333	1.02	23.42	0.68
5.250	0.91	11.333	5.45	17.417	1.02	23.50	0.68
5.333	0.91	11.417	5.45	17.500	1.02	23.58	0.68
5.417	0.91	11.500	5.45	17.583	1.02	23.67	0.68
5.500	0.91	11.583	5.45	17.667	1.02	23.75	0.68
5.583	0.91	11.667	5.45	17.750	1.02	23.83	0.68
5.667	0.91	11.750	16.79	17.833	1.02	23.92	0.68
5.750	0.91	11.833	16.80	17.917	1.02	24.00	0.68
5.833	0.91	11.917	43.12	18.000	1.02	24.08	0.68
5.917	0.91	12.000	43.12	18.083	1.02	24.17	0.68
6.000	0.91	12.083	69.45	18.167	1.02		
6.083	0.91	12.167	69.45	18.250	1.02		

Unit Hyd Qpeak (cms)= 0.841

PEAK FLOW (cms)= 0.085 (i)

TIME TO PEAK (hrs)= 12.667

RUNOFF VOLUME (mm)= 6.462

TOTAL RAINFALL (mm)= 56.740

RUNOFF COEFFICIENT = 0.114

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
 | NASHYD (0012) | Area (ha)= 1.60 Curve Number (CN)= 49.7
 | ID= 1 DT= 5.0 min | Ia (mm)= 8.23 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.24

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	0.91	12.250	8.18	18.33	1.02
0.167	0.00	6.250	1.02	12.333	8.17	18.42	1.02
0.250	0.62	6.333	1.02	12.417	8.17	18.50	1.02
0.333	0.62	6.417	1.02	12.500	8.17	18.58	1.02
0.417	0.62	6.500	1.02	12.583	8.17	18.67	1.02
0.500	0.62	6.583	1.02	12.667	8.17	18.75	1.02
0.583	0.62	6.667	1.02	12.750	4.20	18.83	1.02
0.667	0.62	6.750	1.02	12.833	4.20	18.92	1.02
0.750	0.62	6.833	1.02	12.917	4.20	19.00	1.02
0.833	0.62	6.917	1.02	13.000	4.20	19.08	1.02
0.917	0.62	7.000	1.02	13.083	4.20	19.17	1.02
1.000	0.62	7.083	1.02	13.167	4.20	19.25	1.02
1.083	0.62	7.167	1.02	13.250	3.06	19.33	1.02
1.167	0.62	7.250	1.25	13.333	3.06	19.42	1.02
1.250	0.62	7.333	1.25	13.417	3.06	19.50	1.02
1.333	0.62	7.417	1.25	13.500	3.06	19.58	1.02
1.417	0.62	7.500	1.25	13.583	3.06	19.67	1.02
1.500	0.62	7.583	1.25	13.667	3.06	19.75	1.02
1.583	0.62	7.667	1.25	13.750	2.38	19.83	1.02
1.667	0.62	7.750	1.25	13.833	2.38	19.92	1.02
1.750	0.62	7.833	1.25	13.917	2.38	20.00	1.02
1.833	0.62	7.917	1.25	14.000	2.38	20.08	1.02
1.917	0.62	8.000	1.25	14.083	2.38	20.17	1.02
2.000	0.62	8.083	1.25	14.167	2.38	20.25	0.68
2.083	0.62	8.167	1.25	14.250	1.70	20.33	0.68
2.167	0.62	8.250	1.48	14.333	1.70	20.42	0.68
2.250	0.74	8.333	1.48	14.417	1.70	20.50	0.68
2.333	0.74	8.417	1.48	14.500	1.70	20.58	0.68
2.417	0.74	8.500	1.48	14.583	1.70	20.67	0.68
2.500	0.74	8.583	1.48	14.667	1.70	20.75	0.68
2.583	0.74	8.667	1.48	14.750	1.70	20.83	0.68
2.667	0.74	8.750	1.59	14.833	1.70	20.92	0.68
2.750	0.74	8.833	1.59	14.917	1.70	21.00	0.68
2.833	0.74	8.917	1.59	15.000	1.70	21.08	0.68
2.917	0.74	9.000	1.59	15.083	1.70	21.17	0.68
3.000	0.74	9.083	1.59	15.167	1.70	21.25	0.68
3.083	0.74	9.167	1.59	15.250	1.70	21.33	0.68
3.167	0.74	9.250	1.82	15.333	1.70	21.42	0.68
3.250	0.74	9.333	1.82	15.417	1.70	21.50	0.68
3.333	0.74	9.417	1.82	15.500	1.70	21.58	0.68
3.417	0.74	9.500	1.82	15.583	1.70	21.67	0.68
3.500	0.74	9.583	1.82	15.667	1.70	21.75	0.68
3.583	0.74	9.667	1.82	15.750	1.70	21.83	0.68
3.667	0.74	9.750	2.04	15.833	1.70	21.92	0.68
3.750	0.74	9.833	2.04	15.917	1.70	22.00	0.68
3.833	0.74	9.917	2.04	16.000	1.70	22.08	0.68
3.917	0.74	10.000	2.04	16.083	1.70	22.17	0.68
4.000	0.74	10.083	2.04	16.167	1.70	22.25	0.68
4.083	0.74	10.167	2.04	16.250	1.02	22.33	0.68
4.167	0.74	10.250	2.61	16.333	1.02	22.42	0.68
4.250	0.91	10.333	2.61	16.417	1.02	22.50	0.68
4.333	0.91	10.417	2.61	16.500	1.02	22.58	0.68
4.417	0.91	10.500	2.61	16.583	1.02	22.67	0.68
4.500	0.91	10.583	2.61	16.667	1.02	22.75	0.68
4.583	0.91	10.667	2.61	16.750	1.02	22.83	0.68
4.667	0.91	10.750	3.52	16.833	1.02	22.92	0.68
4.750	0.91	10.833	3.52	16.917	1.02	23.00	0.68
4.833	0.91	10.917	3.52	17.000	1.02	23.08	0.68
4.917	0.91	11.000	3.52	17.083	1.02	23.17	0.68
5.000	0.91	11.083	3.52	17.167	1.02	23.25	0.68
5.083	0.91	11.167	3.52	17.250	1.02	23.33	0.68
5.167	0.91	11.250	5.45	17.333	1.02	23.42	0.68

5.250	0.91	11.333	5.45	17.417	1.02	23.50	0.68
5.333	0.91	11.417	5.45	17.500	1.02	23.58	0.68
5.417	0.91	11.500	5.45	17.583	1.02	23.67	0.68
5.500	0.91	11.583	5.45	17.667	1.02	23.75	0.68
5.583	0.91	11.667	5.45	17.750	1.02	23.83	0.68
5.667	0.91	11.750	16.79	17.833	1.02	23.92	0.68
5.750	0.91	11.833	16.80	17.917	1.02	24.00	0.68
5.833	0.91	11.917	43.12	18.000	1.02	24.08	0.68
5.917	0.91	12.000	43.12	18.083	1.02	24.17	0.68
6.000	0.91	12.083	69.45	18.167	1.02		
6.083	0.91	12.167	69.45	18.250	1.02		

Unit Hyd Qpeak (cms)= 0.255

PEAK FLOW (cms)= 0.025 (i)
TIME TO PEAK (hrs)= 12.250
RUNOFF VOLUME (mm)= 7.693
TOTAL RAINFALL (mm)= 56.740
RUNOFF COEFFICIENT = 0.136

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0007) | Area (ha)= 1.70 Curve Number (CN)= 62.0
| ID= 1 DT= 5.0 min | Ia (mm)= 7.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.43

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	0.91	12.250	8.18	18.33	1.02
0.167	0.00	6.250	1.02	12.333	8.17	18.42	1.02
0.250	0.62	6.333	1.02	12.417	8.17	18.50	1.02
0.333	0.62	6.417	1.02	12.500	8.17	18.58	1.02
0.417	0.62	6.500	1.02	12.583	8.17	18.67	1.02
0.500	0.62	6.583	1.02	12.667	8.17	18.75	1.02
0.583	0.62	6.667	1.02	12.750	4.20	18.83	1.02
0.667	0.62	6.750	1.02	12.833	4.20	18.92	1.02
0.750	0.62	6.833	1.02	12.917	4.20	19.00	1.02
0.833	0.62	6.917	1.02	13.000	4.20	19.08	1.02
0.917	0.62	7.000	1.02	13.083	4.20	19.17	1.02
1.000	0.62	7.083	1.02	13.167	4.20	19.25	1.02
1.083	0.62	7.167	1.02	13.250	3.06	19.33	1.02
1.167	0.62	7.250	1.25	13.333	3.06	19.42	1.02
1.250	0.62	7.333	1.25	13.417	3.06	19.50	1.02
1.333	0.62	7.417	1.25	13.500	3.06	19.58	1.02
1.417	0.62	7.500	1.25	13.583	3.06	19.67	1.02
1.500	0.62	7.583	1.25	13.667	3.06	19.75	1.02
1.583	0.62	7.667	1.25	13.750	2.38	19.83	1.02
1.667	0.62	7.750	1.25	13.833	2.38	19.92	1.02
1.750	0.62	7.833	1.25	13.917	2.38	20.00	1.02
1.833	0.62	7.917	1.25	14.000	2.38	20.08	1.02
1.917	0.62	8.000	1.25	14.083	2.38	20.17	1.02
2.000	0.62	8.083	1.25	14.167	2.38	20.25	0.68
2.083	0.62	8.167	1.25	14.250	1.70	20.33	0.68
2.167	0.62	8.250	1.48	14.333	1.70	20.42	0.68
2.250	0.74	8.333	1.48	14.417	1.70	20.50	0.68
2.333	0.74	8.417	1.48	14.500	1.70	20.58	0.68
2.417	0.74	8.500	1.48	14.583	1.70	20.67	0.68
2.500	0.74	8.583	1.48	14.667	1.70	20.75	0.68
2.583	0.74	8.667	1.48	14.750	1.70	20.83	0.68
2.667	0.74	8.750	1.59	14.833	1.70	20.92	0.68
2.750	0.74	8.833	1.59	14.917	1.70	21.00	0.68
2.833	0.74	8.917	1.59	15.000	1.70	21.08	0.68
2.917	0.74	9.000	1.59	15.083	1.70	21.17	0.68
3.000	0.74	9.083	1.59	15.167	1.70	21.25	0.68
3.083	0.74	9.167	1.59	15.250	1.70	21.33	0.68
3.167	0.74	9.250	1.82	15.333	1.70	21.42	0.68

3.250	0.74	9.333	1.82	15.417	1.70	21.50	0.68
3.333	0.74	9.417	1.82	15.500	1.70	21.58	0.68
3.417	0.74	9.500	1.82	15.583	1.70	21.67	0.68
3.500	0.74	9.583	1.82	15.667	1.70	21.75	0.68
3.583	0.74	9.667	1.82	15.750	1.70	21.83	0.68
3.667	0.74	9.750	2.04	15.833	1.70	21.92	0.68
3.750	0.74	9.833	2.04	15.917	1.70	22.00	0.68
3.833	0.74	9.917	2.04	16.000	1.70	22.08	0.68
3.917	0.74	10.000	2.04	16.083	1.70	22.17	0.68
4.000	0.74	10.083	2.04	16.167	1.70	22.25	0.68
4.083	0.74	10.167	2.04	16.250	1.02	22.33	0.68
4.167	0.74	10.250	2.61	16.333	1.02	22.42	0.68
4.250	0.91	10.333	2.61	16.417	1.02	22.50	0.68
4.333	0.91	10.417	2.61	16.500	1.02	22.58	0.68
4.417	0.91	10.500	2.61	16.583	1.02	22.67	0.68
4.500	0.91	10.583	2.61	16.667	1.02	22.75	0.68
4.583	0.91	10.667	2.61	16.750	1.02	22.83	0.68
4.667	0.91	10.750	3.52	16.833	1.02	22.92	0.68
4.750	0.91	10.833	3.52	16.917	1.02	23.00	0.68
4.833	0.91	10.917	3.52	17.000	1.02	23.08	0.68
4.917	0.91	11.000	3.52	17.083	1.02	23.17	0.68
5.000	0.91	11.083	3.52	17.167	1.02	23.25	0.68
5.083	0.91	11.167	3.52	17.250	1.02	23.33	0.68
5.167	0.91	11.250	5.45	17.333	1.02	23.42	0.68
5.250	0.91	11.333	5.45	17.417	1.02	23.50	0.68
5.333	0.91	11.417	5.45	17.500	1.02	23.58	0.68
5.417	0.91	11.500	5.45	17.583	1.02	23.67	0.68
5.500	0.91	11.583	5.45	17.667	1.02	23.75	0.68
5.583	0.91	11.667	5.45	17.750	1.02	23.83	0.68
5.667	0.91	11.750	16.79	17.833	1.02	23.92	0.68
5.750	0.91	11.833	16.80	17.917	1.02	24.00	0.68
5.833	0.91	11.917	43.12	18.000	1.02	24.08	0.68
5.917	0.91	12.000	43.12	18.083	1.02	24.17	0.68
6.000	0.91	12.083	69.45	18.167	1.02		
6.083	0.91	12.167	69.45	18.250	1.02		

Unit Hyd Qpeak (cms)= 0.151

PEAK FLOW (cms)= 0.028 (i)

TIME TO PEAK (hrs)= 12.500

RUNOFF VOLUME (mm)= 12.042

TOTAL RAINFALL (mm)= 56.740

RUNOFF COEFFICIENT = 0.212

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0006) | Area (ha)= 1.82 Curve Number (CN)= 32.0
| ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.30

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN		TIME	RAIN		TIME	RAIN		TIME	RAIN
hrs	mm/hr		hrs	mm/hr		hrs	mm/hr		hrs	mm/hr
0.083	0.00		6.167	0.91		12.250	8.18		18.33	1.02
0.167	0.00		6.250	1.02		12.333	8.17		18.42	1.02
0.250	0.62		6.333	1.02		12.417	8.17		18.50	1.02
0.333	0.62		6.417	1.02		12.500	8.17		18.58	1.02
0.417	0.62		6.500	1.02		12.583	8.17		18.67	1.02
0.500	0.62		6.583	1.02		12.667	8.17		18.75	1.02
0.583	0.62		6.667	1.02		12.750	4.20		18.83	1.02
0.667	0.62		6.750	1.02		12.833	4.20		18.92	1.02
0.750	0.62		6.833	1.02		12.917	4.20		19.00	1.02
0.833	0.62		6.917	1.02		13.000	4.20		19.08	1.02
0.917	0.62		7.000	1.02		13.083	4.20		19.17	1.02
1.000	0.62		7.083	1.02		13.167	4.20		19.25	1.02
1.083	0.62		7.167	1.02		13.250	3.06		19.33	1.02
1.167	0.62		7.250	1.25		13.333	3.06		19.42	1.02

1.250	0.62	7.333	1.25	13.417	3.06	19.50	1.02
1.333	0.62	7.417	1.25	13.500	3.06	19.58	1.02
1.417	0.62	7.500	1.25	13.583	3.06	19.67	1.02
1.500	0.62	7.583	1.25	13.667	3.06	19.75	1.02
1.583	0.62	7.667	1.25	13.750	2.38	19.83	1.02
1.667	0.62	7.750	1.25	13.833	2.38	19.92	1.02
1.750	0.62	7.833	1.25	13.917	2.38	20.00	1.02
1.833	0.62	7.917	1.25	14.000	2.38	20.08	1.02
1.917	0.62	8.000	1.25	14.083	2.38	20.17	1.02
2.000	0.62	8.083	1.25	14.167	2.38	20.25	0.68
2.083	0.62	8.167	1.25	14.250	1.70	20.33	0.68
2.167	0.62	8.250	1.48	14.333	1.70	20.42	0.68
2.250	0.74	8.333	1.48	14.417	1.70	20.50	0.68
2.333	0.74	8.417	1.48	14.500	1.70	20.58	0.68
2.417	0.74	8.500	1.48	14.583	1.70	20.67	0.68
2.500	0.74	8.583	1.48	14.667	1.70	20.75	0.68
2.583	0.74	8.667	1.48	14.750	1.70	20.83	0.68
2.667	0.74	8.750	1.59	14.833	1.70	20.92	0.68
2.750	0.74	8.833	1.59	14.917	1.70	21.00	0.68
2.833	0.74	8.917	1.59	15.000	1.70	21.08	0.68
2.917	0.74	9.000	1.59	15.083	1.70	21.17	0.68
3.000	0.74	9.083	1.59	15.167	1.70	21.25	0.68
3.083	0.74	9.167	1.59	15.250	1.70	21.33	0.68
3.167	0.74	9.250	1.82	15.333	1.70	21.42	0.68
3.250	0.74	9.333	1.82	15.417	1.70	21.50	0.68
3.333	0.74	9.417	1.82	15.500	1.70	21.58	0.68
3.417	0.74	9.500	1.82	15.583	1.70	21.67	0.68
3.500	0.74	9.583	1.82	15.667	1.70	21.75	0.68
3.583	0.74	9.667	1.82	15.750	1.70	21.83	0.68
3.667	0.74	9.750	2.04	15.833	1.70	21.92	0.68
3.750	0.74	9.833	2.04	15.917	1.70	22.00	0.68
3.833	0.74	9.917	2.04	16.000	1.70	22.08	0.68
3.917	0.74	10.000	2.04	16.083	1.70	22.17	0.68
4.000	0.74	10.083	2.04	16.167	1.70	22.25	0.68
4.083	0.74	10.167	2.04	16.250	1.02	22.33	0.68
4.167	0.74	10.250	2.61	16.333	1.02	22.42	0.68
4.250	0.91	10.333	2.61	16.417	1.02	22.50	0.68
4.333	0.91	10.417	2.61	16.500	1.02	22.58	0.68
4.417	0.91	10.500	2.61	16.583	1.02	22.67	0.68
4.500	0.91	10.583	2.61	16.667	1.02	22.75	0.68
4.583	0.91	10.667	2.61	16.750	1.02	22.83	0.68
4.667	0.91	10.750	3.52	16.833	1.02	22.92	0.68
4.750	0.91	10.833	3.52	16.917	1.02	23.00	0.68
4.833	0.91	10.917	3.52	17.000	1.02	23.08	0.68
4.917	0.91	11.000	3.52	17.083	1.02	23.17	0.68
5.000	0.91	11.083	3.52	17.167	1.02	23.25	0.68
5.083	0.91	11.167	3.52	17.250	1.02	23.33	0.68
5.167	0.91	11.250	5.45	17.333	1.02	23.42	0.68
5.250	0.91	11.333	5.45	17.417	1.02	23.50	0.68
5.333	0.91	11.417	5.45	17.500	1.02	23.58	0.68
5.417	0.91	11.500	5.45	17.583	1.02	23.67	0.68
5.500	0.91	11.583	5.45	17.667	1.02	23.75	0.68
5.583	0.91	11.667	5.45	17.750	1.02	23.83	0.68
5.667	0.91	11.750	16.79	17.833	1.02	23.92	0.68
5.750	0.91	11.833	16.80	17.917	1.02	24.00	0.68
5.833	0.91	11.917	43.12	18.000	1.02	24.08	0.68
5.917	0.91	12.000	43.12	18.083	1.02	24.17	0.68
6.000	0.91	12.083	69.45	18.167	1.02		
6.083	0.91	12.167	69.45	18.250	1.02		

Unit Hyd Qpeak (cms)= 0.232

PEAK FLOW (cms)= 0.011 (i)

TIME TO PEAK (hrs)= 12.333

RUNOFF VOLUME (mm)= 3.723

TOTAL RAINFALL (mm)= 56.740

RUNOFF COEFFICIENT = 0.066

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

|STANDHYD (0020)| Area (ha)= 3.73
 |ID= 1 DT= 5.0 min | Total Imp(%)= 47.13 Dir. Conn.(%)= 36.26

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	1.76	1.97
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	1.00	2.00
Length	(m)=	56.00	32.50
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	0.91	12.250	8.18	18.33	1.02
0.167	0.00	6.250	1.02	12.333	8.17	18.42	1.02
0.250	0.62	6.333	1.02	12.417	8.17	18.50	1.02
0.333	0.62	6.417	1.02	12.500	8.17	18.58	1.02
0.417	0.62	6.500	1.02	12.583	8.17	18.67	1.02
0.500	0.62	6.583	1.02	12.667	8.17	18.75	1.02
0.583	0.62	6.667	1.02	12.750	4.20	18.83	1.02
0.667	0.62	6.750	1.02	12.833	4.20	18.92	1.02
0.750	0.62	6.833	1.02	12.917	4.20	19.00	1.02
0.833	0.62	6.917	1.02	13.000	4.20	19.08	1.02
0.917	0.62	7.000	1.02	13.083	4.20	19.17	1.02
1.000	0.62	7.083	1.02	13.167	4.20	19.25	1.02
1.083	0.62	7.167	1.02	13.250	3.06	19.33	1.02
1.167	0.62	7.250	1.25	13.333	3.06	19.42	1.02
1.250	0.62	7.333	1.25	13.417	3.06	19.50	1.02
1.333	0.62	7.417	1.25	13.500	3.06	19.58	1.02
1.417	0.62	7.500	1.25	13.583	3.06	19.67	1.02
1.500	0.62	7.583	1.25	13.667	3.06	19.75	1.02
1.583	0.62	7.667	1.25	13.750	2.38	19.83	1.02
1.667	0.62	7.750	1.25	13.833	2.38	19.92	1.02
1.750	0.62	7.833	1.25	13.917	2.38	20.00	1.02
1.833	0.62	7.917	1.25	14.000	2.38	20.08	1.02
1.917	0.62	8.000	1.25	14.083	2.38	20.17	1.02
2.000	0.62	8.083	1.25	14.167	2.38	20.25	0.68
2.083	0.62	8.167	1.25	14.250	1.70	20.33	0.68
2.167	0.62	8.250	1.48	14.333	1.70	20.42	0.68
2.250	0.74	8.333	1.48	14.417	1.70	20.50	0.68
2.333	0.74	8.417	1.48	14.500	1.70	20.58	0.68
2.417	0.74	8.500	1.48	14.583	1.70	20.67	0.68
2.500	0.74	8.583	1.48	14.667	1.70	20.75	0.68
2.583	0.74	8.667	1.48	14.750	1.70	20.83	0.68
2.667	0.74	8.750	1.59	14.833	1.70	20.92	0.68
2.750	0.74	8.833	1.59	14.917	1.70	21.00	0.68
2.833	0.74	8.917	1.59	15.000	1.70	21.08	0.68
2.917	0.74	9.000	1.59	15.083	1.70	21.17	0.68
3.000	0.74	9.083	1.59	15.167	1.70	21.25	0.68
3.083	0.74	9.167	1.59	15.250	1.70	21.33	0.68
3.167	0.74	9.250	1.82	15.333	1.70	21.42	0.68
3.250	0.74	9.333	1.82	15.417	1.70	21.50	0.68
3.333	0.74	9.417	1.82	15.500	1.70	21.58	0.68
3.417	0.74	9.500	1.82	15.583	1.70	21.67	0.68
3.500	0.74	9.583	1.82	15.667	1.70	21.75	0.68
3.583	0.74	9.667	1.82	15.750	1.70	21.83	0.68
3.667	0.74	9.750	2.04	15.833	1.70	21.92	0.68
3.750	0.74	9.833	2.04	15.917	1.70	22.00	0.68
3.833	0.74	9.917	2.04	16.000	1.70	22.08	0.68
3.917	0.74	10.000	2.04	16.083	1.70	22.17	0.68
4.000	0.74	10.083	2.04	16.167	1.70	22.25	0.68
4.083	0.74	10.167	2.04	16.250	1.02	22.33	0.68
4.167	0.74	10.250	2.61	16.333	1.02	22.42	0.68
4.250	0.91	10.333	2.61	16.417	1.02	22.50	0.68
4.333	0.91	10.417	2.61	16.500	1.02	22.58	0.68
4.417	0.91	10.500	2.61	16.583	1.02	22.67	0.68
4.500	0.91	10.583	2.61	16.667	1.02	22.75	0.68
4.583	0.91	10.667	2.61	16.750	1.02	22.83	0.68
4.667	0.91	10.750	3.52	16.833	1.02	22.92	0.68
4.750	0.91	10.833	3.52	16.917	1.02	23.00	0.68

4.833	0.91	10.917	3.52	17.000	1.02	23.08	0.68
4.917	0.91	11.000	3.52	17.083	1.02	23.17	0.68
5.000	0.91	11.083	3.52	17.167	1.02	23.25	0.68
5.083	0.91	11.167	3.52	17.250	1.02	23.33	0.68
5.167	0.91	11.250	5.45	17.333	1.02	23.42	0.68
5.250	0.91	11.333	5.45	17.417	1.02	23.50	0.68
5.333	0.91	11.417	5.45	17.500	1.02	23.58	0.68
5.417	0.91	11.500	5.45	17.583	1.02	23.67	0.68
5.500	0.91	11.583	5.45	17.667	1.02	23.75	0.68
5.583	0.91	11.667	5.45	17.750	1.02	23.83	0.68
5.667	0.91	11.750	16.79	17.833	1.02	23.92	0.68
5.750	0.91	11.833	16.80	17.917	1.02	24.00	0.68
5.833	0.91	11.917	43.12	18.000	1.02	24.08	0.68
5.917	0.91	12.000	43.12	18.083	1.02	24.17	0.68
6.000	0.91	12.083	69.45	18.167	1.02		
6.083	0.91	12.167	69.45	18.250	1.02		

Max.Eff.Inten.(mm/hr)=	69.45	14.58
over (min)	5.00	20.00
Storage Coeff. (min)=	2.09 (ii)	15.55 (ii)
Unit Hyd. Tpeak (min)=	5.00	20.00
Unit Hyd. peak (cms)=	0.31	0.07
TOTALS		
PEAK FLOW (cms)=	0.26	0.05 0.292 (iii)
TIME TO PEAK (hrs)=	12.17	12.33 12.17
RUNOFF VOLUME (mm)=	54.74	10.17 26.33
TOTAL RAINFALL (mm)=	56.74	56.74 56.74
RUNOFF COEFFICIENT =	0.96	0.18 0.46

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 49.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0026)| OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE
----- (cms) (ha.m.) | (cms) (ha.m.)
0.0000 0.0000 | 0.0240 0.1740
0.0030 0.0310 | 0.0270 0.1880
0.0050 0.0640 | 0.0310 0.2150
0.0060 0.0990 | 0.0370 0.2560
0.0080 0.1360 | 0.0000 0.0000

AREA	QPEAK	TPEAK	R.V.
(ha)	(cms)	(hrs)	(mm)
INFLOW: ID= 2 (0020)	3.730	0.292	12.17 26.33
OUTFLOW: ID= 1 (0026)	3.730	0.005	20.25 25.63

PEAK FLOW REDUCTION [Qout/Qin](%)= 1.82
TIME SHIFT OF PEAK FLOW (min)=485.00
MAXIMUM STORAGE USED (ha.m.)= 0.0748

| CALIB |
| STANDHYD (0021)| Area (ha)= 2.16
| ID= 1 DT= 5.0 min | Total Imp(%)= 41.54 Dir. Conn.(%)= 31.77

IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.90 1.26
Dep. Storage (mm)=	2.00 5.00
Average Slope (%)=	1.20 2.00
Length (m)=	64.00 33.00
Mannings n =	0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	0.91	12.250	8.18	18.33	1.02
0.167	0.00	6.250	1.02	12.333	8.17	18.42	1.02
0.250	0.62	6.333	1.02	12.417	8.17	18.50	1.02
0.333	0.62	6.417	1.02	12.500	8.17	18.58	1.02
0.417	0.62	6.500	1.02	12.583	8.17	18.67	1.02
0.500	0.62	6.583	1.02	12.667	8.17	18.75	1.02
0.583	0.62	6.667	1.02	12.750	4.20	18.83	1.02
0.667	0.62	6.750	1.02	12.833	4.20	18.92	1.02
0.750	0.62	6.833	1.02	12.917	4.20	19.00	1.02
0.833	0.62	6.917	1.02	13.000	4.20	19.08	1.02
0.917	0.62	7.000	1.02	13.083	4.20	19.17	1.02
1.000	0.62	7.083	1.02	13.167	4.20	19.25	1.02
1.083	0.62	7.167	1.02	13.250	3.06	19.33	1.02
1.167	0.62	7.250	1.25	13.333	3.06	19.42	1.02
1.250	0.62	7.333	1.25	13.417	3.06	19.50	1.02
1.333	0.62	7.417	1.25	13.500	3.06	19.58	1.02
1.417	0.62	7.500	1.25	13.583	3.06	19.67	1.02
1.500	0.62	7.583	1.25	13.667	3.06	19.75	1.02
1.583	0.62	7.667	1.25	13.750	2.38	19.83	1.02
1.667	0.62	7.750	1.25	13.833	2.38	19.92	1.02
1.750	0.62	7.833	1.25	13.917	2.38	20.00	1.02
1.833	0.62	7.917	1.25	14.000	2.38	20.08	1.02
1.917	0.62	8.000	1.25	14.083	2.38	20.17	1.02
2.000	0.62	8.083	1.25	14.167	2.38	20.25	0.68
2.083	0.62	8.167	1.25	14.250	1.70	20.33	0.68
2.167	0.62	8.250	1.48	14.333	1.70	20.42	0.68
2.250	0.74	8.333	1.48	14.417	1.70	20.50	0.68
2.333	0.74	8.417	1.48	14.500	1.70	20.58	0.68
2.417	0.74	8.500	1.48	14.583	1.70	20.67	0.68
2.500	0.74	8.583	1.48	14.667	1.70	20.75	0.68
2.583	0.74	8.667	1.48	14.750	1.70	20.83	0.68
2.667	0.74	8.750	1.59	14.833	1.70	20.92	0.68
2.750	0.74	8.833	1.59	14.917	1.70	21.00	0.68
2.833	0.74	8.917	1.59	15.000	1.70	21.08	0.68
2.917	0.74	9.000	1.59	15.083	1.70	21.17	0.68
3.000	0.74	9.083	1.59	15.167	1.70	21.25	0.68
3.083	0.74	9.167	1.59	15.250	1.70	21.33	0.68
3.167	0.74	9.250	1.82	15.333	1.70	21.42	0.68
3.250	0.74	9.333	1.82	15.417	1.70	21.50	0.68
3.333	0.74	9.417	1.82	15.500	1.70	21.58	0.68
3.417	0.74	9.500	1.82	15.583	1.70	21.67	0.68
3.500	0.74	9.583	1.82	15.667	1.70	21.75	0.68
3.583	0.74	9.667	1.82	15.750	1.70	21.83	0.68
3.667	0.74	9.750	2.04	15.833	1.70	21.92	0.68
3.750	0.74	9.833	2.04	15.917	1.70	22.00	0.68
3.833	0.74	9.917	2.04	16.000	1.70	22.08	0.68
3.917	0.74	10.000	2.04	16.083	1.70	22.17	0.68
4.000	0.74	10.083	2.04	16.167	1.70	22.25	0.68
4.083	0.74	10.167	2.04	16.250	1.02	22.33	0.68
4.167	0.74	10.250	2.61	16.333	1.02	22.42	0.68
4.250	0.91	10.333	2.61	16.417	1.02	22.50	0.68
4.333	0.91	10.417	2.61	16.500	1.02	22.58	0.68
4.417	0.91	10.500	2.61	16.583	1.02	22.67	0.68
4.500	0.91	10.583	2.61	16.667	1.02	22.75	0.68
4.583	0.91	10.667	2.61	16.750	1.02	22.83	0.68
4.667	0.91	10.750	3.52	16.833	1.02	22.92	0.68
4.750	0.91	10.833	3.52	16.917	1.02	23.00	0.68
4.833	0.91	10.917	3.52	17.000	1.02	23.08	0.68
4.917	0.91	11.000	3.52	17.083	1.02	23.17	0.68
5.000	0.91	11.083	3.52	17.167	1.02	23.25	0.68
5.083	0.91	11.167	3.52	17.250	1.02	23.33	0.68
5.167	0.91	11.250	5.45	17.333	1.02	23.42	0.68
5.250	0.91	11.333	5.45	17.417	1.02	23.50	0.68
5.333	0.91	11.417	5.45	17.500	1.02	23.58	0.68
5.417	0.91	11.500	5.45	17.583	1.02	23.67	0.68
5.500	0.91	11.583	5.45	17.667	1.02	23.75	0.68
5.583	0.91	11.667	5.45	17.750	1.02	23.83	0.68
5.667	0.91	11.750	16.79	17.833	1.02	23.92	0.68
5.750	0.91	11.833	16.80	17.917	1.02	24.00	0.68

5.833 0.91 |11.917 43.12 |18.000 1.02 |24.08 0.68
5.917 0.91 |12.000 43.12 |18.083 1.02 |24.17 0.68
6.000 0.91 |12.083 69.45 |18.167 1.02 |
6.083 0.91 |12.167 69.45 |18.250 1.02 |

Max.Eff.Inten.(mm/hr)= 69.45 13.67
over (min) 5.00 20.00
Storage Coeff. (min)= 2.14 (ii) 16.08 (ii)
Unit Hyd. Tpeak (min)= 5.00 20.00
Unit Hyd. peak (cms)= 0.31 0.06
TOTALS
PEAK FLOW (cms)= 0.13 0.03 0.151 (iii)
TIME TO PEAK (hrs)= 12.17 12.33 12.17
RUNOFF VOLUME (mm)= 54.74 9.86 24.12
TOTAL RAINFALL (mm)= 56.74 56.74 56.74
RUNOFF COEFFICIENT = 0.96 0.17 0.43

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 49.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0025)| OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE
----- (cms) (ha.m.) | (cms) (ha.m.)
0.0000 0.0000 | 0.0300 0.0570
0.0010 0.0070 | 0.0340 0.0670
0.0020 0.0140 | 0.0380 0.0780
0.0020 0.0210 | 0.0400 0.0870
0.0020 0.0230 | 0.0410 0.0890
0.0020 0.0300 | 0.0440 0.1010
0.0180 0.0380 | 0.0470 0.1120
0.0240 0.0470 | 0.0000 0.0000

AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)
INFLOW: ID= 2 (0021) 2.160 0.151 12.17 24.12
OUTFLOW: ID= 1 (0025) 2.160 0.009 13.75 23.30

PEAK FLOW REDUCTION [Qout/Qin](%)= 6.12
TIME SHIFT OF PEAK FLOW (min)= 95.00
MAXIMUM STORAGE USED (ha.m.)= 0.0336

| ADD HYD (0019)|
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 1 (0012): 1.60 0.025 12.25 7.69
+ ID2= 2 (0013): 12.11 0.085 12.67 6.46
=====

ID = 3 (0019): 13.71 0.098 12.58 6.61

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 3 (0019): 13.71 0.098 12.58 6.61
+ ID2= 2 (0017): 5.08 0.052 12.33 6.09
=====

ID = 1 (0019): 18.79 0.145 12.42 6.47

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 1 (0019): 18.79 0.145 12.42 6.47
+ ID2= 2 (0023): 3.32 0.007 16.25 21.60
=====

ID = 3 (0019): 22.11 0.148 12.42 8.74

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 3 (0019): 22.11 0.148 12.42 8.74
+ ID2= 2 (0025): 2.16 0.009 13.75 23.30
=====

ID = 1 (0019): 24.27 0.150 12.42 10.03

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 1 (0019): 24.27 0.150 12.42 10.03
+ ID2= 2 (0026): 3.73 0.005 20.25 25.63
=====

ID = 3 (0019): 28.00 0.154 12.42 12.11

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 3 (0019): 28.00 0.154 12.42 12.11
+ ID2= 2 (0028): 14.72 0.045 13.00 3.72
=====

ID = 1 (0019): 42.72 0.186 12.58 9.22

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 1 (0019): 42.72 0.186 12.58 9.22
+ ID2= 2 (0005): 9.65 0.032 12.92 3.72
=====

ID = 3 (0019): 52.37 0.215 12.67 8.21

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 3 (0019): 52.37 0.215 12.67 8.21
+ ID2= 2 (0006): 1.82 0.011 12.33 3.72
=====

ID = 1 (0019): 54.19 0.223 12.67 8.06

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 1 (0019): 54.19 0.223 12.67 8.06
+ ID2= 2 (0007): 1.70 0.028 12.50 12.04
=====

ID = 3 (0019): 55.89 0.251 12.58 8.18

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 3 (0019): 55.89 0.251 12.58 8.18
+ ID2= 2 (0008): 0.23 0.001 12.42 3.72
=====

ID = 1 (0019): 56.12 0.252 12.58 8.16

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

=====

V V I SSSSS U U A L (v 6.2.2015)
V V I SS U U AA L
V V I SS U U AAAAA L
V V I SS U U A A L
VV I SSSSS UUUUU A A LLLLL

OOO TTTT TTTT H H Y Y M M OOO TM
O O T T H H Y Y MM MM O O
O O T T H H Y M M O O
OOO T T H H Y M M OOO

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***** DETAILED OUTPUT *****

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.2\VO2\voin.dat
Output filename: C:\Users\ajoshi\AppData\Local\Civica\XH5\152aa03f-7064-4fdb-bb4c-0cf677e1e463\af78831a-48ba-44f0-bdc1-dc4214024c6a\scena
Summary filename: C:\Users\ajoshi\AppData\Local\Civica\XH5\152aa03f-7064-4fdb-bb4c-0cf677e1e463\af78831a-48ba-44f0-bdc1-dc4214024c6a\scena

DATE: 04-25-2025 TIME: 04:08:39

USER:

COMMENTS: _____

** SIMULATION : 50yr 24hr 10min SCS Type II (**

| READ STORM | Filename: C:\Users\ajoshi\AppData
| | ata\Local\Temp\
| | 7bb2ef64-4018-4f05-a7fd-fa3d49c20288\eb172049
| Ptotal=118.95 mm | Comments: 50yr 24hr 10min SCS Type II (MTO)

TIME RAIN | TIME RAIN |' TIME RAIN | TIME RAIN
hrs mm/hr | hrs mm/hr |' hrs mm/hr | hrs mm/hr
0.00 0.00 | 6.17 2.14 | 12.33 17.13 | 18.50 2.14

0.17	1.31	6.33	2.14	12.50	17.13	18.67	2.14
0.33	1.31	6.50	2.14	12.67	8.80	18.83	2.14
0.50	1.31	6.67	2.14	12.83	8.80	19.00	2.14
0.67	1.31	6.83	2.14	13.00	8.80	19.17	2.14
0.83	1.31	7.00	2.14	13.17	6.42	19.33	2.14
1.00	1.31	7.17	2.62	13.33	6.42	19.50	2.14
1.17	1.31	7.33	2.62	13.50	6.42	19.67	2.14
1.33	1.31	7.50	2.62	13.67	5.00	19.83	2.14
1.50	1.31	7.67	2.62	13.83	5.00	20.00	2.14
1.67	1.31	7.83	2.62	14.00	5.00	20.17	1.43
1.83	1.31	8.00	2.62	14.17	3.57	20.33	1.43
2.00	1.31	8.17	3.09	14.33	3.57	20.50	1.43
2.17	1.55	8.33	3.09	14.50	3.57	20.67	1.43
2.33	1.55	8.50	3.09	14.67	3.57	20.83	1.43
2.50	1.55	8.67	3.33	14.83	3.57	21.00	1.43
2.67	1.55	8.83	3.33	15.00	3.57	21.17	1.43
2.83	1.55	9.00	3.33	15.17	3.57	21.33	1.43
3.00	1.55	9.17	3.81	15.33	3.57	21.50	1.43
3.17	1.55	9.33	3.81	15.50	3.57	21.67	1.43
3.33	1.55	9.50	3.81	15.67	3.57	21.83	1.43
3.50	1.55	9.67	4.28	15.83	3.57	22.00	1.43
3.67	1.55	9.83	4.28	16.00	3.57	22.17	1.43
3.83	1.55	10.00	4.28	16.17	2.14	22.33	1.43
4.00	1.55	10.17	5.47	16.33	2.14	22.50	1.43
4.17	1.90	10.33	5.47	16.50	2.14	22.67	1.43
4.33	1.90	10.50	5.47	16.67	2.14	22.83	1.43
4.50	1.90	10.67	7.37	16.83	2.14	23.00	1.43
4.67	1.90	10.83	7.37	17.00	2.14	23.17	1.43
4.83	1.90	11.00	7.37	17.17	2.14	23.33	1.43
5.00	1.90	11.17	11.42	17.33	2.14	23.50	1.43
5.17	1.90	11.33	11.42	17.50	2.14	23.67	1.43
5.33	1.90	11.50	11.42	17.67	2.14	23.83	1.43
5.50	1.90	11.67	35.21	17.83	2.14	24.00	1.43
5.67	1.90	11.83	90.40	18.00	2.14		
5.83	1.90	12.00	145.59	18.17	2.14		
6.00	1.90	12.17	17.13	18.33	2.14		

| CALIB |
| NASHYD (0015) | Area (ha)= 1.13 Curve Number (CN)= 43.0
| ID= 1 DT= 5.0 min | Ia (mm)= 13.66 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.30

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.90	12.250	17.14	18.33	2.14
0.167	0.00	6.250	2.14	12.333	17.13	18.42	2.14
0.250	1.31	6.333	2.14	12.417	17.13	18.50	2.14
0.333	1.31	6.417	2.14	12.500	17.13	18.58	2.14
0.417	1.31	6.500	2.14	12.583	17.13	18.67	2.14
0.500	1.31	6.583	2.14	12.667	17.13	18.75	2.14
0.583	1.31	6.667	2.14	12.750	8.80	18.83	2.14
0.667	1.31	6.750	2.14	12.833	8.80	18.92	2.14
0.750	1.31	6.833	2.14	12.917	8.80	19.00	2.14
0.833	1.31	6.917	2.14	13.000	8.80	19.08	2.14
0.917	1.31	7.000	2.14	13.083	8.80	19.17	2.14
1.000	1.31	7.083	2.14	13.167	8.80	19.25	2.14
1.083	1.31	7.167	2.14	13.250	6.42	19.33	2.14
1.167	1.31	7.250	2.62	13.333	6.42	19.42	2.14
1.250	1.31	7.333	2.62	13.417	6.42	19.50	2.14
1.333	1.31	7.417	2.62	13.500	6.42	19.58	2.14
1.417	1.31	7.500	2.62	13.583	6.42	19.67	2.14
1.500	1.31	7.583	2.62	13.667	6.42	19.75	2.14
1.583	1.31	7.667	2.62	13.750	5.00	19.83	2.14
1.667	1.31	7.750	2.62	13.833	5.00	19.92	2.14
1.750	1.31	7.833	2.62	13.917	5.00	20.00	2.14
1.833	1.31	7.917	2.62	14.000	5.00	20.08	2.14

1.917	1.31	8.000	2.62	14.083	5.00	20.17	2.14
2.000	1.31	8.083	2.62	14.167	5.00	20.25	1.43
2.083	1.31	8.167	2.62	14.250	3.57	20.33	1.43
2.167	1.31	8.250	3.09	14.333	3.57	20.42	1.43
2.250	1.55	8.333	3.09	14.417	3.57	20.50	1.43
2.333	1.55	8.417	3.09	14.500	3.57	20.58	1.43
2.417	1.55	8.500	3.09	14.583	3.57	20.67	1.43
2.500	1.55	8.583	3.09	14.667	3.57	20.75	1.43
2.583	1.55	8.667	3.09	14.750	3.57	20.83	1.43
2.667	1.55	8.750	3.33	14.833	3.57	20.92	1.43
2.750	1.55	8.833	3.33	14.917	3.57	21.00	1.43
2.833	1.55	8.917	3.33	15.000	3.57	21.08	1.43
2.917	1.55	9.000	3.33	15.083	3.57	21.17	1.43
3.000	1.55	9.083	3.33	15.167	3.57	21.25	1.43
3.083	1.55	9.167	3.33	15.250	3.57	21.33	1.43
3.167	1.55	9.250	3.81	15.333	3.57	21.42	1.43
3.250	1.55	9.333	3.81	15.417	3.57	21.50	1.43
3.333	1.55	9.417	3.81	15.500	3.57	21.58	1.43
3.417	1.55	9.500	3.81	15.583	3.57	21.67	1.43
3.500	1.55	9.583	3.81	15.667	3.57	21.75	1.43
3.583	1.55	9.667	3.81	15.750	3.57	21.83	1.43
3.667	1.55	9.750	4.28	15.833	3.57	21.92	1.43
3.750	1.55	9.833	4.28	15.917	3.57	22.00	1.43
3.833	1.55	9.917	4.28	16.000	3.57	22.08	1.43
3.917	1.55	10.000	4.28	16.083	3.57	22.17	1.43
4.000	1.55	10.083	4.28	16.167	3.57	22.25	1.43
4.083	1.55	10.167	4.28	16.250	2.14	22.33	1.43
4.167	1.55	10.250	5.47	16.333	2.14	22.42	1.43
4.250	1.90	10.333	5.47	16.417	2.14	22.50	1.43
4.333	1.90	10.417	5.47	16.500	2.14	22.58	1.43
4.417	1.90	10.500	5.47	16.583	2.14	22.67	1.43
4.500	1.90	10.583	5.47	16.667	2.14	22.75	1.43
4.583	1.90	10.667	5.47	16.750	2.14	22.83	1.43
4.667	1.90	10.750	7.37	16.833	2.14	22.92	1.43
4.750	1.90	10.833	7.37	16.917	2.14	23.00	1.43
4.833	1.90	10.917	7.37	17.000	2.14	23.08	1.43
4.917	1.90	11.000	7.37	17.083	2.14	23.17	1.43
5.000	1.90	11.083	7.37	17.167	2.14	23.25	1.43
5.083	1.90	11.167	7.37	17.250	2.14	23.33	1.43
5.167	1.90	11.250	11.42	17.333	2.14	23.42	1.43
5.250	1.90	11.333	11.42	17.417	2.14	23.50	1.43
5.333	1.90	11.417	11.42	17.500	2.14	23.58	1.43
5.417	1.90	11.500	11.42	17.583	2.14	23.67	1.43
5.500	1.90	11.583	11.42	17.667	2.14	23.75	1.43
5.583	1.90	11.667	11.42	17.750	2.14	23.83	1.43
5.667	1.90	11.750	35.21	17.833	2.14	23.92	1.43
5.750	1.90	11.833	35.21	17.917	2.14	24.00	1.43
5.833	1.90	11.917	90.40	18.000	2.14	24.08	1.43
5.917	1.90	12.000	90.40	18.083	2.14	24.17	1.43
6.000	1.90	12.083	145.59	18.167	2.14		
6.083	1.90	12.167	145.59	18.250	2.14		

Unit Hyd Qpeak (cms)= 0.144

PEAK FLOW (cms)= 0.051 (i)

TIME TO PEAK (hrs)= 12.333

RUNOFF VOLUME (mm)= 25.072

TOTAL RAINFALL (mm)= 118.950

RUNOFF COEFFICIENT = 0.211

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0004) | Area (ha)= 0.66 Curve Number (CN)= 62.0
 | ID= 1 DT= 5.0 min | Ia (mm)= 7.00 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.19

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.90	12.250	17.14	18.33	2.14
0.167	0.00	6.250	2.14	12.333	17.13	18.42	2.14
0.250	1.31	6.333	2.14	12.417	17.13	18.50	2.14
0.333	1.31	6.417	2.14	12.500	17.13	18.58	2.14
0.417	1.31	6.500	2.14	12.583	17.13	18.67	2.14
0.500	1.31	6.583	2.14	12.667	17.13	18.75	2.14
0.583	1.31	6.667	2.14	12.750	8.80	18.83	2.14
0.667	1.31	6.750	2.14	12.833	8.80	18.92	2.14
0.750	1.31	6.833	2.14	12.917	8.80	19.00	2.14
0.833	1.31	6.917	2.14	13.000	8.80	19.08	2.14
0.917	1.31	7.000	2.14	13.083	8.80	19.17	2.14
1.000	1.31	7.083	2.14	13.167	8.80	19.25	2.14
1.083	1.31	7.167	2.14	13.250	6.42	19.33	2.14
1.167	1.31	7.250	2.62	13.333	6.42	19.42	2.14
1.250	1.31	7.333	2.62	13.417	6.42	19.50	2.14
1.333	1.31	7.417	2.62	13.500	6.42	19.58	2.14
1.417	1.31	7.500	2.62	13.583	6.42	19.67	2.14
1.500	1.31	7.583	2.62	13.667	6.42	19.75	2.14
1.583	1.31	7.667	2.62	13.750	5.00	19.83	2.14
1.667	1.31	7.750	2.62	13.833	5.00	19.92	2.14
1.750	1.31	7.833	2.62	13.917	5.00	20.00	2.14
1.833	1.31	7.917	2.62	14.000	5.00	20.08	2.14
1.917	1.31	8.000	2.62	14.083	5.00	20.17	2.14
2.000	1.31	8.083	2.62	14.167	5.00	20.25	1.43
2.083	1.31	8.167	2.62	14.250	3.57	20.33	1.43
2.167	1.31	8.250	3.09	14.333	3.57	20.42	1.43
2.250	1.55	8.333	3.09	14.417	3.57	20.50	1.43
2.333	1.55	8.417	3.09	14.500	3.57	20.58	1.43
2.417	1.55	8.500	3.09	14.583	3.57	20.67	1.43
2.500	1.55	8.583	3.09	14.667	3.57	20.75	1.43
2.583	1.55	8.667	3.09	14.750	3.57	20.83	1.43
2.667	1.55	8.750	3.33	14.833	3.57	20.92	1.43
2.750	1.55	8.833	3.33	14.917	3.57	21.00	1.43
2.833	1.55	8.917	3.33	15.000	3.57	21.08	1.43
2.917	1.55	9.000	3.33	15.083	3.57	21.17	1.43
3.000	1.55	9.083	3.33	15.167	3.57	21.25	1.43
3.083	1.55	9.167	3.33	15.250	3.57	21.33	1.43
3.167	1.55	9.250	3.81	15.333	3.57	21.42	1.43
3.250	1.55	9.333	3.81	15.417	3.57	21.50	1.43
3.333	1.55	9.417	3.81	15.500	3.57	21.58	1.43
3.417	1.55	9.500	3.81	15.583	3.57	21.67	1.43
3.500	1.55	9.583	3.81	15.667	3.57	21.75	1.43
3.583	1.55	9.667	3.81	15.750	3.57	21.83	1.43
3.667	1.55	9.750	4.28	15.833	3.57	21.92	1.43
3.750	1.55	9.833	4.28	15.917	3.57	22.00	1.43
3.833	1.55	9.917	4.28	16.000	3.57	22.08	1.43
3.917	1.55	10.000	4.28	16.083	3.57	22.17	1.43
4.000	1.55	10.083	4.28	16.167	3.57	22.25	1.43
4.083	1.55	10.167	4.28	16.250	2.14	22.33	1.43
4.167	1.55	10.250	5.47	16.333	2.14	22.42	1.43
4.250	1.90	10.333	5.47	16.417	2.14	22.50	1.43
4.333	1.90	10.417	5.47	16.500	2.14	22.58	1.43
4.417	1.90	10.500	5.47	16.583	2.14	22.67	1.43
4.500	1.90	10.583	5.47	16.667	2.14	22.75	1.43
4.583	1.90	10.667	5.47	16.750	2.14	22.83	1.43
4.667	1.90	10.750	7.37	16.833	2.14	22.92	1.43
4.750	1.90	10.833	7.37	16.917	2.14	23.00	1.43
4.833	1.90	10.917	7.37	17.000	2.14	23.08	1.43
4.917	1.90	11.000	7.37	17.083	2.14	23.17	1.43
5.000	1.90	11.083	7.37	17.167	2.14	23.25	1.43
5.083	1.90	11.167	7.37	17.250	2.14	23.33	1.43
5.167	1.90	11.250	11.42	17.333	2.14	23.42	1.43
5.250	1.90	11.333	11.42	17.417	2.14	23.50	1.43
5.333	1.90	11.417	11.42	17.500	2.14	23.58	1.43
5.417	1.90	11.500	11.42	17.583	2.14	23.67	1.43
5.500	1.90	11.583	11.42	17.667	2.14	23.75	1.43
5.583	1.90	11.667	11.42	17.750	2.14	23.83	1.43
5.667	1.90	11.750	35.21	17.833	2.14	23.92	1.43
5.750	1.90	11.833	35.21	17.917	2.14	24.00	1.43
5.833	1.90	11.917	90.40	18.000	2.14	24.08	1.43
5.917	1.90	12.000	90.40	18.083	2.14	24.17	1.43

6.000 1.90 |12.083 145.59 |18.167 2.14 |
6.083 1.90 |12.167 145.59 |18.250 2.14 |

Unit Hyd Qpeak (cms)= 0.133

PEAK FLOW (cms)= 0.078 (i)
TIME TO PEAK (hrs)= 12.250
RUNOFF VOLUME (mm)= 46.720
TOTAL RAINFALL (mm)= 118.950
RUNOFF COEFFICIENT = 0.393

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| STANDHYD (0022) | Area (ha)= 2.66
| ID= 1 DT= 5.0 min | Total Imp(%)= 45.08 Dir. Conn.(%)= 31.83

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 1.20 1.46
Dep. Storage (mm)= 2.00 5.00
Average Slope (%)= 1.00 2.00
Length (m)= 67.80 47.60
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----
TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN
hrs mm/hr | hrs mm/hr | hrs mm/hr | hrs mm/hr
0.083 0.00 | 6.167 1.90 | 12.250 17.14 | 18.33 2.14
0.167 0.00 | 6.250 2.14 | 12.333 17.13 | 18.42 2.14
0.250 1.31 | 6.333 2.14 | 12.417 17.13 | 18.50 2.14
0.333 1.31 | 6.417 2.14 | 12.500 17.13 | 18.58 2.14
0.417 1.31 | 6.500 2.14 | 12.583 17.13 | 18.67 2.14
0.500 1.31 | 6.583 2.14 | 12.667 17.13 | 18.75 2.14
0.583 1.31 | 6.667 2.14 | 12.750 8.80 | 18.83 2.14
0.667 1.31 | 6.750 2.14 | 12.833 8.80 | 18.92 2.14
0.750 1.31 | 6.833 2.14 | 12.917 8.80 | 19.00 2.14
0.833 1.31 | 6.917 2.14 | 13.000 8.80 | 19.08 2.14
0.917 1.31 | 7.000 2.14 | 13.083 8.80 | 19.17 2.14
1.000 1.31 | 7.083 2.14 | 13.167 8.80 | 19.25 2.14
1.083 1.31 | 7.167 2.14 | 13.250 6.42 | 19.33 2.14
1.167 1.31 | 7.250 2.62 | 13.333 6.42 | 19.42 2.14
1.250 1.31 | 7.333 2.62 | 13.417 6.42 | 19.50 2.14
1.333 1.31 | 7.417 2.62 | 13.500 6.42 | 19.58 2.14
1.417 1.31 | 7.500 2.62 | 13.583 6.42 | 19.67 2.14
1.500 1.31 | 7.583 2.62 | 13.667 6.42 | 19.75 2.14
1.583 1.31 | 7.667 2.62 | 13.750 5.00 | 19.83 2.14
1.667 1.31 | 7.750 2.62 | 13.833 5.00 | 19.92 2.14
1.750 1.31 | 7.833 2.62 | 13.917 5.00 | 20.00 2.14
1.833 1.31 | 7.917 2.62 | 14.000 5.00 | 20.08 2.14
1.917 1.31 | 8.000 2.62 | 14.083 5.00 | 20.17 2.14
2.000 1.31 | 8.083 2.62 | 14.167 5.00 | 20.25 1.43
2.083 1.31 | 8.167 2.62 | 14.250 3.57 | 20.33 1.43
2.167 1.31 | 8.250 3.09 | 14.333 3.57 | 20.42 1.43
2.250 1.55 | 8.333 3.09 | 14.417 3.57 | 20.50 1.43
2.333 1.55 | 8.417 3.09 | 14.500 3.57 | 20.58 1.43
2.417 1.55 | 8.500 3.09 | 14.583 3.57 | 20.67 1.43
2.500 1.55 | 8.583 3.09 | 14.667 3.57 | 20.75 1.43
2.583 1.55 | 8.667 3.09 | 14.750 3.57 | 20.83 1.43
2.667 1.55 | 8.750 3.33 | 14.833 3.57 | 20.92 1.43
2.750 1.55 | 8.833 3.33 | 14.917 3.57 | 21.00 1.43
2.833 1.55 | 8.917 3.33 | 15.000 3.57 | 21.08 1.43
2.917 1.55 | 9.000 3.33 | 15.083 3.57 | 21.17 1.43
3.000 1.55 | 9.083 3.33 | 15.167 3.57 | 21.25 1.43
3.083 1.55 | 9.167 3.33 | 15.250 3.57 | 21.33 1.43
3.167 1.55 | 9.250 3.81 | 15.333 3.57 | 21.42 1.43
3.250 1.55 | 9.333 3.81 | 15.417 3.57 | 21.50 1.43
3.333 1.55 | 9.417 3.81 | 15.500 3.57 | 21.58 1.43
3.417 1.55 | 9.500 3.81 | 15.583 3.57 | 21.67 1.43

3.500	1.55	9.583	3.81	15.667	3.57	21.75	1.43
3.583	1.55	9.667	3.81	15.750	3.57	21.83	1.43
3.667	1.55	9.750	4.28	15.833	3.57	21.92	1.43
3.750	1.55	9.833	4.28	15.917	3.57	22.00	1.43
3.833	1.55	9.917	4.28	16.000	3.57	22.08	1.43
3.917	1.55	10.000	4.28	16.083	3.57	22.17	1.43
4.000	1.55	10.083	4.28	16.167	3.57	22.25	1.43
4.083	1.55	10.167	4.28	16.250	2.14	22.33	1.43
4.167	1.55	10.250	5.47	16.333	2.14	22.42	1.43
4.250	1.90	10.333	5.47	16.417	2.14	22.50	1.43
4.333	1.90	10.417	5.47	16.500	2.14	22.58	1.43
4.417	1.90	10.500	5.47	16.583	2.14	22.67	1.43
4.500	1.90	10.583	5.47	16.667	2.14	22.75	1.43
4.583	1.90	10.667	5.47	16.750	2.14	22.83	1.43
4.667	1.90	10.750	7.37	16.833	2.14	22.92	1.43
4.750	1.90	10.833	7.37	16.917	2.14	23.00	1.43
4.833	1.90	10.917	7.37	17.000	2.14	23.08	1.43
4.917	1.90	11.000	7.37	17.083	2.14	23.17	1.43
5.000	1.90	11.083	7.37	17.167	2.14	23.25	1.43
5.083	1.90	11.167	7.37	17.250	2.14	23.33	1.43
5.167	1.90	11.250	11.42	17.333	2.14	23.42	1.43
5.250	1.90	11.333	11.42	17.417	2.14	23.50	1.43
5.333	1.90	11.417	11.42	17.500	2.14	23.58	1.43
5.417	1.90	11.500	11.42	17.583	2.14	23.67	1.43
5.500	1.90	11.583	11.42	17.667	2.14	23.75	1.43
5.583	1.90	11.667	11.42	17.750	2.14	23.83	1.43
5.667	1.90	11.750	35.21	17.833	2.14	23.92	1.43
5.750	1.90	11.833	35.21	17.917	2.14	24.00	1.43
5.833	1.90	11.917	90.40	18.000	2.14	24.08	1.43
5.917	1.90	12.000	90.40	18.083	2.14	24.17	1.43
6.000	1.90	12.083	145.59	18.167	2.14		
6.083	1.90	12.167	145.59	18.250	2.14		

Max.Eff.Inten.(mm/hr)= 145.59 72.65
over (min) 5.00 15.00

Storage Coeff. (min)= 1.74 (ii) 10.64 (ii)

Unit Hyd. Tpeak (min)= 5.00 15.00

Unit Hyd. peak (cms)= 0.32 0.09

TOTALS

PEAK FLOW (cms)= 0.34 0.18 0.493 (iii)

TIME TO PEAK (hrs)= 12.17 12.25 12.17

RUNOFF VOLUME (mm)= 116.95 40.28 64.68

TOTAL RAINFALL (mm)= 118.95 118.95 118.95

RUNOFF COEFFICIENT = 0.98 0.34 0.54

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 49.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| ADD HYD (0024)|

| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.

(ha) (cms) (hrs) (mm)

ID1= 1 (0022): 2.66 0.493 12.17 64.68

+ ID2= 2 (0004): 0.66 0.078 12.25 46.72

=====

ID = 3 (0024): 3.32 0.566 12.17 61.11

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| RESERVOIR(0023)| OVERFLOW IS OFF

| IN= 2---> OUT= 1 |

| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE

(cms) (ha.m.) | (cms) (ha.m.)

0.0000 0.0000 | 0.0470 0.0670

0.0020 0.0120 | 0.0790 0.0820

0.0020	0.0250		0.1020	0.0980
0.0030	0.0380		0.1200	0.1150
0.0030	0.0520		0.0000	0.0000

AREA	QPEAK	TPEAK	R.V.
(ha)	(cms)	(hrs)	(mm)
INFLOW: ID= 2 (0024)	3.320	0.566	12.17 61.11
OUTFLOW: ID= 1 (0023)	3.320	0.106	12.75 60.65

PEAK FLOW REDUCTION [Qout/Qin](%)= 18.71
TIME SHIFT OF PEAK FLOW (min)= 35.00
MAXIMUM STORAGE USED (ha.m.)= 0.1019

| CALIB |
| NASHYD (0027) | Area (ha)= 3.10 Curve Number (CN)= 35.8
| ID= 1 DT= 5.0 min | Ia (mm)= 8.43 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.30

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.90	12.250	17.14	18.33	2.14
0.167	0.00	6.250	2.14	12.333	17.13	18.42	2.14
0.250	1.31	6.333	2.14	12.417	17.13	18.50	2.14
0.333	1.31	6.417	2.14	12.500	17.13	18.58	2.14
0.417	1.31	6.500	2.14	12.583	17.13	18.67	2.14
0.500	1.31	6.583	2.14	12.667	17.13	18.75	2.14
0.583	1.31	6.667	2.14	12.750	8.80	18.83	2.14
0.667	1.31	6.750	2.14	12.833	8.80	18.92	2.14
0.750	1.31	6.833	2.14	12.917	8.80	19.00	2.14
0.833	1.31	6.917	2.14	13.000	8.80	19.08	2.14
0.917	1.31	7.000	2.14	13.083	8.80	19.17	2.14
1.000	1.31	7.083	2.14	13.167	8.80	19.25	2.14
1.083	1.31	7.167	2.14	13.250	6.42	19.33	2.14
1.167	1.31	7.250	2.62	13.333	6.42	19.42	2.14
1.250	1.31	7.333	2.62	13.417	6.42	19.50	2.14
1.333	1.31	7.417	2.62	13.500	6.42	19.58	2.14
1.417	1.31	7.500	2.62	13.583	6.42	19.67	2.14
1.500	1.31	7.583	2.62	13.667	6.42	19.75	2.14
1.583	1.31	7.667	2.62	13.750	5.00	19.83	2.14
1.667	1.31	7.750	2.62	13.833	5.00	19.92	2.14
1.750	1.31	7.833	2.62	13.917	5.00	20.00	2.14
1.833	1.31	7.917	2.62	14.000	5.00	20.08	2.14
1.917	1.31	8.000	2.62	14.083	5.00	20.17	2.14
2.000	1.31	8.083	2.62	14.167	5.00	20.25	1.43
2.083	1.31	8.167	2.62	14.250	3.57	20.33	1.43
2.167	1.31	8.250	3.09	14.333	3.57	20.42	1.43
2.250	1.55	8.333	3.09	14.417	3.57	20.50	1.43
2.333	1.55	8.417	3.09	14.500	3.57	20.58	1.43
2.417	1.55	8.500	3.09	14.583	3.57	20.67	1.43
2.500	1.55	8.583	3.09	14.667	3.57	20.75	1.43
2.583	1.55	8.667	3.09	14.750	3.57	20.83	1.43
2.667	1.55	8.750	3.33	14.833	3.57	20.92	1.43
2.750	1.55	8.833	3.33	14.917	3.57	21.00	1.43
2.833	1.55	8.917	3.33	15.000	3.57	21.08	1.43
2.917	1.55	9.000	3.33	15.083	3.57	21.17	1.43
3.000	1.55	9.083	3.33	15.167	3.57	21.25	1.43
3.083	1.55	9.167	3.33	15.250	3.57	21.33	1.43
3.167	1.55	9.250	3.81	15.333	3.57	21.42	1.43
3.250	1.55	9.333	3.81	15.417	3.57	21.50	1.43
3.333	1.55	9.417	3.81	15.500	3.57	21.58	1.43
3.417	1.55	9.500	3.81	15.583	3.57	21.67	1.43
3.500	1.55	9.583	3.81	15.667	3.57	21.75	1.43
3.583	1.55	9.667	3.81	15.750	3.57	21.83	1.43
3.667	1.55	9.750	4.28	15.833	3.57	21.92	1.43
3.750	1.55	9.833	4.28	15.917	3.57	22.00	1.43
3.833	1.55	9.917	4.28	16.000	3.57	22.08	1.43
3.917	1.55	10.000	4.28	16.083	3.57	22.17	1.43

4.000	1.55	10.083	4.28	16.167	3.57	22.25	1.43
4.083	1.55	10.167	4.28	16.250	2.14	22.33	1.43
4.167	1.55	10.250	5.47	16.333	2.14	22.42	1.43
4.250	1.90	10.333	5.47	16.417	2.14	22.50	1.43
4.333	1.90	10.417	5.47	16.500	2.14	22.58	1.43
4.417	1.90	10.500	5.47	16.583	2.14	22.67	1.43
4.500	1.90	10.583	5.47	16.667	2.14	22.75	1.43
4.583	1.90	10.667	5.47	16.750	2.14	22.83	1.43
4.667	1.90	10.750	7.37	16.833	2.14	22.92	1.43
4.750	1.90	10.833	7.37	16.917	2.14	23.00	1.43
4.833	1.90	10.917	7.37	17.000	2.14	23.08	1.43
4.917	1.90	11.000	7.37	17.083	2.14	23.17	1.43
5.000	1.90	11.083	7.37	17.167	2.14	23.25	1.43
5.083	1.90	11.167	7.37	17.250	2.14	23.33	1.43
5.167	1.90	11.250	11.42	17.333	2.14	23.42	1.43
5.250	1.90	11.333	11.42	17.417	2.14	23.50	1.43
5.333	1.90	11.417	11.42	17.500	2.14	23.58	1.43
5.417	1.90	11.500	11.42	17.583	2.14	23.67	1.43
5.500	1.90	11.583	11.42	17.667	2.14	23.75	1.43
5.583	1.90	11.667	11.42	17.750	2.14	23.83	1.43
5.667	1.90	11.750	35.21	17.833	2.14	23.92	1.43
5.750	1.90	11.833	35.21	17.917	2.14	24.00	1.43
5.833	1.90	11.917	90.40	18.000	2.14	24.08	1.43
5.917	1.90	12.000	90.40	18.083	2.14	24.17	1.43
6.000	1.90	12.083	145.59	18.167	2.14		
6.083	1.90	12.167	145.59	18.250	2.14		

Unit Hyd Qpeak (cms)= 0.395

PEAK FLOW (cms)= 0.120 (i)
TIME TO PEAK (hrs)= 12.333
RUNOFF VOLUME (mm)= 21.572
TOTAL RAINFALL (mm)= 118.950
RUNOFF COEFFICIENT = 0.181

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0010) | Area (ha)= 0.87 Curve Number (CN)= 32.0
| ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.24

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.90	12.250	17.14	18.33	2.14
0.167	0.00	6.250	2.14	12.333	17.13	18.42	2.14
0.250	1.31	6.333	2.14	12.417	17.13	18.50	2.14
0.333	1.31	6.417	2.14	12.500	17.13	18.58	2.14
0.417	1.31	6.500	2.14	12.583	17.13	18.67	2.14
0.500	1.31	6.583	2.14	12.667	17.13	18.75	2.14
0.583	1.31	6.667	2.14	12.750	8.80	18.83	2.14
0.667	1.31	6.750	2.14	12.833	8.80	18.92	2.14
0.750	1.31	6.833	2.14	12.917	8.80	19.00	2.14
0.833	1.31	6.917	2.14	13.000	8.80	19.08	2.14
0.917	1.31	7.000	2.14	13.083	8.80	19.17	2.14
1.000	1.31	7.083	2.14	13.167	8.80	19.25	2.14
1.083	1.31	7.167	2.14	13.250	6.42	19.33	2.14
1.167	1.31	7.250	2.62	13.333	6.42	19.42	2.14
1.250	1.31	7.333	2.62	13.417	6.42	19.50	2.14
1.333	1.31	7.417	2.62	13.500	6.42	19.58	2.14
1.417	1.31	7.500	2.62	13.583	6.42	19.67	2.14
1.500	1.31	7.583	2.62	13.667	6.42	19.75	2.14
1.583	1.31	7.667	2.62	13.750	5.00	19.83	2.14
1.667	1.31	7.750	2.62	13.833	5.00	19.92	2.14
1.750	1.31	7.833	2.62	13.917	5.00	20.00	2.14
1.833	1.31	7.917	2.62	14.000	5.00	20.08	2.14
1.917	1.31	8.000	2.62	14.083	5.00	20.17	2.14

2.000	1.31	8.083	2.62	14.167	5.00	20.25	1.43
2.083	1.31	8.167	2.62	14.250	3.57	20.33	1.43
2.167	1.31	8.250	3.09	14.333	3.57	20.42	1.43
2.250	1.55	8.333	3.09	14.417	3.57	20.50	1.43
2.333	1.55	8.417	3.09	14.500	3.57	20.58	1.43
2.417	1.55	8.500	3.09	14.583	3.57	20.67	1.43
2.500	1.55	8.583	3.09	14.667	3.57	20.75	1.43
2.583	1.55	8.667	3.09	14.750	3.57	20.83	1.43
2.667	1.55	8.750	3.33	14.833	3.57	20.92	1.43
2.750	1.55	8.833	3.33	14.917	3.57	21.00	1.43
2.833	1.55	8.917	3.33	15.000	3.57	21.08	1.43
2.917	1.55	9.000	3.33	15.083	3.57	21.17	1.43
3.000	1.55	9.083	3.33	15.167	3.57	21.25	1.43
3.083	1.55	9.167	3.33	15.250	3.57	21.33	1.43
3.167	1.55	9.250	3.81	15.333	3.57	21.42	1.43
3.250	1.55	9.333	3.81	15.417	3.57	21.50	1.43
3.333	1.55	9.417	3.81	15.500	3.57	21.58	1.43
3.417	1.55	9.500	3.81	15.583	3.57	21.67	1.43
3.500	1.55	9.583	3.81	15.667	3.57	21.75	1.43
3.583	1.55	9.667	3.81	15.750	3.57	21.83	1.43
3.667	1.55	9.750	4.28	15.833	3.57	21.92	1.43
3.750	1.55	9.833	4.28	15.917	3.57	22.00	1.43
3.833	1.55	9.917	4.28	16.000	3.57	22.08	1.43
3.917	1.55	10.000	4.28	16.083	3.57	22.17	1.43
4.000	1.55	10.083	4.28	16.167	3.57	22.25	1.43
4.083	1.55	10.167	4.28	16.250	2.14	22.33	1.43
4.167	1.55	10.250	5.47	16.333	2.14	22.42	1.43
4.250	1.90	10.333	5.47	16.417	2.14	22.50	1.43
4.333	1.90	10.417	5.47	16.500	2.14	22.58	1.43
4.417	1.90	10.500	5.47	16.583	2.14	22.67	1.43
4.500	1.90	10.583	5.47	16.667	2.14	22.75	1.43
4.583	1.90	10.667	5.47	16.750	2.14	22.83	1.43
4.667	1.90	10.750	7.37	16.833	2.14	22.92	1.43
4.750	1.90	10.833	7.37	16.917	2.14	23.00	1.43
4.833	1.90	10.917	7.37	17.000	2.14	23.08	1.43
4.917	1.90	11.000	7.37	17.083	2.14	23.17	1.43
5.000	1.90	11.083	7.37	17.167	2.14	23.25	1.43
5.083	1.90	11.167	7.37	17.250	2.14	23.33	1.43
5.167	1.90	11.250	11.42	17.333	2.14	23.42	1.43
5.250	1.90	11.333	11.42	17.417	2.14	23.50	1.43
5.333	1.90	11.417	11.42	17.500	2.14	23.58	1.43
5.417	1.90	11.500	11.42	17.583	2.14	23.67	1.43
5.500	1.90	11.583	11.42	17.667	2.14	23.75	1.43
5.583	1.90	11.667	11.42	17.750	2.14	23.83	1.43
5.667	1.90	11.750	35.21	17.833	2.14	23.92	1.43
5.750	1.90	11.833	35.21	17.917	2.14	24.00	1.43
5.833	1.90	11.917	90.40	18.000	2.14	24.08	1.43
5.917	1.90	12.000	90.40	18.083	2.14	24.17	1.43
6.000	1.90	12.083	145.59	18.167	2.14		
6.083	1.90	12.167	145.59	18.250	2.14		

Unit Hyd Qpeak (cms)= 0.138

PEAK FLOW (cms)= 0.033 (i)

TIME TO PEAK (hrs)= 12.250

RUNOFF VOLUME (mm)= 18.281

TOTAL RAINFALL (mm)= 118.950

RUNOFF COEFFICIENT = 0.154

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0009) | Area (ha)= 1.11 Curve Number (CN)= 62.0
 | ID= 1 DT= 5.0 min | Ia (mm)= 7.00 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.34

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----
 TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN

hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.90	12.250	17.14	18.33	2.14
0.167	0.00	6.250	2.14	12.333	17.13	18.42	2.14
0.250	1.31	6.333	2.14	12.417	17.13	18.50	2.14
0.333	1.31	6.417	2.14	12.500	17.13	18.58	2.14
0.417	1.31	6.500	2.14	12.583	17.13	18.67	2.14
0.500	1.31	6.583	2.14	12.667	17.13	18.75	2.14
0.583	1.31	6.667	2.14	12.750	8.80	18.83	2.14
0.667	1.31	6.750	2.14	12.833	8.80	18.92	2.14
0.750	1.31	6.833	2.14	12.917	8.80	19.00	2.14
0.833	1.31	6.917	2.14	13.000	8.80	19.08	2.14
0.917	1.31	7.000	2.14	13.083	8.80	19.17	2.14
1.000	1.31	7.083	2.14	13.167	8.80	19.25	2.14
1.083	1.31	7.167	2.14	13.250	6.42	19.33	2.14
1.167	1.31	7.250	2.62	13.333	6.42	19.42	2.14
1.250	1.31	7.333	2.62	13.417	6.42	19.50	2.14
1.333	1.31	7.417	2.62	13.500	6.42	19.58	2.14
1.417	1.31	7.500	2.62	13.583	6.42	19.67	2.14
1.500	1.31	7.583	2.62	13.667	6.42	19.75	2.14
1.583	1.31	7.667	2.62	13.750	5.00	19.83	2.14
1.667	1.31	7.750	2.62	13.833	5.00	19.92	2.14
1.750	1.31	7.833	2.62	13.917	5.00	20.00	2.14
1.833	1.31	7.917	2.62	14.000	5.00	20.08	2.14
1.917	1.31	8.000	2.62	14.083	5.00	20.17	2.14
2.000	1.31	8.083	2.62	14.167	5.00	20.25	1.43
2.083	1.31	8.167	2.62	14.250	3.57	20.33	1.43
2.167	1.31	8.250	3.09	14.333	3.57	20.42	1.43
2.250	1.55	8.333	3.09	14.417	3.57	20.50	1.43
2.333	1.55	8.417	3.09	14.500	3.57	20.58	1.43
2.417	1.55	8.500	3.09	14.583	3.57	20.67	1.43
2.500	1.55	8.583	3.09	14.667	3.57	20.75	1.43
2.583	1.55	8.667	3.09	14.750	3.57	20.83	1.43
2.667	1.55	8.750	3.33	14.833	3.57	20.92	1.43
2.750	1.55	8.833	3.33	14.917	3.57	21.00	1.43
2.833	1.55	8.917	3.33	15.000	3.57	21.08	1.43
2.917	1.55	9.000	3.33	15.083	3.57	21.17	1.43
3.000	1.55	9.083	3.33	15.167	3.57	21.25	1.43
3.083	1.55	9.167	3.33	15.250	3.57	21.33	1.43
3.167	1.55	9.250	3.81	15.333	3.57	21.42	1.43
3.250	1.55	9.333	3.81	15.417	3.57	21.50	1.43
3.333	1.55	9.417	3.81	15.500	3.57	21.58	1.43
3.417	1.55	9.500	3.81	15.583	3.57	21.67	1.43
3.500	1.55	9.583	3.81	15.667	3.57	21.75	1.43
3.583	1.55	9.667	3.81	15.750	3.57	21.83	1.43
3.667	1.55	9.750	4.28	15.833	3.57	21.92	1.43
3.750	1.55	9.833	4.28	15.917	3.57	22.00	1.43
3.833	1.55	9.917	4.28	16.000	3.57	22.08	1.43
3.917	1.55	10.000	4.28	16.083	3.57	22.17	1.43
4.000	1.55	10.083	4.28	16.167	3.57	22.25	1.43
4.083	1.55	10.167	4.28	16.250	2.14	22.33	1.43
4.167	1.55	10.250	5.47	16.333	2.14	22.42	1.43
4.250	1.90	10.333	5.47	16.417	2.14	22.50	1.43
4.333	1.90	10.417	5.47	16.500	2.14	22.58	1.43
4.417	1.90	10.500	5.47	16.583	2.14	22.67	1.43
4.500	1.90	10.583	5.47	16.667	2.14	22.75	1.43
4.583	1.90	10.667	5.47	16.750	2.14	22.83	1.43
4.667	1.90	10.750	7.37	16.833	2.14	22.92	1.43
4.750	1.90	10.833	7.37	16.917	2.14	23.00	1.43
4.833	1.90	10.917	7.37	17.000	2.14	23.08	1.43
4.917	1.90	11.000	7.37	17.083	2.14	23.17	1.43
5.000	1.90	11.083	7.37	17.167	2.14	23.25	1.43
5.083	1.90	11.167	7.37	17.250	2.14	23.33	1.43
5.167	1.90	11.250	11.42	17.333	2.14	23.42	1.43
5.250	1.90	11.333	11.42	17.417	2.14	23.50	1.43
5.333	1.90	11.417	11.42	17.500	2.14	23.58	1.43
5.417	1.90	11.500	11.42	17.583	2.14	23.67	1.43
5.500	1.90	11.583	11.42	17.667	2.14	23.75	1.43
5.583	1.90	11.667	11.42	17.750	2.14	23.83	1.43
5.667	1.90	11.750	35.21	17.833	2.14	23.92	1.43
5.750	1.90	11.833	35.21	17.917	2.14	24.00	1.43
5.833	1.90	11.917	90.40	18.000	2.14	24.08	1.43
5.917	1.90	12.000	90.40	18.083	2.14	24.17	1.43
6.000	1.90	12.083	145.59	18.167	2.14		

6.083 1.90 |12.167 145.59 |18.250 2.14 |

Unit Hyd Qpeak (cms)= 0.125

PEAK FLOW (cms)= 0.089 (i)
TIME TO PEAK (hrs)= 12.333
RUNOFF VOLUME (mm)= 46.818
TOTAL RAINFALL (mm)= 118.950
RUNOFF COEFFICIENT = 0.394

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| ADD HYD (0017)|
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 1 (0010): 0.87 0.033 12.25 18.28
+ ID2= 2 (0027): 3.10 0.120 12.33 21.57
=====

ID = 3 (0017): 3.97 0.152 12.33 20.85

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0017)|
| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 3 (0017): 3.97 0.152 12.33 20.85
+ ID2= 2 (0009): 1.11 0.089 12.33 46.82
=====

ID = 1 (0017): 5.08 0.241 12.33 26.52

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| CALIB |
| NASHYD (0028)| Area (ha)= 14.72 Curve Number (CN)= 32.0
| ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.82

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----
TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN
hrs mm/hr | hrs mm/hr | hrs mm/hr | hrs mm/hr
0.083 0.00 | 6.167 1.90 | 12.250 17.14 | 18.33 2.14
0.167 0.00 | 6.250 2.14 | 12.333 17.13 | 18.42 2.14
0.250 1.31 | 6.333 2.14 | 12.417 17.13 | 18.50 2.14
0.333 1.31 | 6.417 2.14 | 12.500 17.13 | 18.58 2.14
0.417 1.31 | 6.500 2.14 | 12.583 17.13 | 18.67 2.14
0.500 1.31 | 6.583 2.14 | 12.667 17.13 | 18.75 2.14
0.583 1.31 | 6.667 2.14 | 12.750 8.80 | 18.83 2.14
0.667 1.31 | 6.750 2.14 | 12.833 8.80 | 18.92 2.14
0.750 1.31 | 6.833 2.14 | 12.917 8.80 | 19.00 2.14
0.833 1.31 | 6.917 2.14 | 13.000 8.80 | 19.08 2.14
0.917 1.31 | 7.000 2.14 | 13.083 8.80 | 19.17 2.14
1.000 1.31 | 7.083 2.14 | 13.167 8.80 | 19.25 2.14
1.083 1.31 | 7.167 2.14 | 13.250 6.42 | 19.33 2.14
1.167 1.31 | 7.250 2.62 | 13.333 6.42 | 19.42 2.14
1.250 1.31 | 7.333 2.62 | 13.417 6.42 | 19.50 2.14
1.333 1.31 | 7.417 2.62 | 13.500 6.42 | 19.58 2.14
1.417 1.31 | 7.500 2.62 | 13.583 6.42 | 19.67 2.14
1.500 1.31 | 7.583 2.62 | 13.667 6.42 | 19.75 2.14
1.583 1.31 | 7.667 2.62 | 13.750 5.00 | 19.83 2.14
1.667 1.31 | 7.750 2.62 | 13.833 5.00 | 19.92 2.14
1.750 1.31 | 7.833 2.62 | 13.917 5.00 | 20.00 2.14
1.833 1.31 | 7.917 2.62 | 14.000 5.00 | 20.08 2.14
1.917 1.31 | 8.000 2.62 | 14.083 5.00 | 20.17 2.14
2.000 1.31 | 8.083 2.62 | 14.167 5.00 | 20.25 1.43

[illegible]

0.083	0.00	6.167	1.90	12.250	17.14	18.33	2.14
0.167	0.00	6.250	2.14	12.333	17.13	18.42	2.14
0.250	1.31	6.333	2.14	12.417	17.13	18.50	2.14
0.333	1.31	6.417	2.14	12.500	17.13	18.58	2.14
0.417	1.31	6.500	2.14	12.583	17.13	18.67	2.14
0.500	1.31	6.583	2.14	12.667	17.13	18.75	2.14
0.583	1.31	6.667	2.14	12.750	8.80	18.83	2.14
0.667	1.31	6.750	2.14	12.833	8.80	18.92	2.14
0.750	1.31	6.833	2.14	12.917	8.80	19.00	2.14
0.833	1.31	6.917	2.14	13.000	8.80	19.08	2.14
0.917	1.31	7.000	2.14	13.083	8.80	19.17	2.14
1.000	1.31	7.083	2.14	13.167	8.80	19.25	2.14
1.083	1.31	7.167	2.14	13.250	6.42	19.33	2.14
1.167	1.31	7.250	2.62	13.333	6.42	19.42	2.14
1.250	1.31	7.333	2.62	13.417	6.42	19.50	2.14
1.333	1.31	7.417	2.62	13.500	6.42	19.58	2.14
1.417	1.31	7.500	2.62	13.583	6.42	19.67	2.14
1.500	1.31	7.583	2.62	13.667	6.42	19.75	2.14
1.583	1.31	7.667	2.62	13.750	5.00	19.83	2.14
1.667	1.31	7.750	2.62	13.833	5.00	19.92	2.14
1.750	1.31	7.833	2.62	13.917	5.00	20.00	2.14
1.833	1.31	7.917	2.62	14.000	5.00	20.08	2.14
1.917	1.31	8.000	2.62	14.083	5.00	20.17	2.14
2.000	1.31	8.083	2.62	14.167	5.00	20.25	1.43
2.083	1.31	8.167	2.62	14.250	3.57	20.33	1.43
2.167	1.31	8.250	3.09	14.333	3.57	20.42	1.43
2.250	1.55	8.333	3.09	14.417	3.57	20.50	1.43
2.333	1.55	8.417	3.09	14.500	3.57	20.58	1.43
2.417	1.55	8.500	3.09	14.583	3.57	20.67	1.43
2.500	1.55	8.583	3.09	14.667	3.57	20.75	1.43
2.583	1.55	8.667	3.09	14.750	3.57	20.83	1.43
2.667	1.55	8.750	3.33	14.833	3.57	20.92	1.43
2.750	1.55	8.833	3.33	14.917	3.57	21.00	1.43
2.833	1.55	8.917	3.33	15.000	3.57	21.08	1.43
2.917	1.55	9.000	3.33	15.083	3.57	21.17	1.43
3.000	1.55	9.083	3.33	15.167	3.57	21.25	1.43
3.083	1.55	9.167	3.33	15.250	3.57	21.33	1.43
3.167	1.55	9.250	3.81	15.333	3.57	21.42	1.43
3.250	1.55	9.333	3.81	15.417	3.57	21.50	1.43
3.333	1.55	9.417	3.81	15.500	3.57	21.58	1.43
3.417	1.55	9.500	3.81	15.583	3.57	21.67	1.43
3.500	1.55	9.583	3.81	15.667	3.57	21.75	1.43
3.583	1.55	9.667	3.81	15.750	3.57	21.83	1.43
3.667	1.55	9.750	4.28	15.833	3.57	21.92	1.43
3.750	1.55	9.833	4.28	15.917	3.57	22.00	1.43
3.833	1.55	9.917	4.28	16.000	3.57	22.08	1.43
3.917	1.55	10.000	4.28	16.083	3.57	22.17	1.43
4.000	1.55	10.083	4.28	16.167	3.57	22.25	1.43
4.083	1.55	10.167	4.28	16.250	2.14	22.33	1.43
4.167	1.55	10.250	5.47	16.333	2.14	22.42	1.43
4.250	1.90	10.333	5.47	16.417	2.14	22.50	1.43
4.333	1.90	10.417	5.47	16.500	2.14	22.58	1.43
4.417	1.90	10.500	5.47	16.583	2.14	22.67	1.43
4.500	1.90	10.583	5.47	16.667	2.14	22.75	1.43
4.583	1.90	10.667	5.47	16.750	2.14	22.83	1.43
4.667	1.90	10.750	7.37	16.833	2.14	22.92	1.43
4.750	1.90	10.833	7.37	16.917	2.14	23.00	1.43
4.833	1.90	10.917	7.37	17.000	2.14	23.08	1.43
4.917	1.90	11.000	7.37	17.083	2.14	23.17	1.43
5.000	1.90	11.083	7.37	17.167	2.14	23.25	1.43
5.083	1.90	11.167	7.37	17.250	2.14	23.33	1.43
5.167	1.90	11.250	11.42	17.333	2.14	23.42	1.43
5.250	1.90	11.333	11.42	17.417	2.14	23.50	1.43
5.333	1.90	11.417	11.42	17.500	2.14	23.58	1.43
5.417	1.90	11.500	11.42	17.583	2.14	23.67	1.43
5.500	1.90	11.583	11.42	17.667	2.14	23.75	1.43
5.583	1.90	11.667	11.42	17.750	2.14	23.83	1.43
5.667	1.90	11.750	35.21	17.833	2.14	23.92	1.43
5.750	1.90	11.833	35.21	17.917	2.14	24.00	1.43
5.833	1.90	11.917	90.40	18.000	2.14	24.08	1.43
5.917	1.90	12.000	90.40	18.083	2.14	24.17	1.43
6.000	1.90	12.083	145.59	18.167	2.14		
6.083	1.90	12.167	145.59	18.250	2.14		

Unit Hyd Qpeak (cms)= 0.519

PEAK FLOW (cms)= 0.169 (i)
TIME TO PEAK (hrs)= 12.833
RUNOFF VOLUME (mm)= 18.298
TOTAL RAINFALL (mm)= 118.950
RUNOFF COEFFICIENT = 0.154

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0008) | Area (ha)= 0.23 Curve Number (CN)= 32.0
| ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.33

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.90	12.250	17.14	18.33	2.14
0.167	0.00	6.250	2.14	12.333	17.13	18.42	2.14
0.250	1.31	6.333	2.14	12.417	17.13	18.50	2.14
0.333	1.31	6.417	2.14	12.500	17.13	18.58	2.14
0.417	1.31	6.500	2.14	12.583	17.13	18.67	2.14
0.500	1.31	6.583	2.14	12.667	17.13	18.75	2.14
0.583	1.31	6.667	2.14	12.750	8.80	18.83	2.14
0.667	1.31	6.750	2.14	12.833	8.80	18.92	2.14
0.750	1.31	6.833	2.14	12.917	8.80	19.00	2.14
0.833	1.31	6.917	2.14	13.000	8.80	19.08	2.14
0.917	1.31	7.000	2.14	13.083	8.80	19.17	2.14
1.000	1.31	7.083	2.14	13.167	8.80	19.25	2.14
1.083	1.31	7.167	2.14	13.250	6.42	19.33	2.14
1.167	1.31	7.250	2.62	13.333	6.42	19.42	2.14
1.250	1.31	7.333	2.62	13.417	6.42	19.50	2.14
1.333	1.31	7.417	2.62	13.500	6.42	19.58	2.14
1.417	1.31	7.500	2.62	13.583	6.42	19.67	2.14
1.500	1.31	7.583	2.62	13.667	6.42	19.75	2.14
1.583	1.31	7.667	2.62	13.750	5.00	19.83	2.14
1.667	1.31	7.750	2.62	13.833	5.00	19.92	2.14
1.750	1.31	7.833	2.62	13.917	5.00	20.00	2.14
1.833	1.31	7.917	2.62	14.000	5.00	20.08	2.14
1.917	1.31	8.000	2.62	14.083	5.00	20.17	2.14
2.000	1.31	8.083	2.62	14.167	5.00	20.25	1.43
2.083	1.31	8.167	2.62	14.250	3.57	20.33	1.43
2.167	1.31	8.250	3.09	14.333	3.57	20.42	1.43
2.250	1.55	8.333	3.09	14.417	3.57	20.50	1.43
2.333	1.55	8.417	3.09	14.500	3.57	20.58	1.43
2.417	1.55	8.500	3.09	14.583	3.57	20.67	1.43
2.500	1.55	8.583	3.09	14.667	3.57	20.75	1.43
2.583	1.55	8.667	3.09	14.750	3.57	20.83	1.43
2.667	1.55	8.750	3.33	14.833	3.57	20.92	1.43
2.750	1.55	8.833	3.33	14.917	3.57	21.00	1.43
2.833	1.55	8.917	3.33	15.000	3.57	21.08	1.43
2.917	1.55	9.000	3.33	15.083	3.57	21.17	1.43
3.000	1.55	9.083	3.33	15.167	3.57	21.25	1.43
3.083	1.55	9.167	3.33	15.250	3.57	21.33	1.43
3.167	1.55	9.250	3.81	15.333	3.57	21.42	1.43
3.250	1.55	9.333	3.81	15.417	3.57	21.50	1.43
3.333	1.55	9.417	3.81	15.500	3.57	21.58	1.43
3.417	1.55	9.500	3.81	15.583	3.57	21.67	1.43
3.500	1.55	9.583	3.81	15.667	3.57	21.75	1.43
3.583	1.55	9.667	3.81	15.750	3.57	21.83	1.43
3.667	1.55	9.750	4.28	15.833	3.57	21.92	1.43
3.750	1.55	9.833	4.28	15.917	3.57	22.00	1.43
3.833	1.55	9.917	4.28	16.000	3.57	22.08	1.43
3.917	1.55	10.000	4.28	16.083	3.57	22.17	1.43
4.000	1.55	10.083	4.28	16.167	3.57	22.25	1.43
4.083	1.55	10.167	4.28	16.250	2.14	22.33	1.43

4.167	1.55	10.250	5.47	16.333	2.14	22.42	1.43
4.250	1.90	10.333	5.47	16.417	2.14	22.50	1.43
4.333	1.90	10.417	5.47	16.500	2.14	22.58	1.43
4.417	1.90	10.500	5.47	16.583	2.14	22.67	1.43
4.500	1.90	10.583	5.47	16.667	2.14	22.75	1.43
4.583	1.90	10.667	5.47	16.750	2.14	22.83	1.43
4.667	1.90	10.750	7.37	16.833	2.14	22.92	1.43
4.750	1.90	10.833	7.37	16.917	2.14	23.00	1.43
4.833	1.90	10.917	7.37	17.000	2.14	23.08	1.43
4.917	1.90	11.000	7.37	17.083	2.14	23.17	1.43
5.000	1.90	11.083	7.37	17.167	2.14	23.25	1.43
5.083	1.90	11.167	7.37	17.250	2.14	23.33	1.43
5.167	1.90	11.250	11.42	17.333	2.14	23.42	1.43
5.250	1.90	11.333	11.42	17.417	2.14	23.50	1.43
5.333	1.90	11.417	11.42	17.500	2.14	23.58	1.43
5.417	1.90	11.500	11.42	17.583	2.14	23.67	1.43
5.500	1.90	11.583	11.42	17.667	2.14	23.75	1.43
5.583	1.90	11.667	11.42	17.750	2.14	23.83	1.43
5.667	1.90	11.750	35.21	17.833	2.14	23.92	1.43
5.750	1.90	11.833	35.21	17.917	2.14	24.00	1.43
5.833	1.90	11.917	90.40	18.000	2.14	24.08	1.43
5.917	1.90	12.000	90.40	18.083	2.14	24.17	1.43
6.000	1.90	12.083	145.59	18.167	2.14		
6.083	1.90	12.167	145.59	18.250	2.14		

Unit Hyd Qpeak (cms)= 0.027

PEAK FLOW (cms)= 0.007 (i)
TIME TO PEAK (hrs)= 12.333
RUNOFF VOLUME (mm)= 18.290
TOTAL RAINFALL (mm)= 118.950
RUNOFF COEFFICIENT = 0.154

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0013)| Area (ha)= 12.11 Curve Number (CN)= 48.1
|ID= 1 DT= 5.0 min | Ia (mm)= 11.30 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.55

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.90	12.250	17.14	18.33	2.14
0.167	0.00	6.250	2.14	12.333	17.13	18.42	2.14
0.250	1.31	6.333	2.14	12.417	17.13	18.50	2.14
0.333	1.31	6.417	2.14	12.500	17.13	18.58	2.14
0.417	1.31	6.500	2.14	12.583	17.13	18.67	2.14
0.500	1.31	6.583	2.14	12.667	17.13	18.75	2.14
0.583	1.31	6.667	2.14	12.750	8.80	18.83	2.14
0.667	1.31	6.750	2.14	12.833	8.80	18.92	2.14
0.750	1.31	6.833	2.14	12.917	8.80	19.00	2.14
0.833	1.31	6.917	2.14	13.000	8.80	19.08	2.14
0.917	1.31	7.000	2.14	13.083	8.80	19.17	2.14
1.000	1.31	7.083	2.14	13.167	8.80	19.25	2.14
1.083	1.31	7.167	2.14	13.250	6.42	19.33	2.14
1.167	1.31	7.250	2.62	13.333	6.42	19.42	2.14
1.250	1.31	7.333	2.62	13.417	6.42	19.50	2.14
1.333	1.31	7.417	2.62	13.500	6.42	19.58	2.14
1.417	1.31	7.500	2.62	13.583	6.42	19.67	2.14
1.500	1.31	7.583	2.62	13.667	6.42	19.75	2.14
1.583	1.31	7.667	2.62	13.750	5.00	19.83	2.14
1.667	1.31	7.750	2.62	13.833	5.00	19.92	2.14
1.750	1.31	7.833	2.62	13.917	5.00	20.00	2.14
1.833	1.31	7.917	2.62	14.000	5.00	20.08	2.14
1.917	1.31	8.000	2.62	14.083	5.00	20.17	2.14
2.000	1.31	8.083	2.62	14.167	5.00	20.25	1.43
2.083	1.31	8.167	2.62	14.250	3.57	20.33	1.43

2.167	1.31	8.250	3.09	14.333	3.57	20.42	1.43
2.250	1.55	8.333	3.09	14.417	3.57	20.50	1.43
2.333	1.55	8.417	3.09	14.500	3.57	20.58	1.43
2.417	1.55	8.500	3.09	14.583	3.57	20.67	1.43
2.500	1.55	8.583	3.09	14.667	3.57	20.75	1.43
2.583	1.55	8.667	3.09	14.750	3.57	20.83	1.43
2.667	1.55	8.750	3.33	14.833	3.57	20.92	1.43
2.750	1.55	8.833	3.33	14.917	3.57	21.00	1.43
2.833	1.55	8.917	3.33	15.000	3.57	21.08	1.43
2.917	1.55	9.000	3.33	15.083	3.57	21.17	1.43
3.000	1.55	9.083	3.33	15.167	3.57	21.25	1.43
3.083	1.55	9.167	3.33	15.250	3.57	21.33	1.43
3.167	1.55	9.250	3.81	15.333	3.57	21.42	1.43
3.250	1.55	9.333	3.81	15.417	3.57	21.50	1.43
3.333	1.55	9.417	3.81	15.500	3.57	21.58	1.43
3.417	1.55	9.500	3.81	15.583	3.57	21.67	1.43
3.500	1.55	9.583	3.81	15.667	3.57	21.75	1.43
3.583	1.55	9.667	3.81	15.750	3.57	21.83	1.43
3.667	1.55	9.750	4.28	15.833	3.57	21.92	1.43
3.750	1.55	9.833	4.28	15.917	3.57	22.00	1.43
3.833	1.55	9.917	4.28	16.000	3.57	22.08	1.43
3.917	1.55	10.000	4.28	16.083	3.57	22.17	1.43
4.000	1.55	10.083	4.28	16.167	3.57	22.25	1.43
4.083	1.55	10.167	4.28	16.250	2.14	22.33	1.43
4.167	1.55	10.250	5.47	16.333	2.14	22.42	1.43
4.250	1.90	10.333	5.47	16.417	2.14	22.50	1.43
4.333	1.90	10.417	5.47	16.500	2.14	22.58	1.43
4.417	1.90	10.500	5.47	16.583	2.14	22.67	1.43
4.500	1.90	10.583	5.47	16.667	2.14	22.75	1.43
4.583	1.90	10.667	5.47	16.750	2.14	22.83	1.43
4.667	1.90	10.750	7.37	16.833	2.14	22.92	1.43
4.750	1.90	10.833	7.37	16.917	2.14	23.00	1.43
4.833	1.90	10.917	7.37	17.000	2.14	23.08	1.43
4.917	1.90	11.000	7.37	17.083	2.14	23.17	1.43
5.000	1.90	11.083	7.37	17.167	2.14	23.25	1.43
5.083	1.90	11.167	7.37	17.250	2.14	23.33	1.43
5.167	1.90	11.250	11.42	17.333	2.14	23.42	1.43
5.250	1.90	11.333	11.42	17.417	2.14	23.50	1.43
5.333	1.90	11.417	11.42	17.500	2.14	23.58	1.43
5.417	1.90	11.500	11.42	17.583	2.14	23.67	1.43
5.500	1.90	11.583	11.42	17.667	2.14	23.75	1.43
5.583	1.90	11.667	11.42	17.750	2.14	23.83	1.43
5.667	1.90	11.750	35.21	17.833	2.14	23.92	1.43
5.750	1.90	11.833	35.21	17.917	2.14	24.00	1.43
5.833	1.90	11.917	90.40	18.000	2.14	24.08	1.43
5.917	1.90	12.000	90.40	18.083	2.14	24.17	1.43
6.000	1.90	12.083	145.59	18.167	2.14		
6.083	1.90	12.167	145.59	18.250	2.14		

Unit Hyd Qpeak (cms)= 0.841

PEAK FLOW (cms)= 0.435 (i)

TIME TO PEAK (hrs)= 12.667

RUNOFF VOLUME (mm)= 30.358

TOTAL RAINFALL (mm)= 118.950

RUNOFF COEFFICIENT = 0.255

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0012) | Area (ha)= 1.60 Curve Number (CN)= 49.7
 | ID= 1 DT= 5.0 min | Ia (mm)= 8.23 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.24

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.90	12.250	17.14	18.33	2.14

0.167	0.00	6.250	2.14	12.333	17.13	18.42	2.14
0.250	1.31	6.333	2.14	12.417	17.13	18.50	2.14
0.333	1.31	6.417	2.14	12.500	17.13	18.58	2.14
0.417	1.31	6.500	2.14	12.583	17.13	18.67	2.14
0.500	1.31	6.583	2.14	12.667	17.13	18.75	2.14
0.583	1.31	6.667	2.14	12.750	8.80	18.83	2.14
0.667	1.31	6.750	2.14	12.833	8.80	18.92	2.14
0.750	1.31	6.833	2.14	12.917	8.80	19.00	2.14
0.833	1.31	6.917	2.14	13.000	8.80	19.08	2.14
0.917	1.31	7.000	2.14	13.083	8.80	19.17	2.14
1.000	1.31	7.083	2.14	13.167	8.80	19.25	2.14
1.083	1.31	7.167	2.14	13.250	6.42	19.33	2.14
1.167	1.31	7.250	2.62	13.333	6.42	19.42	2.14
1.250	1.31	7.333	2.62	13.417	6.42	19.50	2.14
1.333	1.31	7.417	2.62	13.500	6.42	19.58	2.14
1.417	1.31	7.500	2.62	13.583	6.42	19.67	2.14
1.500	1.31	7.583	2.62	13.667	6.42	19.75	2.14
1.583	1.31	7.667	2.62	13.750	5.00	19.83	2.14
1.667	1.31	7.750	2.62	13.833	5.00	19.92	2.14
1.750	1.31	7.833	2.62	13.917	5.00	20.00	2.14
1.833	1.31	7.917	2.62	14.000	5.00	20.08	2.14
1.917	1.31	8.000	2.62	14.083	5.00	20.17	2.14
2.000	1.31	8.083	2.62	14.167	5.00	20.25	1.43
2.083	1.31	8.167	2.62	14.250	3.57	20.33	1.43
2.167	1.31	8.250	3.09	14.333	3.57	20.42	1.43
2.250	1.55	8.333	3.09	14.417	3.57	20.50	1.43
2.333	1.55	8.417	3.09	14.500	3.57	20.58	1.43
2.417	1.55	8.500	3.09	14.583	3.57	20.67	1.43
2.500	1.55	8.583	3.09	14.667	3.57	20.75	1.43
2.583	1.55	8.667	3.09	14.750	3.57	20.83	1.43
2.667	1.55	8.750	3.33	14.833	3.57	20.92	1.43
2.750	1.55	8.833	3.33	14.917	3.57	21.00	1.43
2.833	1.55	8.917	3.33	15.000	3.57	21.08	1.43
2.917	1.55	9.000	3.33	15.083	3.57	21.17	1.43
3.000	1.55	9.083	3.33	15.167	3.57	21.25	1.43
3.083	1.55	9.167	3.33	15.250	3.57	21.33	1.43
3.167	1.55	9.250	3.81	15.333	3.57	21.42	1.43
3.250	1.55	9.333	3.81	15.417	3.57	21.50	1.43
3.333	1.55	9.417	3.81	15.500	3.57	21.58	1.43
3.417	1.55	9.500	3.81	15.583	3.57	21.67	1.43
3.500	1.55	9.583	3.81	15.667	3.57	21.75	1.43
3.583	1.55	9.667	3.81	15.750	3.57	21.83	1.43
3.667	1.55	9.750	4.28	15.833	3.57	21.92	1.43
3.750	1.55	9.833	4.28	15.917	3.57	22.00	1.43
3.833	1.55	9.917	4.28	16.000	3.57	22.08	1.43
3.917	1.55	10.000	4.28	16.083	3.57	22.17	1.43
4.000	1.55	10.083	4.28	16.167	3.57	22.25	1.43
4.083	1.55	10.167	4.28	16.250	2.14	22.33	1.43
4.167	1.55	10.250	5.47	16.333	2.14	22.42	1.43
4.250	1.90	10.333	5.47	16.417	2.14	22.50	1.43
4.333	1.90	10.417	5.47	16.500	2.14	22.58	1.43
4.417	1.90	10.500	5.47	16.583	2.14	22.67	1.43
4.500	1.90	10.583	5.47	16.667	2.14	22.75	1.43
4.583	1.90	10.667	5.47	16.750	2.14	22.83	1.43
4.667	1.90	10.750	7.37	16.833	2.14	22.92	1.43
4.750	1.90	10.833	7.37	16.917	2.14	23.00	1.43
4.833	1.90	10.917	7.37	17.000	2.14	23.08	1.43
4.917	1.90	11.000	7.37	17.083	2.14	23.17	1.43
5.000	1.90	11.083	7.37	17.167	2.14	23.25	1.43
5.083	1.90	11.167	7.37	17.250	2.14	23.33	1.43
5.167	1.90	11.250	11.42	17.333	2.14	23.42	1.43
5.250	1.90	11.333	11.42	17.417	2.14	23.50	1.43
5.333	1.90	11.417	11.42	17.500	2.14	23.58	1.43
5.417	1.90	11.500	11.42	17.583	2.14	23.67	1.43
5.500	1.90	11.583	11.42	17.667	2.14	23.75	1.43
5.583	1.90	11.667	11.42	17.750	2.14	23.83	1.43
5.667	1.90	11.750	35.21	17.833	2.14	23.92	1.43
5.750	1.90	11.833	35.21	17.917	2.14	24.00	1.43
5.833	1.90	11.917	90.40	18.000	2.14	24.08	1.43
5.917	1.90	12.000	90.40	18.083	2.14	24.17	1.43
6.000	1.90	12.083	145.59	18.167	2.14		
6.083	1.90	12.167	145.59	18.250	2.14		

Unit Hyd Qpeak (cms)= 0.255

PEAK FLOW (cms)= 0.114 (i)
TIME TO PEAK (hrs)= 12.250
RUNOFF VOLUME (mm)= 33.300
TOTAL RAINFALL (mm)= 118.950
RUNOFF COEFFICIENT = 0.280

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0007) | Area (ha)= 1.70 Curve Number (CN)= 62.0
| ID= 1 DT= 5.0 min | Ia (mm)= 7.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.43

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.90	12.250	17.14	18.33	2.14
0.167	0.00	6.250	2.14	12.333	17.13	18.42	2.14
0.250	1.31	6.333	2.14	12.417	17.13	18.50	2.14
0.333	1.31	6.417	2.14	12.500	17.13	18.58	2.14
0.417	1.31	6.500	2.14	12.583	17.13	18.67	2.14
0.500	1.31	6.583	2.14	12.667	17.13	18.75	2.14
0.583	1.31	6.667	2.14	12.750	8.80	18.83	2.14
0.667	1.31	6.750	2.14	12.833	8.80	18.92	2.14
0.750	1.31	6.833	2.14	12.917	8.80	19.00	2.14
0.833	1.31	6.917	2.14	13.000	8.80	19.08	2.14
0.917	1.31	7.000	2.14	13.083	8.80	19.17	2.14
1.000	1.31	7.083	2.14	13.167	8.80	19.25	2.14
1.083	1.31	7.167	2.14	13.250	6.42	19.33	2.14
1.167	1.31	7.250	2.62	13.333	6.42	19.42	2.14
1.250	1.31	7.333	2.62	13.417	6.42	19.50	2.14
1.333	1.31	7.417	2.62	13.500	6.42	19.58	2.14
1.417	1.31	7.500	2.62	13.583	6.42	19.67	2.14
1.500	1.31	7.583	2.62	13.667	6.42	19.75	2.14
1.583	1.31	7.667	2.62	13.750	5.00	19.83	2.14
1.667	1.31	7.750	2.62	13.833	5.00	19.92	2.14
1.750	1.31	7.833	2.62	13.917	5.00	20.00	2.14
1.833	1.31	7.917	2.62	14.000	5.00	20.08	2.14
1.917	1.31	8.000	2.62	14.083	5.00	20.17	2.14
2.000	1.31	8.083	2.62	14.167	5.00	20.25	1.43
2.083	1.31	8.167	2.62	14.250	3.57	20.33	1.43
2.167	1.31	8.250	3.09	14.333	3.57	20.42	1.43
2.250	1.55	8.333	3.09	14.417	3.57	20.50	1.43
2.333	1.55	8.417	3.09	14.500	3.57	20.58	1.43
2.417	1.55	8.500	3.09	14.583	3.57	20.67	1.43
2.500	1.55	8.583	3.09	14.667	3.57	20.75	1.43
2.583	1.55	8.667	3.09	14.750	3.57	20.83	1.43
2.667	1.55	8.750	3.33	14.833	3.57	20.92	1.43
2.750	1.55	8.833	3.33	14.917	3.57	21.00	1.43
2.833	1.55	8.917	3.33	15.000	3.57	21.08	1.43
2.917	1.55	9.000	3.33	15.083	3.57	21.17	1.43
3.000	1.55	9.083	3.33	15.167	3.57	21.25	1.43
3.083	1.55	9.167	3.33	15.250	3.57	21.33	1.43
3.167	1.55	9.250	3.81	15.333	3.57	21.42	1.43
3.250	1.55	9.333	3.81	15.417	3.57	21.50	1.43
3.333	1.55	9.417	3.81	15.500	3.57	21.58	1.43
3.417	1.55	9.500	3.81	15.583	3.57	21.67	1.43
3.500	1.55	9.583	3.81	15.667	3.57	21.75	1.43
3.583	1.55	9.667	3.81	15.750	3.57	21.83	1.43
3.667	1.55	9.750	4.28	15.833	3.57	21.92	1.43
3.750	1.55	9.833	4.28	15.917	3.57	22.00	1.43
3.833	1.55	9.917	4.28	16.000	3.57	22.08	1.43
3.917	1.55	10.000	4.28	16.083	3.57	22.17	1.43
4.000	1.55	10.083	4.28	16.167	3.57	22.25	1.43
4.083	1.55	10.167	4.28	16.250	2.14	22.33	1.43
4.167	1.55	10.250	5.47	16.333	2.14	22.42	1.43

4.250	1.90	10.333	5.47	16.417	2.14	22.50	1.43
4.333	1.90	10.417	5.47	16.500	2.14	22.58	1.43
4.417	1.90	10.500	5.47	16.583	2.14	22.67	1.43
4.500	1.90	10.583	5.47	16.667	2.14	22.75	1.43
4.583	1.90	10.667	5.47	16.750	2.14	22.83	1.43
4.667	1.90	10.750	7.37	16.833	2.14	22.92	1.43
4.750	1.90	10.833	7.37	16.917	2.14	23.00	1.43
4.833	1.90	10.917	7.37	17.000	2.14	23.08	1.43
4.917	1.90	11.000	7.37	17.083	2.14	23.17	1.43
5.000	1.90	11.083	7.37	17.167	2.14	23.25	1.43
5.083	1.90	11.167	7.37	17.250	2.14	23.33	1.43
5.167	1.90	11.250	11.42	17.333	2.14	23.42	1.43
5.250	1.90	11.333	11.42	17.417	2.14	23.50	1.43
5.333	1.90	11.417	11.42	17.500	2.14	23.58	1.43
5.417	1.90	11.500	11.42	17.583	2.14	23.67	1.43
5.500	1.90	11.583	11.42	17.667	2.14	23.75	1.43
5.583	1.90	11.667	11.42	17.750	2.14	23.83	1.43
5.667	1.90	11.750	35.21	17.833	2.14	23.92	1.43
5.750	1.90	11.833	35.21	17.917	2.14	24.00	1.43
5.833	1.90	11.917	90.40	18.000	2.14	24.08	1.43
5.917	1.90	12.000	90.40	18.083	2.14	24.17	1.43
6.000	1.90	12.083	145.59	18.167	2.14		
6.083	1.90	12.167	145.59	18.250	2.14		

Unit Hyd Qpeak (cms)= 0.151

PEAK FLOW (cms)= 0.116 (i)
TIME TO PEAK (hrs)= 12.500
RUNOFF VOLUME (mm)= 46.824
TOTAL RAINFALL (mm)= 118.950
RUNOFF COEFFICIENT = 0.394

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0006)| Area (ha)= 1.82 Curve Number (CN)= 32.0
|ID= 1 DT= 5.0 min| la (mm)= 10.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.30

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.90	12.250	17.14	18.33	2.14
0.167	0.00	6.250	2.14	12.333	17.13	18.42	2.14
0.250	1.31	6.333	2.14	12.417	17.13	18.50	2.14
0.333	1.31	6.417	2.14	12.500	17.13	18.58	2.14
0.417	1.31	6.500	2.14	12.583	17.13	18.67	2.14
0.500	1.31	6.583	2.14	12.667	17.13	18.75	2.14
0.583	1.31	6.667	2.14	12.750	8.80	18.83	2.14
0.667	1.31	6.750	2.14	12.833	8.80	18.92	2.14
0.750	1.31	6.833	2.14	12.917	8.80	19.00	2.14
0.833	1.31	6.917	2.14	13.000	8.80	19.08	2.14
0.917	1.31	7.000	2.14	13.083	8.80	19.17	2.14
1.000	1.31	7.083	2.14	13.167	8.80	19.25	2.14
1.083	1.31	7.167	2.14	13.250	6.42	19.33	2.14
1.167	1.31	7.250	2.62	13.333	6.42	19.42	2.14
1.250	1.31	7.333	2.62	13.417	6.42	19.50	2.14
1.333	1.31	7.417	2.62	13.500	6.42	19.58	2.14
1.417	1.31	7.500	2.62	13.583	6.42	19.67	2.14
1.500	1.31	7.583	2.62	13.667	6.42	19.75	2.14
1.583	1.31	7.667	2.62	13.750	5.00	19.83	2.14
1.667	1.31	7.750	2.62	13.833	5.00	19.92	2.14
1.750	1.31	7.833	2.62	13.917	5.00	20.00	2.14
1.833	1.31	7.917	2.62	14.000	5.00	20.08	2.14
1.917	1.31	8.000	2.62	14.083	5.00	20.17	2.14
2.000	1.31	8.083	2.62	14.167	5.00	20.25	1.43
2.083	1.31	8.167	2.62	14.250	3.57	20.33	1.43
2.167	1.31	8.250	3.09	14.333	3.57	20.42	1.43

2.250	1.55	8.333	3.09	14.417	3.57	20.50	1.43
2.333	1.55	8.417	3.09	14.500	3.57	20.58	1.43
2.417	1.55	8.500	3.09	14.583	3.57	20.67	1.43
2.500	1.55	8.583	3.09	14.667	3.57	20.75	1.43
2.583	1.55	8.667	3.09	14.750	3.57	20.83	1.43
2.667	1.55	8.750	3.33	14.833	3.57	20.92	1.43
2.750	1.55	8.833	3.33	14.917	3.57	21.00	1.43
2.833	1.55	8.917	3.33	15.000	3.57	21.08	1.43
2.917	1.55	9.000	3.33	15.083	3.57	21.17	1.43
3.000	1.55	9.083	3.33	15.167	3.57	21.25	1.43
3.083	1.55	9.167	3.33	15.250	3.57	21.33	1.43
3.167	1.55	9.250	3.81	15.333	3.57	21.42	1.43
3.250	1.55	9.333	3.81	15.417	3.57	21.50	1.43
3.333	1.55	9.417	3.81	15.500	3.57	21.58	1.43
3.417	1.55	9.500	3.81	15.583	3.57	21.67	1.43
3.500	1.55	9.583	3.81	15.667	3.57	21.75	1.43
3.583	1.55	9.667	3.81	15.750	3.57	21.83	1.43
3.667	1.55	9.750	4.28	15.833	3.57	21.92	1.43
3.750	1.55	9.833	4.28	15.917	3.57	22.00	1.43
3.833	1.55	9.917	4.28	16.000	3.57	22.08	1.43
3.917	1.55	10.000	4.28	16.083	3.57	22.17	1.43
4.000	1.55	10.083	4.28	16.167	3.57	22.25	1.43
4.083	1.55	10.167	4.28	16.250	2.14	22.33	1.43
4.167	1.55	10.250	5.47	16.333	2.14	22.42	1.43
4.250	1.90	10.333	5.47	16.417	2.14	22.50	1.43
4.333	1.90	10.417	5.47	16.500	2.14	22.58	1.43
4.417	1.90	10.500	5.47	16.583	2.14	22.67	1.43
4.500	1.90	10.583	5.47	16.667	2.14	22.75	1.43
4.583	1.90	10.667	5.47	16.750	2.14	22.83	1.43
4.667	1.90	10.750	7.37	16.833	2.14	22.92	1.43
4.750	1.90	10.833	7.37	16.917	2.14	23.00	1.43
4.833	1.90	10.917	7.37	17.000	2.14	23.08	1.43
4.917	1.90	11.000	7.37	17.083	2.14	23.17	1.43
5.000	1.90	11.083	7.37	17.167	2.14	23.25	1.43
5.083	1.90	11.167	7.37	17.250	2.14	23.33	1.43
5.167	1.90	11.250	11.42	17.333	2.14	23.42	1.43
5.250	1.90	11.333	11.42	17.417	2.14	23.50	1.43
5.333	1.90	11.417	11.42	17.500	2.14	23.58	1.43
5.417	1.90	11.500	11.42	17.583	2.14	23.67	1.43
5.500	1.90	11.583	11.42	17.667	2.14	23.75	1.43
5.583	1.90	11.667	11.42	17.750	2.14	23.83	1.43
5.667	1.90	11.750	35.21	17.833	2.14	23.92	1.43
5.750	1.90	11.833	35.21	17.917	2.14	24.00	1.43
5.833	1.90	11.917	90.40	18.000	2.14	24.08	1.43
5.917	1.90	12.000	90.40	18.083	2.14	24.17	1.43
6.000	1.90	12.083	145.59	18.167	2.14		
6.083	1.90	12.167	145.59	18.250	2.14		

Unit Hyd Qpeak (cms)= 0.232

PEAK FLOW (cms)= 0.059 (i)

TIME TO PEAK (hrs)= 12.333

RUNOFF VOLUME (mm)= 18.291

TOTAL RAINFALL (mm)= 118.950

RUNOFF COEFFICIENT = 0.154

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | STANDHYD (0020) | Area (ha)= 3.73
 | ID= 1 DT= 5.0 min | Total Imp(%)= 47.13 Dir. Conn.(%)= 36.26

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	1.76	1.97
Dep. Storage (mm)=	2.00	5.00
Average Slope (%)=	1.00	2.00
Length (m)=	56.00	32.50
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.90	12.250	17.14	18.33	2.14
0.167	0.00	6.250	2.14	12.333	17.13	18.42	2.14
0.250	1.31	6.333	2.14	12.417	17.13	18.50	2.14
0.333	1.31	6.417	2.14	12.500	17.13	18.58	2.14
0.417	1.31	6.500	2.14	12.583	17.13	18.67	2.14
0.500	1.31	6.583	2.14	12.667	17.13	18.75	2.14
0.583	1.31	6.667	2.14	12.750	8.80	18.83	2.14
0.667	1.31	6.750	2.14	12.833	8.80	18.92	2.14
0.750	1.31	6.833	2.14	12.917	8.80	19.00	2.14
0.833	1.31	6.917	2.14	13.000	8.80	19.08	2.14
0.917	1.31	7.000	2.14	13.083	8.80	19.17	2.14
1.000	1.31	7.083	2.14	13.167	8.80	19.25	2.14
1.083	1.31	7.167	2.14	13.250	6.42	19.33	2.14
1.167	1.31	7.250	2.62	13.333	6.42	19.42	2.14
1.250	1.31	7.333	2.62	13.417	6.42	19.50	2.14
1.333	1.31	7.417	2.62	13.500	6.42	19.58	2.14
1.417	1.31	7.500	2.62	13.583	6.42	19.67	2.14
1.500	1.31	7.583	2.62	13.667	6.42	19.75	2.14
1.583	1.31	7.667	2.62	13.750	5.00	19.83	2.14
1.667	1.31	7.750	2.62	13.833	5.00	19.92	2.14
1.750	1.31	7.833	2.62	13.917	5.00	20.00	2.14
1.833	1.31	7.917	2.62	14.000	5.00	20.08	2.14
1.917	1.31	8.000	2.62	14.083	5.00	20.17	2.14
2.000	1.31	8.083	2.62	14.167	5.00	20.25	1.43
2.083	1.31	8.167	2.62	14.250	3.57	20.33	1.43
2.167	1.31	8.250	3.09	14.333	3.57	20.42	1.43
2.250	1.55	8.333	3.09	14.417	3.57	20.50	1.43
2.333	1.55	8.417	3.09	14.500	3.57	20.58	1.43
2.417	1.55	8.500	3.09	14.583	3.57	20.67	1.43
2.500	1.55	8.583	3.09	14.667	3.57	20.75	1.43
2.583	1.55	8.667	3.09	14.750	3.57	20.83	1.43
2.667	1.55	8.750	3.33	14.833	3.57	20.92	1.43
2.750	1.55	8.833	3.33	14.917	3.57	21.00	1.43
2.833	1.55	8.917	3.33	15.000	3.57	21.08	1.43
2.917	1.55	9.000	3.33	15.083	3.57	21.17	1.43
3.000	1.55	9.083	3.33	15.167	3.57	21.25	1.43
3.083	1.55	9.167	3.33	15.250	3.57	21.33	1.43
3.167	1.55	9.250	3.81	15.333	3.57	21.42	1.43
3.250	1.55	9.333	3.81	15.417	3.57	21.50	1.43
3.333	1.55	9.417	3.81	15.500	3.57	21.58	1.43
3.417	1.55	9.500	3.81	15.583	3.57	21.67	1.43
3.500	1.55	9.583	3.81	15.667	3.57	21.75	1.43
3.583	1.55	9.667	3.81	15.750	3.57	21.83	1.43
3.667	1.55	9.750	4.28	15.833	3.57	21.92	1.43
3.750	1.55	9.833	4.28	15.917	3.57	22.00	1.43
3.833	1.55	9.917	4.28	16.000	3.57	22.08	1.43
3.917	1.55	10.000	4.28	16.083	3.57	22.17	1.43
4.000	1.55	10.083	4.28	16.167	3.57	22.25	1.43
4.083	1.55	10.167	4.28	16.250	2.14	22.33	1.43
4.167	1.55	10.250	5.47	16.333	2.14	22.42	1.43
4.250	1.90	10.333	5.47	16.417	2.14	22.50	1.43
4.333	1.90	10.417	5.47	16.500	2.14	22.58	1.43
4.417	1.90	10.500	5.47	16.583	2.14	22.67	1.43
4.500	1.90	10.583	5.47	16.667	2.14	22.75	1.43
4.583	1.90	10.667	5.47	16.750	2.14	22.83	1.43
4.667	1.90	10.750	7.37	16.833	2.14	22.92	1.43
4.750	1.90	10.833	7.37	16.917	2.14	23.00	1.43
4.833	1.90	10.917	7.37	17.000	2.14	23.08	1.43
4.917	1.90	11.000	7.37	17.083	2.14	23.17	1.43
5.000	1.90	11.083	7.37	17.167	2.14	23.25	1.43
5.083	1.90	11.167	7.37	17.250	2.14	23.33	1.43
5.167	1.90	11.250	11.42	17.333	2.14	23.42	1.43
5.250	1.90	11.333	11.42	17.417	2.14	23.50	1.43
5.333	1.90	11.417	11.42	17.500	2.14	23.58	1.43
5.417	1.90	11.500	11.42	17.583	2.14	23.67	1.43
5.500	1.90	11.583	11.42	17.667	2.14	23.75	1.43
5.583	1.90	11.667	11.42	17.750	2.14	23.83	1.43
5.667	1.90	11.750	35.21	17.833	2.14	23.92	1.43
5.750	1.90	11.833	35.21	17.917	2.14	24.00	1.43

5.833	1.90	11.917	90.40	18.000	2.14	24.08	1.43
5.917	1.90	12.000	90.40	18.083	2.14	24.17	1.43
6.000	1.90	12.083	145.59	18.167	2.14		
6.083	1.90	12.167	145.59	18.250	2.14		

Max.Eff.Inten.(mm/hr)=	145.59	69.09
over (min)	5.00	10.00
Storage Coeff. (min)=	1.55 (ii)	8.78 (ii)
Unit Hyd. Tpeak (min)=	5.00	10.00
Unit Hyd. peak (cms)=	0.33	0.12
TOTALS		
PEAK FLOW (cms)=	0.55	0.26 0.809 (iii)
TIME TO PEAK (hrs)=	12.17	12.17 12.17
RUNOFF VOLUME (mm)=	116.95	39.45 67.55
TOTAL RAINFALL (mm)=	118.95	118.95 118.95
RUNOFF COEFFICIENT =	0.98	0.33 0.57

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 49.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0026)| OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE
----- (cms) (ha.m.) | (cms) (ha.m.)

0.0000	0.0000	0.0240	0.1740
0.0030	0.0310	0.0270	0.1880
0.0050	0.0640	0.0310	0.2150
0.0060	0.0990	0.0370	0.2560
0.0080	0.1360	0.0000	0.0000

AREA	QPEAK	TPEAK	R.V.
(ha)	(cms)	(hrs)	(mm)
INFLOW : ID= 2 (0020)	3.730	0.809	12.17 67.55
OUTFLOW: ID= 1 (0026)	3.730	0.024	16.17 66.85

PEAK FLOW REDUCTION [Qout/Qin](%)=	3.02
TIME SHIFT OF PEAK FLOW (min)=	240.00
MAXIMUM STORAGE USED (ha.m.)=	0.1760

| CALIB |
| STANDHYD (0021)| Area (ha)= 2.16
| ID= 1 DT= 5.0 min | Total Imp(%)= 41.54 Dir. Conn.(%)= 31.77

IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.90 1.26
Dep. Storage (mm)=	2.00 5.00
Average Slope (%)=	1.20 2.00
Length (m)=	64.00 33.00
Mannings n =	0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME RAIN		TIME RAIN		TIME RAIN		TIME RAIN
hrs mm/hr		hrs mm/hr		hrs mm/hr		hrs mm/hr
0.083	0.00	6.167	1.90	12.250	17.14	18.33 2.14
0.167	0.00	6.250	2.14	12.333	17.13	18.42 2.14
0.250	1.31	6.333	2.14	12.417	17.13	18.50 2.14
0.333	1.31	6.417	2.14	12.500	17.13	18.58 2.14
0.417	1.31	6.500	2.14	12.583	17.13	18.67 2.14
0.500	1.31	6.583	2.14	12.667	17.13	18.75 2.14
0.583	1.31	6.667	2.14	12.750	8.80	18.83 2.14
0.667	1.31	6.750	2.14	12.833	8.80	18.92 2.14

0.750	1.31	6.833	2.14	12.917	8.80	19.00	2.14
0.833	1.31	6.917	2.14	13.000	8.80	19.08	2.14
0.917	1.31	7.000	2.14	13.083	8.80	19.17	2.14
1.000	1.31	7.083	2.14	13.167	8.80	19.25	2.14
1.083	1.31	7.167	2.14	13.250	6.42	19.33	2.14
1.167	1.31	7.250	2.62	13.333	6.42	19.42	2.14
1.250	1.31	7.333	2.62	13.417	6.42	19.50	2.14
1.333	1.31	7.417	2.62	13.500	6.42	19.58	2.14
1.417	1.31	7.500	2.62	13.583	6.42	19.67	2.14
1.500	1.31	7.583	2.62	13.667	6.42	19.75	2.14
1.583	1.31	7.667	2.62	13.750	5.00	19.83	2.14
1.667	1.31	7.750	2.62	13.833	5.00	19.92	2.14
1.750	1.31	7.833	2.62	13.917	5.00	20.00	2.14
1.833	1.31	7.917	2.62	14.000	5.00	20.08	2.14
1.917	1.31	8.000	2.62	14.083	5.00	20.17	2.14
2.000	1.31	8.083	2.62	14.167	5.00	20.25	1.43
2.083	1.31	8.167	2.62	14.250	3.57	20.33	1.43
2.167	1.31	8.250	3.09	14.333	3.57	20.42	1.43
2.250	1.55	8.333	3.09	14.417	3.57	20.50	1.43
2.333	1.55	8.417	3.09	14.500	3.57	20.58	1.43
2.417	1.55	8.500	3.09	14.583	3.57	20.67	1.43
2.500	1.55	8.583	3.09	14.667	3.57	20.75	1.43
2.583	1.55	8.667	3.09	14.750	3.57	20.83	1.43
2.667	1.55	8.750	3.33	14.833	3.57	20.92	1.43
2.750	1.55	8.833	3.33	14.917	3.57	21.00	1.43
2.833	1.55	8.917	3.33	15.000	3.57	21.08	1.43
2.917	1.55	9.000	3.33	15.083	3.57	21.17	1.43
3.000	1.55	9.083	3.33	15.167	3.57	21.25	1.43
3.083	1.55	9.167	3.33	15.250	3.57	21.33	1.43
3.167	1.55	9.250	3.81	15.333	3.57	21.42	1.43
3.250	1.55	9.333	3.81	15.417	3.57	21.50	1.43
3.333	1.55	9.417	3.81	15.500	3.57	21.58	1.43
3.417	1.55	9.500	3.81	15.583	3.57	21.67	1.43
3.500	1.55	9.583	3.81	15.667	3.57	21.75	1.43
3.583	1.55	9.667	3.81	15.750	3.57	21.83	1.43
3.667	1.55	9.750	4.28	15.833	3.57	21.92	1.43
3.750	1.55	9.833	4.28	15.917	3.57	22.00	1.43
3.833	1.55	9.917	4.28	16.000	3.57	22.08	1.43
3.917	1.55	10.000	4.28	16.083	3.57	22.17	1.43
4.000	1.55	10.083	4.28	16.167	3.57	22.25	1.43
4.083	1.55	10.167	4.28	16.250	2.14	22.33	1.43
4.167	1.55	10.250	5.47	16.333	2.14	22.42	1.43
4.250	1.90	10.333	5.47	16.417	2.14	22.50	1.43
4.333	1.90	10.417	5.47	16.500	2.14	22.58	1.43
4.417	1.90	10.500	5.47	16.583	2.14	22.67	1.43
4.500	1.90	10.583	5.47	16.667	2.14	22.75	1.43
4.583	1.90	10.667	5.47	16.750	2.14	22.83	1.43
4.667	1.90	10.750	7.37	16.833	2.14	22.92	1.43
4.750	1.90	10.833	7.37	16.917	2.14	23.00	1.43
4.833	1.90	10.917	7.37	17.000	2.14	23.08	1.43
4.917	1.90	11.000	7.37	17.083	2.14	23.17	1.43
5.000	1.90	11.083	7.37	17.167	2.14	23.25	1.43
5.083	1.90	11.167	7.37	17.250	2.14	23.33	1.43
5.167	1.90	11.250	11.42	17.333	2.14	23.42	1.43
5.250	1.90	11.333	11.42	17.417	2.14	23.50	1.43
5.333	1.90	11.417	11.42	17.500	2.14	23.58	1.43
5.417	1.90	11.500	11.42	17.583	2.14	23.67	1.43
5.500	1.90	11.583	11.42	17.667	2.14	23.75	1.43
5.583	1.90	11.667	11.42	17.750	2.14	23.83	1.43
5.667	1.90	11.750	35.21	17.833	2.14	23.92	1.43
5.750	1.90	11.833	35.21	17.917	2.14	24.00	1.43
5.833	1.90	11.917	90.40	18.000	2.14	24.08	1.43
5.917	1.90	12.000	90.40	18.083	2.14	24.17	1.43
6.000	1.90	12.083	145.59	18.167	2.14		
6.083	1.90	12.167	145.59	18.250	2.14		

Max.Eff.Inten.(mm/hr)=	145.59	65.32
over (min)	5.00	10.00
Storage Coeff. (min)=	1.59 (ii)	9.05 (ii)
Unit Hyd. Tpeak (min)=	5.00	10.00
Unit Hyd. peak (cms)=	0.33	0.12
	TOTALS	
PEAK FLOW (cms)=	0.28	0.16 0.434 (iii)

TIME TO PEAK (hrs)= 12.17 12.17 12.17
RUNOFF VOLUME (mm)= 116.95 38.54 63.45
TOTAL RAINFALL (mm)= 118.95 118.95 118.95
RUNOFF COEFFICIENT = 0.98 0.32 0.53

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 49.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0025)| OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE
----- (cms) (ha.m.) | (cms) (ha.m.)

0.0000	0.0000		0.0300	0.0570
0.0010	0.0070		0.0340	0.0670
0.0020	0.0140		0.0380	0.0780
0.0020	0.0210		0.0400	0.0870
0.0020	0.0230		0.0410	0.0890
0.0020	0.0300		0.0440	0.1010
0.0180	0.0380		0.0470	0.1120
0.0240	0.0470		0.0000	0.0000

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW: ID= 2 (0021)	2.160	0.434	12.17	63.45
OUTFLOW: ID= 1 (0025)	2.160	0.038	13.00	62.62

PEAK FLOW REDUCTION [Qout/Qin](%)= 8.74
TIME SHIFT OF PEAK FLOW (min)= 50.00
MAXIMUM STORAGE USED (ha.m.)= 0.0778

| ADD HYD (0019)|
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 1 (0012): 1.60 0.114 12.25 33.30
+ ID2= 2 (0013): 12.11 0.435 12.67 30.36
=====

ID = 3 (0019): 13.71 0.498 12.50 30.70

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 3 (0019): 13.71 0.498 12.50 30.70
+ ID2= 2 (0017): 5.08 0.241 12.33 26.52
=====

ID = 1 (0019): 18.79 0.716 12.42 29.57

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 1 (0019): 18.79 0.716 12.42 29.57
+ ID2= 2 (0023): 3.32 0.106 12.75 60.65
=====

ID = 3 (0019): 22.11 0.816 12.42 34.24

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 3 (0019): 22.11 0.816 12.42 34.24
+ ID2= 2 (0025): 2.16 0.038 13.00 62.62
=====

ID = 1 (0019): 24.27 0.852 12.42 36.77

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 1 (0019): 24.27 0.852 12.42 36.77
+ ID2= 2 (0026): 3.73 0.024 16.17 66.85
=====

ID = 3 (0019): 28.00 0.864 12.42 40.77

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 3 (0019): 28.00 0.864 12.42 40.77
+ ID2= 2 (0028): 14.72 0.232 13.00 18.30
=====

ID = 1 (0019): 42.72 1.037 12.50 33.03

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 1 (0019): 42.72 1.037 12.50 33.03
+ ID2= 2 (0005): 9.65 0.169 12.83 18.30
=====

ID = 3 (0019): 52.37 1.189 12.58 30.31

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 3 (0019): 52.37 1.189 12.58 30.31
+ ID2= 2 (0006): 1.82 0.059 12.33 18.29
=====

ID = 1 (0019): 54.19 1.234 12.58 29.91

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 1 (0019): 54.19 1.234 12.58 29.91
+ ID2= 2 (0007): 1.70 0.116 12.50 46.82
=====

ID = 3 (0019): 55.89 1.347 12.58 30.42

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 3 (0019): 55.89 1.347 12.58 30.42
+ ID2= 2 (0008): 0.23 0.007 12.33 18.29
=====

ID = 1 (0019): 56.12 1.353 12.58 30.38

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

V V I SSSSS U U A L (v 6.2.2015)
V V I SS U U A A L
V V I SS U U A A A A A L
V V I SS U U A A L
V V I SSSSS UUUUU A A LLLLL

OOO TTTT TTTT H H Y Y M M OOO TM
O O T T H H Y Y M M M M O O
O O T T H H Y M M O O
OOO T T H H Y M M OOO

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***** DETAILED OUTPUT *****

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.2\VO2\voin.dat
Output filename: C:\Users\ajoshi\AppData\Local\Civica\XH5\152aa03f-7064-4fdb-bb4c-0cf677e1e463\00d926fe-5336-4f96-9331-e97e845aeda2\scena
Summary filename: C:\Users\ajoshi\AppData\Local\Civica\XH5\152aa03f-7064-4fdb-bb4c-0cf677e1e463\00d926fe-5336-4f96-9331-e97e845aeda2\scena

DATE: 04-25-2025 TIME: 04:08:38

USER:

COMMENTS: _____

** SIMULATION : 5yr 24hr 10min SCS Type II (M **

| READ STORM | Filename: C:\Users\ajoshi\AppData
| | ata\Local\Temp\
| | 7bb2ef64-4018-4f05-a7fd-fa3d49c20288\86c4e64f
| Ptotal= 78.34 mm | Comments: 5yr 24hr 10min SCS Type II (MTO)

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.00	0.00	6.17	1.41	12.33	11.28	18.50	1.41
0.17	0.86	6.33	1.41	12.50	11.28	18.67	1.41
0.33	0.86	6.50	1.41	12.67	5.80	18.83	1.41
0.50	0.86	6.67	1.41	12.83	5.80	19.00	1.41
0.67	0.86	6.83	1.41	13.00	5.80	19.17	1.41
0.83	0.86	7.00	1.41	13.17	4.23	19.33	1.41
1.00	0.86	7.17	1.72	13.33	4.23	19.50	1.41
1.17	0.86	7.33	1.72	13.50	4.23	19.67	1.41
1.33	0.86	7.50	1.72	13.67	3.29	19.83	1.41
1.50	0.86	7.67	1.72	13.83	3.29	20.00	1.41
1.67	0.86	7.83	1.72	14.00	3.29	20.17	0.94
1.83	0.86	8.00	1.72	14.17	2.35	20.33	0.94
2.00	0.86	8.17	2.04	14.33	2.35	20.50	0.94

2.17	1.02	8.33	2.04	14.50	2.35	20.67	0.94
2.33	1.02	8.50	2.04	14.67	2.35	20.83	0.94
2.50	1.02	8.67	2.19	14.83	2.35	21.00	0.94
2.67	1.02	8.83	2.19	15.00	2.35	21.17	0.94
2.83	1.02	9.00	2.19	15.17	2.35	21.33	0.94
3.00	1.02	9.17	2.51	15.33	2.35	21.50	0.94
3.17	1.02	9.33	2.51	15.50	2.35	21.67	0.94
3.33	1.02	9.50	2.51	15.67	2.35	21.83	0.94
3.50	1.02	9.67	2.82	15.83	2.35	22.00	0.94
3.67	1.02	9.83	2.82	16.00	2.35	22.17	0.94
3.83	1.02	10.00	2.82	16.17	1.41	22.33	0.94
4.00	1.02	10.17	3.60	16.33	1.41	22.50	0.94
4.17	1.25	10.33	3.60	16.50	1.41	22.67	0.94
4.33	1.25	10.50	3.60	16.67	1.41	22.83	0.94
4.50	1.25	10.67	4.86	16.83	1.41	23.00	0.94
4.67	1.25	10.83	4.86	17.00	1.41	23.17	0.94
4.83	1.25	11.00	4.86	17.17	1.41	23.33	0.94
5.00	1.25	11.17	7.52	17.33	1.41	23.50	0.94
5.17	1.25	11.33	7.52	17.50	1.41	23.67	0.94
5.33	1.25	11.50	7.52	17.67	1.41	23.83	0.94
5.50	1.25	11.67	23.19	17.83	1.41	24.00	0.94
5.67	1.25	11.83	59.54	18.00	1.41		
5.83	1.25	12.00	95.89	18.17	1.41		
6.00	1.25	12.17	11.28	18.33	1.41		

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| CALIB      |
| NASHYD ( 0015)| Area (ha)= 1.13 Curve Number (CN)= 43.0
|ID= 1 DT= 5.0 min | la (mm)= 13.66 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.30

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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---- TRANSFORMED HYETOGRAPH ----
TIME RAIN| TIME RAIN| TIME RAIN| TIME RAIN
hrs mm/hr| hrs mm/hr| hrs mm/hr| hrs mm/hr
0.083 0.00| 6.167 1.25| 12.250 11.29| 18.33 1.41
0.167 0.00| 6.250 1.41| 12.333 11.28| 18.42 1.41
0.250 0.86| 6.333 1.41| 12.417 11.28| 18.50 1.41
0.333 0.86| 6.417 1.41| 12.500 11.28| 18.58 1.41
0.417 0.86| 6.500 1.41| 12.583 11.28| 18.67 1.41
0.500 0.86| 6.583 1.41| 12.667 11.28| 18.75 1.41
0.583 0.86| 6.667 1.41| 12.750 5.80| 18.83 1.41
0.667 0.86| 6.750 1.41| 12.833 5.80| 18.92 1.41
0.750 0.86| 6.833 1.41| 12.917 5.80| 19.00 1.41
0.833 0.86| 6.917 1.41| 13.000 5.80| 19.08 1.41
0.917 0.86| 7.000 1.41| 13.083 5.80| 19.17 1.41
1.000 0.86| 7.083 1.41| 13.167 5.80| 19.25 1.41
1.083 0.86| 7.167 1.41| 13.250 4.23| 19.33 1.41
1.167 0.86| 7.250 1.72| 13.333 4.23| 19.42 1.41
1.250 0.86| 7.333 1.72| 13.417 4.23| 19.50 1.41
1.333 0.86| 7.417 1.72| 13.500 4.23| 19.58 1.41
1.417 0.86| 7.500 1.72| 13.583 4.23| 19.67 1.41
1.500 0.86| 7.583 1.72| 13.667 4.23| 19.75 1.41
1.583 0.86| 7.667 1.72| 13.750 3.29| 19.83 1.41
1.667 0.86| 7.750 1.72| 13.833 3.29| 19.92 1.41
1.750 0.86| 7.833 1.72| 13.917 3.29| 20.00 1.41
1.833 0.86| 7.917 1.72| 14.000 3.29| 20.08 1.41
1.917 0.86| 8.000 1.72| 14.083 3.29| 20.17 1.41
2.000 0.86| 8.083 1.72| 14.167 3.29| 20.25 0.94
2.083 0.86| 8.167 1.72| 14.250 2.35| 20.33 0.94
2.167 0.86| 8.250 2.04| 14.333 2.35| 20.42 0.94
2.250 1.02| 8.333 2.04| 14.417 2.35| 20.50 0.94
2.333 1.02| 8.417 2.04| 14.500 2.35| 20.58 0.94
2.417 1.02| 8.500 2.04| 14.583 2.35| 20.67 0.94
2.500 1.02| 8.583 2.04| 14.667 2.35| 20.75 0.94
2.583 1.02| 8.667 2.04| 14.750 2.35| 20.83 0.94
2.667 1.02| 8.750 2.19| 14.833 2.35| 20.92 0.94
2.750 1.02| 8.833 2.19| 14.917 2.35| 21.00 0.94
2.833 1.02| 8.917 2.19| 15.000 2.35| 21.08 0.94

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2.917	1.02	9.000	2.19	15.083	2.35	21.17	0.94
3.000	1.02	9.083	2.19	15.167	2.35	21.25	0.94
3.083	1.02	9.167	2.19	15.250	2.35	21.33	0.94
3.167	1.02	9.250	2.51	15.333	2.35	21.42	0.94
3.250	1.02	9.333	2.51	15.417	2.35	21.50	0.94
3.333	1.02	9.417	2.51	15.500	2.35	21.58	0.94
3.417	1.02	9.500	2.51	15.583	2.35	21.67	0.94
3.500	1.02	9.583	2.51	15.667	2.35	21.75	0.94
3.583	1.02	9.667	2.51	15.750	2.35	21.83	0.94
3.667	1.02	9.750	2.82	15.833	2.35	21.92	0.94
3.750	1.02	9.833	2.82	15.917	2.35	22.00	0.94
3.833	1.02	9.917	2.82	16.000	2.35	22.08	0.94
3.917	1.02	10.000	2.82	16.083	2.35	22.17	0.94
4.000	1.02	10.083	2.82	16.167	2.35	22.25	0.94
4.083	1.02	10.167	2.82	16.250	1.41	22.33	0.94
4.167	1.02	10.250	3.60	16.333	1.41	22.42	0.94
4.250	1.25	10.333	3.60	16.417	1.41	22.50	0.94
4.333	1.25	10.417	3.60	16.500	1.41	22.58	0.94
4.417	1.25	10.500	3.60	16.583	1.41	22.67	0.94
4.500	1.25	10.583	3.60	16.667	1.41	22.75	0.94
4.583	1.25	10.667	3.60	16.750	1.41	22.83	0.94
4.667	1.25	10.750	4.86	16.833	1.41	22.92	0.94
4.750	1.25	10.833	4.86	16.917	1.41	23.00	0.94
4.833	1.25	10.917	4.86	17.000	1.41	23.08	0.94
4.917	1.25	11.000	4.86	17.083	1.41	23.17	0.94
5.000	1.25	11.083	4.86	17.167	1.41	23.25	0.94
5.083	1.25	11.167	4.86	17.250	1.41	23.33	0.94
5.167	1.25	11.250	7.52	17.333	1.41	23.42	0.94
5.250	1.25	11.333	7.52	17.417	1.41	23.50	0.94
5.333	1.25	11.417	7.52	17.500	1.41	23.58	0.94
5.417	1.25	11.500	7.52	17.583	1.41	23.67	0.94
5.500	1.25	11.583	7.52	17.667	1.41	23.75	0.94
5.583	1.25	11.667	7.52	17.750	1.41	23.83	0.94
5.667	1.25	11.750	23.19	17.833	1.41	23.92	0.94
5.750	1.25	11.833	23.19	17.917	1.41	24.00	0.94
5.833	1.25	11.917	59.53	18.000	1.41	24.08	0.94
5.917	1.25	12.000	59.54	18.083	1.41	24.17	0.94
6.000	1.25	12.083	95.88	18.167	1.41		
6.083	1.25	12.167	95.89	18.250	1.41		

Unit Hyd Qpeak (cms)= 0.144

PEAK FLOW (cms)= 0.020 (i)

TIME TO PEAK (hrs)= 12.333

RUNOFF VOLUME (mm)= 10.418

TOTAL RAINFALL (mm)= 78.340

RUNOFF COEFFICIENT = 0.133

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0004) | Area (ha)= 0.66 Curve Number (CN)= 62.0
 | ID= 1 DT= 5.0 min | Ia (mm)= 7.00 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.19

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.25	12.250	11.29	18.33	1.41
0.167	0.00	6.250	1.41	12.333	11.28	18.42	1.41
0.250	0.86	6.333	1.41	12.417	11.28	18.50	1.41
0.333	0.86	6.417	1.41	12.500	11.28	18.58	1.41
0.417	0.86	6.500	1.41	12.583	11.28	18.67	1.41
0.500	0.86	6.583	1.41	12.667	11.28	18.75	1.41
0.583	0.86	6.667	1.41	12.750	5.80	18.83	1.41
0.667	0.86	6.750	1.41	12.833	5.80	18.92	1.41
0.750	0.86	6.833	1.41	12.917	5.80	19.00	1.41
0.833	0.86	6.917	1.41	13.000	5.80	19.08	1.41

0.917	0.86	7.000	1.41	13.083	5.80	19.17	1.41
1.000	0.86	7.083	1.41	13.167	5.80	19.25	1.41
1.083	0.86	7.167	1.41	13.250	4.23	19.33	1.41
1.167	0.86	7.250	1.72	13.333	4.23	19.42	1.41
1.250	0.86	7.333	1.72	13.417	4.23	19.50	1.41
1.333	0.86	7.417	1.72	13.500	4.23	19.58	1.41
1.417	0.86	7.500	1.72	13.583	4.23	19.67	1.41
1.500	0.86	7.583	1.72	13.667	4.23	19.75	1.41
1.583	0.86	7.667	1.72	13.750	3.29	19.83	1.41
1.667	0.86	7.750	1.72	13.833	3.29	19.92	1.41
1.750	0.86	7.833	1.72	13.917	3.29	20.00	1.41
1.833	0.86	7.917	1.72	14.000	3.29	20.08	1.41
1.917	0.86	8.000	1.72	14.083	3.29	20.17	1.41
2.000	0.86	8.083	1.72	14.167	3.29	20.25	0.94
2.083	0.86	8.167	1.72	14.250	2.35	20.33	0.94
2.167	0.86	8.250	2.04	14.333	2.35	20.42	0.94
2.250	1.02	8.333	2.04	14.417	2.35	20.50	0.94
2.333	1.02	8.417	2.04	14.500	2.35	20.58	0.94
2.417	1.02	8.500	2.04	14.583	2.35	20.67	0.94
2.500	1.02	8.583	2.04	14.667	2.35	20.75	0.94
2.583	1.02	8.667	2.04	14.750	2.35	20.83	0.94
2.667	1.02	8.750	2.19	14.833	2.35	20.92	0.94
2.750	1.02	8.833	2.19	14.917	2.35	21.00	0.94
2.833	1.02	8.917	2.19	15.000	2.35	21.08	0.94
2.917	1.02	9.000	2.19	15.083	2.35	21.17	0.94
3.000	1.02	9.083	2.19	15.167	2.35	21.25	0.94
3.083	1.02	9.167	2.19	15.250	2.35	21.33	0.94
3.167	1.02	9.250	2.51	15.333	2.35	21.42	0.94
3.250	1.02	9.333	2.51	15.417	2.35	21.50	0.94
3.333	1.02	9.417	2.51	15.500	2.35	21.58	0.94
3.417	1.02	9.500	2.51	15.583	2.35	21.67	0.94
3.500	1.02	9.583	2.51	15.667	2.35	21.75	0.94
3.583	1.02	9.667	2.51	15.750	2.35	21.83	0.94
3.667	1.02	9.750	2.82	15.833	2.35	21.92	0.94
3.750	1.02	9.833	2.82	15.917	2.35	22.00	0.94
3.833	1.02	9.917	2.82	16.000	2.35	22.08	0.94
3.917	1.02	10.000	2.82	16.083	2.35	22.17	0.94
4.000	1.02	10.083	2.82	16.167	2.35	22.25	0.94
4.083	1.02	10.167	2.82	16.250	1.41	22.33	0.94
4.167	1.02	10.250	3.60	16.333	1.41	22.42	0.94
4.250	1.25	10.333	3.60	16.417	1.41	22.50	0.94
4.333	1.25	10.417	3.60	16.500	1.41	22.58	0.94
4.417	1.25	10.500	3.60	16.583	1.41	22.67	0.94
4.500	1.25	10.583	3.60	16.667	1.41	22.75	0.94
4.583	1.25	10.667	3.60	16.750	1.41	22.83	0.94
4.667	1.25	10.750	4.86	16.833	1.41	22.92	0.94
4.750	1.25	10.833	4.86	16.917	1.41	23.00	0.94
4.833	1.25	10.917	4.86	17.000	1.41	23.08	0.94
4.917	1.25	11.000	4.86	17.083	1.41	23.17	0.94
5.000	1.25	11.083	4.86	17.167	1.41	23.25	0.94
5.083	1.25	11.167	4.86	17.250	1.41	23.33	0.94
5.167	1.25	11.250	7.52	17.333	1.41	23.42	0.94
5.250	1.25	11.333	7.52	17.417	1.41	23.50	0.94
5.333	1.25	11.417	7.52	17.500	1.41	23.58	0.94
5.417	1.25	11.500	7.52	17.583	1.41	23.67	0.94
5.500	1.25	11.583	7.52	17.667	1.41	23.75	0.94
5.583	1.25	11.667	7.52	17.750	1.41	23.83	0.94
5.667	1.25	11.750	23.19	17.833	1.41	23.92	0.94
5.750	1.25	11.833	23.19	17.917	1.41	24.00	0.94
5.833	1.25	11.917	59.53	18.000	1.41	24.08	0.94
5.917	1.25	12.000	59.54	18.083	1.41	24.17	0.94
6.000	1.25	12.083	95.88	18.167	1.41		
6.083	1.25	12.167	95.89	18.250	1.41		

Unit Hyd Qpeak (cms)= 0.133

PEAK FLOW (cms)= 0.037 (i)

TIME TO PEAK (hrs)= 12.250

RUNOFF VOLUME (mm)= 22.366

TOTAL RAINFALL (mm)= 78.340

RUNOFF COEFFICIENT = 0.285

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | STANDHYD (0022) | Area (ha)= 2.66
 | ID= 1 DT= 5.0 min | Total Imp(%)= 45.08 Dir. Conn.(%)= 31.83

IMPERVIOUS PERVIOUS (i)
 Surface Area (ha)= 1.20 1.46
 Dep. Storage (mm)= 2.00 5.00
 Average Slope (%)= 1.00 2.00
 Length (m)= 67.80 47.60
 Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.25	12.250	11.29	18.33	1.41
0.167	0.00	6.250	1.41	12.333	11.28	18.42	1.41
0.250	0.86	6.333	1.41	12.417	11.28	18.50	1.41
0.333	0.86	6.417	1.41	12.500	11.28	18.58	1.41
0.417	0.86	6.500	1.41	12.583	11.28	18.67	1.41
0.500	0.86	6.583	1.41	12.667	11.28	18.75	1.41
0.583	0.86	6.667	1.41	12.750	5.80	18.83	1.41
0.667	0.86	6.750	1.41	12.833	5.80	18.92	1.41
0.750	0.86	6.833	1.41	12.917	5.80	19.00	1.41
0.833	0.86	6.917	1.41	13.000	5.80	19.08	1.41
0.917	0.86	7.000	1.41	13.083	5.80	19.17	1.41
1.000	0.86	7.083	1.41	13.167	5.80	19.25	1.41
1.083	0.86	7.167	1.41	13.250	4.23	19.33	1.41
1.167	0.86	7.250	1.72	13.333	4.23	19.42	1.41
1.250	0.86	7.333	1.72	13.417	4.23	19.50	1.41
1.333	0.86	7.417	1.72	13.500	4.23	19.58	1.41
1.417	0.86	7.500	1.72	13.583	4.23	19.67	1.41
1.500	0.86	7.583	1.72	13.667	4.23	19.75	1.41
1.583	0.86	7.667	1.72	13.750	3.29	19.83	1.41
1.667	0.86	7.750	1.72	13.833	3.29	19.92	1.41
1.750	0.86	7.833	1.72	13.917	3.29	20.00	1.41
1.833	0.86	7.917	1.72	14.000	3.29	20.08	1.41
1.917	0.86	8.000	1.72	14.083	3.29	20.17	1.41
2.000	0.86	8.083	1.72	14.167	3.29	20.25	0.94
2.083	0.86	8.167	1.72	14.250	2.35	20.33	0.94
2.167	0.86	8.250	2.04	14.333	2.35	20.42	0.94
2.250	1.02	8.333	2.04	14.417	2.35	20.50	0.94
2.333	1.02	8.417	2.04	14.500	2.35	20.58	0.94
2.417	1.02	8.500	2.04	14.583	2.35	20.67	0.94
2.500	1.02	8.583	2.04	14.667	2.35	20.75	0.94
2.583	1.02	8.667	2.04	14.750	2.35	20.83	0.94
2.667	1.02	8.750	2.19	14.833	2.35	20.92	0.94
2.750	1.02	8.833	2.19	14.917	2.35	21.00	0.94
2.833	1.02	8.917	2.19	15.000	2.35	21.08	0.94
2.917	1.02	9.000	2.19	15.083	2.35	21.17	0.94
3.000	1.02	9.083	2.19	15.167	2.35	21.25	0.94
3.083	1.02	9.167	2.19	15.250	2.35	21.33	0.94
3.167	1.02	9.250	2.51	15.333	2.35	21.42	0.94
3.250	1.02	9.333	2.51	15.417	2.35	21.50	0.94
3.333	1.02	9.417	2.51	15.500	2.35	21.58	0.94
3.417	1.02	9.500	2.51	15.583	2.35	21.67	0.94
3.500	1.02	9.583	2.51	15.667	2.35	21.75	0.94
3.583	1.02	9.667	2.51	15.750	2.35	21.83	0.94
3.667	1.02	9.750	2.82	15.833	2.35	21.92	0.94
3.750	1.02	9.833	2.82	15.917	2.35	22.00	0.94
3.833	1.02	9.917	2.82	16.000	2.35	22.08	0.94
3.917	1.02	10.000	2.82	16.083	2.35	22.17	0.94
4.000	1.02	10.083	2.82	16.167	2.35	22.25	0.94
4.083	1.02	10.167	2.82	16.250	1.41	22.33	0.94
4.167	1.02	10.250	3.60	16.333	1.41	22.42	0.94
4.250	1.25	10.333	3.60	16.417	1.41	22.50	0.94
4.333	1.25	10.417	3.60	16.500	1.41	22.58	0.94
4.417	1.25	10.500	3.60	16.583	1.41	22.67	0.94

4.500	1.25	10.583	3.60	16.667	1.41	22.75	0.94
4.583	1.25	10.667	3.60	16.750	1.41	22.83	0.94
4.667	1.25	10.750	4.86	16.833	1.41	22.92	0.94
4.750	1.25	10.833	4.86	16.917	1.41	23.00	0.94
4.833	1.25	10.917	4.86	17.000	1.41	23.08	0.94
4.917	1.25	11.000	4.86	17.083	1.41	23.17	0.94
5.000	1.25	11.083	4.86	17.167	1.41	23.25	0.94
5.083	1.25	11.167	4.86	17.250	1.41	23.33	0.94
5.167	1.25	11.250	7.52	17.333	1.41	23.42	0.94
5.250	1.25	11.333	7.52	17.417	1.41	23.50	0.94
5.333	1.25	11.417	7.52	17.500	1.41	23.58	0.94
5.417	1.25	11.500	7.52	17.583	1.41	23.67	0.94
5.500	1.25	11.583	7.52	17.667	1.41	23.75	0.94
5.583	1.25	11.667	7.52	17.750	1.41	23.83	0.94
5.667	1.25	11.750	23.19	17.833	1.41	23.92	0.94
5.750	1.25	11.833	23.19	17.917	1.41	24.00	0.94
5.833	1.25	11.917	59.53	18.000	1.41	24.08	0.94
5.917	1.25	12.000	59.54	18.083	1.41	24.17	0.94
6.000	1.25	12.083	95.88	18.167	1.41		
6.083	1.25	12.167	95.89	18.250	1.41		

Max.Eff.Inten.(mm/hr)=	95.89	28.64
over (min)	5.00	15.00
Storage Coeff. (min)=	2.06 (ii)	14.98 (ii)
Unit Hyd. Tpeak (min)=	5.00	15.00
Unit Hyd. peak (cms)=	0.31	0.08
TOTALS		
PEAK FLOW (cms)=	0.22	0.07 0.284 (iii)
TIME TO PEAK (hrs)=	12.17	12.25 12.17
RUNOFF VOLUME (mm)=	76.34	19.22 37.40
TOTAL RAINFALL (mm)=	78.34	78.34 78.34
RUNOFF COEFFICIENT =	0.97	0.25 0.48

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 49.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0024)					
1 + 2 = 3	AREA	QPEAK	TPEAK	R.V.	
	(ha)	(cms)	(hrs)	(mm)	
ID1= 1 (0022):	2.66	0.284	12.17	37.40	
+ ID2= 2 (0004):	0.66	0.037	12.25	22.37	
=====					
ID = 3 (0024):	3.32	0.318	12.17	34.41	

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

RESERVOIR(0023) OVERFLOW IS OFF					
IN= 2---> OUT= 1					
DT= 5.0 min OUTFLOW STORAGE OUTFLOW STORAGE					
	(cms)	(ha.m.)		(cms)	(ha.m.)
0.0000	0.0000		0.0470	0.0670	
0.0020	0.0120		0.0790	0.0820	
0.0020	0.0250		0.1020	0.0980	
0.0030	0.0380		0.1200	0.1150	
0.0030	0.0520		0.0000	0.0000	
AREA QPEAK TPEAK R.V.					
	(ha)	(cms)	(hrs)	(mm)	
INFLOW: ID= 2 (0024)	3.320	0.318	12.17	34.41	
OUTFLOW: ID= 1 (0023)	3.320	0.039	13.00	33.95	

PEAK FLOW REDUCTION [Qout/Qin](%)=	12.35
TIME SHIFT OF PEAK FLOW (min)=	50.00
MAXIMUM STORAGE USED (ha.m.)=	0.0644

 | CALIB |
 | NASHYD (0027) | Area (ha)= 3.10 Curve Number (CN)= 35.8
 | ID= 1 DT= 5.0 min | Ia (mm)= 8.43 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.30

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.25	12.250	11.29	18.33	1.41
0.167	0.00	6.250	1.41	12.333	11.28	18.42	1.41
0.250	0.86	6.333	1.41	12.417	11.28	18.50	1.41
0.333	0.86	6.417	1.41	12.500	11.28	18.58	1.41
0.417	0.86	6.500	1.41	12.583	11.28	18.67	1.41
0.500	0.86	6.583	1.41	12.667	11.28	18.75	1.41
0.583	0.86	6.667	1.41	12.750	5.80	18.83	1.41
0.667	0.86	6.750	1.41	12.833	5.80	18.92	1.41
0.750	0.86	6.833	1.41	12.917	5.80	19.00	1.41
0.833	0.86	6.917	1.41	13.000	5.80	19.08	1.41
0.917	0.86	7.000	1.41	13.083	5.80	19.17	1.41
1.000	0.86	7.083	1.41	13.167	5.80	19.25	1.41
1.083	0.86	7.167	1.41	13.250	4.23	19.33	1.41
1.167	0.86	7.250	1.72	13.333	4.23	19.42	1.41
1.250	0.86	7.333	1.72	13.417	4.23	19.50	1.41
1.333	0.86	7.417	1.72	13.500	4.23	19.58	1.41
1.417	0.86	7.500	1.72	13.583	4.23	19.67	1.41
1.500	0.86	7.583	1.72	13.667	4.23	19.75	1.41
1.583	0.86	7.667	1.72	13.750	3.29	19.83	1.41
1.667	0.86	7.750	1.72	13.833	3.29	19.92	1.41
1.750	0.86	7.833	1.72	13.917	3.29	20.00	1.41
1.833	0.86	7.917	1.72	14.000	3.29	20.08	1.41
1.917	0.86	8.000	1.72	14.083	3.29	20.17	1.41
2.000	0.86	8.083	1.72	14.167	3.29	20.25	0.94
2.083	0.86	8.167	1.72	14.250	2.35	20.33	0.94
2.167	0.86	8.250	2.04	14.333	2.35	20.42	0.94
2.250	1.02	8.333	2.04	14.417	2.35	20.50	0.94
2.333	1.02	8.417	2.04	14.500	2.35	20.58	0.94
2.417	1.02	8.500	2.04	14.583	2.35	20.67	0.94
2.500	1.02	8.583	2.04	14.667	2.35	20.75	0.94
2.583	1.02	8.667	2.04	14.750	2.35	20.83	0.94
2.667	1.02	8.750	2.19	14.833	2.35	20.92	0.94
2.750	1.02	8.833	2.19	14.917	2.35	21.00	0.94
2.833	1.02	8.917	2.19	15.000	2.35	21.08	0.94
2.917	1.02	9.000	2.19	15.083	2.35	21.17	0.94
3.000	1.02	9.083	2.19	15.167	2.35	21.25	0.94
3.083	1.02	9.167	2.19	15.250	2.35	21.33	0.94
3.167	1.02	9.250	2.51	15.333	2.35	21.42	0.94
3.250	1.02	9.333	2.51	15.417	2.35	21.50	0.94
3.333	1.02	9.417	2.51	15.500	2.35	21.58	0.94
3.417	1.02	9.500	2.51	15.583	2.35	21.67	0.94
3.500	1.02	9.583	2.51	15.667	2.35	21.75	0.94
3.583	1.02	9.667	2.51	15.750	2.35	21.83	0.94
3.667	1.02	9.750	2.82	15.833	2.35	21.92	0.94
3.750	1.02	9.833	2.82	15.917	2.35	22.00	0.94
3.833	1.02	9.917	2.82	16.000	2.35	22.08	0.94
3.917	1.02	10.000	2.82	16.083	2.35	22.17	0.94
4.000	1.02	10.083	2.82	16.167	2.35	22.25	0.94
4.083	1.02	10.167	2.82	16.250	1.41	22.33	0.94
4.167	1.02	10.250	3.60	16.333	1.41	22.42	0.94
4.250	1.25	10.333	3.60	16.417	1.41	22.50	0.94
4.333	1.25	10.417	3.60	16.500	1.41	22.58	0.94
4.417	1.25	10.500	3.60	16.583	1.41	22.67	0.94
4.500	1.25	10.583	3.60	16.667	1.41	22.75	0.94
4.583	1.25	10.667	3.60	16.750	1.41	22.83	0.94
4.667	1.25	10.750	4.86	16.833	1.41	22.92	0.94
4.750	1.25	10.833	4.86	16.917	1.41	23.00	0.94
4.833	1.25	10.917	4.86	17.000	1.41	23.08	0.94
4.917	1.25	11.000	4.86	17.083	1.41	23.17	0.94

5.000	1.25	11.083	4.86	17.167	1.41	23.25	0.94
5.083	1.25	11.167	4.86	17.250	1.41	23.33	0.94
5.167	1.25	11.250	7.52	17.333	1.41	23.42	0.94
5.250	1.25	11.333	7.52	17.417	1.41	23.50	0.94
5.333	1.25	11.417	7.52	17.500	1.41	23.58	0.94
5.417	1.25	11.500	7.52	17.583	1.41	23.67	0.94
5.500	1.25	11.583	7.52	17.667	1.41	23.75	0.94
5.583	1.25	11.667	7.52	17.750	1.41	23.83	0.94
5.667	1.25	11.750	23.19	17.833	1.41	23.92	0.94
5.750	1.25	11.833	23.19	17.917	1.41	24.00	0.94
5.833	1.25	11.917	59.53	18.000	1.41	24.08	0.94
5.917	1.25	12.000	59.54	18.083	1.41	24.17	0.94
6.000	1.25	12.083	95.88	18.167	1.41		
6.083	1.25	12.167	95.89	18.250	1.41		

Unit Hyd Qpeak (cms)= 0.395

PEAK FLOW (cms)= 0.051 (i)
TIME TO PEAK (hrs)= 12.333
RUNOFF VOLUME (mm)= 9.298
TOTAL RAINFALL (mm)= 78.340
RUNOFF COEFFICIENT = 0.119

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0010)| Area (ha)= 0.87 Curve Number (CN)= 32.0
|ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.24

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.25	12.250	11.29	18.33	1.41
0.167	0.00	6.250	1.41	12.333	11.28	18.42	1.41
0.250	0.86	6.333	1.41	12.417	11.28	18.50	1.41
0.333	0.86	6.417	1.41	12.500	11.28	18.58	1.41
0.417	0.86	6.500	1.41	12.583	11.28	18.67	1.41
0.500	0.86	6.583	1.41	12.667	11.28	18.75	1.41
0.583	0.86	6.667	1.41	12.750	5.80	18.83	1.41
0.667	0.86	6.750	1.41	12.833	5.80	18.92	1.41
0.750	0.86	6.833	1.41	12.917	5.80	19.00	1.41
0.833	0.86	6.917	1.41	13.000	5.80	19.08	1.41
0.917	0.86	7.000	1.41	13.083	5.80	19.17	1.41
1.000	0.86	7.083	1.41	13.167	5.80	19.25	1.41
1.083	0.86	7.167	1.41	13.250	4.23	19.33	1.41
1.167	0.86	7.250	1.72	13.333	4.23	19.42	1.41
1.250	0.86	7.333	1.72	13.417	4.23	19.50	1.41
1.333	0.86	7.417	1.72	13.500	4.23	19.58	1.41
1.417	0.86	7.500	1.72	13.583	4.23	19.67	1.41
1.500	0.86	7.583	1.72	13.667	4.23	19.75	1.41
1.583	0.86	7.667	1.72	13.750	3.29	19.83	1.41
1.667	0.86	7.750	1.72	13.833	3.29	19.92	1.41
1.750	0.86	7.833	1.72	13.917	3.29	20.00	1.41
1.833	0.86	7.917	1.72	14.000	3.29	20.08	1.41
1.917	0.86	8.000	1.72	14.083	3.29	20.17	1.41
2.000	0.86	8.083	1.72	14.167	3.29	20.25	0.94
2.083	0.86	8.167	1.72	14.250	2.35	20.33	0.94
2.167	0.86	8.250	2.04	14.333	2.35	20.42	0.94
2.250	1.02	8.333	2.04	14.417	2.35	20.50	0.94
2.333	1.02	8.417	2.04	14.500	2.35	20.58	0.94
2.417	1.02	8.500	2.04	14.583	2.35	20.67	0.94
2.500	1.02	8.583	2.04	14.667	2.35	20.75	0.94
2.583	1.02	8.667	2.04	14.750	2.35	20.83	0.94
2.667	1.02	8.750	2.19	14.833	2.35	20.92	0.94
2.750	1.02	8.833	2.19	14.917	2.35	21.00	0.94
2.833	1.02	8.917	2.19	15.000	2.35	21.08	0.94
2.917	1.02	9.000	2.19	15.083	2.35	21.17	0.94

3.000	1.02	9.083	2.19	15.167	2.35	21.25	0.94
3.083	1.02	9.167	2.19	15.250	2.35	21.33	0.94
3.167	1.02	9.250	2.51	15.333	2.35	21.42	0.94
3.250	1.02	9.333	2.51	15.417	2.35	21.50	0.94
3.333	1.02	9.417	2.51	15.500	2.35	21.58	0.94
3.417	1.02	9.500	2.51	15.583	2.35	21.67	0.94
3.500	1.02	9.583	2.51	15.667	2.35	21.75	0.94
3.583	1.02	9.667	2.51	15.750	2.35	21.83	0.94
3.667	1.02	9.750	2.82	15.833	2.35	21.92	0.94
3.750	1.02	9.833	2.82	15.917	2.35	22.00	0.94
3.833	1.02	9.917	2.82	16.000	2.35	22.08	0.94
3.917	1.02	10.000	2.82	16.083	2.35	22.17	0.94
4.000	1.02	10.083	2.82	16.167	2.35	22.25	0.94
4.083	1.02	10.167	2.82	16.250	1.41	22.33	0.94
4.167	1.02	10.250	3.60	16.333	1.41	22.42	0.94
4.250	1.25	10.333	3.60	16.417	1.41	22.50	0.94
4.333	1.25	10.417	3.60	16.500	1.41	22.58	0.94
4.417	1.25	10.500	3.60	16.583	1.41	22.67	0.94
4.500	1.25	10.583	3.60	16.667	1.41	22.75	0.94
4.583	1.25	10.667	3.60	16.750	1.41	22.83	0.94
4.667	1.25	10.750	4.86	16.833	1.41	22.92	0.94
4.750	1.25	10.833	4.86	16.917	1.41	23.00	0.94
4.833	1.25	10.917	4.86	17.000	1.41	23.08	0.94
4.917	1.25	11.000	4.86	17.083	1.41	23.17	0.94
5.000	1.25	11.083	4.86	17.167	1.41	23.25	0.94
5.083	1.25	11.167	4.86	17.250	1.41	23.33	0.94
5.167	1.25	11.250	7.52	17.333	1.41	23.42	0.94
5.250	1.25	11.333	7.52	17.417	1.41	23.50	0.94
5.333	1.25	11.417	7.52	17.500	1.41	23.58	0.94
5.417	1.25	11.500	7.52	17.583	1.41	23.67	0.94
5.500	1.25	11.583	7.52	17.667	1.41	23.75	0.94
5.583	1.25	11.667	7.52	17.750	1.41	23.83	0.94
5.667	1.25	11.750	23.19	17.833	1.41	23.92	0.94
5.750	1.25	11.833	23.19	17.917	1.41	24.00	0.94
5.833	1.25	11.917	59.53	18.000	1.41	24.08	0.94
5.917	1.25	12.000	59.54	18.083	1.41	24.17	0.94
6.000	1.25	12.083	95.88	18.167	1.41		
6.083	1.25	12.167	95.89	18.250	1.41		

Unit Hyd Qpeak (cms)= 0.138

PEAK FLOW (cms)= 0.013 (i)
TIME TO PEAK (hrs)= 12.250
RUNOFF VOLUME (mm)= 7.673
TOTAL RAINFALL (mm)= 78.340
RUNOFF COEFFICIENT = 0.098

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0009) | Area (ha)= 1.11 Curve Number (CN)= 62.0
| ID= 1 DT= 5.0 min | Ia (mm)= 7.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.34

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----							
TIME	RAIN		TIME	RAIN		TIME	RAIN
hrs	mm/hr		hrs	mm/hr		hrs	mm/hr
0.083	0.00	6.167	1.25	12.250	11.29	18.33	1.41
0.167	0.00	6.250	1.41	12.333	11.28	18.42	1.41
0.250	0.86	6.333	1.41	12.417	11.28	18.50	1.41
0.333	0.86	6.417	1.41	12.500	11.28	18.58	1.41
0.417	0.86	6.500	1.41	12.583	11.28	18.67	1.41
0.500	0.86	6.583	1.41	12.667	11.28	18.75	1.41
0.583	0.86	6.667	1.41	12.750	5.80	18.83	1.41
0.667	0.86	6.750	1.41	12.833	5.80	18.92	1.41
0.750	0.86	6.833	1.41	12.917	5.80	19.00	1.41
0.833	0.86	6.917	1.41	13.000	5.80	19.08	1.41
0.917	0.86	7.000	1.41	13.083	5.80	19.17	1.41

1.000	0.86	7.083	1.41	13.167	5.80	19.25	1.41
1.083	0.86	7.167	1.41	13.250	4.23	19.33	1.41
1.167	0.86	7.250	1.72	13.333	4.23	19.42	1.41
1.250	0.86	7.333	1.72	13.417	4.23	19.50	1.41
1.333	0.86	7.417	1.72	13.500	4.23	19.58	1.41
1.417	0.86	7.500	1.72	13.583	4.23	19.67	1.41
1.500	0.86	7.583	1.72	13.667	4.23	19.75	1.41
1.583	0.86	7.667	1.72	13.750	3.29	19.83	1.41
1.667	0.86	7.750	1.72	13.833	3.29	19.92	1.41
1.750	0.86	7.833	1.72	13.917	3.29	20.00	1.41
1.833	0.86	7.917	1.72	14.000	3.29	20.08	1.41
1.917	0.86	8.000	1.72	14.083	3.29	20.17	1.41
2.000	0.86	8.083	1.72	14.167	3.29	20.25	0.94
2.083	0.86	8.167	1.72	14.250	2.35	20.33	0.94
2.167	0.86	8.250	2.04	14.333	2.35	20.42	0.94
2.250	1.02	8.333	2.04	14.417	2.35	20.50	0.94
2.333	1.02	8.417	2.04	14.500	2.35	20.58	0.94
2.417	1.02	8.500	2.04	14.583	2.35	20.67	0.94
2.500	1.02	8.583	2.04	14.667	2.35	20.75	0.94
2.583	1.02	8.667	2.04	14.750	2.35	20.83	0.94
2.667	1.02	8.750	2.19	14.833	2.35	20.92	0.94
2.750	1.02	8.833	2.19	14.917	2.35	21.00	0.94
2.833	1.02	8.917	2.19	15.000	2.35	21.08	0.94
2.917	1.02	9.000	2.19	15.083	2.35	21.17	0.94
3.000	1.02	9.083	2.19	15.167	2.35	21.25	0.94
3.083	1.02	9.167	2.19	15.250	2.35	21.33	0.94
3.167	1.02	9.250	2.51	15.333	2.35	21.42	0.94
3.250	1.02	9.333	2.51	15.417	2.35	21.50	0.94
3.333	1.02	9.417	2.51	15.500	2.35	21.58	0.94
3.417	1.02	9.500	2.51	15.583	2.35	21.67	0.94
3.500	1.02	9.583	2.51	15.667	2.35	21.75	0.94
3.583	1.02	9.667	2.51	15.750	2.35	21.83	0.94
3.667	1.02	9.750	2.82	15.833	2.35	21.92	0.94
3.750	1.02	9.833	2.82	15.917	2.35	22.00	0.94
3.833	1.02	9.917	2.82	16.000	2.35	22.08	0.94
3.917	1.02	10.000	2.82	16.083	2.35	22.17	0.94
4.000	1.02	10.083	2.82	16.167	2.35	22.25	0.94
4.083	1.02	10.167	2.82	16.250	1.41	22.33	0.94
4.167	1.02	10.250	3.60	16.333	1.41	22.42	0.94
4.250	1.25	10.333	3.60	16.417	1.41	22.50	0.94
4.333	1.25	10.417	3.60	16.500	1.41	22.58	0.94
4.417	1.25	10.500	3.60	16.583	1.41	22.67	0.94
4.500	1.25	10.583	3.60	16.667	1.41	22.75	0.94
4.583	1.25	10.667	3.60	16.750	1.41	22.83	0.94
4.667	1.25	10.750	4.86	16.833	1.41	22.92	0.94
4.750	1.25	10.833	4.86	16.917	1.41	23.00	0.94
4.833	1.25	10.917	4.86	17.000	1.41	23.08	0.94
4.917	1.25	11.000	4.86	17.083	1.41	23.17	0.94
5.000	1.25	11.083	4.86	17.167	1.41	23.25	0.94
5.083	1.25	11.167	4.86	17.250	1.41	23.33	0.94
5.167	1.25	11.250	7.52	17.333	1.41	23.42	0.94
5.250	1.25	11.333	7.52	17.417	1.41	23.50	0.94
5.333	1.25	11.417	7.52	17.500	1.41	23.58	0.94
5.417	1.25	11.500	7.52	17.583	1.41	23.67	0.94
5.500	1.25	11.583	7.52	17.667	1.41	23.75	0.94
5.583	1.25	11.667	7.52	17.750	1.41	23.83	0.94
5.667	1.25	11.750	23.19	17.833	1.41	23.92	0.94
5.750	1.25	11.833	23.19	17.917	1.41	24.00	0.94
5.833	1.25	11.917	59.53	18.000	1.41	24.08	0.94
5.917	1.25	12.000	59.54	18.083	1.41	24.17	0.94
6.000	1.25	12.083	95.88	18.167	1.41		
6.083	1.25	12.167	95.89	18.250	1.41		

Unit Hyd Qpeak (cms)= 0.125

PEAK FLOW (cms)= 0.042 (i)

TIME TO PEAK (hrs)= 12.417

RUNOFF VOLUME (mm)= 22.412

TOTAL RAINFALL (mm)= 78.340

RUNOFF COEFFICIENT = 0.286

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
|ADD HYD ( 0017)|
| 1 + 2 = 3 |   AREA  QPEAK  TPEAK  R.V.
-----      (ha) (cms) (hrs) (mm)
ID1= 1 ( 0010):  0.87  0.013  12.25  7.67
+ ID2= 2 ( 0027):  3.10  0.051  12.33  9.30
=====
ID = 3 ( 0017):  3.97  0.064  12.33  8.94

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NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
|ADD HYD ( 0017)|
| 3 + 2 = 1 |   AREA  QPEAK  TPEAK  R.V.
-----      (ha) (cms) (hrs) (mm)
ID1= 3 ( 0017):  3.97  0.064  12.33  8.94
+ ID2= 2 ( 0009):  1.11  0.042  12.42  22.41
=====
ID = 1 ( 0017):  5.08  0.105  12.33  11.89

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
|CALIB      |
|NASHYD ( 0028)| Area  (ha)= 14.72  Curve Number (CN)= 32.0
|ID= 1 DT= 5.0 min| la   (mm)= 10.00  # of Linear Res.(N)= 3.00
-----      U.H. Tp(hrs)= 0.82

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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---- TRANSFORMED HYETOGRAPH ----
TIME RAIN| TIME RAIN|' TIME RAIN| TIME RAIN
hrs mm/hr| hrs mm/hr|' hrs mm/hr| hrs mm/hr
0.083 0.00| 6.167 1.25|12.250 11.29|18.33 1.41
0.167 0.00| 6.250 1.41|12.333 11.28|18.42 1.41
0.250 0.86| 6.333 1.41|12.417 11.28|18.50 1.41
0.333 0.86| 6.417 1.41|12.500 11.28|18.58 1.41
0.417 0.86| 6.500 1.41|12.583 11.28|18.67 1.41
0.500 0.86| 6.583 1.41|12.667 11.28|18.75 1.41
0.583 0.86| 6.667 1.41|12.750 5.80|18.83 1.41
0.667 0.86| 6.750 1.41|12.833 5.80|18.92 1.41
0.750 0.86| 6.833 1.41|12.917 5.80|19.00 1.41
0.833 0.86| 6.917 1.41|13.000 5.80|19.08 1.41
0.917 0.86| 7.000 1.41|13.083 5.80|19.17 1.41
1.000 0.86| 7.083 1.41|13.167 5.80|19.25 1.41
1.083 0.86| 7.167 1.41|13.250 4.23|19.33 1.41
1.167 0.86| 7.250 1.72|13.333 4.23|19.42 1.41
1.250 0.86| 7.333 1.72|13.417 4.23|19.50 1.41
1.333 0.86| 7.417 1.72|13.500 4.23|19.58 1.41
1.417 0.86| 7.500 1.72|13.583 4.23|19.67 1.41
1.500 0.86| 7.583 1.72|13.667 4.23|19.75 1.41
1.583 0.86| 7.667 1.72|13.750 3.29|19.83 1.41
1.667 0.86| 7.750 1.72|13.833 3.29|19.92 1.41
1.750 0.86| 7.833 1.72|13.917 3.29|20.00 1.41
1.833 0.86| 7.917 1.72|14.000 3.29|20.08 1.41
1.917 0.86| 8.000 1.72|14.083 3.29|20.17 1.41
2.000 0.86| 8.083 1.72|14.167 3.29|20.25 0.94
2.083 0.86| 8.167 1.72|14.250 2.35|20.33 0.94
2.167 0.86| 8.250 2.04|14.333 2.35|20.42 0.94
2.250 1.02| 8.333 2.04|14.417 2.35|20.50 0.94
2.333 1.02| 8.417 2.04|14.500 2.35|20.58 0.94
2.417 1.02| 8.500 2.04|14.583 2.35|20.67 0.94
2.500 1.02| 8.583 2.04|14.667 2.35|20.75 0.94
2.583 1.02| 8.667 2.04|14.750 2.35|20.83 0.94
2.667 1.02| 8.750 2.19|14.833 2.35|20.92 0.94
2.750 1.02| 8.833 2.19|14.917 2.35|21.00 0.94
2.833 1.02| 8.917 2.19|15.000 2.35|21.08 0.94
2.917 1.02| 9.000 2.19|15.083 2.35|21.17 0.94
3.000 1.02| 9.083 2.19|15.167 2.35|21.25 0.94

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3.083	1.02	9.167	2.19	15.250	2.35	21.33	0.94
3.167	1.02	9.250	2.51	15.333	2.35	21.42	0.94
3.250	1.02	9.333	2.51	15.417	2.35	21.50	0.94
3.333	1.02	9.417	2.51	15.500	2.35	21.58	0.94
3.417	1.02	9.500	2.51	15.583	2.35	21.67	0.94
3.500	1.02	9.583	2.51	15.667	2.35	21.75	0.94
3.583	1.02	9.667	2.51	15.750	2.35	21.83	0.94
3.667	1.02	9.750	2.82	15.833	2.35	21.92	0.94
3.750	1.02	9.833	2.82	15.917	2.35	22.00	0.94
3.833	1.02	9.917	2.82	16.000	2.35	22.08	0.94
3.917	1.02	10.000	2.82	16.083	2.35	22.17	0.94
4.000	1.02	10.083	2.82	16.167	2.35	22.25	0.94
4.083	1.02	10.167	2.82	16.250	1.41	22.33	0.94
4.167	1.02	10.250	3.60	16.333	1.41	22.42	0.94
4.250	1.25	10.333	3.60	16.417	1.41	22.50	0.94
4.333	1.25	10.417	3.60	16.500	1.41	22.58	0.94
4.417	1.25	10.500	3.60	16.583	1.41	22.67	0.94
4.500	1.25	10.583	3.60	16.667	1.41	22.75	0.94
4.583	1.25	10.667	3.60	16.750	1.41	22.83	0.94
4.667	1.25	10.750	4.86	16.833	1.41	22.92	0.94
4.750	1.25	10.833	4.86	16.917	1.41	23.00	0.94
4.833	1.25	10.917	4.86	17.000	1.41	23.08	0.94
4.917	1.25	11.000	4.86	17.083	1.41	23.17	0.94
5.000	1.25	11.083	4.86	17.167	1.41	23.25	0.94
5.083	1.25	11.167	4.86	17.250	1.41	23.33	0.94
5.167	1.25	11.250	7.52	17.333	1.41	23.42	0.94
5.250	1.25	11.333	7.52	17.417	1.41	23.50	0.94
5.333	1.25	11.417	7.52	17.500	1.41	23.58	0.94
5.417	1.25	11.500	7.52	17.583	1.41	23.67	0.94
5.500	1.25	11.583	7.52	17.667	1.41	23.75	0.94
5.583	1.25	11.667	7.52	17.750	1.41	23.83	0.94
5.667	1.25	11.750	23.19	17.833	1.41	23.92	0.94
5.750	1.25	11.833	23.19	17.917	1.41	24.00	0.94
5.833	1.25	11.917	59.53	18.000	1.41	24.08	0.94
5.917	1.25	12.000	59.54	18.083	1.41	24.17	0.94
6.000	1.25	12.083	95.88	18.167	1.41		
6.083	1.25	12.167	95.89	18.250	1.41		

Unit Hyd Qpeak (cms)= 0.686

PEAK FLOW (cms)= 0.095 (i)
TIME TO PEAK (hrs)= 13.000
RUNOFF VOLUME (mm)= 7.680
TOTAL RAINFALL (mm)= 78.340
RUNOFF COEFFICIENT = 0.098

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0005) | Area (ha)= 9.65 Curve Number (CN)= 32.0
| ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.71

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.25	12.250	11.29	18.33	1.41
0.167	0.00	6.250	1.41	12.333	11.28	18.42	1.41
0.250	0.86	6.333	1.41	12.417	11.28	18.50	1.41
0.333	0.86	6.417	1.41	12.500	11.28	18.58	1.41
0.417	0.86	6.500	1.41	12.583	11.28	18.67	1.41
0.500	0.86	6.583	1.41	12.667	11.28	18.75	1.41
0.583	0.86	6.667	1.41	12.750	5.80	18.83	1.41
0.667	0.86	6.750	1.41	12.833	5.80	18.92	1.41
0.750	0.86	6.833	1.41	12.917	5.80	19.00	1.41
0.833	0.86	6.917	1.41	13.000	5.80	19.08	1.41
0.917	0.86	7.000	1.41	13.083	5.80	19.17	1.41
1.000	0.86	7.083	1.41	13.167	5.80	19.25	1.41

1.083	0.86	7.167	1.41	13.250	4.23	19.33	1.41
1.167	0.86	7.250	1.72	13.333	4.23	19.42	1.41
1.250	0.86	7.333	1.72	13.417	4.23	19.50	1.41
1.333	0.86	7.417	1.72	13.500	4.23	19.58	1.41
1.417	0.86	7.500	1.72	13.583	4.23	19.67	1.41
1.500	0.86	7.583	1.72	13.667	4.23	19.75	1.41
1.583	0.86	7.667	1.72	13.750	3.29	19.83	1.41
1.667	0.86	7.750	1.72	13.833	3.29	19.92	1.41
1.750	0.86	7.833	1.72	13.917	3.29	20.00	1.41
1.833	0.86	7.917	1.72	14.000	3.29	20.08	1.41
1.917	0.86	8.000	1.72	14.083	3.29	20.17	1.41
2.000	0.86	8.083	1.72	14.167	3.29	20.25	0.94
2.083	0.86	8.167	1.72	14.250	2.35	20.33	0.94
2.167	0.86	8.250	2.04	14.333	2.35	20.42	0.94
2.250	1.02	8.333	2.04	14.417	2.35	20.50	0.94
2.333	1.02	8.417	2.04	14.500	2.35	20.58	0.94
2.417	1.02	8.500	2.04	14.583	2.35	20.67	0.94
2.500	1.02	8.583	2.04	14.667	2.35	20.75	0.94
2.583	1.02	8.667	2.04	14.750	2.35	20.83	0.94
2.667	1.02	8.750	2.19	14.833	2.35	20.92	0.94
2.750	1.02	8.833	2.19	14.917	2.35	21.00	0.94
2.833	1.02	8.917	2.19	15.000	2.35	21.08	0.94
2.917	1.02	9.000	2.19	15.083	2.35	21.17	0.94
3.000	1.02	9.083	2.19	15.167	2.35	21.25	0.94
3.083	1.02	9.167	2.19	15.250	2.35	21.33	0.94
3.167	1.02	9.250	2.51	15.333	2.35	21.42	0.94
3.250	1.02	9.333	2.51	15.417	2.35	21.50	0.94
3.333	1.02	9.417	2.51	15.500	2.35	21.58	0.94
3.417	1.02	9.500	2.51	15.583	2.35	21.67	0.94
3.500	1.02	9.583	2.51	15.667	2.35	21.75	0.94
3.583	1.02	9.667	2.51	15.750	2.35	21.83	0.94
3.667	1.02	9.750	2.82	15.833	2.35	21.92	0.94
3.750	1.02	9.833	2.82	15.917	2.35	22.00	0.94
3.833	1.02	9.917	2.82	16.000	2.35	22.08	0.94
3.917	1.02	10.000	2.82	16.083	2.35	22.17	0.94
4.000	1.02	10.083	2.82	16.167	2.35	22.25	0.94
4.083	1.02	10.167	2.82	16.250	1.41	22.33	0.94
4.167	1.02	10.250	3.60	16.333	1.41	22.42	0.94
4.250	1.25	10.333	3.60	16.417	1.41	22.50	0.94
4.333	1.25	10.417	3.60	16.500	1.41	22.58	0.94
4.417	1.25	10.500	3.60	16.583	1.41	22.67	0.94
4.500	1.25	10.583	3.60	16.667	1.41	22.75	0.94
4.583	1.25	10.667	3.60	16.750	1.41	22.83	0.94
4.667	1.25	10.750	4.86	16.833	1.41	22.92	0.94
4.750	1.25	10.833	4.86	16.917	1.41	23.00	0.94
4.833	1.25	10.917	4.86	17.000	1.41	23.08	0.94
4.917	1.25	11.000	4.86	17.083	1.41	23.17	0.94
5.000	1.25	11.083	4.86	17.167	1.41	23.25	0.94
5.083	1.25	11.167	4.86	17.250	1.41	23.33	0.94
5.167	1.25	11.250	7.52	17.333	1.41	23.42	0.94
5.250	1.25	11.333	7.52	17.417	1.41	23.50	0.94
5.333	1.25	11.417	7.52	17.500	1.41	23.58	0.94
5.417	1.25	11.500	7.52	17.583	1.41	23.67	0.94
5.500	1.25	11.583	7.52	17.667	1.41	23.75	0.94
5.583	1.25	11.667	7.52	17.750	1.41	23.83	0.94
5.667	1.25	11.750	23.19	17.833	1.41	23.92	0.94
5.750	1.25	11.833	23.19	17.917	1.41	24.00	0.94
5.833	1.25	11.917	59.53	18.000	1.41	24.08	0.94
5.917	1.25	12.000	59.54	18.083	1.41	24.17	0.94
6.000	1.25	12.083	95.88	18.167	1.41		
6.083	1.25	12.167	95.89	18.250	1.41		

Unit Hyd Qpeak (cms)= 0.519

PEAK FLOW (cms)= 0.069 (i)

TIME TO PEAK (hrs)= 12.833

RUNOFF VOLUME (mm)= 7.680

TOTAL RAINFALL (mm)= 78.340

RUNOFF COEFFICIENT = 0.098

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0008) | Area (ha)= 0.23 Curve Number (CN)= 32.0
 | ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.33

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.25	12.250	11.29	18.33	1.41
0.167	0.00	6.250	1.41	12.333	11.28	18.42	1.41
0.250	0.86	6.333	1.41	12.417	11.28	18.50	1.41
0.333	0.86	6.417	1.41	12.500	11.28	18.58	1.41
0.417	0.86	6.500	1.41	12.583	11.28	18.67	1.41
0.500	0.86	6.583	1.41	12.667	11.28	18.75	1.41
0.583	0.86	6.667	1.41	12.750	5.80	18.83	1.41
0.667	0.86	6.750	1.41	12.833	5.80	18.92	1.41
0.750	0.86	6.833	1.41	12.917	5.80	19.00	1.41
0.833	0.86	6.917	1.41	13.000	5.80	19.08	1.41
0.917	0.86	7.000	1.41	13.083	5.80	19.17	1.41
1.000	0.86	7.083	1.41	13.167	5.80	19.25	1.41
1.083	0.86	7.167	1.41	13.250	4.23	19.33	1.41
1.167	0.86	7.250	1.72	13.333	4.23	19.42	1.41
1.250	0.86	7.333	1.72	13.417	4.23	19.50	1.41
1.333	0.86	7.417	1.72	13.500	4.23	19.58	1.41
1.417	0.86	7.500	1.72	13.583	4.23	19.67	1.41
1.500	0.86	7.583	1.72	13.667	4.23	19.75	1.41
1.583	0.86	7.667	1.72	13.750	3.29	19.83	1.41
1.667	0.86	7.750	1.72	13.833	3.29	19.92	1.41
1.750	0.86	7.833	1.72	13.917	3.29	20.00	1.41
1.833	0.86	7.917	1.72	14.000	3.29	20.08	1.41
1.917	0.86	8.000	1.72	14.083	3.29	20.17	1.41
2.000	0.86	8.083	1.72	14.167	3.29	20.25	0.94
2.083	0.86	8.167	1.72	14.250	2.35	20.33	0.94
2.167	0.86	8.250	2.04	14.333	2.35	20.42	0.94
2.250	1.02	8.333	2.04	14.417	2.35	20.50	0.94
2.333	1.02	8.417	2.04	14.500	2.35	20.58	0.94
2.417	1.02	8.500	2.04	14.583	2.35	20.67	0.94
2.500	1.02	8.583	2.04	14.667	2.35	20.75	0.94
2.583	1.02	8.667	2.04	14.750	2.35	20.83	0.94
2.667	1.02	8.750	2.19	14.833	2.35	20.92	0.94
2.750	1.02	8.833	2.19	14.917	2.35	21.00	0.94
2.833	1.02	8.917	2.19	15.000	2.35	21.08	0.94
2.917	1.02	9.000	2.19	15.083	2.35	21.17	0.94
3.000	1.02	9.083	2.19	15.167	2.35	21.25	0.94
3.083	1.02	9.167	2.19	15.250	2.35	21.33	0.94
3.167	1.02	9.250	2.51	15.333	2.35	21.42	0.94
3.250	1.02	9.333	2.51	15.417	2.35	21.50	0.94
3.333	1.02	9.417	2.51	15.500	2.35	21.58	0.94
3.417	1.02	9.500	2.51	15.583	2.35	21.67	0.94
3.500	1.02	9.583	2.51	15.667	2.35	21.75	0.94
3.583	1.02	9.667	2.51	15.750	2.35	21.83	0.94
3.667	1.02	9.750	2.82	15.833	2.35	21.92	0.94
3.750	1.02	9.833	2.82	15.917	2.35	22.00	0.94
3.833	1.02	9.917	2.82	16.000	2.35	22.08	0.94
3.917	1.02	10.000	2.82	16.083	2.35	22.17	0.94
4.000	1.02	10.083	2.82	16.167	2.35	22.25	0.94
4.083	1.02	10.167	2.82	16.250	1.41	22.33	0.94
4.167	1.02	10.250	3.60	16.333	1.41	22.42	0.94
4.250	1.25	10.333	3.60	16.417	1.41	22.50	0.94
4.333	1.25	10.417	3.60	16.500	1.41	22.58	0.94
4.417	1.25	10.500	3.60	16.583	1.41	22.67	0.94
4.500	1.25	10.583	3.60	16.667	1.41	22.75	0.94
4.583	1.25	10.667	3.60	16.750	1.41	22.83	0.94
4.667	1.25	10.750	4.86	16.833	1.41	22.92	0.94
4.750	1.25	10.833	4.86	16.917	1.41	23.00	0.94
4.833	1.25	10.917	4.86	17.000	1.41	23.08	0.94
4.917	1.25	11.000	4.86	17.083	1.41	23.17	0.94
5.000	1.25	11.083	4.86	17.167	1.41	23.25	0.94
5.083	1.25	11.167	4.86	17.250	1.41	23.33	0.94

5.167	1.25	11.250	7.52	17.333	1.41	23.42	0.94
5.250	1.25	11.333	7.52	17.417	1.41	23.50	0.94
5.333	1.25	11.417	7.52	17.500	1.41	23.58	0.94
5.417	1.25	11.500	7.52	17.583	1.41	23.67	0.94
5.500	1.25	11.583	7.52	17.667	1.41	23.75	0.94
5.583	1.25	11.667	7.52	17.750	1.41	23.83	0.94
5.667	1.25	11.750	23.19	17.833	1.41	23.92	0.94
5.750	1.25	11.833	23.19	17.917	1.41	24.00	0.94
5.833	1.25	11.917	59.53	18.000	1.41	24.08	0.94
5.917	1.25	12.000	59.54	18.083	1.41	24.17	0.94
6.000	1.25	12.083	95.88	18.167	1.41		
6.083	1.25	12.167	95.89	18.250	1.41		

Unit Hyd Qpeak (cms)= 0.027

PEAK FLOW (cms)= 0.003 (i)
TIME TO PEAK (hrs)= 12.417
RUNOFF VOLUME (mm)= 7.675
TOTAL RAINFALL (mm)= 78.340
RUNOFF COEFFICIENT = 0.098

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0013)| Area (ha)= 12.11 Curve Number (CN)= 48.1
| ID= 1 DT= 5.0 min | la (mm)= 11.30 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.55

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN		TIME	RAIN		TIME	RAIN		TIME	RAIN		TIME	RAIN
hrs	mm/hr		hrs	mm/hr		hrs	mm/hr		hrs	mm/hr		hrs	mm/hr
0.083	0.00		6.167	1.25		12.250	11.29		18.33	1.41			
0.167	0.00		6.250	1.41		12.333	11.28		18.42	1.41			
0.250	0.86		6.333	1.41		12.417	11.28		18.50	1.41			
0.333	0.86		6.417	1.41		12.500	11.28		18.58	1.41			
0.417	0.86		6.500	1.41		12.583	11.28		18.67	1.41			
0.500	0.86		6.583	1.41		12.667	11.28		18.75	1.41			
0.583	0.86		6.667	1.41		12.750	5.80		18.83	1.41			
0.667	0.86		6.750	1.41		12.833	5.80		18.92	1.41			
0.750	0.86		6.833	1.41		12.917	5.80		19.00	1.41			
0.833	0.86		6.917	1.41		13.000	5.80		19.08	1.41			
0.917	0.86		7.000	1.41		13.083	5.80		19.17	1.41			
1.000	0.86		7.083	1.41		13.167	5.80		19.25	1.41			
1.083	0.86		7.167	1.41		13.250	4.23		19.33	1.41			
1.167	0.86		7.250	1.72		13.333	4.23		19.42	1.41			
1.250	0.86		7.333	1.72		13.417	4.23		19.50	1.41			
1.333	0.86		7.417	1.72		13.500	4.23		19.58	1.41			
1.417	0.86		7.500	1.72		13.583	4.23		19.67	1.41			
1.500	0.86		7.583	1.72		13.667	4.23		19.75	1.41			
1.583	0.86		7.667	1.72		13.750	3.29		19.83	1.41			
1.667	0.86		7.750	1.72		13.833	3.29		19.92	1.41			
1.750	0.86		7.833	1.72		13.917	3.29		20.00	1.41			
1.833	0.86		7.917	1.72		14.000	3.29		20.08	1.41			
1.917	0.86		8.000	1.72		14.083	3.29		20.17	1.41			
2.000	0.86		8.083	1.72		14.167	3.29		20.25	0.94			
2.083	0.86		8.167	1.72		14.250	2.35		20.33	0.94			
2.167	0.86		8.250	2.04		14.333	2.35		20.42	0.94			
2.250	1.02		8.333	2.04		14.417	2.35		20.50	0.94			
2.333	1.02		8.417	2.04		14.500	2.35		20.58	0.94			
2.417	1.02		8.500	2.04		14.583	2.35		20.67	0.94			
2.500	1.02		8.583	2.04		14.667	2.35		20.75	0.94			
2.583	1.02		8.667	2.04		14.750	2.35		20.83	0.94			
2.667	1.02		8.750	2.19		14.833	2.35		20.92	0.94			
2.750	1.02		8.833	2.19		14.917	2.35		21.00	0.94			
2.833	1.02		8.917	2.19		15.000	2.35		21.08	0.94			
2.917	1.02		9.000	2.19		15.083	2.35		21.17	0.94			
3.000	1.02		9.083	2.19		15.167	2.35		21.25	0.94			
3.083	1.02		9.167	2.19		15.250	2.35		21.33	0.94			

3.167	1.02	9.250	2.51	15.333	2.35	21.42	0.94
3.250	1.02	9.333	2.51	15.417	2.35	21.50	0.94
3.333	1.02	9.417	2.51	15.500	2.35	21.58	0.94
3.417	1.02	9.500	2.51	15.583	2.35	21.67	0.94
3.500	1.02	9.583	2.51	15.667	2.35	21.75	0.94
3.583	1.02	9.667	2.51	15.750	2.35	21.83	0.94
3.667	1.02	9.750	2.82	15.833	2.35	21.92	0.94
3.750	1.02	9.833	2.82	15.917	2.35	22.00	0.94
3.833	1.02	9.917	2.82	16.000	2.35	22.08	0.94
3.917	1.02	10.000	2.82	16.083	2.35	22.17	0.94
4.000	1.02	10.083	2.82	16.167	2.35	22.25	0.94
4.083	1.02	10.167	2.82	16.250	1.41	22.33	0.94
4.167	1.02	10.250	3.60	16.333	1.41	22.42	0.94
4.250	1.25	10.333	3.60	16.417	1.41	22.50	0.94
4.333	1.25	10.417	3.60	16.500	1.41	22.58	0.94
4.417	1.25	10.500	3.60	16.583	1.41	22.67	0.94
4.500	1.25	10.583	3.60	16.667	1.41	22.75	0.94
4.583	1.25	10.667	3.60	16.750	1.41	22.83	0.94
4.667	1.25	10.750	4.86	16.833	1.41	22.92	0.94
4.750	1.25	10.833	4.86	16.917	1.41	23.00	0.94
4.833	1.25	10.917	4.86	17.000	1.41	23.08	0.94
4.917	1.25	11.000	4.86	17.083	1.41	23.17	0.94
5.000	1.25	11.083	4.86	17.167	1.41	23.25	0.94
5.083	1.25	11.167	4.86	17.250	1.41	23.33	0.94
5.167	1.25	11.250	7.52	17.333	1.41	23.42	0.94
5.250	1.25	11.333	7.52	17.417	1.41	23.50	0.94
5.333	1.25	11.417	7.52	17.500	1.41	23.58	0.94
5.417	1.25	11.500	7.52	17.583	1.41	23.67	0.94
5.500	1.25	11.583	7.52	17.667	1.41	23.75	0.94
5.583	1.25	11.667	7.52	17.750	1.41	23.83	0.94
5.667	1.25	11.750	23.19	17.833	1.41	23.92	0.94
5.750	1.25	11.833	23.19	17.917	1.41	24.00	0.94
5.833	1.25	11.917	59.53	18.000	1.41	24.08	0.94
5.917	1.25	12.000	59.54	18.083	1.41	24.17	0.94
6.000	1.25	12.083	95.88	18.167	1.41		
6.083	1.25	12.167	95.89	18.250	1.41		

Unit Hyd Qpeak (cms)= 0.841

PEAK FLOW (cms)= 0.182 (i)

TIME TO PEAK (hrs)= 12.667

RUNOFF VOLUME (mm)= 13.175

TOTAL RAINFALL (mm)= 78.340

RUNOFF COEFFICIENT = 0.168

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0012) | Area (ha)= 1.60 Curve Number (CN)= 49.7
| ID= 1 DT= 5.0 min | Ia (mm)= 8.23 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.24

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.25	12.250	11.29	18.33	1.41
0.167	0.00	6.250	1.41	12.333	11.28	18.42	1.41
0.250	0.86	6.333	1.41	12.417	11.28	18.50	1.41
0.333	0.86	6.417	1.41	12.500	11.28	18.58	1.41
0.417	0.86	6.500	1.41	12.583	11.28	18.67	1.41
0.500	0.86	6.583	1.41	12.667	11.28	18.75	1.41
0.583	0.86	6.667	1.41	12.750	5.80	18.83	1.41
0.667	0.86	6.750	1.41	12.833	5.80	18.92	1.41
0.750	0.86	6.833	1.41	12.917	5.80	19.00	1.41
0.833	0.86	6.917	1.41	13.000	5.80	19.08	1.41
0.917	0.86	7.000	1.41	13.083	5.80	19.17	1.41
1.000	0.86	7.083	1.41	13.167	5.80	19.25	1.41
1.083	0.86	7.167	1.41	13.250	4.23	19.33	1.41

1.167	0.86	7.250	1.72	13.333	4.23	19.42	1.41
1.250	0.86	7.333	1.72	13.417	4.23	19.50	1.41
1.333	0.86	7.417	1.72	13.500	4.23	19.58	1.41
1.417	0.86	7.500	1.72	13.583	4.23	19.67	1.41
1.500	0.86	7.583	1.72	13.667	4.23	19.75	1.41
1.583	0.86	7.667	1.72	13.750	3.29	19.83	1.41
1.667	0.86	7.750	1.72	13.833	3.29	19.92	1.41
1.750	0.86	7.833	1.72	13.917	3.29	20.00	1.41
1.833	0.86	7.917	1.72	14.000	3.29	20.08	1.41
1.917	0.86	8.000	1.72	14.083	3.29	20.17	1.41
2.000	0.86	8.083	1.72	14.167	3.29	20.25	0.94
2.083	0.86	8.167	1.72	14.250	2.35	20.33	0.94
2.167	0.86	8.250	2.04	14.333	2.35	20.42	0.94
2.250	1.02	8.333	2.04	14.417	2.35	20.50	0.94
2.333	1.02	8.417	2.04	14.500	2.35	20.58	0.94
2.417	1.02	8.500	2.04	14.583	2.35	20.67	0.94
2.500	1.02	8.583	2.04	14.667	2.35	20.75	0.94
2.583	1.02	8.667	2.04	14.750	2.35	20.83	0.94
2.667	1.02	8.750	2.19	14.833	2.35	20.92	0.94
2.750	1.02	8.833	2.19	14.917	2.35	21.00	0.94
2.833	1.02	8.917	2.19	15.000	2.35	21.08	0.94
2.917	1.02	9.000	2.19	15.083	2.35	21.17	0.94
3.000	1.02	9.083	2.19	15.167	2.35	21.25	0.94
3.083	1.02	9.167	2.19	15.250	2.35	21.33	0.94
3.167	1.02	9.250	2.51	15.333	2.35	21.42	0.94
3.250	1.02	9.333	2.51	15.417	2.35	21.50	0.94
3.333	1.02	9.417	2.51	15.500	2.35	21.58	0.94
3.417	1.02	9.500	2.51	15.583	2.35	21.67	0.94
3.500	1.02	9.583	2.51	15.667	2.35	21.75	0.94
3.583	1.02	9.667	2.51	15.750	2.35	21.83	0.94
3.667	1.02	9.750	2.82	15.833	2.35	21.92	0.94
3.750	1.02	9.833	2.82	15.917	2.35	22.00	0.94
3.833	1.02	9.917	2.82	16.000	2.35	22.08	0.94
3.917	1.02	10.000	2.82	16.083	2.35	22.17	0.94
4.000	1.02	10.083	2.82	16.167	2.35	22.25	0.94
4.083	1.02	10.167	2.82	16.250	1.41	22.33	0.94
4.167	1.02	10.250	3.60	16.333	1.41	22.42	0.94
4.250	1.25	10.333	3.60	16.417	1.41	22.50	0.94
4.333	1.25	10.417	3.60	16.500	1.41	22.58	0.94
4.417	1.25	10.500	3.60	16.583	1.41	22.67	0.94
4.500	1.25	10.583	3.60	16.667	1.41	22.75	0.94
4.583	1.25	10.667	3.60	16.750	1.41	22.83	0.94
4.667	1.25	10.750	4.86	16.833	1.41	22.92	0.94
4.750	1.25	10.833	4.86	16.917	1.41	23.00	0.94
4.833	1.25	10.917	4.86	17.000	1.41	23.08	0.94
4.917	1.25	11.000	4.86	17.083	1.41	23.17	0.94
5.000	1.25	11.083	4.86	17.167	1.41	23.25	0.94
5.083	1.25	11.167	4.86	17.250	1.41	23.33	0.94
5.167	1.25	11.250	7.52	17.333	1.41	23.42	0.94
5.250	1.25	11.333	7.52	17.417	1.41	23.50	0.94
5.333	1.25	11.417	7.52	17.500	1.41	23.58	0.94
5.417	1.25	11.500	7.52	17.583	1.41	23.67	0.94
5.500	1.25	11.583	7.52	17.667	1.41	23.75	0.94
5.583	1.25	11.667	7.52	17.750	1.41	23.83	0.94
5.667	1.25	11.750	23.19	17.833	1.41	23.92	0.94
5.750	1.25	11.833	23.19	17.917	1.41	24.00	0.94
5.833	1.25	11.917	59.53	18.000	1.41	24.08	0.94
5.917	1.25	12.000	59.54	18.083	1.41	24.17	0.94
6.000	1.25	12.083	95.88	18.167	1.41		
6.083	1.25	12.167	95.89	18.250	1.41		

Unit Hyd Qpeak (cms)= 0.255

PEAK FLOW (cms)= 0.050 (i)

TIME TO PEAK (hrs)= 12.250

RUNOFF VOLUME (mm)= 15.009

TOTAL RAINFALL (mm)= 78.340

RUNOFF COEFFICIENT = 0.192

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
 | NASHYD (0007) | Area (ha)= 1.70 Curve Number (CN)= 62.0
 | ID= 1 DT= 5.0 min | Ia (mm)= 7.00 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.43

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.25	12.250	11.29	18.33	1.41
0.167	0.00	6.250	1.41	12.333	11.28	18.42	1.41
0.250	0.86	6.333	1.41	12.417	11.28	18.50	1.41
0.333	0.86	6.417	1.41	12.500	11.28	18.58	1.41
0.417	0.86	6.500	1.41	12.583	11.28	18.67	1.41
0.500	0.86	6.583	1.41	12.667	11.28	18.75	1.41
0.583	0.86	6.667	1.41	12.750	5.80	18.83	1.41
0.667	0.86	6.750	1.41	12.833	5.80	18.92	1.41
0.750	0.86	6.833	1.41	12.917	5.80	19.00	1.41
0.833	0.86	6.917	1.41	13.000	5.80	19.08	1.41
0.917	0.86	7.000	1.41	13.083	5.80	19.17	1.41
1.000	0.86	7.083	1.41	13.167	5.80	19.25	1.41
1.083	0.86	7.167	1.41	13.250	4.23	19.33	1.41
1.167	0.86	7.250	1.72	13.333	4.23	19.42	1.41
1.250	0.86	7.333	1.72	13.417	4.23	19.50	1.41
1.333	0.86	7.417	1.72	13.500	4.23	19.58	1.41
1.417	0.86	7.500	1.72	13.583	4.23	19.67	1.41
1.500	0.86	7.583	1.72	13.667	4.23	19.75	1.41
1.583	0.86	7.667	1.72	13.750	3.29	19.83	1.41
1.667	0.86	7.750	1.72	13.833	3.29	19.92	1.41
1.750	0.86	7.833	1.72	13.917	3.29	20.00	1.41
1.833	0.86	7.917	1.72	14.000	3.29	20.08	1.41
1.917	0.86	8.000	1.72	14.083	3.29	20.17	1.41
2.000	0.86	8.083	1.72	14.167	3.29	20.25	0.94
2.083	0.86	8.167	1.72	14.250	2.35	20.33	0.94
2.167	0.86	8.250	2.04	14.333	2.35	20.42	0.94
2.250	1.02	8.333	2.04	14.417	2.35	20.50	0.94
2.333	1.02	8.417	2.04	14.500	2.35	20.58	0.94
2.417	1.02	8.500	2.04	14.583	2.35	20.67	0.94
2.500	1.02	8.583	2.04	14.667	2.35	20.75	0.94
2.583	1.02	8.667	2.04	14.750	2.35	20.83	0.94
2.667	1.02	8.750	2.19	14.833	2.35	20.92	0.94
2.750	1.02	8.833	2.19	14.917	2.35	21.00	0.94
2.833	1.02	8.917	2.19	15.000	2.35	21.08	0.94
2.917	1.02	9.000	2.19	15.083	2.35	21.17	0.94
3.000	1.02	9.083	2.19	15.167	2.35	21.25	0.94
3.083	1.02	9.167	2.19	15.250	2.35	21.33	0.94
3.167	1.02	9.250	2.51	15.333	2.35	21.42	0.94
3.250	1.02	9.333	2.51	15.417	2.35	21.50	0.94
3.333	1.02	9.417	2.51	15.500	2.35	21.58	0.94
3.417	1.02	9.500	2.51	15.583	2.35	21.67	0.94
3.500	1.02	9.583	2.51	15.667	2.35	21.75	0.94
3.583	1.02	9.667	2.51	15.750	2.35	21.83	0.94
3.667	1.02	9.750	2.82	15.833	2.35	21.92	0.94
3.750	1.02	9.833	2.82	15.917	2.35	22.00	0.94
3.833	1.02	9.917	2.82	16.000	2.35	22.08	0.94
3.917	1.02	10.000	2.82	16.083	2.35	22.17	0.94
4.000	1.02	10.083	2.82	16.167	2.35	22.25	0.94
4.083	1.02	10.167	2.82	16.250	1.41	22.33	0.94
4.167	1.02	10.250	3.60	16.333	1.41	22.42	0.94
4.250	1.25	10.333	3.60	16.417	1.41	22.50	0.94
4.333	1.25	10.417	3.60	16.500	1.41	22.58	0.94
4.417	1.25	10.500	3.60	16.583	1.41	22.67	0.94
4.500	1.25	10.583	3.60	16.667	1.41	22.75	0.94
4.583	1.25	10.667	3.60	16.750	1.41	22.83	0.94
4.667	1.25	10.750	4.86	16.833	1.41	22.92	0.94
4.750	1.25	10.833	4.86	16.917	1.41	23.00	0.94
4.833	1.25	10.917	4.86	17.000	1.41	23.08	0.94
4.917	1.25	11.000	4.86	17.083	1.41	23.17	0.94
5.000	1.25	11.083	4.86	17.167	1.41	23.25	0.94
5.083	1.25	11.167	4.86	17.250	1.41	23.33	0.94
5.167	1.25	11.250	7.52	17.333	1.41	23.42	0.94

5.250	1.25	11.333	7.52	17.417	1.41	23.50	0.94
5.333	1.25	11.417	7.52	17.500	1.41	23.58	0.94
5.417	1.25	11.500	7.52	17.583	1.41	23.67	0.94
5.500	1.25	11.583	7.52	17.667	1.41	23.75	0.94
5.583	1.25	11.667	7.52	17.750	1.41	23.83	0.94
5.667	1.25	11.750	23.19	17.833	1.41	23.92	0.94
5.750	1.25	11.833	23.19	17.917	1.41	24.00	0.94
5.833	1.25	11.917	59.53	18.000	1.41	24.08	0.94
5.917	1.25	12.000	59.54	18.083	1.41	24.17	0.94
6.000	1.25	12.083	95.88	18.167	1.41		
6.083	1.25	12.167	95.89	18.250	1.41		

Unit Hyd Qpeak (cms)= 0.151

PEAK FLOW (cms)= 0.054 (i)
TIME TO PEAK (hrs)= 12.500
RUNOFF VOLUME (mm)= 22.416
TOTAL RAINFALL (mm)= 78.340
RUNOFF COEFFICIENT = 0.286

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0006)| Area (ha)= 1.82 Curve Number (CN)= 32.0
| ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.30

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.25	12.250	11.29	18.33	1.41
0.167	0.00	6.250	1.41	12.333	11.28	18.42	1.41
0.250	0.86	6.333	1.41	12.417	11.28	18.50	1.41
0.333	0.86	6.417	1.41	12.500	11.28	18.58	1.41
0.417	0.86	6.500	1.41	12.583	11.28	18.67	1.41
0.500	0.86	6.583	1.41	12.667	11.28	18.75	1.41
0.583	0.86	6.667	1.41	12.750	5.80	18.83	1.41
0.667	0.86	6.750	1.41	12.833	5.80	18.92	1.41
0.750	0.86	6.833	1.41	12.917	5.80	19.00	1.41
0.833	0.86	6.917	1.41	13.000	5.80	19.08	1.41
0.917	0.86	7.000	1.41	13.083	5.80	19.17	1.41
1.000	0.86	7.083	1.41	13.167	5.80	19.25	1.41
1.083	0.86	7.167	1.41	13.250	4.23	19.33	1.41
1.167	0.86	7.250	1.72	13.333	4.23	19.42	1.41
1.250	0.86	7.333	1.72	13.417	4.23	19.50	1.41
1.333	0.86	7.417	1.72	13.500	4.23	19.58	1.41
1.417	0.86	7.500	1.72	13.583	4.23	19.67	1.41
1.500	0.86	7.583	1.72	13.667	4.23	19.75	1.41
1.583	0.86	7.667	1.72	13.750	3.29	19.83	1.41
1.667	0.86	7.750	1.72	13.833	3.29	19.92	1.41
1.750	0.86	7.833	1.72	13.917	3.29	20.00	1.41
1.833	0.86	7.917	1.72	14.000	3.29	20.08	1.41
1.917	0.86	8.000	1.72	14.083	3.29	20.17	1.41
2.000	0.86	8.083	1.72	14.167	3.29	20.25	0.94
2.083	0.86	8.167	1.72	14.250	2.35	20.33	0.94
2.167	0.86	8.250	2.04	14.333	2.35	20.42	0.94
2.250	1.02	8.333	2.04	14.417	2.35	20.50	0.94
2.333	1.02	8.417	2.04	14.500	2.35	20.58	0.94
2.417	1.02	8.500	2.04	14.583	2.35	20.67	0.94
2.500	1.02	8.583	2.04	14.667	2.35	20.75	0.94
2.583	1.02	8.667	2.04	14.750	2.35	20.83	0.94
2.667	1.02	8.750	2.19	14.833	2.35	20.92	0.94
2.750	1.02	8.833	2.19	14.917	2.35	21.00	0.94
2.833	1.02	8.917	2.19	15.000	2.35	21.08	0.94
2.917	1.02	9.000	2.19	15.083	2.35	21.17	0.94
3.000	1.02	9.083	2.19	15.167	2.35	21.25	0.94
3.083	1.02	9.167	2.19	15.250	2.35	21.33	0.94
3.167	1.02	9.250	2.51	15.333	2.35	21.42	0.94

3.250	1.02	9.333	2.51	15.417	2.35	21.50	0.94
3.333	1.02	9.417	2.51	15.500	2.35	21.58	0.94
3.417	1.02	9.500	2.51	15.583	2.35	21.67	0.94
3.500	1.02	9.583	2.51	15.667	2.35	21.75	0.94
3.583	1.02	9.667	2.51	15.750	2.35	21.83	0.94
3.667	1.02	9.750	2.82	15.833	2.35	21.92	0.94
3.750	1.02	9.833	2.82	15.917	2.35	22.00	0.94
3.833	1.02	9.917	2.82	16.000	2.35	22.08	0.94
3.917	1.02	10.000	2.82	16.083	2.35	22.17	0.94
4.000	1.02	10.083	2.82	16.167	2.35	22.25	0.94
4.083	1.02	10.167	2.82	16.250	1.41	22.33	0.94
4.167	1.02	10.250	3.60	16.333	1.41	22.42	0.94
4.250	1.25	10.333	3.60	16.417	1.41	22.50	0.94
4.333	1.25	10.417	3.60	16.500	1.41	22.58	0.94
4.417	1.25	10.500	3.60	16.583	1.41	22.67	0.94
4.500	1.25	10.583	3.60	16.667	1.41	22.75	0.94
4.583	1.25	10.667	3.60	16.750	1.41	22.83	0.94
4.667	1.25	10.750	4.86	16.833	1.41	22.92	0.94
4.750	1.25	10.833	4.86	16.917	1.41	23.00	0.94
4.833	1.25	10.917	4.86	17.000	1.41	23.08	0.94
4.917	1.25	11.000	4.86	17.083	1.41	23.17	0.94
5.000	1.25	11.083	4.86	17.167	1.41	23.25	0.94
5.083	1.25	11.167	4.86	17.250	1.41	23.33	0.94
5.167	1.25	11.250	7.52	17.333	1.41	23.42	0.94
5.250	1.25	11.333	7.52	17.417	1.41	23.50	0.94
5.333	1.25	11.417	7.52	17.500	1.41	23.58	0.94
5.417	1.25	11.500	7.52	17.583	1.41	23.67	0.94
5.500	1.25	11.583	7.52	17.667	1.41	23.75	0.94
5.583	1.25	11.667	7.52	17.750	1.41	23.83	0.94
5.667	1.25	11.750	23.19	17.833	1.41	23.92	0.94
5.750	1.25	11.833	23.19	17.917	1.41	24.00	0.94
5.833	1.25	11.917	59.53	18.000	1.41	24.08	0.94
5.917	1.25	12.000	59.54	18.083	1.41	24.17	0.94
6.000	1.25	12.083	95.88	18.167	1.41		
6.083	1.25	12.167	95.89	18.250	1.41		

Unit Hyd Qpeak (cms)= 0.232

PEAK FLOW (cms)= 0.024 (i)
TIME TO PEAK (hrs)= 12.333
RUNOFF VOLUME (mm)= 7.677
TOTAL RAINFALL (mm)= 78.340
RUNOFF COEFFICIENT = 0.098

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| STANDHYD (0020) | Area (ha)= 3.73
| ID= 1 DT= 5.0 min | Total Imp(%)= 47.13 Dir. Conn.(%)= 36.26

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 1.76 1.97
Dep. Storage (mm)= 2.00 5.00
Average Slope (°)= 1.00 2.00
Length (m)= 56.00 32.50
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN		TIME	RAIN		TIME	RAIN		TIME	RAIN
hrs	mm/hr		hrs	mm/hr		hrs	mm/hr		hrs	mm/hr
0.083	0.00	6.167	1.25	12.250	11.29	18.33	1.41			
0.167	0.00	6.250	1.41	12.333	11.28	18.42	1.41			
0.250	0.86	6.333	1.41	12.417	11.28	18.50	1.41			
0.333	0.86	6.417	1.41	12.500	11.28	18.58	1.41			
0.417	0.86	6.500	1.41	12.583	11.28	18.67	1.41			
0.500	0.86	6.583	1.41	12.667	11.28	18.75	1.41			
0.583	0.86	6.667	1.41	12.750	5.80	18.83	1.41			
0.667	0.86	6.750	1.41	12.833	5.80	18.92	1.41			

0.750	0.86	6.833	1.41	12.917	5.80	19.00	1.41
0.833	0.86	6.917	1.41	13.000	5.80	19.08	1.41
0.917	0.86	7.000	1.41	13.083	5.80	19.17	1.41
1.000	0.86	7.083	1.41	13.167	5.80	19.25	1.41
1.083	0.86	7.167	1.41	13.250	4.23	19.33	1.41
1.167	0.86	7.250	1.72	13.333	4.23	19.42	1.41
1.250	0.86	7.333	1.72	13.417	4.23	19.50	1.41
1.333	0.86	7.417	1.72	13.500	4.23	19.58	1.41
1.417	0.86	7.500	1.72	13.583	4.23	19.67	1.41
1.500	0.86	7.583	1.72	13.667	4.23	19.75	1.41
1.583	0.86	7.667	1.72	13.750	3.29	19.83	1.41
1.667	0.86	7.750	1.72	13.833	3.29	19.92	1.41
1.750	0.86	7.833	1.72	13.917	3.29	20.00	1.41
1.833	0.86	7.917	1.72	14.000	3.29	20.08	1.41
1.917	0.86	8.000	1.72	14.083	3.29	20.17	1.41
2.000	0.86	8.083	1.72	14.167	3.29	20.25	0.94
2.083	0.86	8.167	1.72	14.250	2.35	20.33	0.94
2.167	0.86	8.250	2.04	14.333	2.35	20.42	0.94
2.250	1.02	8.333	2.04	14.417	2.35	20.50	0.94
2.333	1.02	8.417	2.04	14.500	2.35	20.58	0.94
2.417	1.02	8.500	2.04	14.583	2.35	20.67	0.94
2.500	1.02	8.583	2.04	14.667	2.35	20.75	0.94
2.583	1.02	8.667	2.04	14.750	2.35	20.83	0.94
2.667	1.02	8.750	2.19	14.833	2.35	20.92	0.94
2.750	1.02	8.833	2.19	14.917	2.35	21.00	0.94
2.833	1.02	8.917	2.19	15.000	2.35	21.08	0.94
2.917	1.02	9.000	2.19	15.083	2.35	21.17	0.94
3.000	1.02	9.083	2.19	15.167	2.35	21.25	0.94
3.083	1.02	9.167	2.19	15.250	2.35	21.33	0.94
3.167	1.02	9.250	2.51	15.333	2.35	21.42	0.94
3.250	1.02	9.333	2.51	15.417	2.35	21.50	0.94
3.333	1.02	9.417	2.51	15.500	2.35	21.58	0.94
3.417	1.02	9.500	2.51	15.583	2.35	21.67	0.94
3.500	1.02	9.583	2.51	15.667	2.35	21.75	0.94
3.583	1.02	9.667	2.51	15.750	2.35	21.83	0.94
3.667	1.02	9.750	2.82	15.833	2.35	21.92	0.94
3.750	1.02	9.833	2.82	15.917	2.35	22.00	0.94
3.833	1.02	9.917	2.82	16.000	2.35	22.08	0.94
3.917	1.02	10.000	2.82	16.083	2.35	22.17	0.94
4.000	1.02	10.083	2.82	16.167	2.35	22.25	0.94
4.083	1.02	10.167	2.82	16.250	1.41	22.33	0.94
4.167	1.02	10.250	3.60	16.333	1.41	22.42	0.94
4.250	1.25	10.333	3.60	16.417	1.41	22.50	0.94
4.333	1.25	10.417	3.60	16.500	1.41	22.58	0.94
4.417	1.25	10.500	3.60	16.583	1.41	22.67	0.94
4.500	1.25	10.583	3.60	16.667	1.41	22.75	0.94
4.583	1.25	10.667	3.60	16.750	1.41	22.83	0.94
4.667	1.25	10.750	4.86	16.833	1.41	22.92	0.94
4.750	1.25	10.833	4.86	16.917	1.41	23.00	0.94
4.833	1.25	10.917	4.86	17.000	1.41	23.08	0.94
4.917	1.25	11.000	4.86	17.083	1.41	23.17	0.94
5.000	1.25	11.083	4.86	17.167	1.41	23.25	0.94
5.083	1.25	11.167	4.86	17.250	1.41	23.33	0.94
5.167	1.25	11.250	7.52	17.333	1.41	23.42	0.94
5.250	1.25	11.333	7.52	17.417	1.41	23.50	0.94
5.333	1.25	11.417	7.52	17.500	1.41	23.58	0.94
5.417	1.25	11.500	7.52	17.583	1.41	23.67	0.94
5.500	1.25	11.583	7.52	17.667	1.41	23.75	0.94
5.583	1.25	11.667	7.52	17.750	1.41	23.83	0.94
5.667	1.25	11.750	23.19	17.833	1.41	23.92	0.94
5.750	1.25	11.833	23.19	17.917	1.41	24.00	0.94
5.833	1.25	11.917	59.53	18.000	1.41	24.08	0.94
5.917	1.25	12.000	59.54	18.083	1.41	24.17	0.94
6.000	1.25	12.083	95.88	18.167	1.41		
6.083	1.25	12.167	95.89	18.250	1.41		

Max.Eff.Inten.(mm/hr)=	95.89	32.71
over (min)	5.00	15.00
Storage Coeff. (min)=	1.83 (ii)	11.58 (ii)
Unit Hyd. Tpeak (min)=	5.00	15.00
Unit Hyd. peak (cms)=	0.32	0.09
	TOTALS	
PEAK FLOW (cms)=	0.36	0.10 0.446 (iii)

TIME TO PEAK (hrs)= 12.17 12.25 12.17
 RUNOFF VOLUME (mm)= 76.34 18.76 39.63
 TOTAL RAINFALL (mm)= 78.34 78.34 78.34
 RUNOFF COEFFICIENT = 0.97 0.24 0.51

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
 CN* = 49.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
 THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | RESERVOIR(0026)| OVERFLOW IS OFF
 | IN= 2---> OUT= 1 |
 | DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE

----- (cms) (ha.m.) | (cms) (ha.m.)
 0.0000 0.0000 | 0.0240 0.1740
 0.0030 0.0310 | 0.0270 0.1880
 0.0050 0.0640 | 0.0310 0.2150
 0.0060 0.0990 | 0.0370 0.2560
 0.0080 0.1360 | 0.0000 0.0000

AREA QPEAK TPEAK R.V.
 (ha) (cms) (hrs) (mm)
 INFLOW : ID= 2 (0020) 3.730 0.446 12.17 39.63
 OUTFLOW: ID= 1 (0026) 3.730 0.007 20.42 38.93

PEAK FLOW REDUCTION [Qout/Qin](%)= 1.56
 TIME SHIFT OF PEAK FLOW (min)=495.00
 MAXIMUM STORAGE USED (ha.m.)= 0.1162

 | CALIB |
 | STANDHYD (0021)| Area (ha)= 2.16
 | ID= 1 DT= 5.0 min | Total Imp(%)= 41.54 Dir. Conn.(%)= 31.77

 IMPERVIOUS PERVIOUS (i)
 Surface Area (ha)= 0.90 1.26
 Dep. Storage (mm)= 2.00 5.00
 Average Slope (%)= 1.20 2.00
 Length (m)= 64.00 33.00
 Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----
 TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN
 hrs mm/hr | hrs mm/hr | hrs mm/hr | hrs mm/hr
 0.083 0.00 | 6.167 1.25 | 12.250 11.29 | 18.33 1.41
 0.167 0.00 | 6.250 1.41 | 12.333 11.28 | 18.42 1.41
 0.250 0.86 | 6.333 1.41 | 12.417 11.28 | 18.50 1.41
 0.333 0.86 | 6.417 1.41 | 12.500 11.28 | 18.58 1.41
 0.417 0.86 | 6.500 1.41 | 12.583 11.28 | 18.67 1.41
 0.500 0.86 | 6.583 1.41 | 12.667 11.28 | 18.75 1.41
 0.583 0.86 | 6.667 1.41 | 12.750 5.80 | 18.83 1.41
 0.667 0.86 | 6.750 1.41 | 12.833 5.80 | 18.92 1.41
 0.750 0.86 | 6.833 1.41 | 12.917 5.80 | 19.00 1.41
 0.833 0.86 | 6.917 1.41 | 13.000 5.80 | 19.08 1.41
 0.917 0.86 | 7.000 1.41 | 13.083 5.80 | 19.17 1.41
 1.000 0.86 | 7.083 1.41 | 13.167 5.80 | 19.25 1.41
 1.083 0.86 | 7.167 1.41 | 13.250 4.23 | 19.33 1.41
 1.167 0.86 | 7.250 1.72 | 13.333 4.23 | 19.42 1.41
 1.250 0.86 | 7.333 1.72 | 13.417 4.23 | 19.50 1.41
 1.333 0.86 | 7.417 1.72 | 13.500 4.23 | 19.58 1.41
 1.417 0.86 | 7.500 1.72 | 13.583 4.23 | 19.67 1.41
 1.500 0.86 | 7.583 1.72 | 13.667 4.23 | 19.75 1.41
 1.583 0.86 | 7.667 1.72 | 13.750 3.29 | 19.83 1.41
 1.667 0.86 | 7.750 1.72 | 13.833 3.29 | 19.92 1.41

1.750	0.86	7.833	1.72	13.917	3.29	20.00	1.41
1.833	0.86	7.917	1.72	14.000	3.29	20.08	1.41
1.917	0.86	8.000	1.72	14.083	3.29	20.17	1.41
2.000	0.86	8.083	1.72	14.167	3.29	20.25	0.94
2.083	0.86	8.167	1.72	14.250	2.35	20.33	0.94
2.167	0.86	8.250	2.04	14.333	2.35	20.42	0.94
2.250	1.02	8.333	2.04	14.417	2.35	20.50	0.94
2.333	1.02	8.417	2.04	14.500	2.35	20.58	0.94
2.417	1.02	8.500	2.04	14.583	2.35	20.67	0.94
2.500	1.02	8.583	2.04	14.667	2.35	20.75	0.94
2.583	1.02	8.667	2.04	14.750	2.35	20.83	0.94
2.667	1.02	8.750	2.19	14.833	2.35	20.92	0.94
2.750	1.02	8.833	2.19	14.917	2.35	21.00	0.94
2.833	1.02	8.917	2.19	15.000	2.35	21.08	0.94
2.917	1.02	9.000	2.19	15.083	2.35	21.17	0.94
3.000	1.02	9.083	2.19	15.167	2.35	21.25	0.94
3.083	1.02	9.167	2.19	15.250	2.35	21.33	0.94
3.167	1.02	9.250	2.51	15.333	2.35	21.42	0.94
3.250	1.02	9.333	2.51	15.417	2.35	21.50	0.94
3.333	1.02	9.417	2.51	15.500	2.35	21.58	0.94
3.417	1.02	9.500	2.51	15.583	2.35	21.67	0.94
3.500	1.02	9.583	2.51	15.667	2.35	21.75	0.94
3.583	1.02	9.667	2.51	15.750	2.35	21.83	0.94
3.667	1.02	9.750	2.82	15.833	2.35	21.92	0.94
3.750	1.02	9.833	2.82	15.917	2.35	22.00	0.94
3.833	1.02	9.917	2.82	16.000	2.35	22.08	0.94
3.917	1.02	10.000	2.82	16.083	2.35	22.17	0.94
4.000	1.02	10.083	2.82	16.167	2.35	22.25	0.94
4.083	1.02	10.167	2.82	16.250	1.41	22.33	0.94
4.167	1.02	10.250	3.60	16.333	1.41	22.42	0.94
4.250	1.25	10.333	3.60	16.417	1.41	22.50	0.94
4.333	1.25	10.417	3.60	16.500	1.41	22.58	0.94
4.417	1.25	10.500	3.60	16.583	1.41	22.67	0.94
4.500	1.25	10.583	3.60	16.667	1.41	22.75	0.94
4.583	1.25	10.667	3.60	16.750	1.41	22.83	0.94
4.667	1.25	10.750	4.86	16.833	1.41	22.92	0.94
4.750	1.25	10.833	4.86	16.917	1.41	23.00	0.94
4.833	1.25	10.917	4.86	17.000	1.41	23.08	0.94
4.917	1.25	11.000	4.86	17.083	1.41	23.17	0.94
5.000	1.25	11.083	4.86	17.167	1.41	23.25	0.94
5.083	1.25	11.167	4.86	17.250	1.41	23.33	0.94
5.167	1.25	11.250	7.52	17.333	1.41	23.42	0.94
5.250	1.25	11.333	7.52	17.417	1.41	23.50	0.94
5.333	1.25	11.417	7.52	17.500	1.41	23.58	0.94
5.417	1.25	11.500	7.52	17.583	1.41	23.67	0.94
5.500	1.25	11.583	7.52	17.667	1.41	23.75	0.94
5.583	1.25	11.667	7.52	17.750	1.41	23.83	0.94
5.667	1.25	11.750	23.19	17.833	1.41	23.92	0.94
5.750	1.25	11.833	23.19	17.917	1.41	24.00	0.94
5.833	1.25	11.917	59.53	18.000	1.41	24.08	0.94
5.917	1.25	12.000	59.54	18.083	1.41	24.17	0.94
6.000	1.25	12.083	95.88	18.167	1.41		
6.083	1.25	12.167	95.89	18.250	1.41		

Max.Eff.Inten.(mm/hr)= 95.89 25.51
over (min) 5.00 15.00

Storage Coeff. (min)= 1.88 (ii) 12.74 (ii)

Unit Hyd. Tpeak (min)= 5.00 15.00

Unit Hyd. peak (cms)= 0.32 0.08

TOTALS

PEAK FLOW (cms)= 0.18 0.06 0.232 (iii)

TIME TO PEAK (hrs)= 12.17 12.25 12.17

RUNOFF VOLUME (mm)= 76.34 18.25 36.70

TOTAL RAINFALL (mm)= 78.34 78.34 78.34

RUNOFF COEFFICIENT = 0.97 0.23 0.47

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 49.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.


```

| RESERVOIR( 0025)|  OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT= 5.0 min  |  OUTFLOW STORAGE | OUTFLOW STORAGE
----- (cms) (ha.m.) | (cms) (ha.m.)

```

```

0.0000 0.0000 | 0.0300 0.0570
0.0010 0.0070 | 0.0340 0.0670
0.0020 0.0140 | 0.0380 0.0780
0.0020 0.0210 | 0.0400 0.0870
0.0020 0.0230 | 0.0410 0.0890
0.0020 0.0300 | 0.0440 0.1010
0.0180 0.0380 | 0.0470 0.1120
0.0240 0.0470 | 0.0000 0.0000

```

```

      AREA  QPEAK  TPEAK  R.V.
      (ha) (cms) (hrs) (mm)
INFLOW: ID= 2 ( 0021)  2.160  0.232  12.17  36.70
OUTFLOW: ID= 1 ( 0025)  2.160  0.023  13.08  35.88

```

```

      PEAK FLOW REDUCTION [Qout/Qin](%)= 9.88
      TIME SHIFT OF PEAK FLOW      (min)= 55.00
      MAXIMUM STORAGE USED      (ha.m.)= 0.0454

```

```

| ADD HYD ( 0019)|
| 1 + 2 = 3 |  AREA  QPEAK  TPEAK  R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 1 ( 0012):  1.60  0.050  12.25  15.01
+ ID2= 2 ( 0013):  12.11  0.182  12.67  13.18
=====
ID = 3 ( 0019):  13.71  0.209  12.58  13.39

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

| ADD HYD ( 0019)|
| 3 + 2 = 1 |  AREA  QPEAK  TPEAK  R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 3 ( 0019):  13.71  0.209  12.58  13.39
+ ID2= 2 ( 0017):  5.08  0.105  12.33  11.89
=====
ID = 1 ( 0019):  18.79  0.304  12.42  12.98

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

| ADD HYD ( 0019)|
| 1 + 2 = 3 |  AREA  QPEAK  TPEAK  R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 1 ( 0019):  18.79  0.304  12.42  12.98
+ ID2= 2 ( 0023):  3.32  0.039  13.00  33.95
=====
ID = 3 ( 0019):  22.11  0.329  12.50  16.13

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

| ADD HYD ( 0019)|
| 3 + 2 = 1 |  AREA  QPEAK  TPEAK  R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 3 ( 0019):  22.11  0.329  12.50  16.13
+ ID2= 2 ( 0025):  2.16  0.023  13.08  35.88
=====
ID = 1 ( 0019):  24.27  0.350  12.50  17.89

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 1 (0019): 24.27 0.350 12.50 17.89
+ ID2= 2 (0026): 3.73 0.007 20.42 38.93
=====

ID = 3 (0019): 28.00 0.355 12.50 20.69

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 3 (0019): 28.00 0.355 12.50 20.69
+ ID2= 2 (0028): 14.72 0.095 13.00 7.68
=====

ID = 1 (0019): 42.72 0.429 12.58 16.21

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 1 (0019): 42.72 0.429 12.58 16.21
+ ID2= 2 (0005): 9.65 0.069 12.83 7.68
=====

ID = 3 (0019): 52.37 0.493 12.67 14.64

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 3 (0019): 52.37 0.493 12.67 14.64
+ ID2= 2 (0006): 1.82 0.024 12.33 7.68
=====

ID = 1 (0019): 54.19 0.510 12.58 14.40

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 1 (0019): 54.19 0.510 12.58 14.40
+ ID2= 2 (0007): 1.70 0.054 12.50 22.42
=====

ID = 3 (0019): 55.89 0.563 12.58 14.65

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 3 (0019): 55.89 0.563 12.58 14.65
+ ID2= 2 (0008): 0.23 0.003 12.42 7.67a
=====

ID = 1 (0019): 56.12 0.565 12.58 14.62

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

=====

V V I SSSSS U U A L (v6.2.2015)
V V I SS U U AA L
V V I SS U U AAAAA L
V V I SS U U A A L
V V I SSSSS UUUUU A A LLLLL

OOO TTTT TTTT H H Y Y M M OOO TM
O O T T H H Y Y MM MM O O
O O T T H H Y M M O O
OOO T T H H Y M M OOO

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***** DETAILED OUTPUT *****

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.2\VO2\voindat
Output filename: C:\Users\ajoshi\AppData\Local\Civica\XH5\152aa03f-7064-4fdb-bb4c-0cf677e1e463\3e0b18e0-aac6-43ea-ad3d-51a0aca393d0\scena
Summary filename: C:\Users\ajoshi\AppData\Local\Civica\XH5\152aa03f-7064-4fdb-bb4c-0cf677e1e463\3e0b18e0-aac6-43ea-ad3d-51a0aca393d0\scena

DATE: 04-25-2025 TIME: 03:57:18

USER:

COMMENTS: _____

** SIMULATION : 100yr 24hr 10min SCS Type II **

| READ STORM | Filename: C:\Users\ajoshi\AppData
| | ata\Local\Temp\
| | 2e45309f-1d89-4d82-bfac-9f33c63413d7\1fd7f8a9
| Ptotal=130.66 mm | Comments: 100yr 24hr 10min SCS Type II (MTO)

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.00	0.00	6.17	2.35	12.33	18.82	18.50	2.35
0.17	1.44	6.33	2.35	12.50	18.82	18.67	2.35
0.33	1.44	6.50	2.35	12.67	9.67	18.83	2.35
0.50	1.44	6.67	2.35	12.83	9.67	19.00	2.35
0.67	1.44	6.83	2.35	13.00	9.67	19.17	2.35
0.83	1.44	7.00	2.35	13.17	7.06	19.33	2.35
1.00	1.44	7.17	2.87	13.33	7.06	19.50	2.35
1.17	1.44	7.33	2.87	13.50	7.06	19.67	2.35
1.33	1.44	7.50	2.87	13.67	5.49	19.83	2.35
1.50	1.44	7.67	2.87	13.83	5.49	20.00	2.35
1.67	1.44	7.83	2.87	14.00	5.49	20.17	1.57
1.83	1.44	8.00	2.87	14.17	3.92	20.33	1.57
2.00	1.44	8.17	3.40	14.33	3.92	20.50	1.57
2.17	1.70	8.33	3.40	14.50	3.92	20.67	1.57
2.33	1.70	8.50	3.40	14.67	3.92	20.83	1.57
2.50	1.70	8.67	3.66	14.83	3.92	21.00	1.57
2.67	1.70	8.83	3.66	15.00	3.92	21.17	1.57
2.83	1.70	9.00	3.66	15.17	3.92	21.33	1.57
3.00	1.70	9.17	4.18	15.33	3.92	21.50	1.57
3.17	1.70	9.33	4.18	15.50	3.92	21.67	1.57
3.33	1.70	9.50	4.18	15.67	3.92	21.83	1.57
3.50	1.70	9.67	4.70	15.83	3.92	22.00	1.57
3.67	1.70	9.83	4.70	16.00	3.92	22.17	1.57
3.83	1.70	10.00	4.70	16.17	2.35	22.33	1.57

4.00	1.70		10.17	6.01		16.33	2.35		22.50	1.57
4.17	2.09		10.33	6.01		16.50	2.35		22.67	1.57
4.33	2.09		10.50	6.01		16.67	2.35		22.83	1.57
4.50	2.09		10.67	8.10		16.83	2.35		23.00	1.57
4.67	2.09		10.83	8.10		17.00	2.35		23.17	1.57
4.83	2.09		11.00	8.10		17.17	2.35		23.33	1.57
5.00	2.09		11.17	12.54		17.33	2.35		23.50	1.57
5.17	2.09		11.33	12.54		17.50	2.35		23.67	1.57
5.33	2.09		11.50	12.54		17.67	2.35		23.83	1.57
5.50	2.09		11.67	38.68		17.83	2.35		24.00	1.57
5.67	2.09		11.83	99.30		18.00	2.35			
5.83	2.09		12.00	159.93		18.17	2.35			
6.00	2.09		12.17	18.82		18.33	2.35			

| CALIB |

| NASHYD (0015) | Area (ha)= 3.24 Curve Number (CN)= 37.0

| ID= 1 DT= 5.0 min | Ia (mm)= 11.14 # of Linear Res.(N)= 3.00

----- U.H. Tp(hrs)= 0.41

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN		TIME	RAIN		TIME	RAIN		TIME	RAIN
hrs	mm/hr		hrs	mm/hr		hrs	mm/hr		hrs	mm/hr
0.083	0.00		6.167	2.09		12.250	18.83		18.33	2.35
0.167	0.00		6.250	2.35		12.333	18.82		18.42	2.35
0.250	1.44		6.333	2.35		12.417	18.81		18.50	2.35
0.333	1.44		6.417	2.35		12.500	18.82		18.58	2.35
0.417	1.44		6.500	2.35		12.583	18.81		18.67	2.35
0.500	1.44		6.583	2.35		12.667	18.82		18.75	2.35
0.583	1.44		6.667	2.35		12.750	9.67		18.83	2.35
0.667	1.44		6.750	2.35		12.833	9.67		18.92	2.35
0.750	1.44		6.833	2.35		12.917	9.67		19.00	2.35
0.833	1.44		6.917	2.35		13.000	9.67		19.08	2.35
0.917	1.44		7.000	2.35		13.083	9.67		19.17	2.35
1.000	1.44		7.083	2.35		13.167	9.67		19.25	2.35
1.083	1.44		7.167	2.35		13.250	7.06		19.33	2.35
1.167	1.44		7.250	2.87		13.333	7.06		19.42	2.35
1.250	1.44		7.333	2.87		13.417	7.06		19.50	2.35
1.333	1.44		7.417	2.87		13.500	7.06		19.58	2.35
1.417	1.44		7.500	2.87		13.583	7.06		19.67	2.35
1.500	1.44		7.583	2.87		13.667	7.06		19.75	2.35
1.583	1.44		7.667	2.87		13.750	5.49		19.83	2.35
1.667	1.44		7.750	2.87		13.833	5.49		19.92	2.35
1.750	1.44		7.833	2.87		13.917	5.49		20.00	2.35
1.833	1.44		7.917	2.87		14.000	5.49		20.08	2.35
1.917	1.44		8.000	2.87		14.083	5.49		20.17	2.35
2.000	1.44		8.083	2.87		14.167	5.49		20.25	1.57
2.083	1.44		8.167	2.87		14.250	3.92		20.33	1.57
2.167	1.44		8.250	3.40		14.333	3.92		20.42	1.57
2.250	1.70		8.333	3.40		14.417	3.92		20.50	1.57
2.333	1.70		8.417	3.40		14.500	3.92		20.58	1.57
2.417	1.70		8.500	3.40		14.583	3.92		20.67	1.57
2.500	1.70		8.583	3.40		14.667	3.92		20.75	1.57
2.583	1.70		8.667	3.40		14.750	3.92		20.83	1.57
2.667	1.70		8.750	3.66		14.833	3.92		20.92	1.57
2.750	1.70		8.833	3.66		14.917	3.92		21.00	1.57
2.833	1.70		8.917	3.66		15.000	3.92		21.08	1.57
2.917	1.70		9.000	3.66		15.083	3.92		21.17	1.57
3.000	1.70		9.083	3.66		15.167	3.92		21.25	1.57
3.083	1.70		9.167	3.66		15.250	3.92		21.33	1.57
3.167	1.70		9.250	4.18		15.333	3.92		21.42	1.57
3.250	1.70		9.333	4.18		15.417	3.92		21.50	1.57
3.333	1.70		9.417	4.18		15.500	3.92		21.58	1.57
3.417	1.70		9.500	4.18		15.583	3.92		21.67	1.57
3.500	1.70		9.583	4.18		15.667	3.92		21.75	1.57
3.583	1.70		9.667	4.18		15.750	3.92		21.83	1.57
3.667	1.70		9.750	4.70		15.833	3.92		21.92	1.57
3.750	1.70		9.833	4.70		15.917	3.92		22.00	1.57

3.833	1.70	9.917	4.70	16.000	3.92	22.08	1.57
3.917	1.70	10.000	4.70	16.083	3.92	22.17	1.57
4.000	1.70	10.083	4.70	16.167	3.92	22.25	1.57
4.083	1.70	10.167	4.70	16.250	2.35	22.33	1.57
4.167	1.70	10.250	6.01	16.333	2.35	22.42	1.57
4.250	2.09	10.333	6.01	16.417	2.35	22.50	1.57
4.333	2.09	10.417	6.01	16.500	2.35	22.58	1.57
4.417	2.09	10.500	6.01	16.583	2.35	22.67	1.57
4.500	2.09	10.583	6.01	16.667	2.35	22.75	1.57
4.583	2.09	10.667	6.01	16.750	2.35	22.83	1.57
4.667	2.09	10.750	8.10	16.833	2.35	22.92	1.57
4.750	2.09	10.833	8.10	16.917	2.35	23.00	1.57
4.833	2.09	10.917	8.10	17.000	2.35	23.08	1.57
4.917	2.09	11.000	8.10	17.083	2.35	23.17	1.57
5.000	2.09	11.083	8.10	17.167	2.35	23.25	1.57
5.083	2.09	11.167	8.10	17.250	2.35	23.33	1.57
5.167	2.09	11.250	12.54	17.333	2.35	23.42	1.57
5.250	2.09	11.333	12.54	17.417	2.35	23.50	1.57
5.333	2.09	11.417	12.54	17.500	2.35	23.58	1.57
5.417	2.09	11.500	12.54	17.583	2.35	23.67	1.57
5.500	2.09	11.583	12.54	17.667	2.35	23.75	1.57
5.583	2.09	11.667	12.54	17.750	2.35	23.83	1.57
5.667	2.09	11.750	38.67	17.833	2.35	23.92	1.57
5.750	2.09	11.833	38.68	17.917	2.35	24.00	1.57
5.833	2.09	11.917	99.29	18.000	2.35	24.08	1.57
5.917	2.09	12.000	99.30	18.083	2.35	24.17	1.57
6.000	2.09	12.083	159.92	18.167	2.35		
6.083	2.09	12.167	159.93	18.250	2.35		

Unit Hyd Qpeak (cms)= 0.302

PEAK FLOW (cms)= 0.120 (i)

TIME TO PEAK (hrs)= 12.500

RUNOFF VOLUME (mm)= 25.875

TOTAL RAINFALL (mm)= 130.660

RUNOFF COEFFICIENT = 0.198

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0001) | Area (ha)= 2.64 Curve Number (CN)= 36.2
| ID= 1 DT= 5.0 min | Ia (mm)= 9.50 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.61

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN		TIME	RAIN		TIME	RAIN		TIME	RAIN
hrs	mm/hr		hrs	mm/hr		hrs	mm/hr		hrs	mm/hr
0.083	0.00		6.167	2.09		12.250	18.83		18.33	2.35
0.167	0.00		6.250	2.35		12.333	18.82		18.42	2.35
0.250	1.44		6.333	2.35		12.417	18.81		18.50	2.35
0.333	1.44		6.417	2.35		12.500	18.82		18.58	2.35
0.417	1.44		6.500	2.35		12.583	18.81		18.67	2.35
0.500	1.44		6.583	2.35		12.667	18.82		18.75	2.35
0.583	1.44		6.667	2.35		12.750	9.67		18.83	2.35
0.667	1.44		6.750	2.35		12.833	9.67		18.92	2.35
0.750	1.44		6.833	2.35		12.917	9.67		19.00	2.35
0.833	1.44		6.917	2.35		13.000	9.67		19.08	2.35
0.917	1.44		7.000	2.35		13.083	9.67		19.17	2.35
1.000	1.44		7.083	2.35		13.167	9.67		19.25	2.35
1.083	1.44		7.167	2.35		13.250	7.06		19.33	2.35
1.167	1.44		7.250	2.87		13.333	7.06		19.42	2.35
1.250	1.44		7.333	2.87		13.417	7.06		19.50	2.35
1.333	1.44		7.417	2.87		13.500	7.06		19.58	2.35
1.417	1.44		7.500	2.87		13.583	7.06		19.67	2.35
1.500	1.44		7.583	2.87		13.667	7.06		19.75	2.35
1.583	1.44		7.667	2.87		13.750	5.49		19.83	2.35
1.667	1.44		7.750	2.87		13.833	5.49		19.92	2.35
1.750	1.44		7.833	2.87		13.917	5.49		20.00	2.35

1.833	1.44	7.917	2.87	14.000	5.49	20.08	2.35
1.917	1.44	8.000	2.87	14.083	5.49	20.17	2.35
2.000	1.44	8.083	2.87	14.167	5.49	20.25	1.57
2.083	1.44	8.167	2.87	14.250	3.92	20.33	1.57
2.167	1.44	8.250	3.40	14.333	3.92	20.42	1.57
2.250	1.70	8.333	3.40	14.417	3.92	20.50	1.57
2.333	1.70	8.417	3.40	14.500	3.92	20.58	1.57
2.417	1.70	8.500	3.40	14.583	3.92	20.67	1.57
2.500	1.70	8.583	3.40	14.667	3.92	20.75	1.57
2.583	1.70	8.667	3.40	14.750	3.92	20.83	1.57
2.667	1.70	8.750	3.66	14.833	3.92	20.92	1.57
2.750	1.70	8.833	3.66	14.917	3.92	21.00	1.57
2.833	1.70	8.917	3.66	15.000	3.92	21.08	1.57
2.917	1.70	9.000	3.66	15.083	3.92	21.17	1.57
3.000	1.70	9.083	3.66	15.167	3.92	21.25	1.57
3.083	1.70	9.167	3.66	15.250	3.92	21.33	1.57
3.167	1.70	9.250	4.18	15.333	3.92	21.42	1.57
3.250	1.70	9.333	4.18	15.417	3.92	21.50	1.57
3.333	1.70	9.417	4.18	15.500	3.92	21.58	1.57
3.417	1.70	9.500	4.18	15.583	3.92	21.67	1.57
3.500	1.70	9.583	4.18	15.667	3.92	21.75	1.57
3.583	1.70	9.667	4.18	15.750	3.92	21.83	1.57
3.667	1.70	9.750	4.70	15.833	3.92	21.92	1.57
3.750	1.70	9.833	4.70	15.917	3.92	22.00	1.57
3.833	1.70	9.917	4.70	16.000	3.92	22.08	1.57
3.917	1.70	10.000	4.70	16.083	3.92	22.17	1.57
4.000	1.70	10.083	4.70	16.167	3.92	22.25	1.57
4.083	1.70	10.167	4.70	16.250	2.35	22.33	1.57
4.167	1.70	10.250	6.01	16.333	2.35	22.42	1.57
4.250	2.09	10.333	6.01	16.417	2.35	22.50	1.57
4.333	2.09	10.417	6.01	16.500	2.35	22.58	1.57
4.417	2.09	10.500	6.01	16.583	2.35	22.67	1.57
4.500	2.09	10.583	6.01	16.667	2.35	22.75	1.57
4.583	2.09	10.667	6.01	16.750	2.35	22.83	1.57
4.667	2.09	10.750	8.10	16.833	2.35	22.92	1.57
4.750	2.09	10.833	8.10	16.917	2.35	23.00	1.57
4.833	2.09	10.917	8.10	17.000	2.35	23.08	1.57
4.917	2.09	11.000	8.10	17.083	2.35	23.17	1.57
5.000	2.09	11.083	8.10	17.167	2.35	23.25	1.57
5.083	2.09	11.167	8.10	17.250	2.35	23.33	1.57
5.167	2.09	11.250	12.54	17.333	2.35	23.42	1.57
5.250	2.09	11.333	12.54	17.417	2.35	23.50	1.57
5.333	2.09	11.417	12.54	17.500	2.35	23.58	1.57
5.417	2.09	11.500	12.54	17.583	2.35	23.67	1.57
5.500	2.09	11.583	12.54	17.667	2.35	23.75	1.57
5.583	2.09	11.667	12.54	17.750	2.35	23.83	1.57
5.667	2.09	11.750	38.67	17.833	2.35	23.92	1.57
5.750	2.09	11.833	38.68	17.917	2.35	24.00	1.57
5.833	2.09	11.917	99.29	18.000	2.35	24.08	1.57
5.917	2.09	12.000	99.30	18.083	2.35	24.17	1.57
6.000	2.09	12.083	159.92	18.167	2.35		
6.083	2.09	12.167	159.93	18.250	2.35		

Unit Hyd Qpeak (cms)= 0.165

PEAK FLOW (cms)= 0.074 (i)

TIME TO PEAK (hrs)= 12.750

RUNOFF VOLUME (mm)= 25.806

TOTAL RAINFALL (mm)= 130.660

RUNOFF COEFFICIENT = 0.198

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0002) | Area (ha)= 1.25 Curve Number (CN)= 38.5
| ID= 1 DT= 5.0 min | Ia (mm)= 9.23 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.22

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.09	12.250	18.83	18.33	2.35
0.167	0.00	6.250	2.35	12.333	18.82	18.42	2.35
0.250	1.44	6.333	2.35	12.417	18.81	18.50	2.35
0.333	1.44	6.417	2.35	12.500	18.82	18.58	2.35
0.417	1.44	6.500	2.35	12.583	18.81	18.67	2.35
0.500	1.44	6.583	2.35	12.667	18.82	18.75	2.35
0.583	1.44	6.667	2.35	12.750	9.67	18.83	2.35
0.667	1.44	6.750	2.35	12.833	9.67	18.92	2.35
0.750	1.44	6.833	2.35	12.917	9.67	19.00	2.35
0.833	1.44	6.917	2.35	13.000	9.67	19.08	2.35
0.917	1.44	7.000	2.35	13.083	9.67	19.17	2.35
1.000	1.44	7.083	2.35	13.167	9.67	19.25	2.35
1.083	1.44	7.167	2.35	13.250	7.06	19.33	2.35
1.167	1.44	7.250	2.87	13.333	7.06	19.42	2.35
1.250	1.44	7.333	2.87	13.417	7.06	19.50	2.35
1.333	1.44	7.417	2.87	13.500	7.06	19.58	2.35
1.417	1.44	7.500	2.87	13.583	7.06	19.67	2.35
1.500	1.44	7.583	2.87	13.667	7.06	19.75	2.35
1.583	1.44	7.667	2.87	13.750	5.49	19.83	2.35
1.667	1.44	7.750	2.87	13.833	5.49	19.92	2.35
1.750	1.44	7.833	2.87	13.917	5.49	20.00	2.35
1.833	1.44	7.917	2.87	14.000	5.49	20.08	2.35
1.917	1.44	8.000	2.87	14.083	5.49	20.17	2.35
2.000	1.44	8.083	2.87	14.167	5.49	20.25	1.57
2.083	1.44	8.167	2.87	14.250	3.92	20.33	1.57
2.167	1.44	8.250	3.40	14.333	3.92	20.42	1.57
2.250	1.70	8.333	3.40	14.417	3.92	20.50	1.57
2.333	1.70	8.417	3.40	14.500	3.92	20.58	1.57
2.417	1.70	8.500	3.40	14.583	3.92	20.67	1.57
2.500	1.70	8.583	3.40	14.667	3.92	20.75	1.57
2.583	1.70	8.667	3.40	14.750	3.92	20.83	1.57
2.667	1.70	8.750	3.66	14.833	3.92	20.92	1.57
2.750	1.70	8.833	3.66	14.917	3.92	21.00	1.57
2.833	1.70	8.917	3.66	15.000	3.92	21.08	1.57
2.917	1.70	9.000	3.66	15.083	3.92	21.17	1.57
3.000	1.70	9.083	3.66	15.167	3.92	21.25	1.57
3.083	1.70	9.167	3.66	15.250	3.92	21.33	1.57
3.167	1.70	9.250	4.18	15.333	3.92	21.42	1.57
3.250	1.70	9.333	4.18	15.417	3.92	21.50	1.57
3.333	1.70	9.417	4.18	15.500	3.92	21.58	1.57
3.417	1.70	9.500	4.18	15.583	3.92	21.67	1.57
3.500	1.70	9.583	4.18	15.667	3.92	21.75	1.57
3.583	1.70	9.667	4.18	15.750	3.92	21.83	1.57
3.667	1.70	9.750	4.70	15.833	3.92	21.92	1.57
3.750	1.70	9.833	4.70	15.917	3.92	22.00	1.57
3.833	1.70	9.917	4.70	16.000	3.92	22.08	1.57
3.917	1.70	10.000	4.70	16.083	3.92	22.17	1.57
4.000	1.70	10.083	4.70	16.167	3.92	22.25	1.57
4.083	1.70	10.167	4.70	16.250	2.35	22.33	1.57
4.167	1.70	10.250	6.01	16.333	2.35	22.42	1.57
4.250	2.09	10.333	6.01	16.417	2.35	22.50	1.57
4.333	2.09	10.417	6.01	16.500	2.35	22.58	1.57
4.417	2.09	10.500	6.01	16.583	2.35	22.67	1.57
4.500	2.09	10.583	6.01	16.667	2.35	22.75	1.57
4.583	2.09	10.667	6.01	16.750	2.35	22.83	1.57
4.667	2.09	10.750	8.10	16.833	2.35	22.92	1.57
4.750	2.09	10.833	8.10	16.917	2.35	23.00	1.57
4.833	2.09	10.917	8.10	17.000	2.35	23.08	1.57
4.917	2.09	11.000	8.10	17.083	2.35	23.17	1.57
5.000	2.09	11.083	8.10	17.167	2.35	23.25	1.57
5.083	2.09	11.167	8.10	17.250	2.35	23.33	1.57
5.167	2.09	11.250	12.54	17.333	2.35	23.42	1.57
5.250	2.09	11.333	12.54	17.417	2.35	23.50	1.57
5.333	2.09	11.417	12.54	17.500	2.35	23.58	1.57
5.417	2.09	11.500	12.54	17.583	2.35	23.67	1.57
5.500	2.09	11.583	12.54	17.667	2.35	23.75	1.57
5.583	2.09	11.667	12.54	17.750	2.35	23.83	1.57
5.667	2.09	11.750	38.67	17.833	2.35	23.92	1.57
5.750	2.09	11.833	38.68	17.917	2.35	24.00	1.57
5.833	2.09	11.917	99.29	18.000	2.35	24.08	1.57

5.917 2.09 |12.000 99.30 |18.083 2.35 | 24.17 1.57
6.000 2.09 |12.083 159.92 |18.167 2.35 |
6.083 2.09 |12.167 159.93 |18.250 2.35 |

Unit Hyd Qpeak (cms)= 0.217

PEAK FLOW (cms)= 0.078 (i)
TIME TO PEAK (hrs)= 12.250
RUNOFF VOLUME (mm)= 27.933
TOTAL RAINFALL (mm)= 130.660
RUNOFF COEFFICIENT = 0.214

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0003) | Area (ha)= 2.55 Curve Number (CN)= 36.9
| ID= 1 DT= 5.0 min | Ia (mm)= 9.42 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.49

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----
TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN
hrs mm/hr | hrs mm/hr | hrs mm/hr | hrs mm/hr
0.083 0.00 | 6.167 2.09 | 12.250 18.83 | 18.33 2.35
0.167 0.00 | 6.250 2.35 | 12.333 18.82 | 18.42 2.35
0.250 1.44 | 6.333 2.35 | 12.417 18.81 | 18.50 2.35
0.333 1.44 | 6.417 2.35 | 12.500 18.82 | 18.58 2.35
0.417 1.44 | 6.500 2.35 | 12.583 18.81 | 18.67 2.35
0.500 1.44 | 6.583 2.35 | 12.667 18.82 | 18.75 2.35
0.583 1.44 | 6.667 2.35 | 12.750 9.67 | 18.83 2.35
0.667 1.44 | 6.750 2.35 | 12.833 9.67 | 18.92 2.35
0.750 1.44 | 6.833 2.35 | 12.917 9.67 | 19.00 2.35
0.833 1.44 | 6.917 2.35 | 13.000 9.67 | 19.08 2.35
0.917 1.44 | 7.000 2.35 | 13.083 9.67 | 19.17 2.35
1.000 1.44 | 7.083 2.35 | 13.167 9.67 | 19.25 2.35
1.083 1.44 | 7.167 2.35 | 13.250 7.06 | 19.33 2.35
1.167 1.44 | 7.250 2.87 | 13.333 7.06 | 19.42 2.35
1.250 1.44 | 7.333 2.87 | 13.417 7.06 | 19.50 2.35
1.333 1.44 | 7.417 2.87 | 13.500 7.06 | 19.58 2.35
1.417 1.44 | 7.500 2.87 | 13.583 7.06 | 19.67 2.35
1.500 1.44 | 7.583 2.87 | 13.667 7.06 | 19.75 2.35
1.583 1.44 | 7.667 2.87 | 13.750 5.49 | 19.83 2.35
1.667 1.44 | 7.750 2.87 | 13.833 5.49 | 19.92 2.35
1.750 1.44 | 7.833 2.87 | 13.917 5.49 | 20.00 2.35
1.833 1.44 | 7.917 2.87 | 14.000 5.49 | 20.08 2.35
1.917 1.44 | 8.000 2.87 | 14.083 5.49 | 20.17 2.35
2.000 1.44 | 8.083 2.87 | 14.167 5.49 | 20.25 1.57
2.083 1.44 | 8.167 2.87 | 14.250 3.92 | 20.33 1.57
2.167 1.44 | 8.250 3.40 | 14.333 3.92 | 20.42 1.57
2.250 1.70 | 8.333 3.40 | 14.417 3.92 | 20.50 1.57
2.333 1.70 | 8.417 3.40 | 14.500 3.92 | 20.58 1.57
2.417 1.70 | 8.500 3.40 | 14.583 3.92 | 20.67 1.57
2.500 1.70 | 8.583 3.40 | 14.667 3.92 | 20.75 1.57
2.583 1.70 | 8.667 3.40 | 14.750 3.92 | 20.83 1.57
2.667 1.70 | 8.750 3.66 | 14.833 3.92 | 20.92 1.57
2.750 1.70 | 8.833 3.66 | 14.917 3.92 | 21.00 1.57
2.833 1.70 | 8.917 3.66 | 15.000 3.92 | 21.08 1.57
2.917 1.70 | 9.000 3.66 | 15.083 3.92 | 21.17 1.57
3.000 1.70 | 9.083 3.66 | 15.167 3.92 | 21.25 1.57
3.083 1.70 | 9.167 3.66 | 15.250 3.92 | 21.33 1.57
3.167 1.70 | 9.250 4.18 | 15.333 3.92 | 21.42 1.57
3.250 1.70 | 9.333 4.18 | 15.417 3.92 | 21.50 1.57
3.333 1.70 | 9.417 4.18 | 15.500 3.92 | 21.58 1.57
3.417 1.70 | 9.500 4.18 | 15.583 3.92 | 21.67 1.57
3.500 1.70 | 9.583 4.18 | 15.667 3.92 | 21.75 1.57
3.583 1.70 | 9.667 4.18 | 15.750 3.92 | 21.83 1.57
3.667 1.70 | 9.750 4.70 | 15.833 3.92 | 21.92 1.57
3.750 1.70 | 9.833 4.70 | 15.917 3.92 | 22.00 1.57
3.833 1.70 | 9.917 4.70 | 16.000 3.92 | 22.08 1.57

3.917	1.70	10.000	4.70	16.083	3.92	22.17	1.57
4.000	1.70	10.083	4.70	16.167	3.92	22.25	1.57
4.083	1.70	10.167	4.70	16.250	2.35	22.33	1.57
4.167	1.70	10.250	6.01	16.333	2.35	22.42	1.57
4.250	2.09	10.333	6.01	16.417	2.35	22.50	1.57
4.333	2.09	10.417	6.01	16.500	2.35	22.58	1.57
4.417	2.09	10.500	6.01	16.583	2.35	22.67	1.57
4.500	2.09	10.583	6.01	16.667	2.35	22.75	1.57
4.583	2.09	10.667	6.01	16.750	2.35	22.83	1.57
4.667	2.09	10.750	8.10	16.833	2.35	22.92	1.57
4.750	2.09	10.833	8.10	16.917	2.35	23.00	1.57
4.833	2.09	10.917	8.10	17.000	2.35	23.08	1.57
4.917	2.09	11.000	8.10	17.083	2.35	23.17	1.57
5.000	2.09	11.083	8.10	17.167	2.35	23.25	1.57
5.083	2.09	11.167	8.10	17.250	2.35	23.33	1.57
5.167	2.09	11.250	12.54	17.333	2.35	23.42	1.57
5.250	2.09	11.333	12.54	17.417	2.35	23.50	1.57
5.333	2.09	11.417	12.54	17.500	2.35	23.58	1.57
5.417	2.09	11.500	12.54	17.583	2.35	23.67	1.57
5.500	2.09	11.583	12.54	17.667	2.35	23.75	1.57
5.583	2.09	11.667	12.54	17.750	2.35	23.83	1.57
5.667	2.09	11.750	38.67	17.833	2.35	23.92	1.57
5.750	2.09	11.833	38.68	17.917	2.35	24.00	1.57
5.833	2.09	11.917	99.29	18.000	2.35	24.08	1.57
5.917	2.09	12.000	99.30	18.083	2.35	24.17	1.57
6.000	2.09	12.083	159.92	18.167	2.35		
6.083	2.09	12.167	159.93	18.250	2.35		

Unit Hyd Qpeak (cms)= 0.199

PEAK FLOW (cms)= 0.085 (i)
TIME TO PEAK (hrs)= 12.583
RUNOFF VOLUME (mm)= 26.455
TOTAL RAINFALL (mm)= 130.660
RUNOFF COEFFICIENT = 0.202

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0004) | Area (ha)= 0.66 Curve Number (CN)= 62.0
| ID= 1 DT= 5.0 min | Ia (mm)= 7.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.19

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.09	12.250	18.83	18.33	2.35
0.167	0.00	6.250	2.35	12.333	18.82	18.42	2.35
0.250	1.44	6.333	2.35	12.417	18.81	18.50	2.35
0.333	1.44	6.417	2.35	12.500	18.82	18.58	2.35
0.417	1.44	6.500	2.35	12.583	18.81	18.67	2.35
0.500	1.44	6.583	2.35	12.667	18.82	18.75	2.35
0.583	1.44	6.667	2.35	12.750	9.67	18.83	2.35
0.667	1.44	6.750	2.35	12.833	9.67	18.92	2.35
0.750	1.44	6.833	2.35	12.917	9.67	19.00	2.35
0.833	1.44	6.917	2.35	13.000	9.67	19.08	2.35
0.917	1.44	7.000	2.35	13.083	9.67	19.17	2.35
1.000	1.44	7.083	2.35	13.167	9.67	19.25	2.35
1.083	1.44	7.167	2.35	13.250	7.06	19.33	2.35
1.167	1.44	7.250	2.87	13.333	7.06	19.42	2.35
1.250	1.44	7.333	2.87	13.417	7.06	19.50	2.35
1.333	1.44	7.417	2.87	13.500	7.06	19.58	2.35
1.417	1.44	7.500	2.87	13.583	7.06	19.67	2.35
1.500	1.44	7.583	2.87	13.667	7.06	19.75	2.35
1.583	1.44	7.667	2.87	13.750	5.49	19.83	2.35
1.667	1.44	7.750	2.87	13.833	5.49	19.92	2.35
1.750	1.44	7.833	2.87	13.917	5.49	20.00	2.35
1.833	1.44	7.917	2.87	14.000	5.49	20.08	2.35

1.917	1.44	8.000	2.87	14.083	5.49	20.17	2.35
2.000	1.44	8.083	2.87	14.167	5.49	20.25	1.57
2.083	1.44	8.167	2.87	14.250	3.92	20.33	1.57
2.167	1.44	8.250	3.40	14.333	3.92	20.42	1.57
2.250	1.70	8.333	3.40	14.417	3.92	20.50	1.57
2.333	1.70	8.417	3.40	14.500	3.92	20.58	1.57
2.417	1.70	8.500	3.40	14.583	3.92	20.67	1.57
2.500	1.70	8.583	3.40	14.667	3.92	20.75	1.57
2.583	1.70	8.667	3.40	14.750	3.92	20.83	1.57
2.667	1.70	8.750	3.66	14.833	3.92	20.92	1.57
2.750	1.70	8.833	3.66	14.917	3.92	21.00	1.57
2.833	1.70	8.917	3.66	15.000	3.92	21.08	1.57
2.917	1.70	9.000	3.66	15.083	3.92	21.17	1.57
3.000	1.70	9.083	3.66	15.167	3.92	21.25	1.57
3.083	1.70	9.167	3.66	15.250	3.92	21.33	1.57
3.167	1.70	9.250	4.18	15.333	3.92	21.42	1.57
3.250	1.70	9.333	4.18	15.417	3.92	21.50	1.57
3.333	1.70	9.417	4.18	15.500	3.92	21.58	1.57
3.417	1.70	9.500	4.18	15.583	3.92	21.67	1.57
3.500	1.70	9.583	4.18	15.667	3.92	21.75	1.57
3.583	1.70	9.667	4.18	15.750	3.92	21.83	1.57
3.667	1.70	9.750	4.70	15.833	3.92	21.92	1.57
3.750	1.70	9.833	4.70	15.917	3.92	22.00	1.57
3.833	1.70	9.917	4.70	16.000	3.92	22.08	1.57
3.917	1.70	10.000	4.70	16.083	3.92	22.17	1.57
4.000	1.70	10.083	4.70	16.167	3.92	22.25	1.57
4.083	1.70	10.167	4.70	16.250	2.35	22.33	1.57
4.167	1.70	10.250	6.01	16.333	2.35	22.42	1.57
4.250	2.09	10.333	6.01	16.417	2.35	22.50	1.57
4.333	2.09	10.417	6.01	16.500	2.35	22.58	1.57
4.417	2.09	10.500	6.01	16.583	2.35	22.67	1.57
4.500	2.09	10.583	6.01	16.667	2.35	22.75	1.57
4.583	2.09	10.667	6.01	16.750	2.35	22.83	1.57
4.667	2.09	10.750	8.10	16.833	2.35	22.92	1.57
4.750	2.09	10.833	8.10	16.917	2.35	23.00	1.57
4.833	2.09	10.917	8.10	17.000	2.35	23.08	1.57
4.917	2.09	11.000	8.10	17.083	2.35	23.17	1.57
5.000	2.09	11.083	8.10	17.167	2.35	23.25	1.57
5.083	2.09	11.167	8.10	17.250	2.35	23.33	1.57
5.167	2.09	11.250	12.54	17.333	2.35	23.42	1.57
5.250	2.09	11.333	12.54	17.417	2.35	23.50	1.57
5.333	2.09	11.417	12.54	17.500	2.35	23.58	1.57
5.417	2.09	11.500	12.54	17.583	2.35	23.67	1.57
5.500	2.09	11.583	12.54	17.667	2.35	23.75	1.57
5.583	2.09	11.667	12.54	17.750	2.35	23.83	1.57
5.667	2.09	11.750	38.67	17.833	2.35	23.92	1.57
5.750	2.09	11.833	38.68	17.917	2.35	24.00	1.57
5.833	2.09	11.917	99.29	18.000	2.35	24.08	1.57
5.917	2.09	12.000	99.30	18.083	2.35	24.17	1.57
6.000	2.09	12.083	159.92	18.167	2.35		
6.083	2.09	12.167	159.93	18.250	2.35		

Unit Hyd Qpeak (cms)= 0.133

PEAK FLOW (cms)= 0.092 (i)

TIME TO PEAK (hrs)= 12.250

RUNOFF VOLUME (mm)= 54.616

TOTAL RAINFALL (mm)= 130.660

RUNOFF COEFFICIENT = 0.418

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| ADD HYD (0016)|

| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.

----- (ha) (cms) (hrs) (mm)

ID1= 1 (0003): 2.55 0.085 12.58 26.46

+ ID2= 2 (0004): 0.66 0.092 12.25 54.62

=====

ID = 3 (0016): 3.21 0.151 12.25 32.25

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| CALIB |
| NASHYD (0005) | Area (ha)= 9.65 Curve Number (CN)= 32.0
| ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.71

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00 6.167	2.09 12.250	18.83 18.33	2.35			
0.167	0.00 6.250	2.35 12.333	18.82 18.42	2.35			
0.250	1.44 6.333	2.35 12.417	18.81 18.50	2.35			
0.333	1.44 6.417	2.35 12.500	18.82 18.58	2.35			
0.417	1.44 6.500	2.35 12.583	18.81 18.67	2.35			
0.500	1.44 6.583	2.35 12.667	18.82 18.75	2.35			
0.583	1.44 6.667	2.35 12.750	9.67 18.83	2.35			
0.667	1.44 6.750	2.35 12.833	9.67 18.92	2.35			
0.750	1.44 6.833	2.35 12.917	9.67 19.00	2.35			
0.833	1.44 6.917	2.35 13.000	9.67 19.08	2.35			
0.917	1.44 7.000	2.35 13.083	9.67 19.17	2.35			
1.000	1.44 7.083	2.35 13.167	9.67 19.25	2.35			
1.083	1.44 7.167	2.35 13.250	7.06 19.33	2.35			
1.167	1.44 7.250	2.87 13.333	7.06 19.42	2.35			
1.250	1.44 7.333	2.87 13.417	7.06 19.50	2.35			
1.333	1.44 7.417	2.87 13.500	7.06 19.58	2.35			
1.417	1.44 7.500	2.87 13.583	7.06 19.67	2.35			
1.500	1.44 7.583	2.87 13.667	7.06 19.75	2.35			
1.583	1.44 7.667	2.87 13.750	5.49 19.83	2.35			
1.667	1.44 7.750	2.87 13.833	5.49 19.92	2.35			
1.750	1.44 7.833	2.87 13.917	5.49 20.00	2.35			
1.833	1.44 7.917	2.87 14.000	5.49 20.08	2.35			
1.917	1.44 8.000	2.87 14.083	5.49 20.17	2.35			
2.000	1.44 8.083	2.87 14.167	5.49 20.25	1.57			
2.083	1.44 8.167	2.87 14.250	3.92 20.33	1.57			
2.167	1.44 8.250	3.40 14.333	3.92 20.42	1.57			
2.250	1.70 8.333	3.40 14.417	3.92 20.50	1.57			
2.333	1.70 8.417	3.40 14.500	3.92 20.58	1.57			
2.417	1.70 8.500	3.40 14.583	3.92 20.67	1.57			
2.500	1.70 8.583	3.40 14.667	3.92 20.75	1.57			
2.583	1.70 8.667	3.40 14.750	3.92 20.83	1.57			
2.667	1.70 8.750	3.66 14.833	3.92 20.92	1.57			
2.750	1.70 8.833	3.66 14.917	3.92 21.00	1.57			
2.833	1.70 8.917	3.66 15.000	3.92 21.08	1.57			
2.917	1.70 9.000	3.66 15.083	3.92 21.17	1.57			
3.000	1.70 9.083	3.66 15.167	3.92 21.25	1.57			
3.083	1.70 9.167	3.66 15.250	3.92 21.33	1.57			
3.167	1.70 9.250	4.18 15.333	3.92 21.42	1.57			
3.250	1.70 9.333	4.18 15.417	3.92 21.50	1.57			
3.333	1.70 9.417	4.18 15.500	3.92 21.58	1.57			
3.417	1.70 9.500	4.18 15.583	3.92 21.67	1.57			
3.500	1.70 9.583	4.18 15.667	3.92 21.75	1.57			
3.583	1.70 9.667	4.18 15.750	3.92 21.83	1.57			
3.667	1.70 9.750	4.70 15.833	3.92 21.92	1.57			
3.750	1.70 9.833	4.70 15.917	3.92 22.00	1.57			
3.833	1.70 9.917	4.70 16.000	3.92 22.08	1.57			
3.917	1.70 10.000	4.70 16.083	3.92 22.17	1.57			
4.000	1.70 10.083	4.70 16.167	3.92 22.25	1.57			
4.083	1.70 10.167	4.70 16.250	2.35 22.33	1.57			
4.167	1.70 10.250	6.01 16.333	2.35 22.42	1.57			
4.250	2.09 10.333	6.01 16.417	2.35 22.50	1.57			
4.333	2.09 10.417	6.01 16.500	2.35 22.58	1.57			
4.417	2.09 10.500	6.01 16.583	2.35 22.67	1.57			
4.500	2.09 10.583	6.01 16.667	2.35 22.75	1.57			
4.583	2.09 10.667	6.01 16.750	2.35 22.83	1.57			
4.667	2.09 10.750	8.10 16.833	2.35 22.92	1.57			
4.750	2.09 10.833	8.10 16.917	2.35 23.00	1.57			
4.833	2.09 10.917	8.10 17.000	2.35 23.08	1.57			
4.917	2.09 11.000	8.10 17.083	2.35 23.17	1.57			

5.000	2.09	11.083	8.10	17.167	2.35	23.25	1.57
5.083	2.09	11.167	8.10	17.250	2.35	23.33	1.57
5.167	2.09	11.250	12.54	17.333	2.35	23.42	1.57
5.250	2.09	11.333	12.54	17.417	2.35	23.50	1.57
5.333	2.09	11.417	12.54	17.500	2.35	23.58	1.57
5.417	2.09	11.500	12.54	17.583	2.35	23.67	1.57
5.500	2.09	11.583	12.54	17.667	2.35	23.75	1.57
5.583	2.09	11.667	12.54	17.750	2.35	23.83	1.57
5.667	2.09	11.750	38.67	17.833	2.35	23.92	1.57
5.750	2.09	11.833	38.68	17.917	2.35	24.00	1.57
5.833	2.09	11.917	99.29	18.000	2.35	24.08	1.57
5.917	2.09	12.000	99.30	18.083	2.35	24.17	1.57
6.000	2.09	12.083	159.92	18.167	2.35		
6.083	2.09	12.167	159.93	18.250	2.35		

Unit Hyd Qpeak (cms)= 0.519

PEAK FLOW (cms)= 0.205 (i)

TIME TO PEAK (hrs)= 12.833

RUNOFF VOLUME (mm)= 22.045

TOTAL RAINFALL (mm)= 130.660

RUNOFF COEFFICIENT = 0.169

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0006) | Area (ha)= 1.82 Curve Number (CN)= 32.0
 | ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.30

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.09	12.250	18.83	18.33	2.35
0.167	0.00	6.250	2.35	12.333	18.82	18.42	2.35
0.250	1.44	6.333	2.35	12.417	18.81	18.50	2.35
0.333	1.44	6.417	2.35	12.500	18.82	18.58	2.35
0.417	1.44	6.500	2.35	12.583	18.81	18.67	2.35
0.500	1.44	6.583	2.35	12.667	18.82	18.75	2.35
0.583	1.44	6.667	2.35	12.750	9.67	18.83	2.35
0.667	1.44	6.750	2.35	12.833	9.67	18.92	2.35
0.750	1.44	6.833	2.35	12.917	9.67	19.00	2.35
0.833	1.44	6.917	2.35	13.000	9.67	19.08	2.35
0.917	1.44	7.000	2.35	13.083	9.67	19.17	2.35
1.000	1.44	7.083	2.35	13.167	9.67	19.25	2.35
1.083	1.44	7.167	2.35	13.250	7.06	19.33	2.35
1.167	1.44	7.250	2.87	13.333	7.06	19.42	2.35
1.250	1.44	7.333	2.87	13.417	7.06	19.50	2.35
1.333	1.44	7.417	2.87	13.500	7.06	19.58	2.35
1.417	1.44	7.500	2.87	13.583	7.06	19.67	2.35
1.500	1.44	7.583	2.87	13.667	7.06	19.75	2.35
1.583	1.44	7.667	2.87	13.750	5.49	19.83	2.35
1.667	1.44	7.750	2.87	13.833	5.49	19.92	2.35
1.750	1.44	7.833	2.87	13.917	5.49	20.00	2.35
1.833	1.44	7.917	2.87	14.000	5.49	20.08	2.35
1.917	1.44	8.000	2.87	14.083	5.49	20.17	2.35
2.000	1.44	8.083	2.87	14.167	5.49	20.25	1.57
2.083	1.44	8.167	2.87	14.250	3.92	20.33	1.57
2.167	1.44	8.250	3.40	14.333	3.92	20.42	1.57
2.250	1.70	8.333	3.40	14.417	3.92	20.50	1.57
2.333	1.70	8.417	3.40	14.500	3.92	20.58	1.57
2.417	1.70	8.500	3.40	14.583	3.92	20.67	1.57
2.500	1.70	8.583	3.40	14.667	3.92	20.75	1.57
2.583	1.70	8.667	3.40	14.750	3.92	20.83	1.57
2.667	1.70	8.750	3.66	14.833	3.92	20.92	1.57
2.750	1.70	8.833	3.66	14.917	3.92	21.00	1.57
2.833	1.70	8.917	3.66	15.000	3.92	21.08	1.57
2.917	1.70	9.000	3.66	15.083	3.92	21.17	1.57

3.000	1.70	9.083	3.66	15.167	3.92	21.25	1.57
3.083	1.70	9.167	3.66	15.250	3.92	21.33	1.57
3.167	1.70	9.250	4.18	15.333	3.92	21.42	1.57
3.250	1.70	9.333	4.18	15.417	3.92	21.50	1.57
3.333	1.70	9.417	4.18	15.500	3.92	21.58	1.57
3.417	1.70	9.500	4.18	15.583	3.92	21.67	1.57
3.500	1.70	9.583	4.18	15.667	3.92	21.75	1.57
3.583	1.70	9.667	4.18	15.750	3.92	21.83	1.57
3.667	1.70	9.750	4.70	15.833	3.92	21.92	1.57
3.750	1.70	9.833	4.70	15.917	3.92	22.00	1.57
3.833	1.70	9.917	4.70	16.000	3.92	22.08	1.57
3.917	1.70	10.000	4.70	16.083	3.92	22.17	1.57
4.000	1.70	10.083	4.70	16.167	3.92	22.25	1.57
4.083	1.70	10.167	4.70	16.250	2.35	22.33	1.57
4.167	1.70	10.250	6.01	16.333	2.35	22.42	1.57
4.250	2.09	10.333	6.01	16.417	2.35	22.50	1.57
4.333	2.09	10.417	6.01	16.500	2.35	22.58	1.57
4.417	2.09	10.500	6.01	16.583	2.35	22.67	1.57
4.500	2.09	10.583	6.01	16.667	2.35	22.75	1.57
4.583	2.09	10.667	6.01	16.750	2.35	22.83	1.57
4.667	2.09	10.750	8.10	16.833	2.35	22.92	1.57
4.750	2.09	10.833	8.10	16.917	2.35	23.00	1.57
4.833	2.09	10.917	8.10	17.000	2.35	23.08	1.57
4.917	2.09	11.000	8.10	17.083	2.35	23.17	1.57
5.000	2.09	11.083	8.10	17.167	2.35	23.25	1.57
5.083	2.09	11.167	8.10	17.250	2.35	23.33	1.57
5.167	2.09	11.250	12.54	17.333	2.35	23.42	1.57
5.250	2.09	11.333	12.54	17.417	2.35	23.50	1.57
5.333	2.09	11.417	12.54	17.500	2.35	23.58	1.57
5.417	2.09	11.500	12.54	17.583	2.35	23.67	1.57
5.500	2.09	11.583	12.54	17.667	2.35	23.75	1.57
5.583	2.09	11.667	12.54	17.750	2.35	23.83	1.57
5.667	2.09	11.750	38.67	17.833	2.35	23.92	1.57
5.750	2.09	11.833	38.68	17.917	2.35	24.00	1.57
5.833	2.09	11.917	99.29	18.000	2.35	24.08	1.57
5.917	2.09	12.000	99.30	18.083	2.35	24.17	1.57
6.000	2.09	12.083	159.92	18.167	2.35		
6.083	2.09	12.167	159.93	18.250	2.35		

Unit Hyd Qpeak (cms)= 0.232

PEAK FLOW (cms)= 0.072 (i)
TIME TO PEAK (hrs)= 12.333
RUNOFF VOLUME (mm)= 22.036
TOTAL RAINFALL (mm)= 130.660
RUNOFF COEFFICIENT = 0.169

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0007) | Area (ha)= 1.70 Curve Number (CN)= 62.0
| ID= 1 DT= 5.0 min | Ia (mm)= 7.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.43

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.09	12.250	18.83	18.33	2.35
0.167	0.00	6.250	2.35	12.333	18.82	18.42	2.35
0.250	1.44	6.333	2.35	12.417	18.81	18.50	2.35
0.333	1.44	6.417	2.35	12.500	18.82	18.58	2.35
0.417	1.44	6.500	2.35	12.583	18.81	18.67	2.35
0.500	1.44	6.583	2.35	12.667	18.82	18.75	2.35
0.583	1.44	6.667	2.35	12.750	9.67	18.83	2.35
0.667	1.44	6.750	2.35	12.833	9.67	18.92	2.35
0.750	1.44	6.833	2.35	12.917	9.67	19.00	2.35
0.833	1.44	6.917	2.35	13.000	9.67	19.08	2.35
0.917	1.44	7.000	2.35	13.083	9.67	19.17	2.35

1.000	1.44	7.083	2.35	13.167	9.67	19.25	2.35
1.083	1.44	7.167	2.35	13.250	7.06	19.33	2.35
1.167	1.44	7.250	2.87	13.333	7.06	19.42	2.35
1.250	1.44	7.333	2.87	13.417	7.06	19.50	2.35
1.333	1.44	7.417	2.87	13.500	7.06	19.58	2.35
1.417	1.44	7.500	2.87	13.583	7.06	19.67	2.35
1.500	1.44	7.583	2.87	13.667	7.06	19.75	2.35
1.583	1.44	7.667	2.87	13.750	5.49	19.83	2.35
1.667	1.44	7.750	2.87	13.833	5.49	19.92	2.35
1.750	1.44	7.833	2.87	13.917	5.49	20.00	2.35
1.833	1.44	7.917	2.87	14.000	5.49	20.08	2.35
1.917	1.44	8.000	2.87	14.083	5.49	20.17	2.35
2.000	1.44	8.083	2.87	14.167	5.49	20.25	1.57
2.083	1.44	8.167	2.87	14.250	3.92	20.33	1.57
2.167	1.44	8.250	3.40	14.333	3.92	20.42	1.57
2.250	1.70	8.333	3.40	14.417	3.92	20.50	1.57
2.333	1.70	8.417	3.40	14.500	3.92	20.58	1.57
2.417	1.70	8.500	3.40	14.583	3.92	20.67	1.57
2.500	1.70	8.583	3.40	14.667	3.92	20.75	1.57
2.583	1.70	8.667	3.40	14.750	3.92	20.83	1.57
2.667	1.70	8.750	3.66	14.833	3.92	20.92	1.57
2.750	1.70	8.833	3.66	14.917	3.92	21.00	1.57
2.833	1.70	8.917	3.66	15.000	3.92	21.08	1.57
2.917	1.70	9.000	3.66	15.083	3.92	21.17	1.57
3.000	1.70	9.083	3.66	15.167	3.92	21.25	1.57
3.083	1.70	9.167	3.66	15.250	3.92	21.33	1.57
3.167	1.70	9.250	4.18	15.333	3.92	21.42	1.57
3.250	1.70	9.333	4.18	15.417	3.92	21.50	1.57
3.333	1.70	9.417	4.18	15.500	3.92	21.58	1.57
3.417	1.70	9.500	4.18	15.583	3.92	21.67	1.57
3.500	1.70	9.583	4.18	15.667	3.92	21.75	1.57
3.583	1.70	9.667	4.18	15.750	3.92	21.83	1.57
3.667	1.70	9.750	4.70	15.833	3.92	21.92	1.57
3.750	1.70	9.833	4.70	15.917	3.92	22.00	1.57
3.833	1.70	9.917	4.70	16.000	3.92	22.08	1.57
3.917	1.70	10.000	4.70	16.083	3.92	22.17	1.57
4.000	1.70	10.083	4.70	16.167	3.92	22.25	1.57
4.083	1.70	10.167	4.70	16.250	2.35	22.33	1.57
4.167	1.70	10.250	6.01	16.333	2.35	22.42	1.57
4.250	2.09	10.333	6.01	16.417	2.35	22.50	1.57
4.333	2.09	10.417	6.01	16.500	2.35	22.58	1.57
4.417	2.09	10.500	6.01	16.583	2.35	22.67	1.57
4.500	2.09	10.583	6.01	16.667	2.35	22.75	1.57
4.583	2.09	10.667	6.01	16.750	2.35	22.83	1.57
4.667	2.09	10.750	8.10	16.833	2.35	22.92	1.57
4.750	2.09	10.833	8.10	16.917	2.35	23.00	1.57
4.833	2.09	10.917	8.10	17.000	2.35	23.08	1.57
4.917	2.09	11.000	8.10	17.083	2.35	23.17	1.57
5.000	2.09	11.083	8.10	17.167	2.35	23.25	1.57
5.083	2.09	11.167	8.10	17.250	2.35	23.33	1.57
5.167	2.09	11.250	12.54	17.333	2.35	23.42	1.57
5.250	2.09	11.333	12.54	17.417	2.35	23.50	1.57
5.333	2.09	11.417	12.54	17.500	2.35	23.58	1.57
5.417	2.09	11.500	12.54	17.583	2.35	23.67	1.57
5.500	2.09	11.583	12.54	17.667	2.35	23.75	1.57
5.583	2.09	11.667	12.54	17.750	2.35	23.83	1.57
5.667	2.09	11.750	38.67	17.833	2.35	23.92	1.57
5.750	2.09	11.833	38.68	17.917	2.35	24.00	1.57
5.833	2.09	11.917	99.29	18.000	2.35	24.08	1.57
5.917	2.09	12.000	99.30	18.083	2.35	24.17	1.57
6.000	2.09	12.083	159.92	18.167	2.35		
6.083	2.09	12.167	159.93	18.250	2.35		

Unit Hyd Qpeak (cms)= 0.151

PEAK FLOW (cms)= 0.137 (i)

TIME TO PEAK (hrs)= 12.500

RUNOFF VOLUME (mm)= 54.738

TOTAL RAINFALL (mm)= 130.660

RUNOFF COEFFICIENT = 0.419

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0008) | Area (ha)= 0.23 Curve Number (CN)= 32.0
 | ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.33

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.09	12.250	18.83	18.33	2.35
0.167	0.00	6.250	2.35	12.333	18.82	18.42	2.35
0.250	1.44	6.333	2.35	12.417	18.81	18.50	2.35
0.333	1.44	6.417	2.35	12.500	18.82	18.58	2.35
0.417	1.44	6.500	2.35	12.583	18.81	18.67	2.35
0.500	1.44	6.583	2.35	12.667	18.82	18.75	2.35
0.583	1.44	6.667	2.35	12.750	9.67	18.83	2.35
0.667	1.44	6.750	2.35	12.833	9.67	18.92	2.35
0.750	1.44	6.833	2.35	12.917	9.67	19.00	2.35
0.833	1.44	6.917	2.35	13.000	9.67	19.08	2.35
0.917	1.44	7.000	2.35	13.083	9.67	19.17	2.35
1.000	1.44	7.083	2.35	13.167	9.67	19.25	2.35
1.083	1.44	7.167	2.35	13.250	7.06	19.33	2.35
1.167	1.44	7.250	2.87	13.333	7.06	19.42	2.35
1.250	1.44	7.333	2.87	13.417	7.06	19.50	2.35
1.333	1.44	7.417	2.87	13.500	7.06	19.58	2.35
1.417	1.44	7.500	2.87	13.583	7.06	19.67	2.35
1.500	1.44	7.583	2.87	13.667	7.06	19.75	2.35
1.583	1.44	7.667	2.87	13.750	5.49	19.83	2.35
1.667	1.44	7.750	2.87	13.833	5.49	19.92	2.35
1.750	1.44	7.833	2.87	13.917	5.49	20.00	2.35
1.833	1.44	7.917	2.87	14.000	5.49	20.08	2.35
1.917	1.44	8.000	2.87	14.083	5.49	20.17	2.35
2.000	1.44	8.083	2.87	14.167	5.49	20.25	1.57
2.083	1.44	8.167	2.87	14.250	3.92	20.33	1.57
2.167	1.44	8.250	3.40	14.333	3.92	20.42	1.57
2.250	1.70	8.333	3.40	14.417	3.92	20.50	1.57
2.333	1.70	8.417	3.40	14.500	3.92	20.58	1.57
2.417	1.70	8.500	3.40	14.583	3.92	20.67	1.57
2.500	1.70	8.583	3.40	14.667	3.92	20.75	1.57
2.583	1.70	8.667	3.40	14.750	3.92	20.83	1.57
2.667	1.70	8.750	3.66	14.833	3.92	20.92	1.57
2.750	1.70	8.833	3.66	14.917	3.92	21.00	1.57
2.833	1.70	8.917	3.66	15.000	3.92	21.08	1.57
2.917	1.70	9.000	3.66	15.083	3.92	21.17	1.57
3.000	1.70	9.083	3.66	15.167	3.92	21.25	1.57
3.083	1.70	9.167	3.66	15.250	3.92	21.33	1.57
3.167	1.70	9.250	4.18	15.333	3.92	21.42	1.57
3.250	1.70	9.333	4.18	15.417	3.92	21.50	1.57
3.333	1.70	9.417	4.18	15.500	3.92	21.58	1.57
3.417	1.70	9.500	4.18	15.583	3.92	21.67	1.57
3.500	1.70	9.583	4.18	15.667	3.92	21.75	1.57
3.583	1.70	9.667	4.18	15.750	3.92	21.83	1.57
3.667	1.70	9.750	4.70	15.833	3.92	21.92	1.57
3.750	1.70	9.833	4.70	15.917	3.92	22.00	1.57
3.833	1.70	9.917	4.70	16.000	3.92	22.08	1.57
3.917	1.70	10.000	4.70	16.083	3.92	22.17	1.57
4.000	1.70	10.083	4.70	16.167	3.92	22.25	1.57
4.083	1.70	10.167	4.70	16.250	2.35	22.33	1.57
4.167	1.70	10.250	6.01	16.333	2.35	22.42	1.57
4.250	2.09	10.333	6.01	16.417	2.35	22.50	1.57
4.333	2.09	10.417	6.01	16.500	2.35	22.58	1.57
4.417	2.09	10.500	6.01	16.583	2.35	22.67	1.57
4.500	2.09	10.583	6.01	16.667	2.35	22.75	1.57
4.583	2.09	10.667	6.01	16.750	2.35	22.83	1.57
4.667	2.09	10.750	8.10	16.833	2.35	22.92	1.57
4.750	2.09	10.833	8.10	16.917	2.35	23.00	1.57
4.833	2.09	10.917	8.10	17.000	2.35	23.08	1.57
4.917	2.09	11.000	8.10	17.083	2.35	23.17	1.57
5.000	2.09	11.083	8.10	17.167	2.35	23.25	1.57

5.083	2.09	11.167	8.10	17.250	2.35	23.33	1.57
5.167	2.09	11.250	12.54	17.333	2.35	23.42	1.57
5.250	2.09	11.333	12.54	17.417	2.35	23.50	1.57
5.333	2.09	11.417	12.54	17.500	2.35	23.58	1.57
5.417	2.09	11.500	12.54	17.583	2.35	23.67	1.57
5.500	2.09	11.583	12.54	17.667	2.35	23.75	1.57
5.583	2.09	11.667	12.54	17.750	2.35	23.83	1.57
5.667	2.09	11.750	38.67	17.833	2.35	23.92	1.57
5.750	2.09	11.833	38.68	17.917	2.35	24.00	1.57
5.833	2.09	11.917	99.29	18.000	2.35	24.08	1.57
5.917	2.09	12.000	99.30	18.083	2.35	24.17	1.57
6.000	2.09	12.083	159.92	18.167	2.35		
6.083	2.09	12.167	159.93	18.250	2.35		

Unit Hyd Qpeak (cms)= 0.027

PEAK FLOW (cms)= 0.008 (i)
 TIME TO PEAK (hrs)= 12.333
 RUNOFF VOLUME (mm)= 22.036
 TOTAL RAINFALL (mm)= 130.660
 RUNOFF COEFFICIENT = 0.169

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0009) | Area (ha)= 1.11 Curve Number (CN)= 62.0
 | ID= 1 DT= 5.0 min | la (mm)= 7.00 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.34

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.09	12.250	18.83	18.33	2.35
0.167	0.00	6.250	2.35	12.333	18.82	18.42	2.35
0.250	1.44	6.333	2.35	12.417	18.81	18.50	2.35
0.333	1.44	6.417	2.35	12.500	18.82	18.58	2.35
0.417	1.44	6.500	2.35	12.583	18.81	18.67	2.35
0.500	1.44	6.583	2.35	12.667	18.82	18.75	2.35
0.583	1.44	6.667	2.35	12.750	9.67	18.83	2.35
0.667	1.44	6.750	2.35	12.833	9.67	18.92	2.35
0.750	1.44	6.833	2.35	12.917	9.67	19.00	2.35
0.833	1.44	6.917	2.35	13.000	9.67	19.08	2.35
0.917	1.44	7.000	2.35	13.083	9.67	19.17	2.35
1.000	1.44	7.083	2.35	13.167	9.67	19.25	2.35
1.083	1.44	7.167	2.35	13.250	7.06	19.33	2.35
1.167	1.44	7.250	2.87	13.333	7.06	19.42	2.35
1.250	1.44	7.333	2.87	13.417	7.06	19.50	2.35
1.333	1.44	7.417	2.87	13.500	7.06	19.58	2.35
1.417	1.44	7.500	2.87	13.583	7.06	19.67	2.35
1.500	1.44	7.583	2.87	13.667	7.06	19.75	2.35
1.583	1.44	7.667	2.87	13.750	5.49	19.83	2.35
1.667	1.44	7.750	2.87	13.833	5.49	19.92	2.35
1.750	1.44	7.833	2.87	13.917	5.49	20.00	2.35
1.833	1.44	7.917	2.87	14.000	5.49	20.08	2.35
1.917	1.44	8.000	2.87	14.083	5.49	20.17	2.35
2.000	1.44	8.083	2.87	14.167	5.49	20.25	1.57
2.083	1.44	8.167	2.87	14.250	3.92	20.33	1.57
2.167	1.44	8.250	3.40	14.333	3.92	20.42	1.57
2.250	1.70	8.333	3.40	14.417	3.92	20.50	1.57
2.333	1.70	8.417	3.40	14.500	3.92	20.58	1.57
2.417	1.70	8.500	3.40	14.583	3.92	20.67	1.57
2.500	1.70	8.583	3.40	14.667	3.92	20.75	1.57
2.583	1.70	8.667	3.40	14.750	3.92	20.83	1.57
2.667	1.70	8.750	3.66	14.833	3.92	20.92	1.57
2.750	1.70	8.833	3.66	14.917	3.92	21.00	1.57
2.833	1.70	8.917	3.66	15.000	3.92	21.08	1.57
2.917	1.70	9.000	3.66	15.083	3.92	21.17	1.57
3.000	1.70	9.083	3.66	15.167	3.92	21.25	1.57

3.083	1.70	9.167	3.66	15.250	3.92	21.33	1.57
3.167	1.70	9.250	4.18	15.333	3.92	21.42	1.57
3.250	1.70	9.333	4.18	15.417	3.92	21.50	1.57
3.333	1.70	9.417	4.18	15.500	3.92	21.58	1.57
3.417	1.70	9.500	4.18	15.583	3.92	21.67	1.57
3.500	1.70	9.583	4.18	15.667	3.92	21.75	1.57
3.583	1.70	9.667	4.18	15.750	3.92	21.83	1.57
3.667	1.70	9.750	4.70	15.833	3.92	21.92	1.57
3.750	1.70	9.833	4.70	15.917	3.92	22.00	1.57
3.833	1.70	9.917	4.70	16.000	3.92	22.08	1.57
3.917	1.70	10.000	4.70	16.083	3.92	22.17	1.57
4.000	1.70	10.083	4.70	16.167	3.92	22.25	1.57
4.083	1.70	10.167	4.70	16.250	2.35	22.33	1.57
4.167	1.70	10.250	6.01	16.333	2.35	22.42	1.57
4.250	2.09	10.333	6.01	16.417	2.35	22.50	1.57
4.333	2.09	10.417	6.01	16.500	2.35	22.58	1.57
4.417	2.09	10.500	6.01	16.583	2.35	22.67	1.57
4.500	2.09	10.583	6.01	16.667	2.35	22.75	1.57
4.583	2.09	10.667	6.01	16.750	2.35	22.83	1.57
4.667	2.09	10.750	8.10	16.833	2.35	22.92	1.57
4.750	2.09	10.833	8.10	16.917	2.35	23.00	1.57
4.833	2.09	10.917	8.10	17.000	2.35	23.08	1.57
4.917	2.09	11.000	8.10	17.083	2.35	23.17	1.57
5.000	2.09	11.083	8.10	17.167	2.35	23.25	1.57
5.083	2.09	11.167	8.10	17.250	2.35	23.33	1.57
5.167	2.09	11.250	12.54	17.333	2.35	23.42	1.57
5.250	2.09	11.333	12.54	17.417	2.35	23.50	1.57
5.333	2.09	11.417	12.54	17.500	2.35	23.58	1.57
5.417	2.09	11.500	12.54	17.583	2.35	23.67	1.57
5.500	2.09	11.583	12.54	17.667	2.35	23.75	1.57
5.583	2.09	11.667	12.54	17.750	2.35	23.83	1.57
5.667	2.09	11.750	38.67	17.833	2.35	23.92	1.57
5.750	2.09	11.833	38.68	17.917	2.35	24.00	1.57
5.833	2.09	11.917	99.29	18.000	2.35	24.08	1.57
5.917	2.09	12.000	99.30	18.083	2.35	24.17	1.57
6.000	2.09	12.083	159.92	18.167	2.35		
6.083	2.09	12.167	159.93	18.250	2.35		

Unit Hyd Qpeak (cms)= 0.125

PEAK FLOW (cms)= 0.105 (i)
TIME TO PEAK (hrs)= 12.333
RUNOFF VOLUME (mm)= 54.730
TOTAL RAINFALL (mm)= 130.660
RUNOFF COEFFICIENT = 0.419

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0010) | Area (ha)= 0.87 Curve Number (CN)= 32.0
| ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.24

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.09	12.250	18.83	18.33	2.35
0.167	0.00	6.250	2.35	12.333	18.82	18.42	2.35
0.250	1.44	6.333	2.35	12.417	18.81	18.50	2.35
0.333	1.44	6.417	2.35	12.500	18.82	18.58	2.35
0.417	1.44	6.500	2.35	12.583	18.81	18.67	2.35
0.500	1.44	6.583	2.35	12.667	18.82	18.75	2.35
0.583	1.44	6.667	2.35	12.750	9.67	18.83	2.35
0.667	1.44	6.750	2.35	12.833	9.67	18.92	2.35
0.750	1.44	6.833	2.35	12.917	9.67	19.00	2.35
0.833	1.44	6.917	2.35	13.000	9.67	19.08	2.35
0.917	1.44	7.000	2.35	13.083	9.67	19.17	2.35
1.000	1.44	7.083	2.35	13.167	9.67	19.25	2.35

1.083	1.44	7.167	2.35	13.250	7.06	19.33	2.35
1.167	1.44	7.250	2.87	13.333	7.06	19.42	2.35
1.250	1.44	7.333	2.87	13.417	7.06	19.50	2.35
1.333	1.44	7.417	2.87	13.500	7.06	19.58	2.35
1.417	1.44	7.500	2.87	13.583	7.06	19.67	2.35
1.500	1.44	7.583	2.87	13.667	7.06	19.75	2.35
1.583	1.44	7.667	2.87	13.750	5.49	19.83	2.35
1.667	1.44	7.750	2.87	13.833	5.49	19.92	2.35
1.750	1.44	7.833	2.87	13.917	5.49	20.00	2.35
1.833	1.44	7.917	2.87	14.000	5.49	20.08	2.35
1.917	1.44	8.000	2.87	14.083	5.49	20.17	2.35
2.000	1.44	8.083	2.87	14.167	5.49	20.25	1.57
2.083	1.44	8.167	2.87	14.250	3.92	20.33	1.57
2.167	1.44	8.250	3.40	14.333	3.92	20.42	1.57
2.250	1.70	8.333	3.40	14.417	3.92	20.50	1.57
2.333	1.70	8.417	3.40	14.500	3.92	20.58	1.57
2.417	1.70	8.500	3.40	14.583	3.92	20.67	1.57
2.500	1.70	8.583	3.40	14.667	3.92	20.75	1.57
2.583	1.70	8.667	3.40	14.750	3.92	20.83	1.57
2.667	1.70	8.750	3.66	14.833	3.92	20.92	1.57
2.750	1.70	8.833	3.66	14.917	3.92	21.00	1.57
2.833	1.70	8.917	3.66	15.000	3.92	21.08	1.57
2.917	1.70	9.000	3.66	15.083	3.92	21.17	1.57
3.000	1.70	9.083	3.66	15.167	3.92	21.25	1.57
3.083	1.70	9.167	3.66	15.250	3.92	21.33	1.57
3.167	1.70	9.250	4.18	15.333	3.92	21.42	1.57
3.250	1.70	9.333	4.18	15.417	3.92	21.50	1.57
3.333	1.70	9.417	4.18	15.500	3.92	21.58	1.57
3.417	1.70	9.500	4.18	15.583	3.92	21.67	1.57
3.500	1.70	9.583	4.18	15.667	3.92	21.75	1.57
3.583	1.70	9.667	4.18	15.750	3.92	21.83	1.57
3.667	1.70	9.750	4.70	15.833	3.92	21.92	1.57
3.750	1.70	9.833	4.70	15.917	3.92	22.00	1.57
3.833	1.70	9.917	4.70	16.000	3.92	22.08	1.57
3.917	1.70	10.000	4.70	16.083	3.92	22.17	1.57
4.000	1.70	10.083	4.70	16.167	3.92	22.25	1.57
4.083	1.70	10.167	4.70	16.250	2.35	22.33	1.57
4.167	1.70	10.250	6.01	16.333	2.35	22.42	1.57
4.250	2.09	10.333	6.01	16.417	2.35	22.50	1.57
4.333	2.09	10.417	6.01	16.500	2.35	22.58	1.57
4.417	2.09	10.500	6.01	16.583	2.35	22.67	1.57
4.500	2.09	10.583	6.01	16.667	2.35	22.75	1.57
4.583	2.09	10.667	6.01	16.750	2.35	22.83	1.57
4.667	2.09	10.750	8.10	16.833	2.35	22.92	1.57
4.750	2.09	10.833	8.10	16.917	2.35	23.00	1.57
4.833	2.09	10.917	8.10	17.000	2.35	23.08	1.57
4.917	2.09	11.000	8.10	17.083	2.35	23.17	1.57
5.000	2.09	11.083	8.10	17.167	2.35	23.25	1.57
5.083	2.09	11.167	8.10	17.250	2.35	23.33	1.57
5.167	2.09	11.250	12.54	17.333	2.35	23.42	1.57
5.250	2.09	11.333	12.54	17.417	2.35	23.50	1.57
5.333	2.09	11.417	12.54	17.500	2.35	23.58	1.57
5.417	2.09	11.500	12.54	17.583	2.35	23.67	1.57
5.500	2.09	11.583	12.54	17.667	2.35	23.75	1.57
5.583	2.09	11.667	12.54	17.750	2.35	23.83	1.57
5.667	2.09	11.750	38.67	17.833	2.35	23.92	1.57
5.750	2.09	11.833	38.68	17.917	2.35	24.00	1.57
5.833	2.09	11.917	99.29	18.000	2.35	24.08	1.57
5.917	2.09	12.000	99.30	18.083	2.35	24.17	1.57
6.000	2.09	12.083	159.92	18.167	2.35		
6.083	2.09	12.167	159.93	18.250	2.35		

Unit Hyd Qpeak (cms)= 0.138

PEAK FLOW (cms)= 0.040 (i)

TIME TO PEAK (hrs)= 12.250

RUNOFF VOLUME (mm)= 22.024

TOTAL RAINFALL (mm)= 130.660

RUNOFF COEFFICIENT = 0.169

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0011) | Area (ha)= 3.37 Curve Number (CN)= 31.2
 | ID= 1 DT= 5.0 min | Ia (mm)= 7.52 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.21

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.09	12.250	18.83	18.33	2.35
0.167	0.00	6.250	2.35	12.333	18.82	18.42	2.35
0.250	1.44	6.333	2.35	12.417	18.81	18.50	2.35
0.333	1.44	6.417	2.35	12.500	18.82	18.58	2.35
0.417	1.44	6.500	2.35	12.583	18.81	18.67	2.35
0.500	1.44	6.583	2.35	12.667	18.82	18.75	2.35
0.583	1.44	6.667	2.35	12.750	9.67	18.83	2.35
0.667	1.44	6.750	2.35	12.833	9.67	18.92	2.35
0.750	1.44	6.833	2.35	12.917	9.67	19.00	2.35
0.833	1.44	6.917	2.35	13.000	9.67	19.08	2.35
0.917	1.44	7.000	2.35	13.083	9.67	19.17	2.35
1.000	1.44	7.083	2.35	13.167	9.67	19.25	2.35
1.083	1.44	7.167	2.35	13.250	7.06	19.33	2.35
1.167	1.44	7.250	2.87	13.333	7.06	19.42	2.35
1.250	1.44	7.333	2.87	13.417	7.06	19.50	2.35
1.333	1.44	7.417	2.87	13.500	7.06	19.58	2.35
1.417	1.44	7.500	2.87	13.583	7.06	19.67	2.35
1.500	1.44	7.583	2.87	13.667	7.06	19.75	2.35
1.583	1.44	7.667	2.87	13.750	5.49	19.83	2.35
1.667	1.44	7.750	2.87	13.833	5.49	19.92	2.35
1.750	1.44	7.833	2.87	13.917	5.49	20.00	2.35
1.833	1.44	7.917	2.87	14.000	5.49	20.08	2.35
1.917	1.44	8.000	2.87	14.083	5.49	20.17	2.35
2.000	1.44	8.083	2.87	14.167	5.49	20.25	1.57
2.083	1.44	8.167	2.87	14.250	3.92	20.33	1.57
2.167	1.44	8.250	3.40	14.333	3.92	20.42	1.57
2.250	1.70	8.333	3.40	14.417	3.92	20.50	1.57
2.333	1.70	8.417	3.40	14.500	3.92	20.58	1.57
2.417	1.70	8.500	3.40	14.583	3.92	20.67	1.57
2.500	1.70	8.583	3.40	14.667	3.92	20.75	1.57
2.583	1.70	8.667	3.40	14.750	3.92	20.83	1.57
2.667	1.70	8.750	3.66	14.833	3.92	20.92	1.57
2.750	1.70	8.833	3.66	14.917	3.92	21.00	1.57
2.833	1.70	8.917	3.66	15.000	3.92	21.08	1.57
2.917	1.70	9.000	3.66	15.083	3.92	21.17	1.57
3.000	1.70	9.083	3.66	15.167	3.92	21.25	1.57
3.083	1.70	9.167	3.66	15.250	3.92	21.33	1.57
3.167	1.70	9.250	4.18	15.333	3.92	21.42	1.57
3.250	1.70	9.333	4.18	15.417	3.92	21.50	1.57
3.333	1.70	9.417	4.18	15.500	3.92	21.58	1.57
3.417	1.70	9.500	4.18	15.583	3.92	21.67	1.57
3.500	1.70	9.583	4.18	15.667	3.92	21.75	1.57
3.583	1.70	9.667	4.18	15.750	3.92	21.83	1.57
3.667	1.70	9.750	4.70	15.833	3.92	21.92	1.57
3.750	1.70	9.833	4.70	15.917	3.92	22.00	1.57
3.833	1.70	9.917	4.70	16.000	3.92	22.08	1.57
3.917	1.70	10.000	4.70	16.083	3.92	22.17	1.57
4.000	1.70	10.083	4.70	16.167	3.92	22.25	1.57
4.083	1.70	10.167	4.70	16.250	2.35	22.33	1.57
4.167	1.70	10.250	6.01	16.333	2.35	22.42	1.57
4.250	2.09	10.333	6.01	16.417	2.35	22.50	1.57
4.333	2.09	10.417	6.01	16.500	2.35	22.58	1.57
4.417	2.09	10.500	6.01	16.583	2.35	22.67	1.57
4.500	2.09	10.583	6.01	16.667	2.35	22.75	1.57
4.583	2.09	10.667	6.01	16.750	2.35	22.83	1.57
4.667	2.09	10.750	8.10	16.833	2.35	22.92	1.57
4.750	2.09	10.833	8.10	16.917	2.35	23.00	1.57
4.833	2.09	10.917	8.10	17.000	2.35	23.08	1.57
4.917	2.09	11.000	8.10	17.083	2.35	23.17	1.57
5.000	2.09	11.083	8.10	17.167	2.35	23.25	1.57
5.083	2.09	11.167	8.10	17.250	2.35	23.33	1.57

5.167	2.09	11.250	12.54	17.333	2.35	23.42	1.57
5.250	2.09	11.333	12.54	17.417	2.35	23.50	1.57
5.333	2.09	11.417	12.54	17.500	2.35	23.58	1.57
5.417	2.09	11.500	12.54	17.583	2.35	23.67	1.57
5.500	2.09	11.583	12.54	17.667	2.35	23.75	1.57
5.583	2.09	11.667	12.54	17.750	2.35	23.83	1.57
5.667	2.09	11.750	38.67	17.833	2.35	23.92	1.57
5.750	2.09	11.833	38.68	17.917	2.35	24.00	1.57
5.833	2.09	11.917	99.29	18.000	2.35	24.08	1.57
5.917	2.09	12.000	99.30	18.083	2.35	24.17	1.57
6.000	2.09	12.083	159.92	18.167	2.35		
6.083	2.09	12.167	159.93	18.250	2.35		

Unit Hyd Qpeak (cms)= 0.613

PEAK FLOW (cms)= 0.171 (i)
TIME TO PEAK (hrs)= 12.250
RUNOFF VOLUME (mm)= 22.158
TOTAL RAINFALL (mm)= 130.660
RUNOFF COEFFICIENT = 0.170

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
|ADD HYD ( 0017)|
| 1 + 2 = 3 |   AREA  QPEAK  TPEAK  R.V.
-----      (ha) (cms) (hrs) (mm)
ID1= 1 ( 0010): 0.87 0.040 12.25 22.02
+ ID2= 2 ( 0011): 3.37 0.171 12.25 22.16
=====
ID = 3 ( 0017): 4.24 0.210 12.25 22.13

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NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
|ADD HYD ( 0017)|
| 3 + 2 = 1 |   AREA  QPEAK  TPEAK  R.V.
-----      (ha) (cms) (hrs) (mm)
ID1= 3 ( 0017): 4.24 0.210 12.25 22.13
+ ID2= 2 ( 0009): 1.11 0.105 12.33 54.73
=====
ID = 1 ( 0017): 5.35 0.306 12.25 28.89

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NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
|CALIB      |
|NASHYD ( 0012)| Area (ha)= 1.60 Curve Number (CN)= 49.7
|ID= 1 DT= 5.0 min| Ia (mm)= 8.23 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.24

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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---- TRANSFORMED HYETOGRAPH ----
TIME RAIN| TIME RAIN|' TIME RAIN| TIME RAIN
hrs mm/hr| hrs mm/hr|' hrs mm/hr| hrs mm/hr
0.083 0.00| 6.167 2.09|12.250 18.83| 18.33 2.35
0.167 0.00| 6.250 2.35|12.333 18.82| 18.42 2.35
0.250 1.44| 6.333 2.35|12.417 18.81| 18.50 2.35
0.333 1.44| 6.417 2.35|12.500 18.82| 18.58 2.35
0.417 1.44| 6.500 2.35|12.583 18.81| 18.67 2.35
0.500 1.44| 6.583 2.35|12.667 18.82| 18.75 2.35
0.583 1.44| 6.667 2.35|12.750 9.67| 18.83 2.35
0.667 1.44| 6.750 2.35|12.833 9.67| 18.92 2.35
0.750 1.44| 6.833 2.35|12.917 9.67| 19.00 2.35
0.833 1.44| 6.917 2.35|13.000 9.67| 19.08 2.35
0.917 1.44| 7.000 2.35|13.083 9.67| 19.17 2.35
1.000 1.44| 7.083 2.35|13.167 9.67| 19.25 2.35
1.083 1.44| 7.167 2.35|13.250 7.06| 19.33 2.35

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1.167	1.44	7.250	2.87	13.333	7.06	19.42	2.35
1.250	1.44	7.333	2.87	13.417	7.06	19.50	2.35
1.333	1.44	7.417	2.87	13.500	7.06	19.58	2.35
1.417	1.44	7.500	2.87	13.583	7.06	19.67	2.35
1.500	1.44	7.583	2.87	13.667	7.06	19.75	2.35
1.583	1.44	7.667	2.87	13.750	5.49	19.83	2.35
1.667	1.44	7.750	2.87	13.833	5.49	19.92	2.35
1.750	1.44	7.833	2.87	13.917	5.49	20.00	2.35
1.833	1.44	7.917	2.87	14.000	5.49	20.08	2.35
1.917	1.44	8.000	2.87	14.083	5.49	20.17	2.35
2.000	1.44	8.083	2.87	14.167	5.49	20.25	1.57
2.083	1.44	8.167	2.87	14.250	3.92	20.33	1.57
2.167	1.44	8.250	3.40	14.333	3.92	20.42	1.57
2.250	1.70	8.333	3.40	14.417	3.92	20.50	1.57
2.333	1.70	8.417	3.40	14.500	3.92	20.58	1.57
2.417	1.70	8.500	3.40	14.583	3.92	20.67	1.57
2.500	1.70	8.583	3.40	14.667	3.92	20.75	1.57
2.583	1.70	8.667	3.40	14.750	3.92	20.83	1.57
2.667	1.70	8.750	3.66	14.833	3.92	20.92	1.57
2.750	1.70	8.833	3.66	14.917	3.92	21.00	1.57
2.833	1.70	8.917	3.66	15.000	3.92	21.08	1.57
2.917	1.70	9.000	3.66	15.083	3.92	21.17	1.57
3.000	1.70	9.083	3.66	15.167	3.92	21.25	1.57
3.083	1.70	9.167	3.66	15.250	3.92	21.33	1.57
3.167	1.70	9.250	4.18	15.333	3.92	21.42	1.57
3.250	1.70	9.333	4.18	15.417	3.92	21.50	1.57
3.333	1.70	9.417	4.18	15.500	3.92	21.58	1.57
3.417	1.70	9.500	4.18	15.583	3.92	21.67	1.57
3.500	1.70	9.583	4.18	15.667	3.92	21.75	1.57
3.583	1.70	9.667	4.18	15.750	3.92	21.83	1.57
3.667	1.70	9.750	4.70	15.833	3.92	21.92	1.57
3.750	1.70	9.833	4.70	15.917	3.92	22.00	1.57
3.833	1.70	9.917	4.70	16.000	3.92	22.08	1.57
3.917	1.70	10.000	4.70	16.083	3.92	22.17	1.57
4.000	1.70	10.083	4.70	16.167	3.92	22.25	1.57
4.083	1.70	10.167	4.70	16.250	2.35	22.33	1.57
4.167	1.70	10.250	6.01	16.333	2.35	22.42	1.57
4.250	2.09	10.333	6.01	16.417	2.35	22.50	1.57
4.333	2.09	10.417	6.01	16.500	2.35	22.58	1.57
4.417	2.09	10.500	6.01	16.583	2.35	22.67	1.57
4.500	2.09	10.583	6.01	16.667	2.35	22.75	1.57
4.583	2.09	10.667	6.01	16.750	2.35	22.83	1.57
4.667	2.09	10.750	8.10	16.833	2.35	22.92	1.57
4.750	2.09	10.833	8.10	16.917	2.35	23.00	1.57
4.833	2.09	10.917	8.10	17.000	2.35	23.08	1.57
4.917	2.09	11.000	8.10	17.083	2.35	23.17	1.57
5.000	2.09	11.083	8.10	17.167	2.35	23.25	1.57
5.083	2.09	11.167	8.10	17.250	2.35	23.33	1.57
5.167	2.09	11.250	12.54	17.333	2.35	23.42	1.57
5.250	2.09	11.333	12.54	17.417	2.35	23.50	1.57
5.333	2.09	11.417	12.54	17.500	2.35	23.58	1.57
5.417	2.09	11.500	12.54	17.583	2.35	23.67	1.57
5.500	2.09	11.583	12.54	17.667	2.35	23.75	1.57
5.583	2.09	11.667	12.54	17.750	2.35	23.83	1.57
5.667	2.09	11.750	38.67	17.833	2.35	23.92	1.57
5.750	2.09	11.833	38.68	17.917	2.35	24.00	1.57
5.833	2.09	11.917	99.29	18.000	2.35	24.08	1.57
5.917	2.09	12.000	99.30	18.083	2.35	24.17	1.57
6.000	2.09	12.083	159.92	18.167	2.35		
6.083	2.09	12.167	159.93	18.250	2.35		

Unit Hyd Qpeak (cms)= 0.255

PEAK FLOW (cms)= 0.136 (i)

TIME TO PEAK (hrs)= 12.250

RUNOFF VOLUME (mm)= 39.460

TOTAL RAINFALL (mm)= 130.660

RUNOFF COEFFICIENT = 0.302

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
 | NASHYD (0013) | Area (ha)= 12.11 Curve Number (CN)= 48.1
 | ID= 1 DT= 5.0 min | Ia (mm)= 11.30 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.55

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.09	12.250	18.83	18.33	2.35
0.167	0.00	6.250	2.35	12.333	18.82	18.42	2.35
0.250	1.44	6.333	2.35	12.417	18.81	18.50	2.35
0.333	1.44	6.417	2.35	12.500	18.82	18.58	2.35
0.417	1.44	6.500	2.35	12.583	18.81	18.67	2.35
0.500	1.44	6.583	2.35	12.667	18.82	18.75	2.35
0.583	1.44	6.667	2.35	12.750	9.67	18.83	2.35
0.667	1.44	6.750	2.35	12.833	9.67	18.92	2.35
0.750	1.44	6.833	2.35	12.917	9.67	19.00	2.35
0.833	1.44	6.917	2.35	13.000	9.67	19.08	2.35
0.917	1.44	7.000	2.35	13.083	9.67	19.17	2.35
1.000	1.44	7.083	2.35	13.167	9.67	19.25	2.35
1.083	1.44	7.167	2.35	13.250	7.06	19.33	2.35
1.167	1.44	7.250	2.87	13.333	7.06	19.42	2.35
1.250	1.44	7.333	2.87	13.417	7.06	19.50	2.35
1.333	1.44	7.417	2.87	13.500	7.06	19.58	2.35
1.417	1.44	7.500	2.87	13.583	7.06	19.67	2.35
1.500	1.44	7.583	2.87	13.667	7.06	19.75	2.35
1.583	1.44	7.667	2.87	13.750	5.49	19.83	2.35
1.667	1.44	7.750	2.87	13.833	5.49	19.92	2.35
1.750	1.44	7.833	2.87	13.917	5.49	20.00	2.35
1.833	1.44	7.917	2.87	14.000	5.49	20.08	2.35
1.917	1.44	8.000	2.87	14.083	5.49	20.17	2.35
2.000	1.44	8.083	2.87	14.167	5.49	20.25	1.57
2.083	1.44	8.167	2.87	14.250	3.92	20.33	1.57
2.167	1.44	8.250	3.40	14.333	3.92	20.42	1.57
2.250	1.70	8.333	3.40	14.417	3.92	20.50	1.57
2.333	1.70	8.417	3.40	14.500	3.92	20.58	1.57
2.417	1.70	8.500	3.40	14.583	3.92	20.67	1.57
2.500	1.70	8.583	3.40	14.667	3.92	20.75	1.57
2.583	1.70	8.667	3.40	14.750	3.92	20.83	1.57
2.667	1.70	8.750	3.66	14.833	3.92	20.92	1.57
2.750	1.70	8.833	3.66	14.917	3.92	21.00	1.57
2.833	1.70	8.917	3.66	15.000	3.92	21.08	1.57
2.917	1.70	9.000	3.66	15.083	3.92	21.17	1.57
3.000	1.70	9.083	3.66	15.167	3.92	21.25	1.57
3.083	1.70	9.167	3.66	15.250	3.92	21.33	1.57
3.167	1.70	9.250	4.18	15.333	3.92	21.42	1.57
3.250	1.70	9.333	4.18	15.417	3.92	21.50	1.57
3.333	1.70	9.417	4.18	15.500	3.92	21.58	1.57
3.417	1.70	9.500	4.18	15.583	3.92	21.67	1.57
3.500	1.70	9.583	4.18	15.667	3.92	21.75	1.57
3.583	1.70	9.667	4.18	15.750	3.92	21.83	1.57
3.667	1.70	9.750	4.70	15.833	3.92	21.92	1.57
3.750	1.70	9.833	4.70	15.917	3.92	22.00	1.57
3.833	1.70	9.917	4.70	16.000	3.92	22.08	1.57
3.917	1.70	10.000	4.70	16.083	3.92	22.17	1.57
4.000	1.70	10.083	4.70	16.167	3.92	22.25	1.57
4.083	1.70	10.167	4.70	16.250	2.35	22.33	1.57
4.167	1.70	10.250	6.01	16.333	2.35	22.42	1.57
4.250	2.09	10.333	6.01	16.417	2.35	22.50	1.57
4.333	2.09	10.417	6.01	16.500	2.35	22.58	1.57
4.417	2.09	10.500	6.01	16.583	2.35	22.67	1.57
4.500	2.09	10.583	6.01	16.667	2.35	22.75	1.57
4.583	2.09	10.667	6.01	16.750	2.35	22.83	1.57
4.667	2.09	10.750	8.10	16.833	2.35	22.92	1.57
4.750	2.09	10.833	8.10	16.917	2.35	23.00	1.57
4.833	2.09	10.917	8.10	17.000	2.35	23.08	1.57
4.917	2.09	11.000	8.10	17.083	2.35	23.17	1.57
5.000	2.09	11.083	8.10	17.167	2.35	23.25	1.57
5.083	2.09	11.167	8.10	17.250	2.35	23.33	1.57
5.167	2.09	11.250	12.54	17.333	2.35	23.42	1.57

5.250	2.09	11.333	12.54	17.417	2.35	23.50	1.57
5.333	2.09	11.417	12.54	17.500	2.35	23.58	1.57
5.417	2.09	11.500	12.54	17.583	2.35	23.67	1.57
5.500	2.09	11.583	12.54	17.667	2.35	23.75	1.57
5.583	2.09	11.667	12.54	17.750	2.35	23.83	1.57
5.667	2.09	11.750	38.67	17.833	2.35	23.92	1.57
5.750	2.09	11.833	38.68	17.917	2.35	24.00	1.57
5.833	2.09	11.917	99.29	18.000	2.35	24.08	1.57
5.917	2.09	12.000	99.30	18.083	2.35	24.17	1.57
6.000	2.09	12.083	159.92	18.167	2.35		
6.083	2.09	12.167	159.93	18.250	2.35		

Unit Hyd Qpeak (cms)= 0.841

PEAK FLOW (cms)= 0.522 (i)
TIME TO PEAK (hrs)= 12.667
RUNOFF VOLUME (mm)= 36.211
TOTAL RAINFALL (mm)= 130.660
RUNOFF COEFFICIENT = 0.277

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0014)| Area (ha)= 14.45 Curve Number (CN)= 32.0
|ID= 1 DT= 5.0 min| Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.81

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.09	12.250	18.83	18.33	2.35
0.167	0.00	6.250	2.35	12.333	18.82	18.42	2.35
0.250	1.44	6.333	2.35	12.417	18.81	18.50	2.35
0.333	1.44	6.417	2.35	12.500	18.82	18.58	2.35
0.417	1.44	6.500	2.35	12.583	18.81	18.67	2.35
0.500	1.44	6.583	2.35	12.667	18.82	18.75	2.35
0.583	1.44	6.667	2.35	12.750	9.67	18.83	2.35
0.667	1.44	6.750	2.35	12.833	9.67	18.92	2.35
0.750	1.44	6.833	2.35	12.917	9.67	19.00	2.35
0.833	1.44	6.917	2.35	13.000	9.67	19.08	2.35
0.917	1.44	7.000	2.35	13.083	9.67	19.17	2.35
1.000	1.44	7.083	2.35	13.167	9.67	19.25	2.35
1.083	1.44	7.167	2.35	13.250	7.06	19.33	2.35
1.167	1.44	7.250	2.87	13.333	7.06	19.42	2.35
1.250	1.44	7.333	2.87	13.417	7.06	19.50	2.35
1.333	1.44	7.417	2.87	13.500	7.06	19.58	2.35
1.417	1.44	7.500	2.87	13.583	7.06	19.67	2.35
1.500	1.44	7.583	2.87	13.667	7.06	19.75	2.35
1.583	1.44	7.667	2.87	13.750	5.49	19.83	2.35
1.667	1.44	7.750	2.87	13.833	5.49	19.92	2.35
1.750	1.44	7.833	2.87	13.917	5.49	20.00	2.35
1.833	1.44	7.917	2.87	14.000	5.49	20.08	2.35
1.917	1.44	8.000	2.87	14.083	5.49	20.17	2.35
2.000	1.44	8.083	2.87	14.167	5.49	20.25	1.57
2.083	1.44	8.167	2.87	14.250	3.92	20.33	1.57
2.167	1.44	8.250	3.40	14.333	3.92	20.42	1.57
2.250	1.70	8.333	3.40	14.417	3.92	20.50	1.57
2.333	1.70	8.417	3.40	14.500	3.92	20.58	1.57
2.417	1.70	8.500	3.40	14.583	3.92	20.67	1.57
2.500	1.70	8.583	3.40	14.667	3.92	20.75	1.57
2.583	1.70	8.667	3.40	14.750	3.92	20.83	1.57
2.667	1.70	8.750	3.66	14.833	3.92	20.92	1.57
2.750	1.70	8.833	3.66	14.917	3.92	21.00	1.57
2.833	1.70	8.917	3.66	15.000	3.92	21.08	1.57
2.917	1.70	9.000	3.66	15.083	3.92	21.17	1.57
3.000	1.70	9.083	3.66	15.167	3.92	21.25	1.57
3.083	1.70	9.167	3.66	15.250	3.92	21.33	1.57
3.167	1.70	9.250	4.18	15.333	3.92	21.42	1.57

3.250	1.70	9.333	4.18	15.417	3.92	21.50	1.57
3.333	1.70	9.417	4.18	15.500	3.92	21.58	1.57
3.417	1.70	9.500	4.18	15.583	3.92	21.67	1.57
3.500	1.70	9.583	4.18	15.667	3.92	21.75	1.57
3.583	1.70	9.667	4.18	15.750	3.92	21.83	1.57
3.667	1.70	9.750	4.70	15.833	3.92	21.92	1.57
3.750	1.70	9.833	4.70	15.917	3.92	22.00	1.57
3.833	1.70	9.917	4.70	16.000	3.92	22.08	1.57
3.917	1.70	10.000	4.70	16.083	3.92	22.17	1.57
4.000	1.70	10.083	4.70	16.167	3.92	22.25	1.57
4.083	1.70	10.167	4.70	16.250	2.35	22.33	1.57
4.167	1.70	10.250	6.01	16.333	2.35	22.42	1.57
4.250	2.09	10.333	6.01	16.417	2.35	22.50	1.57
4.333	2.09	10.417	6.01	16.500	2.35	22.58	1.57
4.417	2.09	10.500	6.01	16.583	2.35	22.67	1.57
4.500	2.09	10.583	6.01	16.667	2.35	22.75	1.57
4.583	2.09	10.667	6.01	16.750	2.35	22.83	1.57
4.667	2.09	10.750	8.10	16.833	2.35	22.92	1.57
4.750	2.09	10.833	8.10	16.917	2.35	23.00	1.57
4.833	2.09	10.917	8.10	17.000	2.35	23.08	1.57
4.917	2.09	11.000	8.10	17.083	2.35	23.17	1.57
5.000	2.09	11.083	8.10	17.167	2.35	23.25	1.57
5.083	2.09	11.167	8.10	17.250	2.35	23.33	1.57
5.167	2.09	11.250	12.54	17.333	2.35	23.42	1.57
5.250	2.09	11.333	12.54	17.417	2.35	23.50	1.57
5.333	2.09	11.417	12.54	17.500	2.35	23.58	1.57
5.417	2.09	11.500	12.54	17.583	2.35	23.67	1.57
5.500	2.09	11.583	12.54	17.667	2.35	23.75	1.57
5.583	2.09	11.667	12.54	17.750	2.35	23.83	1.57
5.667	2.09	11.750	38.67	17.833	2.35	23.92	1.57
5.750	2.09	11.833	38.68	17.917	2.35	24.00	1.57
5.833	2.09	11.917	99.29	18.000	2.35	24.08	1.57
5.917	2.09	12.000	99.30	18.083	2.35	24.17	1.57
6.000	2.09	12.083	159.92	18.167	2.35		
6.083	2.09	12.167	159.93	18.250	2.35		

Unit Hyd Qpeak (cms)= 0.681

PEAK FLOW (cms)= 0.279 (i)
TIME TO PEAK (hrs)= 12.917
RUNOFF VOLUME (mm)= 22.045
TOTAL RAINFALL (mm)= 130.660
RUNOFF COEFFICIENT = 0.169

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```
-----
| ADD HYD ( 0019)|
| 1 + 2 = 3 |   AREA  QPEAK  TPEAK  R.V.
-----          (ha)  (cms)  (hrs)  (mm)
ID1= 1 ( 0001): 2.64  0.074  12.75  25.81
+ ID2= 2 ( 0012): 1.60  0.136  12.25  39.46
=====
ID = 3 ( 0019): 4.24  0.184  12.33  30.96
```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ADD HYD (0019)				
3 + 2 = 1	AREA	QPEAK	TPEAK	R.V.
-----	(ha)	(cms)	(hrs)	(mm)
ID1= 3 (0019):	4.24	0.184	12.33	30.96
+ ID2= 2 (0013):	12.11	0.522	12.67	36.21
=====				
ID = 1 (0019):	16.35	0.669	12.58	34.85

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 1 (0019): 16.35 0.669 12.58 34.85
+ ID2= 2 (0014): 14.45 0.279 12.92 22.04
=====

ID = 3 (0019): 30.80 0.913 12.67 28.84

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 3 (0019): 30.80 0.913 12.67 28.84
+ ID2= 2 (0016): 3.21 0.151 12.25 32.25
=====

ID = 1 (0019): 34.01 1.024 12.67 29.16

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 1 (0019): 34.01 1.024 12.67 29.16
+ ID2= 2 (0017): 5.35 0.306 12.25 28.89
=====

ID = 3 (0019): 39.36 1.232 12.50 29.13

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 3 (0019): 39.36 1.232 12.50 29.13
+ ID2= 2 (0002): 1.25 0.078 12.25 27.93
=====

ID = 1 (0019): 40.61 1.292 12.42 29.09

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 1 (0019): 40.61 1.292 12.42 29.09
+ ID2= 2 (0005): 9.65 0.205 12.83 22.04
=====

ID = 3 (0019): 50.26 1.453 12.50 27.74

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 3 (0019): 50.26 1.453 12.50 27.74
+ ID2= 2 (0006): 1.82 0.072 12.33 22.04
=====

ID = 1 (0019): 52.08 1.515 12.50 27.54

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|

| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 1 (0019): 52.08 1.515 12.50 27.54
+ ID2= 2 (0007): 1.70 0.137 12.50 54.74
=====

ID = 3 (0019): 53.78 1.652 12.50 28.40

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 3 (0019): 53.78 1.652 12.50 28.40
+ ID2= 2 (0008): 0.23 0.008 12.33 22.04
=====

ID = 1 (0019): 54.01 1.659 12.50 28.37

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

=====

V V I SSSSS U U A L (v 6.2.2015)
V V I SS U U AA L
V V I SS U U AAAAA L
V V I SS U U A A L
V V I SSSSS UUUUU A A LLLLL

OOO TTTT TTTT H H Y Y M M OOO TM
O O T T H H Y Y MM MM O O
O O T T H H Y M M O O
OOO T T H H Y M M OOO

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***** DETAILED OUTPUT *****

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DATE: 04-25-2025 TIME: 03:57:17

USER:

COMMENTS: _____

** SIMULATION : 10yr 24hr 10min SCS Type II (**

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| Ptotal= 91.10 mm | Comments: 10yr 24hr 10min SCS Type II (MTO)

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr		hrs	mm/hr		hrs	mm/hr
0.00	0.00		6.17	1.64		12.33	13.12
0.17	1.00		6.33	1.64		12.50	13.12
0.33	1.00		6.50	1.64		12.67	6.74
0.50	1.00		6.67	1.64		12.83	6.74

0.67	1.00	6.83	1.64	13.00	6.74	19.17	1.64
0.83	1.00	7.00	1.64	13.17	4.92	19.33	1.64
1.00	1.00	7.17	2.00	13.33	4.92	19.50	1.64
1.17	1.00	7.33	2.00	13.50	4.92	19.67	1.64
1.33	1.00	7.50	2.00	13.67	3.83	19.83	1.64
1.50	1.00	7.67	2.00	13.83	3.83	20.00	1.64
1.67	1.00	7.83	2.00	14.00	3.83	20.17	1.09
1.83	1.00	8.00	2.00	14.17	2.73	20.33	1.09
2.00	1.00	8.17	2.37	14.33	2.73	20.50	1.09
2.17	1.18	8.33	2.37	14.50	2.73	20.67	1.09
2.33	1.18	8.50	2.37	14.67	2.73	20.83	1.09
2.50	1.18	8.67	2.55	14.83	2.73	21.00	1.09
2.67	1.18	8.83	2.55	15.00	2.73	21.17	1.09
2.83	1.18	9.00	2.55	15.17	2.73	21.33	1.09
3.00	1.18	9.17	2.92	15.33	2.73	21.50	1.09
3.17	1.18	9.33	2.92	15.50	2.73	21.67	1.09
3.33	1.18	9.50	2.92	15.67	2.73	21.83	1.09
3.50	1.18	9.67	3.28	15.83	2.73	22.00	1.09
3.67	1.18	9.83	3.28	16.00	2.73	22.17	1.09
3.83	1.18	10.00	3.28	16.17	1.64	22.33	1.09
4.00	1.18	10.17	4.19	16.33	1.64	22.50	1.09
4.17	1.46	10.33	4.19	16.50	1.64	22.67	1.09
4.33	1.46	10.50	4.19	16.67	1.64	22.83	1.09
4.50	1.46	10.67	5.65	16.83	1.64	23.00	1.09
4.67	1.46	10.83	5.65	17.00	1.64	23.17	1.09
4.83	1.46	11.00	5.65	17.17	1.64	23.33	1.09
5.00	1.46	11.17	8.75	17.33	1.64	23.50	1.09
5.17	1.46	11.33	8.75	17.50	1.64	23.67	1.09
5.33	1.46	11.50	8.75	17.67	1.64	23.83	1.09
5.50	1.46	11.67	26.97	17.83	1.64	24.00	1.09
5.67	1.46	11.83	69.24	18.00	1.64		
5.83	1.46	12.00	111.51	18.17	1.64		
6.00	1.46	12.17	13.12	18.33	1.64		

| CALIB |

| NASHYD (0015)| Area (ha)= 3.24 Curve Number (CN)= 37.0

| ID= 1 DT= 5.0 min | Ia (mm)= 11.14 # of Linear Res.(N)= 3.00

----- U.H. Tp(hrs)= 0.41

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.46	12.250	13.13	18.33	1.64
0.167	0.00	6.250	1.64	12.333	13.12	18.42	1.64
0.250	1.00	6.333	1.64	12.417	13.12	18.50	1.64
0.333	1.00	6.417	1.64	12.500	13.12	18.58	1.64
0.417	1.00	6.500	1.64	12.583	13.12	18.67	1.64
0.500	1.00	6.583	1.64	12.667	13.12	18.75	1.64
0.583	1.00	6.667	1.64	12.750	6.74	18.83	1.64
0.667	1.00	6.750	1.64	12.833	6.74	18.92	1.64
0.750	1.00	6.833	1.64	12.917	6.74	19.00	1.64
0.833	1.00	6.917	1.64	13.000	6.74	19.08	1.64
0.917	1.00	7.000	1.64	13.083	6.74	19.17	1.64
1.000	1.00	7.083	1.64	13.167	6.74	19.25	1.64
1.083	1.00	7.167	1.64	13.250	4.92	19.33	1.64
1.167	1.00	7.250	2.00	13.333	4.92	19.42	1.64
1.250	1.00	7.333	2.00	13.417	4.92	19.50	1.64
1.333	1.00	7.417	2.00	13.500	4.92	19.58	1.64
1.417	1.00	7.500	2.00	13.583	4.92	19.67	1.64
1.500	1.00	7.583	2.00	13.667	4.92	19.75	1.64
1.583	1.00	7.667	2.00	13.750	3.83	19.83	1.64
1.667	1.00	7.750	2.00	13.833	3.83	19.92	1.64
1.750	1.00	7.833	2.00	13.917	3.83	20.00	1.64
1.833	1.00	7.917	2.00	14.000	3.83	20.08	1.64
1.917	1.00	8.000	2.00	14.083	3.83	20.17	1.64
2.000	1.00	8.083	2.00	14.167	3.83	20.25	1.09
2.083	1.00	8.167	2.00	14.250	2.73	20.33	1.09

2.167	1.00	8.250	2.37	14.333	2.73	20.42	1.09
2.250	1.18	8.333	2.37	14.417	2.73	20.50	1.09
2.333	1.18	8.417	2.37	14.500	2.73	20.58	1.09
2.417	1.18	8.500	2.37	14.583	2.73	20.67	1.09
2.500	1.18	8.583	2.37	14.667	2.73	20.75	1.09
2.583	1.18	8.667	2.37	14.750	2.73	20.83	1.09
2.667	1.18	8.750	2.55	14.833	2.73	20.92	1.09
2.750	1.18	8.833	2.55	14.917	2.73	21.00	1.09
2.833	1.18	8.917	2.55	15.000	2.73	21.08	1.09
2.917	1.18	9.000	2.55	15.083	2.73	21.17	1.09
3.000	1.18	9.083	2.55	15.167	2.73	21.25	1.09
3.083	1.18	9.167	2.55	15.250	2.73	21.33	1.09
3.167	1.18	9.250	2.92	15.333	2.73	21.42	1.09
3.250	1.18	9.333	2.92	15.417	2.73	21.50	1.09
3.333	1.18	9.417	2.92	15.500	2.73	21.58	1.09
3.417	1.18	9.500	2.92	15.583	2.73	21.67	1.09
3.500	1.18	9.583	2.92	15.667	2.73	21.75	1.09
3.583	1.18	9.667	2.92	15.750	2.73	21.83	1.09
3.667	1.18	9.750	3.28	15.833	2.73	21.92	1.09
3.750	1.18	9.833	3.28	15.917	2.73	22.00	1.09
3.833	1.18	9.917	3.28	16.000	2.73	22.08	1.09
3.917	1.18	10.000	3.28	16.083	2.73	22.17	1.09
4.000	1.18	10.083	3.28	16.167	2.73	22.25	1.09
4.083	1.18	10.167	3.28	16.250	1.64	22.33	1.09
4.167	1.18	10.250	4.19	16.333	1.64	22.42	1.09
4.250	1.46	10.333	4.19	16.417	1.64	22.50	1.09
4.333	1.46	10.417	4.19	16.500	1.64	22.58	1.09
4.417	1.46	10.500	4.19	16.583	1.64	22.67	1.09
4.500	1.46	10.583	4.19	16.667	1.64	22.75	1.09
4.583	1.46	10.667	4.19	16.750	1.64	22.83	1.09
4.667	1.46	10.750	5.65	16.833	1.64	22.92	1.09
4.750	1.46	10.833	5.65	16.917	1.64	23.00	1.09
4.833	1.46	10.917	5.65	17.000	1.64	23.08	1.09
4.917	1.46	11.000	5.65	17.083	1.64	23.17	1.09
5.000	1.46	11.083	5.65	17.167	1.64	23.25	1.09
5.083	1.46	11.167	5.65	17.250	1.64	23.33	1.09
5.167	1.46	11.250	8.75	17.333	1.64	23.42	1.09
5.250	1.46	11.333	8.75	17.417	1.64	23.50	1.09
5.333	1.46	11.417	8.75	17.500	1.64	23.58	1.09
5.417	1.46	11.500	8.75	17.583	1.64	23.67	1.09
5.500	1.46	11.583	8.75	17.667	1.64	23.75	1.09
5.583	1.46	11.667	8.75	17.750	1.64	23.83	1.09
5.667	1.46	11.750	26.96	17.833	1.64	23.92	1.09
5.750	1.46	11.833	26.97	17.917	1.64	24.00	1.09
5.833	1.46	11.917	69.23	18.000	1.64	24.08	1.09
5.917	1.46	12.000	69.24	18.083	1.64	24.17	1.09
6.000	1.46	12.083	111.50	18.167	1.64		
6.083	1.46	12.167	111.51	18.250	1.64		

Unit Hyd Qpeak (cms)= 0.302

PEAK FLOW (cms)= 0.057 (i)

TIME TO PEAK (hrs)= 12.500

RUNOFF VOLUME (mm)= 12.475

TOTAL RAINFALL (mm)= 91.100

RUNOFF COEFFICIENT = 0.137

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0001) | Area (ha)= 2.64 Curve Number (CN)= 36.2
 | ID= 1 DT= 5.0 min | Ia (mm)= 9.50 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.61

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.46	12.250	13.13	18.33	1.64

0.167	0.00	6.250	1.64	12.333	13.12	18.42	1.64
0.250	1.00	6.333	1.64	12.417	13.12	18.50	1.64
0.333	1.00	6.417	1.64	12.500	13.12	18.58	1.64
0.417	1.00	6.500	1.64	12.583	13.12	18.67	1.64
0.500	1.00	6.583	1.64	12.667	13.12	18.75	1.64
0.583	1.00	6.667	1.64	12.750	6.74	18.83	1.64
0.667	1.00	6.750	1.64	12.833	6.74	18.92	1.64
0.750	1.00	6.833	1.64	12.917	6.74	19.00	1.64
0.833	1.00	6.917	1.64	13.000	6.74	19.08	1.64
0.917	1.00	7.000	1.64	13.083	6.74	19.17	1.64
1.000	1.00	7.083	1.64	13.167	6.74	19.25	1.64
1.083	1.00	7.167	1.64	13.250	4.92	19.33	1.64
1.167	1.00	7.250	2.00	13.333	4.92	19.42	1.64
1.250	1.00	7.333	2.00	13.417	4.92	19.50	1.64
1.333	1.00	7.417	2.00	13.500	4.92	19.58	1.64
1.417	1.00	7.500	2.00	13.583	4.92	19.67	1.64
1.500	1.00	7.583	2.00	13.667	4.92	19.75	1.64
1.583	1.00	7.667	2.00	13.750	3.83	19.83	1.64
1.667	1.00	7.750	2.00	13.833	3.83	19.92	1.64
1.750	1.00	7.833	2.00	13.917	3.83	20.00	1.64
1.833	1.00	7.917	2.00	14.000	3.83	20.08	1.64
1.917	1.00	8.000	2.00	14.083	3.83	20.17	1.64
2.000	1.00	8.083	2.00	14.167	3.83	20.25	1.09
2.083	1.00	8.167	2.00	14.250	2.73	20.33	1.09
2.167	1.00	8.250	2.37	14.333	2.73	20.42	1.09
2.250	1.18	8.333	2.37	14.417	2.73	20.50	1.09
2.333	1.18	8.417	2.37	14.500	2.73	20.58	1.09
2.417	1.18	8.500	2.37	14.583	2.73	20.67	1.09
2.500	1.18	8.583	2.37	14.667	2.73	20.75	1.09
2.583	1.18	8.667	2.37	14.750	2.73	20.83	1.09
2.667	1.18	8.750	2.55	14.833	2.73	20.92	1.09
2.750	1.18	8.833	2.55	14.917	2.73	21.00	1.09
2.833	1.18	8.917	2.55	15.000	2.73	21.08	1.09
2.917	1.18	9.000	2.55	15.083	2.73	21.17	1.09
3.000	1.18	9.083	2.55	15.167	2.73	21.25	1.09
3.083	1.18	9.167	2.55	15.250	2.73	21.33	1.09
3.167	1.18	9.250	2.92	15.333	2.73	21.42	1.09
3.250	1.18	9.333	2.92	15.417	2.73	21.50	1.09
3.333	1.18	9.417	2.92	15.500	2.73	21.58	1.09
3.417	1.18	9.500	2.92	15.583	2.73	21.67	1.09
3.500	1.18	9.583	2.92	15.667	2.73	21.75	1.09
3.583	1.18	9.667	2.92	15.750	2.73	21.83	1.09
3.667	1.18	9.750	3.28	15.833	2.73	21.92	1.09
3.750	1.18	9.833	3.28	15.917	2.73	22.00	1.09
3.833	1.18	9.917	3.28	16.000	2.73	22.08	1.09
3.917	1.18	10.000	3.28	16.083	2.73	22.17	1.09
4.000	1.18	10.083	3.28	16.167	2.73	22.25	1.09
4.083	1.18	10.167	3.28	16.250	1.64	22.33	1.09
4.167	1.18	10.250	4.19	16.333	1.64	22.42	1.09
4.250	1.46	10.333	4.19	16.417	1.64	22.50	1.09
4.333	1.46	10.417	4.19	16.500	1.64	22.58	1.09
4.417	1.46	10.500	4.19	16.583	1.64	22.67	1.09
4.500	1.46	10.583	4.19	16.667	1.64	22.75	1.09
4.583	1.46	10.667	4.19	16.750	1.64	22.83	1.09
4.667	1.46	10.750	5.65	16.833	1.64	22.92	1.09
4.750	1.46	10.833	5.65	16.917	1.64	23.00	1.09
4.833	1.46	10.917	5.65	17.000	1.64	23.08	1.09
4.917	1.46	11.000	5.65	17.083	1.64	23.17	1.09
5.000	1.46	11.083	5.65	17.167	1.64	23.25	1.09
5.083	1.46	11.167	5.65	17.250	1.64	23.33	1.09
5.167	1.46	11.250	8.75	17.333	1.64	23.42	1.09
5.250	1.46	11.333	8.75	17.417	1.64	23.50	1.09
5.333	1.46	11.417	8.75	17.500	1.64	23.58	1.09
5.417	1.46	11.500	8.75	17.583	1.64	23.67	1.09
5.500	1.46	11.583	8.75	17.667	1.64	23.75	1.09
5.583	1.46	11.667	8.75	17.750	1.64	23.83	1.09
5.667	1.46	11.750	26.96	17.833	1.64	23.92	1.09
5.750	1.46	11.833	26.97	17.917	1.64	24.00	1.09
5.833	1.46	11.917	69.23	18.000	1.64	24.08	1.09
5.917	1.46	12.000	69.24	18.083	1.64	24.17	1.09
6.000	1.46	12.083	111.50	18.167	1.64		
6.083	1.46	12.167	111.51	18.250	1.64		

Unit Hyd Qpeak (cms)= 0.165

PEAK FLOW (cms)= 0.035 (i)
TIME TO PEAK (hrs)= 12.750
RUNOFF VOLUME (mm)= 12.580
TOTAL RAINFALL (mm)= 91.100
RUNOFF COEFFICIENT = 0.138

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0002) | Area (ha)= 1.25 Curve Number (CN)= 38.5
| ID= 1 DT= 5.0 min | Ia (mm)= 9.23 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.22

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.46	12.250	13.13	18.33	1.64
0.167	0.00	6.250	1.64	12.333	13.12	18.42	1.64
0.250	1.00	6.333	1.64	12.417	13.12	18.50	1.64
0.333	1.00	6.417	1.64	12.500	13.12	18.58	1.64
0.417	1.00	6.500	1.64	12.583	13.12	18.67	1.64
0.500	1.00	6.583	1.64	12.667	13.12	18.75	1.64
0.583	1.00	6.667	1.64	12.750	6.74	18.83	1.64
0.667	1.00	6.750	1.64	12.833	6.74	18.92	1.64
0.750	1.00	6.833	1.64	12.917	6.74	19.00	1.64
0.833	1.00	6.917	1.64	13.000	6.74	19.08	1.64
0.917	1.00	7.000	1.64	13.083	6.74	19.17	1.64
1.000	1.00	7.083	1.64	13.167	6.74	19.25	1.64
1.083	1.00	7.167	1.64	13.250	4.92	19.33	1.64
1.167	1.00	7.250	2.00	13.333	4.92	19.42	1.64
1.250	1.00	7.333	2.00	13.417	4.92	19.50	1.64
1.333	1.00	7.417	2.00	13.500	4.92	19.58	1.64
1.417	1.00	7.500	2.00	13.583	4.92	19.67	1.64
1.500	1.00	7.583	2.00	13.667	4.92	19.75	1.64
1.583	1.00	7.667	2.00	13.750	3.83	19.83	1.64
1.667	1.00	7.750	2.00	13.833	3.83	19.92	1.64
1.750	1.00	7.833	2.00	13.917	3.83	20.00	1.64
1.833	1.00	7.917	2.00	14.000	3.83	20.08	1.64
1.917	1.00	8.000	2.00	14.083	3.83	20.17	1.64
2.000	1.00	8.083	2.00	14.167	3.83	20.25	1.09
2.083	1.00	8.167	2.00	14.250	2.73	20.33	1.09
2.167	1.00	8.250	2.37	14.333	2.73	20.42	1.09
2.250	1.18	8.333	2.37	14.417	2.73	20.50	1.09
2.333	1.18	8.417	2.37	14.500	2.73	20.58	1.09
2.417	1.18	8.500	2.37	14.583	2.73	20.67	1.09
2.500	1.18	8.583	2.37	14.667	2.73	20.75	1.09
2.583	1.18	8.667	2.37	14.750	2.73	20.83	1.09
2.667	1.18	8.750	2.55	14.833	2.73	20.92	1.09
2.750	1.18	8.833	2.55	14.917	2.73	21.00	1.09
2.833	1.18	8.917	2.55	15.000	2.73	21.08	1.09
2.917	1.18	9.000	2.55	15.083	2.73	21.17	1.09
3.000	1.18	9.083	2.55	15.167	2.73	21.25	1.09
3.083	1.18	9.167	2.55	15.250	2.73	21.33	1.09
3.167	1.18	9.250	2.92	15.333	2.73	21.42	1.09
3.250	1.18	9.333	2.92	15.417	2.73	21.50	1.09
3.333	1.18	9.417	2.92	15.500	2.73	21.58	1.09
3.417	1.18	9.500	2.92	15.583	2.73	21.67	1.09
3.500	1.18	9.583	2.92	15.667	2.73	21.75	1.09
3.583	1.18	9.667	2.92	15.750	2.73	21.83	1.09
3.667	1.18	9.750	3.28	15.833	2.73	21.92	1.09
3.750	1.18	9.833	3.28	15.917	2.73	22.00	1.09
3.833	1.18	9.917	3.28	16.000	2.73	22.08	1.09
3.917	1.18	10.000	3.28	16.083	2.73	22.17	1.09
4.000	1.18	10.083	3.28	16.167	2.73	22.25	1.09
4.083	1.18	10.167	3.28	16.250	1.64	22.33	1.09
4.167	1.18	10.250	4.19	16.333	1.64	22.42	1.09

4.250	1.46	10.333	4.19	16.417	1.64	22.50	1.09
4.333	1.46	10.417	4.19	16.500	1.64	22.58	1.09
4.417	1.46	10.500	4.19	16.583	1.64	22.67	1.09
4.500	1.46	10.583	4.19	16.667	1.64	22.75	1.09
4.583	1.46	10.667	4.19	16.750	1.64	22.83	1.09
4.667	1.46	10.750	5.65	16.833	1.64	22.92	1.09
4.750	1.46	10.833	5.65	16.917	1.64	23.00	1.09
4.833	1.46	10.917	5.65	17.000	1.64	23.08	1.09
4.917	1.46	11.000	5.65	17.083	1.64	23.17	1.09
5.000	1.46	11.083	5.65	17.167	1.64	23.25	1.09
5.083	1.46	11.167	5.65	17.250	1.64	23.33	1.09
5.167	1.46	11.250	8.75	17.333	1.64	23.42	1.09
5.250	1.46	11.333	8.75	17.417	1.64	23.50	1.09
5.333	1.46	11.417	8.75	17.500	1.64	23.58	1.09
5.417	1.46	11.500	8.75	17.583	1.64	23.67	1.09
5.500	1.46	11.583	8.75	17.667	1.64	23.75	1.09
5.583	1.46	11.667	8.75	17.750	1.64	23.83	1.09
5.667	1.46	11.750	26.96	17.833	1.64	23.92	1.09
5.750	1.46	11.833	26.97	17.917	1.64	24.00	1.09
5.833	1.46	11.917	69.23	18.000	1.64	24.08	1.09
5.917	1.46	12.000	69.24	18.083	1.64	24.17	1.09
6.000	1.46	12.083	111.50	18.167	1.64		
6.083	1.46	12.167	111.51	18.250	1.64		

Unit Hyd Qpeak (cms)= 0.217

PEAK FLOW (cms)= 0.038 (i)
TIME TO PEAK (hrs)= 12.250
RUNOFF VOLUME (mm)= 13.727
TOTAL RAINFALL (mm)= 91.100
RUNOFF COEFFICIENT = 0.151

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0003)| Area (ha)= 2.55 Curve Number (CN)= 36.9
|ID= 1 DT= 5.0 min | la (mm)= 9.42 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.49

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.46	12.250	13.13	18.33	1.64
0.167	0.00	6.250	1.64	12.333	13.12	18.42	1.64
0.250	1.00	6.333	1.64	12.417	13.12	18.50	1.64
0.333	1.00	6.417	1.64	12.500	13.12	18.58	1.64
0.417	1.00	6.500	1.64	12.583	13.12	18.67	1.64
0.500	1.00	6.583	1.64	12.667	13.12	18.75	1.64
0.583	1.00	6.667	1.64	12.750	6.74	18.83	1.64
0.667	1.00	6.750	1.64	12.833	6.74	18.92	1.64
0.750	1.00	6.833	1.64	12.917	6.74	19.00	1.64
0.833	1.00	6.917	1.64	13.000	6.74	19.08	1.64
0.917	1.00	7.000	1.64	13.083	6.74	19.17	1.64
1.000	1.00	7.083	1.64	13.167	6.74	19.25	1.64
1.083	1.00	7.167	1.64	13.250	4.92	19.33	1.64
1.167	1.00	7.250	2.00	13.333	4.92	19.42	1.64
1.250	1.00	7.333	2.00	13.417	4.92	19.50	1.64
1.333	1.00	7.417	2.00	13.500	4.92	19.58	1.64
1.417	1.00	7.500	2.00	13.583	4.92	19.67	1.64
1.500	1.00	7.583	2.00	13.667	4.92	19.75	1.64
1.583	1.00	7.667	2.00	13.750	3.83	19.83	1.64
1.667	1.00	7.750	2.00	13.833	3.83	19.92	1.64
1.750	1.00	7.833	2.00	13.917	3.83	20.00	1.64
1.833	1.00	7.917	2.00	14.000	3.83	20.08	1.64
1.917	1.00	8.000	2.00	14.083	3.83	20.17	1.64
2.000	1.00	8.083	2.00	14.167	3.83	20.25	1.09
2.083	1.00	8.167	2.00	14.250	2.73	20.33	1.09
2.167	1.00	8.250	2.37	14.333	2.73	20.42	1.09

2.250	1.18	8.333	2.37	14.417	2.73	20.50	1.09
2.333	1.18	8.417	2.37	14.500	2.73	20.58	1.09
2.417	1.18	8.500	2.37	14.583	2.73	20.67	1.09
2.500	1.18	8.583	2.37	14.667	2.73	20.75	1.09
2.583	1.18	8.667	2.37	14.750	2.73	20.83	1.09
2.667	1.18	8.750	2.55	14.833	2.73	20.92	1.09
2.750	1.18	8.833	2.55	14.917	2.73	21.00	1.09
2.833	1.18	8.917	2.55	15.000	2.73	21.08	1.09
2.917	1.18	9.000	2.55	15.083	2.73	21.17	1.09
3.000	1.18	9.083	2.55	15.167	2.73	21.25	1.09
3.083	1.18	9.167	2.55	15.250	2.73	21.33	1.09
3.167	1.18	9.250	2.92	15.333	2.73	21.42	1.09
3.250	1.18	9.333	2.92	15.417	2.73	21.50	1.09
3.333	1.18	9.417	2.92	15.500	2.73	21.58	1.09
3.417	1.18	9.500	2.92	15.583	2.73	21.67	1.09
3.500	1.18	9.583	2.92	15.667	2.73	21.75	1.09
3.583	1.18	9.667	2.92	15.750	2.73	21.83	1.09
3.667	1.18	9.750	3.28	15.833	2.73	21.92	1.09
3.750	1.18	9.833	3.28	15.917	2.73	22.00	1.09
3.833	1.18	9.917	3.28	16.000	2.73	22.08	1.09
3.917	1.18	10.000	3.28	16.083	2.73	22.17	1.09
4.000	1.18	10.083	3.28	16.167	2.73	22.25	1.09
4.083	1.18	10.167	3.28	16.250	1.64	22.33	1.09
4.167	1.18	10.250	4.19	16.333	1.64	22.42	1.09
4.250	1.46	10.333	4.19	16.417	1.64	22.50	1.09
4.333	1.46	10.417	4.19	16.500	1.64	22.58	1.09
4.417	1.46	10.500	4.19	16.583	1.64	22.67	1.09
4.500	1.46	10.583	4.19	16.667	1.64	22.75	1.09
4.583	1.46	10.667	4.19	16.750	1.64	22.83	1.09
4.667	1.46	10.750	5.65	16.833	1.64	22.92	1.09
4.750	1.46	10.833	5.65	16.917	1.64	23.00	1.09
4.833	1.46	10.917	5.65	17.000	1.64	23.08	1.09
4.917	1.46	11.000	5.65	17.083	1.64	23.17	1.09
5.000	1.46	11.083	5.65	17.167	1.64	23.25	1.09
5.083	1.46	11.167	5.65	17.250	1.64	23.33	1.09
5.167	1.46	11.250	8.75	17.333	1.64	23.42	1.09
5.250	1.46	11.333	8.75	17.417	1.64	23.50	1.09
5.333	1.46	11.417	8.75	17.500	1.64	23.58	1.09
5.417	1.46	11.500	8.75	17.583	1.64	23.67	1.09
5.500	1.46	11.583	8.75	17.667	1.64	23.75	1.09
5.583	1.46	11.667	8.75	17.750	1.64	23.83	1.09
5.667	1.46	11.750	26.96	17.833	1.64	23.92	1.09
5.750	1.46	11.833	26.97	17.917	1.64	24.00	1.09
5.833	1.46	11.917	69.23	18.000	1.64	24.08	1.09
5.917	1.46	12.000	69.24	18.083	1.64	24.17	1.09
6.000	1.46	12.083	111.50	18.167	1.64		
6.083	1.46	12.167	111.51	18.250	1.64		

Unit Hyd Qpeak (cms)= 0.199

PEAK FLOW (cms)= 0.041 (i)

TIME TO PEAK (hrs)= 12.583

RUNOFF VOLUME (mm)= 12.928

TOTAL RAINFALL (mm)= 91.100

RUNOFF COEFFICIENT = 0.142

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0004) | Area (ha)= 0.66 Curve Number (CN)= 62.0
 | ID= 1 DT= 5.0 min | Ia (mm)= 7.00 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.19

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----
 TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN
 hrs mm/hr | hrs mm/hr | hrs mm/hr | hrs mm/hr
 0.083 0.00 | 6.167 1.46 | 12.250 13.13 | 18.33 1.64
 0.167 0.00 | 6.250 1.64 | 12.333 13.12 | 18.42 1.64

0.250	1.00	6.333	1.64	12.417	13.12	18.50	1.64
0.333	1.00	6.417	1.64	12.500	13.12	18.58	1.64
0.417	1.00	6.500	1.64	12.583	13.12	18.67	1.64
0.500	1.00	6.583	1.64	12.667	13.12	18.75	1.64
0.583	1.00	6.667	1.64	12.750	6.74	18.83	1.64
0.667	1.00	6.750	1.64	12.833	6.74	18.92	1.64
0.750	1.00	6.833	1.64	12.917	6.74	19.00	1.64
0.833	1.00	6.917	1.64	13.000	6.74	19.08	1.64
0.917	1.00	7.000	1.64	13.083	6.74	19.17	1.64
1.000	1.00	7.083	1.64	13.167	6.74	19.25	1.64
1.083	1.00	7.167	1.64	13.250	4.92	19.33	1.64
1.167	1.00	7.250	2.00	13.333	4.92	19.42	1.64
1.250	1.00	7.333	2.00	13.417	4.92	19.50	1.64
1.333	1.00	7.417	2.00	13.500	4.92	19.58	1.64
1.417	1.00	7.500	2.00	13.583	4.92	19.67	1.64
1.500	1.00	7.583	2.00	13.667	4.92	19.75	1.64
1.583	1.00	7.667	2.00	13.750	3.83	19.83	1.64
1.667	1.00	7.750	2.00	13.833	3.83	19.92	1.64
1.750	1.00	7.833	2.00	13.917	3.83	20.00	1.64
1.833	1.00	7.917	2.00	14.000	3.83	20.08	1.64
1.917	1.00	8.000	2.00	14.083	3.83	20.17	1.64
2.000	1.00	8.083	2.00	14.167	3.83	20.25	1.09
2.083	1.00	8.167	2.00	14.250	2.73	20.33	1.09
2.167	1.00	8.250	2.37	14.333	2.73	20.42	1.09
2.250	1.18	8.333	2.37	14.417	2.73	20.50	1.09
2.333	1.18	8.417	2.37	14.500	2.73	20.58	1.09
2.417	1.18	8.500	2.37	14.583	2.73	20.67	1.09
2.500	1.18	8.583	2.37	14.667	2.73	20.75	1.09
2.583	1.18	8.667	2.37	14.750	2.73	20.83	1.09
2.667	1.18	8.750	2.55	14.833	2.73	20.92	1.09
2.750	1.18	8.833	2.55	14.917	2.73	21.00	1.09
2.833	1.18	8.917	2.55	15.000	2.73	21.08	1.09
2.917	1.18	9.000	2.55	15.083	2.73	21.17	1.09
3.000	1.18	9.083	2.55	15.167	2.73	21.25	1.09
3.083	1.18	9.167	2.55	15.250	2.73	21.33	1.09
3.167	1.18	9.250	2.92	15.333	2.73	21.42	1.09
3.250	1.18	9.333	2.92	15.417	2.73	21.50	1.09
3.333	1.18	9.417	2.92	15.500	2.73	21.58	1.09
3.417	1.18	9.500	2.92	15.583	2.73	21.67	1.09
3.500	1.18	9.583	2.92	15.667	2.73	21.75	1.09
3.583	1.18	9.667	2.92	15.750	2.73	21.83	1.09
3.667	1.18	9.750	3.28	15.833	2.73	21.92	1.09
3.750	1.18	9.833	3.28	15.917	2.73	22.00	1.09
3.833	1.18	9.917	3.28	16.000	2.73	22.08	1.09
3.917	1.18	10.000	3.28	16.083	2.73	22.17	1.09
4.000	1.18	10.083	3.28	16.167	2.73	22.25	1.09
4.083	1.18	10.167	3.28	16.250	1.64	22.33	1.09
4.167	1.18	10.250	4.19	16.333	1.64	22.42	1.09
4.250	1.46	10.333	4.19	16.417	1.64	22.50	1.09
4.333	1.46	10.417	4.19	16.500	1.64	22.58	1.09
4.417	1.46	10.500	4.19	16.583	1.64	22.67	1.09
4.500	1.46	10.583	4.19	16.667	1.64	22.75	1.09
4.583	1.46	10.667	4.19	16.750	1.64	22.83	1.09
4.667	1.46	10.750	5.65	16.833	1.64	22.92	1.09
4.750	1.46	10.833	5.65	16.917	1.64	23.00	1.09
4.833	1.46	10.917	5.65	17.000	1.64	23.08	1.09
4.917	1.46	11.000	5.65	17.083	1.64	23.17	1.09
5.000	1.46	11.083	5.65	17.167	1.64	23.25	1.09
5.083	1.46	11.167	5.65	17.250	1.64	23.33	1.09
5.167	1.46	11.250	8.75	17.333	1.64	23.42	1.09
5.250	1.46	11.333	8.75	17.417	1.64	23.50	1.09
5.333	1.46	11.417	8.75	17.500	1.64	23.58	1.09
5.417	1.46	11.500	8.75	17.583	1.64	23.67	1.09
5.500	1.46	11.583	8.75	17.667	1.64	23.75	1.09
5.583	1.46	11.667	8.75	17.750	1.64	23.83	1.09
5.667	1.46	11.750	26.96	17.833	1.64	23.92	1.09
5.750	1.46	11.833	26.97	17.917	1.64	24.00	1.09
5.833	1.46	11.917	69.23	18.000	1.64	24.08	1.09
5.917	1.46	12.000	69.24	18.083	1.64	24.17	1.09
6.000	1.46	12.083	111.50	18.167	1.64		
6.083	1.46	12.167	111.51	18.250	1.64		

Unit Hyd Qpeak (cms)= 0.133

PEAK FLOW (cms)= 0.049 (i)
 TIME TO PEAK (hrs)= 12.250
 RUNOFF VOLUME (mm)= 29.428
 TOTAL RAINFALL (mm)= 91.100
 RUNOFF COEFFICIENT = 0.323

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
| ADD HYD ( 0016)|
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 1 ( 0003): 2.55 0.041 12.58 12.93
+ ID2= 2 ( 0004): 0.66 0.049 12.25 29.43
=====
ID = 3 ( 0016): 3.21 0.076 12.25 16.32
  
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NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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| CALIB |
| NASHYD ( 0005)| Area (ha)= 9.65 Curve Number (CN)= 32.0
| ID= 1 DT= 5.0 min| Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.71
  
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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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---- TRANSFORMED HYETOGRAPH ----
TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN
hrs mm/hr | hrs mm/hr | hrs mm/hr | hrs mm/hr
0.083 0.00 | 6.167 1.46 | 12.250 13.13 | 18.33 1.64
0.167 0.00 | 6.250 1.64 | 12.333 13.12 | 18.42 1.64
0.250 1.00 | 6.333 1.64 | 12.417 13.12 | 18.50 1.64
0.333 1.00 | 6.417 1.64 | 12.500 13.12 | 18.58 1.64
0.417 1.00 | 6.500 1.64 | 12.583 13.12 | 18.67 1.64
0.500 1.00 | 6.583 1.64 | 12.667 13.12 | 18.75 1.64
0.583 1.00 | 6.667 1.64 | 12.750 6.74 | 18.83 1.64
0.667 1.00 | 6.750 1.64 | 12.833 6.74 | 18.92 1.64
0.750 1.00 | 6.833 1.64 | 12.917 6.74 | 19.00 1.64
0.833 1.00 | 6.917 1.64 | 13.000 6.74 | 19.08 1.64
0.917 1.00 | 7.000 1.64 | 13.083 6.74 | 19.17 1.64
1.000 1.00 | 7.083 1.64 | 13.167 6.74 | 19.25 1.64
1.083 1.00 | 7.167 1.64 | 13.250 4.92 | 19.33 1.64
1.167 1.00 | 7.250 2.00 | 13.333 4.92 | 19.42 1.64
1.250 1.00 | 7.333 2.00 | 13.417 4.92 | 19.50 1.64
1.333 1.00 | 7.417 2.00 | 13.500 4.92 | 19.58 1.64
1.417 1.00 | 7.500 2.00 | 13.583 4.92 | 19.67 1.64
1.500 1.00 | 7.583 2.00 | 13.667 4.92 | 19.75 1.64
1.583 1.00 | 7.667 2.00 | 13.750 3.83 | 19.83 1.64
1.667 1.00 | 7.750 2.00 | 13.833 3.83 | 19.92 1.64
1.750 1.00 | 7.833 2.00 | 13.917 3.83 | 20.00 1.64
1.833 1.00 | 7.917 2.00 | 14.000 3.83 | 20.08 1.64
1.917 1.00 | 8.000 2.00 | 14.083 3.83 | 20.17 1.64
2.000 1.00 | 8.083 2.00 | 14.167 3.83 | 20.25 1.09
2.083 1.00 | 8.167 2.00 | 14.250 2.73 | 20.33 1.09
2.167 1.00 | 8.250 2.37 | 14.333 2.73 | 20.42 1.09
2.250 1.18 | 8.333 2.37 | 14.417 2.73 | 20.50 1.09
2.333 1.18 | 8.417 2.37 | 14.500 2.73 | 20.58 1.09
2.417 1.18 | 8.500 2.37 | 14.583 2.73 | 20.67 1.09
2.500 1.18 | 8.583 2.37 | 14.667 2.73 | 20.75 1.09
2.583 1.18 | 8.667 2.37 | 14.750 2.73 | 20.83 1.09
2.667 1.18 | 8.750 2.55 | 14.833 2.73 | 20.92 1.09
2.750 1.18 | 8.833 2.55 | 14.917 2.73 | 21.00 1.09
2.833 1.18 | 8.917 2.55 | 15.000 2.73 | 21.08 1.09
2.917 1.18 | 9.000 2.55 | 15.083 2.73 | 21.17 1.09
3.000 1.18 | 9.083 2.55 | 15.167 2.73 | 21.25 1.09
3.083 1.18 | 9.167 2.55 | 15.250 2.73 | 21.33 1.09
3.167 1.18 | 9.250 2.92 | 15.333 2.73 | 21.42 1.09
3.250 1.18 | 9.333 2.92 | 15.417 2.73 | 21.50 1.09
  
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3.333	1.18	9.417	2.92	15.500	2.73	21.58	1.09
3.417	1.18	9.500	2.92	15.583	2.73	21.67	1.09
3.500	1.18	9.583	2.92	15.667	2.73	21.75	1.09
3.583	1.18	9.667	2.92	15.750	2.73	21.83	1.09
3.667	1.18	9.750	3.28	15.833	2.73	21.92	1.09
3.750	1.18	9.833	3.28	15.917	2.73	22.00	1.09
3.833	1.18	9.917	3.28	16.000	2.73	22.08	1.09
3.917	1.18	10.000	3.28	16.083	2.73	22.17	1.09
4.000	1.18	10.083	3.28	16.167	2.73	22.25	1.09
4.083	1.18	10.167	3.28	16.250	1.64	22.33	1.09
4.167	1.18	10.250	4.19	16.333	1.64	22.42	1.09
4.250	1.46	10.333	4.19	16.417	1.64	22.50	1.09
4.333	1.46	10.417	4.19	16.500	1.64	22.58	1.09
4.417	1.46	10.500	4.19	16.583	1.64	22.67	1.09
4.500	1.46	10.583	4.19	16.667	1.64	22.75	1.09
4.583	1.46	10.667	4.19	16.750	1.64	22.83	1.09
4.667	1.46	10.750	5.65	16.833	1.64	22.92	1.09
4.750	1.46	10.833	5.65	16.917	1.64	23.00	1.09
4.833	1.46	10.917	5.65	17.000	1.64	23.08	1.09
4.917	1.46	11.000	5.65	17.083	1.64	23.17	1.09
5.000	1.46	11.083	5.65	17.167	1.64	23.25	1.09
5.083	1.46	11.167	5.65	17.250	1.64	23.33	1.09
5.167	1.46	11.250	8.75	17.333	1.64	23.42	1.09
5.250	1.46	11.333	8.75	17.417	1.64	23.50	1.09
5.333	1.46	11.417	8.75	17.500	1.64	23.58	1.09
5.417	1.46	11.500	8.75	17.583	1.64	23.67	1.09
5.500	1.46	11.583	8.75	17.667	1.64	23.75	1.09
5.583	1.46	11.667	8.75	17.750	1.64	23.83	1.09
5.667	1.46	11.750	26.96	17.833	1.64	23.92	1.09
5.750	1.46	11.833	26.97	17.917	1.64	24.00	1.09
5.833	1.46	11.917	69.23	18.000	1.64	24.08	1.09
5.917	1.46	12.000	69.24	18.083	1.64	24.17	1.09
6.000	1.46	12.083	111.50	18.167	1.64		
6.083	1.46	12.167	111.51	18.250	1.64		

Unit Hyd Qpeak (cms)= 0.519

PEAK FLOW (cms)= 0.097 (i)

TIME TO PEAK (hrs)= 12.833

RUNOFF VOLUME (mm)= 10.594

TOTAL RAINFALL (mm)= 91.100

RUNOFF COEFFICIENT = 0.116

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0006) | Area (ha)= 1.82 Curve Number (CN)= 32.0
 | ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.30

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.46	12.250	13.13	18.33	1.64
0.167	0.00	6.250	1.64	12.333	13.12	18.42	1.64
0.250	1.00	6.333	1.64	12.417	13.12	18.50	1.64
0.333	1.00	6.417	1.64	12.500	13.12	18.58	1.64
0.417	1.00	6.500	1.64	12.583	13.12	18.67	1.64
0.500	1.00	6.583	1.64	12.667	13.12	18.75	1.64
0.583	1.00	6.667	1.64	12.750	6.74	18.83	1.64
0.667	1.00	6.750	1.64	12.833	6.74	18.92	1.64
0.750	1.00	6.833	1.64	12.917	6.74	19.00	1.64
0.833	1.00	6.917	1.64	13.000	6.74	19.08	1.64
0.917	1.00	7.000	1.64	13.083	6.74	19.17	1.64
1.000	1.00	7.083	1.64	13.167	6.74	19.25	1.64
1.083	1.00	7.167	1.64	13.250	4.92	19.33	1.64
1.167	1.00	7.250	2.00	13.333	4.92	19.42	1.64
1.250	1.00	7.333	2.00	13.417	4.92	19.50	1.64

1.333	1.00	7.417	2.00	13.500	4.92	19.58	1.64
1.417	1.00	7.500	2.00	13.583	4.92	19.67	1.64
1.500	1.00	7.583	2.00	13.667	4.92	19.75	1.64
1.583	1.00	7.667	2.00	13.750	3.83	19.83	1.64
1.667	1.00	7.750	2.00	13.833	3.83	19.92	1.64
1.750	1.00	7.833	2.00	13.917	3.83	20.00	1.64
1.833	1.00	7.917	2.00	14.000	3.83	20.08	1.64
1.917	1.00	8.000	2.00	14.083	3.83	20.17	1.64
2.000	1.00	8.083	2.00	14.167	3.83	20.25	1.09
2.083	1.00	8.167	2.00	14.250	2.73	20.33	1.09
2.167	1.00	8.250	2.37	14.333	2.73	20.42	1.09
2.250	1.18	8.333	2.37	14.417	2.73	20.50	1.09
2.333	1.18	8.417	2.37	14.500	2.73	20.58	1.09
2.417	1.18	8.500	2.37	14.583	2.73	20.67	1.09
2.500	1.18	8.583	2.37	14.667	2.73	20.75	1.09
2.583	1.18	8.667	2.37	14.750	2.73	20.83	1.09
2.667	1.18	8.750	2.55	14.833	2.73	20.92	1.09
2.750	1.18	8.833	2.55	14.917	2.73	21.00	1.09
2.833	1.18	8.917	2.55	15.000	2.73	21.08	1.09
2.917	1.18	9.000	2.55	15.083	2.73	21.17	1.09
3.000	1.18	9.083	2.55	15.167	2.73	21.25	1.09
3.083	1.18	9.167	2.55	15.250	2.73	21.33	1.09
3.167	1.18	9.250	2.92	15.333	2.73	21.42	1.09
3.250	1.18	9.333	2.92	15.417	2.73	21.50	1.09
3.333	1.18	9.417	2.92	15.500	2.73	21.58	1.09
3.417	1.18	9.500	2.92	15.583	2.73	21.67	1.09
3.500	1.18	9.583	2.92	15.667	2.73	21.75	1.09
3.583	1.18	9.667	2.92	15.750	2.73	21.83	1.09
3.667	1.18	9.750	3.28	15.833	2.73	21.92	1.09
3.750	1.18	9.833	3.28	15.917	2.73	22.00	1.09
3.833	1.18	9.917	3.28	16.000	2.73	22.08	1.09
3.917	1.18	10.000	3.28	16.083	2.73	22.17	1.09
4.000	1.18	10.083	3.28	16.167	2.73	22.25	1.09
4.083	1.18	10.167	3.28	16.250	1.64	22.33	1.09
4.167	1.18	10.250	4.19	16.333	1.64	22.42	1.09
4.250	1.46	10.333	4.19	16.417	1.64	22.50	1.09
4.333	1.46	10.417	4.19	16.500	1.64	22.58	1.09
4.417	1.46	10.500	4.19	16.583	1.64	22.67	1.09
4.500	1.46	10.583	4.19	16.667	1.64	22.75	1.09
4.583	1.46	10.667	4.19	16.750	1.64	22.83	1.09
4.667	1.46	10.750	5.65	16.833	1.64	22.92	1.09
4.750	1.46	10.833	5.65	16.917	1.64	23.00	1.09
4.833	1.46	10.917	5.65	17.000	1.64	23.08	1.09
4.917	1.46	11.000	5.65	17.083	1.64	23.17	1.09
5.000	1.46	11.083	5.65	17.167	1.64	23.25	1.09
5.083	1.46	11.167	5.65	17.250	1.64	23.33	1.09
5.167	1.46	11.250	8.75	17.333	1.64	23.42	1.09
5.250	1.46	11.333	8.75	17.417	1.64	23.50	1.09
5.333	1.46	11.417	8.75	17.500	1.64	23.58	1.09
5.417	1.46	11.500	8.75	17.583	1.64	23.67	1.09
5.500	1.46	11.583	8.75	17.667	1.64	23.75	1.09
5.583	1.46	11.667	8.75	17.750	1.64	23.83	1.09
5.667	1.46	11.750	26.96	17.833	1.64	23.92	1.09
5.750	1.46	11.833	26.97	17.917	1.64	24.00	1.09
5.833	1.46	11.917	69.23	18.000	1.64	24.08	1.09
5.917	1.46	12.000	69.24	18.083	1.64	24.17	1.09
6.000	1.46	12.083	111.50	18.167	1.64		
6.083	1.46	12.167	111.51	18.250	1.64		

Unit Hyd Qpeak (cms)= 0.232

PEAK FLOW (cms)= 0.034 (i)

TIME TO PEAK (hrs)= 12.333

RUNOFF VOLUME (mm)= 10.589

TOTAL RAINFALL (mm)= 91.100

RUNOFF COEFFICIENT = 0.116

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0007) | Area (ha)= 1.70 Curve Number (CN)= 62.0

|ID= 1 DT= 5.0 min | la (mm)= 7.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.43

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.46	12.250	13.13	18.33	1.64
0.167	0.00	6.250	1.64	12.333	13.12	18.42	1.64
0.250	1.00	6.333	1.64	12.417	13.12	18.50	1.64
0.333	1.00	6.417	1.64	12.500	13.12	18.58	1.64
0.417	1.00	6.500	1.64	12.583	13.12	18.67	1.64
0.500	1.00	6.583	1.64	12.667	13.12	18.75	1.64
0.583	1.00	6.667	1.64	12.750	6.74	18.83	1.64
0.667	1.00	6.750	1.64	12.833	6.74	18.92	1.64
0.750	1.00	6.833	1.64	12.917	6.74	19.00	1.64
0.833	1.00	6.917	1.64	13.000	6.74	19.08	1.64
0.917	1.00	7.000	1.64	13.083	6.74	19.17	1.64
1.000	1.00	7.083	1.64	13.167	6.74	19.25	1.64
1.083	1.00	7.167	1.64	13.250	4.92	19.33	1.64
1.167	1.00	7.250	2.00	13.333	4.92	19.42	1.64
1.250	1.00	7.333	2.00	13.417	4.92	19.50	1.64
1.333	1.00	7.417	2.00	13.500	4.92	19.58	1.64
1.417	1.00	7.500	2.00	13.583	4.92	19.67	1.64
1.500	1.00	7.583	2.00	13.667	4.92	19.75	1.64
1.583	1.00	7.667	2.00	13.750	3.83	19.83	1.64
1.667	1.00	7.750	2.00	13.833	3.83	19.92	1.64
1.750	1.00	7.833	2.00	13.917	3.83	20.00	1.64
1.833	1.00	7.917	2.00	14.000	3.83	20.08	1.64
1.917	1.00	8.000	2.00	14.083	3.83	20.17	1.64
2.000	1.00	8.083	2.00	14.167	3.83	20.25	1.09
2.083	1.00	8.167	2.00	14.250	2.73	20.33	1.09
2.167	1.00	8.250	2.37	14.333	2.73	20.42	1.09
2.250	1.18	8.333	2.37	14.417	2.73	20.50	1.09
2.333	1.18	8.417	2.37	14.500	2.73	20.58	1.09
2.417	1.18	8.500	2.37	14.583	2.73	20.67	1.09
2.500	1.18	8.583	2.37	14.667	2.73	20.75	1.09
2.583	1.18	8.667	2.37	14.750	2.73	20.83	1.09
2.667	1.18	8.750	2.55	14.833	2.73	20.92	1.09
2.750	1.18	8.833	2.55	14.917	2.73	21.00	1.09
2.833	1.18	8.917	2.55	15.000	2.73	21.08	1.09
2.917	1.18	9.000	2.55	15.083	2.73	21.17	1.09
3.000	1.18	9.083	2.55	15.167	2.73	21.25	1.09
3.083	1.18	9.167	2.55	15.250	2.73	21.33	1.09
3.167	1.18	9.250	2.92	15.333	2.73	21.42	1.09
3.250	1.18	9.333	2.92	15.417	2.73	21.50	1.09
3.333	1.18	9.417	2.92	15.500	2.73	21.58	1.09
3.417	1.18	9.500	2.92	15.583	2.73	21.67	1.09
3.500	1.18	9.583	2.92	15.667	2.73	21.75	1.09
3.583	1.18	9.667	2.92	15.750	2.73	21.83	1.09
3.667	1.18	9.750	3.28	15.833	2.73	21.92	1.09
3.750	1.18	9.833	3.28	15.917	2.73	22.00	1.09
3.833	1.18	9.917	3.28	16.000	2.73	22.08	1.09
3.917	1.18	10.000	3.28	16.083	2.73	22.17	1.09
4.000	1.18	10.083	3.28	16.167	2.73	22.25	1.09
4.083	1.18	10.167	3.28	16.250	1.64	22.33	1.09
4.167	1.18	10.250	4.19	16.333	1.64	22.42	1.09
4.250	1.46	10.333	4.19	16.417	1.64	22.50	1.09
4.333	1.46	10.417	4.19	16.500	1.64	22.58	1.09
4.417	1.46	10.500	4.19	16.583	1.64	22.67	1.09
4.500	1.46	10.583	4.19	16.667	1.64	22.75	1.09
4.583	1.46	10.667	4.19	16.750	1.64	22.83	1.09
4.667	1.46	10.750	5.65	16.833	1.64	22.92	1.09
4.750	1.46	10.833	5.65	16.917	1.64	23.00	1.09
4.833	1.46	10.917	5.65	17.000	1.64	23.08	1.09
4.917	1.46	11.000	5.65	17.083	1.64	23.17	1.09
5.000	1.46	11.083	5.65	17.167	1.64	23.25	1.09
5.083	1.46	11.167	5.65	17.250	1.64	23.33	1.09
5.167	1.46	11.250	8.75	17.333	1.64	23.42	1.09
5.250	1.46	11.333	8.75	17.417	1.64	23.50	1.09
5.333	1.46	11.417	8.75	17.500	1.64	23.58	1.09

5.417	1.46	11.500	8.75	17.583	1.64	23.67	1.09
5.500	1.46	11.583	8.75	17.667	1.64	23.75	1.09
5.583	1.46	11.667	8.75	17.750	1.64	23.83	1.09
5.667	1.46	11.750	26.96	17.833	1.64	23.92	1.09
5.750	1.46	11.833	26.97	17.917	1.64	24.00	1.09
5.833	1.46	11.917	69.23	18.000	1.64	24.08	1.09
5.917	1.46	12.000	69.24	18.083	1.64	24.17	1.09
6.000	1.46	12.083	111.50	18.167	1.64		
6.083	1.46	12.167	111.51	18.250	1.64		

Unit Hyd Qpeak (cms)= 0.151

PEAK FLOW (cms)= 0.072 (i)

TIME TO PEAK (hrs)= 12.500

RUNOFF VOLUME (mm)= 29.494

TOTAL RAINFALL (mm)= 91.100

RUNOFF COEFFICIENT = 0.324

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0008) | Area (ha)= 0.23 Curve Number (CN)= 32.0
 | ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.33

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.46	12.250	13.13	18.33	1.64
0.167	0.00	6.250	1.64	12.333	13.12	18.42	1.64
0.250	1.00	6.333	1.64	12.417	13.12	18.50	1.64
0.333	1.00	6.417	1.64	12.500	13.12	18.58	1.64
0.417	1.00	6.500	1.64	12.583	13.12	18.67	1.64
0.500	1.00	6.583	1.64	12.667	13.12	18.75	1.64
0.583	1.00	6.667	1.64	12.750	6.74	18.83	1.64
0.667	1.00	6.750	1.64	12.833	6.74	18.92	1.64
0.750	1.00	6.833	1.64	12.917	6.74	19.00	1.64
0.833	1.00	6.917	1.64	13.000	6.74	19.08	1.64
0.917	1.00	7.000	1.64	13.083	6.74	19.17	1.64
1.000	1.00	7.083	1.64	13.167	6.74	19.25	1.64
1.083	1.00	7.167	1.64	13.250	4.92	19.33	1.64
1.167	1.00	7.250	2.00	13.333	4.92	19.42	1.64
1.250	1.00	7.333	2.00	13.417	4.92	19.50	1.64
1.333	1.00	7.417	2.00	13.500	4.92	19.58	1.64
1.417	1.00	7.500	2.00	13.583	4.92	19.67	1.64
1.500	1.00	7.583	2.00	13.667	4.92	19.75	1.64
1.583	1.00	7.667	2.00	13.750	3.83	19.83	1.64
1.667	1.00	7.750	2.00	13.833	3.83	19.92	1.64
1.750	1.00	7.833	2.00	13.917	3.83	20.00	1.64
1.833	1.00	7.917	2.00	14.000	3.83	20.08	1.64
1.917	1.00	8.000	2.00	14.083	3.83	20.17	1.64
2.000	1.00	8.083	2.00	14.167	3.83	20.25	1.09
2.083	1.00	8.167	2.00	14.250	2.73	20.33	1.09
2.167	1.00	8.250	2.37	14.333	2.73	20.42	1.09
2.250	1.18	8.333	2.37	14.417	2.73	20.50	1.09
2.333	1.18	8.417	2.37	14.500	2.73	20.58	1.09
2.417	1.18	8.500	2.37	14.583	2.73	20.67	1.09
2.500	1.18	8.583	2.37	14.667	2.73	20.75	1.09
2.583	1.18	8.667	2.37	14.750	2.73	20.83	1.09
2.667	1.18	8.750	2.55	14.833	2.73	20.92	1.09
2.750	1.18	8.833	2.55	14.917	2.73	21.00	1.09
2.833	1.18	8.917	2.55	15.000	2.73	21.08	1.09
2.917	1.18	9.000	2.55	15.083	2.73	21.17	1.09
3.000	1.18	9.083	2.55	15.167	2.73	21.25	1.09
3.083	1.18	9.167	2.55	15.250	2.73	21.33	1.09
3.167	1.18	9.250	2.92	15.333	2.73	21.42	1.09
3.250	1.18	9.333	2.92	15.417	2.73	21.50	1.09
3.333	1.18	9.417	2.92	15.500	2.73	21.58	1.09

3.417	1.18	9.500	2.92	15.583	2.73	21.67	1.09
3.500	1.18	9.583	2.92	15.667	2.73	21.75	1.09
3.583	1.18	9.667	2.92	15.750	2.73	21.83	1.09
3.667	1.18	9.750	3.28	15.833	2.73	21.92	1.09
3.750	1.18	9.833	3.28	15.917	2.73	22.00	1.09
3.833	1.18	9.917	3.28	16.000	2.73	22.08	1.09
3.917	1.18	10.000	3.28	16.083	2.73	22.17	1.09
4.000	1.18	10.083	3.28	16.167	2.73	22.25	1.09
4.083	1.18	10.167	3.28	16.250	1.64	22.33	1.09
4.167	1.18	10.250	4.19	16.333	1.64	22.42	1.09
4.250	1.46	10.333	4.19	16.417	1.64	22.50	1.09
4.333	1.46	10.417	4.19	16.500	1.64	22.58	1.09
4.417	1.46	10.500	4.19	16.583	1.64	22.67	1.09
4.500	1.46	10.583	4.19	16.667	1.64	22.75	1.09
4.583	1.46	10.667	4.19	16.750	1.64	22.83	1.09
4.667	1.46	10.750	5.65	16.833	1.64	22.92	1.09
4.750	1.46	10.833	5.65	16.917	1.64	23.00	1.09
4.833	1.46	10.917	5.65	17.000	1.64	23.08	1.09
4.917	1.46	11.000	5.65	17.083	1.64	23.17	1.09
5.000	1.46	11.083	5.65	17.167	1.64	23.25	1.09
5.083	1.46	11.167	5.65	17.250	1.64	23.33	1.09
5.167	1.46	11.250	8.75	17.333	1.64	23.42	1.09
5.250	1.46	11.333	8.75	17.417	1.64	23.50	1.09
5.333	1.46	11.417	8.75	17.500	1.64	23.58	1.09
5.417	1.46	11.500	8.75	17.583	1.64	23.67	1.09
5.500	1.46	11.583	8.75	17.667	1.64	23.75	1.09
5.583	1.46	11.667	8.75	17.750	1.64	23.83	1.09
5.667	1.46	11.750	26.96	17.833	1.64	23.92	1.09
5.750	1.46	11.833	26.97	17.917	1.64	24.00	1.09
5.833	1.46	11.917	69.23	18.000	1.64	24.08	1.09
5.917	1.46	12.000	69.24	18.083	1.64	24.17	1.09
6.000	1.46	12.083	111.50	18.167	1.64		
6.083	1.46	12.167	111.51	18.250	1.64		

Unit Hyd Qpeak (cms)= 0.027

PEAK FLOW (cms)= 0.004 (i)

TIME TO PEAK (hrs)= 12.417

RUNOFF VOLUME (mm)= 10.588

TOTAL RAINFALL (mm)= 91.100

RUNOFF COEFFICIENT = 0.116

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0009) | Area (ha)= 1.11 Curve Number (CN)= 62.0
 | ID= 1 DT= 5.0 min | Ia (mm)= 7.00 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.34

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.46	12.250	13.13	18.33	1.64
0.167	0.00	6.250	1.64	12.333	13.12	18.42	1.64
0.250	1.00	6.333	1.64	12.417	13.12	18.50	1.64
0.333	1.00	6.417	1.64	12.500	13.12	18.58	1.64
0.417	1.00	6.500	1.64	12.583	13.12	18.67	1.64
0.500	1.00	6.583	1.64	12.667	13.12	18.75	1.64
0.583	1.00	6.667	1.64	12.750	6.74	18.83	1.64
0.667	1.00	6.750	1.64	12.833	6.74	18.92	1.64
0.750	1.00	6.833	1.64	12.917	6.74	19.00	1.64
0.833	1.00	6.917	1.64	13.000	6.74	19.08	1.64
0.917	1.00	7.000	1.64	13.083	6.74	19.17	1.64
1.000	1.00	7.083	1.64	13.167	6.74	19.25	1.64
1.083	1.00	7.167	1.64	13.250	4.92	19.33	1.64
1.167	1.00	7.250	2.00	13.333	4.92	19.42	1.64
1.250	1.00	7.333	2.00	13.417	4.92	19.50	1.64
1.333	1.00	7.417	2.00	13.500	4.92	19.58	1.64

1.417	1.00	7.500	2.00	13.583	4.92	19.67	1.64
1.500	1.00	7.583	2.00	13.667	4.92	19.75	1.64
1.583	1.00	7.667	2.00	13.750	3.83	19.83	1.64
1.667	1.00	7.750	2.00	13.833	3.83	19.92	1.64
1.750	1.00	7.833	2.00	13.917	3.83	20.00	1.64
1.833	1.00	7.917	2.00	14.000	3.83	20.08	1.64
1.917	1.00	8.000	2.00	14.083	3.83	20.17	1.64
2.000	1.00	8.083	2.00	14.167	3.83	20.25	1.09
2.083	1.00	8.167	2.00	14.250	2.73	20.33	1.09
2.167	1.00	8.250	2.37	14.333	2.73	20.42	1.09
2.250	1.18	8.333	2.37	14.417	2.73	20.50	1.09
2.333	1.18	8.417	2.37	14.500	2.73	20.58	1.09
2.417	1.18	8.500	2.37	14.583	2.73	20.67	1.09
2.500	1.18	8.583	2.37	14.667	2.73	20.75	1.09
2.583	1.18	8.667	2.37	14.750	2.73	20.83	1.09
2.667	1.18	8.750	2.55	14.833	2.73	20.92	1.09
2.750	1.18	8.833	2.55	14.917	2.73	21.00	1.09
2.833	1.18	8.917	2.55	15.000	2.73	21.08	1.09
2.917	1.18	9.000	2.55	15.083	2.73	21.17	1.09
3.000	1.18	9.083	2.55	15.167	2.73	21.25	1.09
3.083	1.18	9.167	2.55	15.250	2.73	21.33	1.09
3.167	1.18	9.250	2.92	15.333	2.73	21.42	1.09
3.250	1.18	9.333	2.92	15.417	2.73	21.50	1.09
3.333	1.18	9.417	2.92	15.500	2.73	21.58	1.09
3.417	1.18	9.500	2.92	15.583	2.73	21.67	1.09
3.500	1.18	9.583	2.92	15.667	2.73	21.75	1.09
3.583	1.18	9.667	2.92	15.750	2.73	21.83	1.09
3.667	1.18	9.750	3.28	15.833	2.73	21.92	1.09
3.750	1.18	9.833	3.28	15.917	2.73	22.00	1.09
3.833	1.18	9.917	3.28	16.000	2.73	22.08	1.09
3.917	1.18	10.000	3.28	16.083	2.73	22.17	1.09
4.000	1.18	10.083	3.28	16.167	2.73	22.25	1.09
4.083	1.18	10.167	3.28	16.250	1.64	22.33	1.09
4.167	1.18	10.250	4.19	16.333	1.64	22.42	1.09
4.250	1.46	10.333	4.19	16.417	1.64	22.50	1.09
4.333	1.46	10.417	4.19	16.500	1.64	22.58	1.09
4.417	1.46	10.500	4.19	16.583	1.64	22.67	1.09
4.500	1.46	10.583	4.19	16.667	1.64	22.75	1.09
4.583	1.46	10.667	4.19	16.750	1.64	22.83	1.09
4.667	1.46	10.750	5.65	16.833	1.64	22.92	1.09
4.750	1.46	10.833	5.65	16.917	1.64	23.00	1.09
4.833	1.46	10.917	5.65	17.000	1.64	23.08	1.09
4.917	1.46	11.000	5.65	17.083	1.64	23.17	1.09
5.000	1.46	11.083	5.65	17.167	1.64	23.25	1.09
5.083	1.46	11.167	5.65	17.250	1.64	23.33	1.09
5.167	1.46	11.250	8.75	17.333	1.64	23.42	1.09
5.250	1.46	11.333	8.75	17.417	1.64	23.50	1.09
5.333	1.46	11.417	8.75	17.500	1.64	23.58	1.09
5.417	1.46	11.500	8.75	17.583	1.64	23.67	1.09
5.500	1.46	11.583	8.75	17.667	1.64	23.75	1.09
5.583	1.46	11.667	8.75	17.750	1.64	23.83	1.09
5.667	1.46	11.750	26.96	17.833	1.64	23.92	1.09
5.750	1.46	11.833	26.97	17.917	1.64	24.00	1.09
5.833	1.46	11.917	69.23	18.000	1.64	24.08	1.09
5.917	1.46	12.000	69.24	18.083	1.64	24.17	1.09
6.000	1.46	12.083	111.50	18.167	1.64		
6.083	1.46	12.167	111.51	18.250	1.64		

Unit Hyd Qpeak (cms)= 0.125

PEAK FLOW (cms)= 0.055 (i)

TIME TO PEAK (hrs)= 12.417

RUNOFF VOLUME (mm)= 29.490

TOTAL RAINFALL (mm)= 91.100

RUNOFF COEFFICIENT = 0.324

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0010) | Area (ha)= 0.87 Curve Number (CN)= 32.0
 | ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00

----- U.H. Tp(hrs)= 0.24

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.46	12.250	13.13	18.33	1.64
0.167	0.00	6.250	1.64	12.333	13.12	18.42	1.64
0.250	1.00	6.333	1.64	12.417	13.12	18.50	1.64
0.333	1.00	6.417	1.64	12.500	13.12	18.58	1.64
0.417	1.00	6.500	1.64	12.583	13.12	18.67	1.64
0.500	1.00	6.583	1.64	12.667	13.12	18.75	1.64
0.583	1.00	6.667	1.64	12.750	6.74	18.83	1.64
0.667	1.00	6.750	1.64	12.833	6.74	18.92	1.64
0.750	1.00	6.833	1.64	12.917	6.74	19.00	1.64
0.833	1.00	6.917	1.64	13.000	6.74	19.08	1.64
0.917	1.00	7.000	1.64	13.083	6.74	19.17	1.64
1.000	1.00	7.083	1.64	13.167	6.74	19.25	1.64
1.083	1.00	7.167	1.64	13.250	4.92	19.33	1.64
1.167	1.00	7.250	2.00	13.333	4.92	19.42	1.64
1.250	1.00	7.333	2.00	13.417	4.92	19.50	1.64
1.333	1.00	7.417	2.00	13.500	4.92	19.58	1.64
1.417	1.00	7.500	2.00	13.583	4.92	19.67	1.64
1.500	1.00	7.583	2.00	13.667	4.92	19.75	1.64
1.583	1.00	7.667	2.00	13.750	3.83	19.83	1.64
1.667	1.00	7.750	2.00	13.833	3.83	19.92	1.64
1.750	1.00	7.833	2.00	13.917	3.83	20.00	1.64
1.833	1.00	7.917	2.00	14.000	3.83	20.08	1.64
1.917	1.00	8.000	2.00	14.083	3.83	20.17	1.64
2.000	1.00	8.083	2.00	14.167	3.83	20.25	1.09
2.083	1.00	8.167	2.00	14.250	2.73	20.33	1.09
2.167	1.00	8.250	2.37	14.333	2.73	20.42	1.09
2.250	1.18	8.333	2.37	14.417	2.73	20.50	1.09
2.333	1.18	8.417	2.37	14.500	2.73	20.58	1.09
2.417	1.18	8.500	2.37	14.583	2.73	20.67	1.09
2.500	1.18	8.583	2.37	14.667	2.73	20.75	1.09
2.583	1.18	8.667	2.37	14.750	2.73	20.83	1.09
2.667	1.18	8.750	2.55	14.833	2.73	20.92	1.09
2.750	1.18	8.833	2.55	14.917	2.73	21.00	1.09
2.833	1.18	8.917	2.55	15.000	2.73	21.08	1.09
2.917	1.18	9.000	2.55	15.083	2.73	21.17	1.09
3.000	1.18	9.083	2.55	15.167	2.73	21.25	1.09
3.083	1.18	9.167	2.55	15.250	2.73	21.33	1.09
3.167	1.18	9.250	2.92	15.333	2.73	21.42	1.09
3.250	1.18	9.333	2.92	15.417	2.73	21.50	1.09
3.333	1.18	9.417	2.92	15.500	2.73	21.58	1.09
3.417	1.18	9.500	2.92	15.583	2.73	21.67	1.09
3.500	1.18	9.583	2.92	15.667	2.73	21.75	1.09
3.583	1.18	9.667	2.92	15.750	2.73	21.83	1.09
3.667	1.18	9.750	3.28	15.833	2.73	21.92	1.09
3.750	1.18	9.833	3.28	15.917	2.73	22.00	1.09
3.833	1.18	9.917	3.28	16.000	2.73	22.08	1.09
3.917	1.18	10.000	3.28	16.083	2.73	22.17	1.09
4.000	1.18	10.083	3.28	16.167	2.73	22.25	1.09
4.083	1.18	10.167	3.28	16.250	1.64	22.33	1.09
4.167	1.18	10.250	4.19	16.333	1.64	22.42	1.09
4.250	1.46	10.333	4.19	16.417	1.64	22.50	1.09
4.333	1.46	10.417	4.19	16.500	1.64	22.58	1.09
4.417	1.46	10.500	4.19	16.583	1.64	22.67	1.09
4.500	1.46	10.583	4.19	16.667	1.64	22.75	1.09
4.583	1.46	10.667	4.19	16.750	1.64	22.83	1.09
4.667	1.46	10.750	5.65	16.833	1.64	22.92	1.09
4.750	1.46	10.833	5.65	16.917	1.64	23.00	1.09
4.833	1.46	10.917	5.65	17.000	1.64	23.08	1.09
4.917	1.46	11.000	5.65	17.083	1.64	23.17	1.09
5.000	1.46	11.083	5.65	17.167	1.64	23.25	1.09
5.083	1.46	11.167	5.65	17.250	1.64	23.33	1.09
5.167	1.46	11.250	8.75	17.333	1.64	23.42	1.09
5.250	1.46	11.333	8.75	17.417	1.64	23.50	1.09
5.333	1.46	11.417	8.75	17.500	1.64	23.58	1.09
5.417	1.46	11.500	8.75	17.583	1.64	23.67	1.09

5.500	1.46	11.583	8.75	17.667	1.64	23.75	1.09
5.583	1.46	11.667	8.75	17.750	1.64	23.83	1.09
5.667	1.46	11.750	26.96	17.833	1.64	23.92	1.09
5.750	1.46	11.833	26.97	17.917	1.64	24.00	1.09
5.833	1.46	11.917	69.23	18.000	1.64	24.08	1.09
5.917	1.46	12.000	69.24	18.083	1.64	24.17	1.09
6.000	1.46	12.083	111.50	18.167	1.64		
6.083	1.46	12.167	111.51	18.250	1.64		

Unit Hyd Qpeak (cms)= 0.138

PEAK FLOW (cms)= 0.019 (i)
 TIME TO PEAK (hrs)= 12.250
 RUNOFF VOLUME (mm)= 10.583
 TOTAL RAINFALL (mm)= 91.100
 RUNOFF COEFFICIENT = 0.116

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0011)| Area (ha)= 3.37 Curve Number (CN)= 31.2
 | ID= 1 DT= 5.0 min | Ia (mm)= 7.52 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.21

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN		TIME	RAIN		TIME	RAIN		TIME	RAIN		TIME	RAIN
hrs	mm/hr		hrs	mm/hr		hrs	mm/hr		hrs	mm/hr		hrs	mm/hr
0.083	0.00		6.167	1.46		12.250	13.13		18.33	1.64			
0.167	0.00		6.250	1.64		12.333	13.12		18.42	1.64			
0.250	1.00		6.333	1.64		12.417	13.12		18.50	1.64			
0.333	1.00		6.417	1.64		12.500	13.12		18.58	1.64			
0.417	1.00		6.500	1.64		12.583	13.12		18.67	1.64			
0.500	1.00		6.583	1.64		12.667	13.12		18.75	1.64			
0.583	1.00		6.667	1.64		12.750	6.74		18.83	1.64			
0.667	1.00		6.750	1.64		12.833	6.74		18.92	1.64			
0.750	1.00		6.833	1.64		12.917	6.74		19.00	1.64			
0.833	1.00		6.917	1.64		13.000	6.74		19.08	1.64			
0.917	1.00		7.000	1.64		13.083	6.74		19.17	1.64			
1.000	1.00		7.083	1.64		13.167	6.74		19.25	1.64			
1.083	1.00		7.167	1.64		13.250	4.92		19.33	1.64			
1.167	1.00		7.250	2.00		13.333	4.92		19.42	1.64			
1.250	1.00		7.333	2.00		13.417	4.92		19.50	1.64			
1.333	1.00		7.417	2.00		13.500	4.92		19.58	1.64			
1.417	1.00		7.500	2.00		13.583	4.92		19.67	1.64			
1.500	1.00		7.583	2.00		13.667	4.92		19.75	1.64			
1.583	1.00		7.667	2.00		13.750	3.83		19.83	1.64			
1.667	1.00		7.750	2.00		13.833	3.83		19.92	1.64			
1.750	1.00		7.833	2.00		13.917	3.83		20.00	1.64			
1.833	1.00		7.917	2.00		14.000	3.83		20.08	1.64			
1.917	1.00		8.000	2.00		14.083	3.83		20.17	1.64			
2.000	1.00		8.083	2.00		14.167	3.83		20.25	1.09			
2.083	1.00		8.167	2.00		14.250	2.73		20.33	1.09			
2.167	1.00		8.250	2.37		14.333	2.73		20.42	1.09			
2.250	1.18		8.333	2.37		14.417	2.73		20.50	1.09			
2.333	1.18		8.417	2.37		14.500	2.73		20.58	1.09			
2.417	1.18		8.500	2.37		14.583	2.73		20.67	1.09			
2.500	1.18		8.583	2.37		14.667	2.73		20.75	1.09			
2.583	1.18		8.667	2.37		14.750	2.73		20.83	1.09			
2.667	1.18		8.750	2.55		14.833	2.73		20.92	1.09			
2.750	1.18		8.833	2.55		14.917	2.73		21.00	1.09			
2.833	1.18		8.917	2.55		15.000	2.73		21.08	1.09			
2.917	1.18		9.000	2.55		15.083	2.73		21.17	1.09			
3.000	1.18		9.083	2.55		15.167	2.73		21.25	1.09			
3.083	1.18		9.167	2.55		15.250	2.73		21.33	1.09			
3.167	1.18		9.250	2.92		15.333	2.73		21.42	1.09			
3.250	1.18		9.333	2.92		15.417	2.73		21.50	1.09			
3.333	1.18		9.417	2.92		15.500	2.73		21.58	1.09			
3.417	1.18		9.500	2.92		15.583	2.73		21.67	1.09			

3.500	1.18	9.583	2.92	15.667	2.73	21.75	1.09
3.583	1.18	9.667	2.92	15.750	2.73	21.83	1.09
3.667	1.18	9.750	3.28	15.833	2.73	21.92	1.09
3.750	1.18	9.833	3.28	15.917	2.73	22.00	1.09
3.833	1.18	9.917	3.28	16.000	2.73	22.08	1.09
3.917	1.18	10.000	3.28	16.083	2.73	22.17	1.09
4.000	1.18	10.083	3.28	16.167	2.73	22.25	1.09
4.083	1.18	10.167	3.28	16.250	1.64	22.33	1.09
4.167	1.18	10.250	4.19	16.333	1.64	22.42	1.09
4.250	1.46	10.333	4.19	16.417	1.64	22.50	1.09
4.333	1.46	10.417	4.19	16.500	1.64	22.58	1.09
4.417	1.46	10.500	4.19	16.583	1.64	22.67	1.09
4.500	1.46	10.583	4.19	16.667	1.64	22.75	1.09
4.583	1.46	10.667	4.19	16.750	1.64	22.83	1.09
4.667	1.46	10.750	5.65	16.833	1.64	22.92	1.09
4.750	1.46	10.833	5.65	16.917	1.64	23.00	1.09
4.833	1.46	10.917	5.65	17.000	1.64	23.08	1.09
4.917	1.46	11.000	5.65	17.083	1.64	23.17	1.09
5.000	1.46	11.083	5.65	17.167	1.64	23.25	1.09
5.083	1.46	11.167	5.65	17.250	1.64	23.33	1.09
5.167	1.46	11.250	8.75	17.333	1.64	23.42	1.09
5.250	1.46	11.333	8.75	17.417	1.64	23.50	1.09
5.333	1.46	11.417	8.75	17.500	1.64	23.58	1.09
5.417	1.46	11.500	8.75	17.583	1.64	23.67	1.09
5.500	1.46	11.583	8.75	17.667	1.64	23.75	1.09
5.583	1.46	11.667	8.75	17.750	1.64	23.83	1.09
5.667	1.46	11.750	26.96	17.833	1.64	23.92	1.09
5.750	1.46	11.833	26.97	17.917	1.64	24.00	1.09
5.833	1.46	11.917	69.23	18.000	1.64	24.08	1.09
5.917	1.46	12.000	69.24	18.083	1.64	24.17	1.09
6.000	1.46	12.083	111.50	18.167	1.64		
6.083	1.46	12.167	111.51	18.250	1.64		

Unit Hyd Qpeak (cms)= 0.613

PEAK FLOW (cms)= 0.082 (i)
TIME TO PEAK (hrs)= 12.250
RUNOFF VOLUME (mm)= 10.835
TOTAL RAINFALL (mm)= 91.100
RUNOFF COEFFICIENT = 0.119

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

| ADD HYD ( 0017)|
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
|----- (ha) (cms) (hrs) (mm)
ID1= 1 ( 0010): 0.87 0.019 12.25 10.58
+ ID2= 2 ( 0011): 3.37 0.082 12.25 10.84
=====
ID = 3 ( 0017): 4.24 0.101 12.25 10.78

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

| ADD HYD ( 0017)|
| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
|----- (ha) (cms) (hrs) (mm)
ID1= 3 ( 0017): 4.24 0.101 12.25 10.78
+ ID2= 2 ( 0009): 1.11 0.055 12.42 29.49
=====
ID = 1 ( 0017): 5.35 0.151 12.25 14.66

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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| CALIB |
| NASHYD ( 0012)| Area (ha)= 1.60 Curve Number (CN)= 49.7
| ID= 1 DT= 5.0 min | Ia (mm)= 8.23 # of Linear Res.(N)= 3.00
|----- U.H. Tp(hrs)= 0.24

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.46	12.250	13.13	18.33	1.64
0.167	0.00	6.250	1.64	12.333	13.12	18.42	1.64
0.250	1.00	6.333	1.64	12.417	13.12	18.50	1.64
0.333	1.00	6.417	1.64	12.500	13.12	18.58	1.64
0.417	1.00	6.500	1.64	12.583	13.12	18.67	1.64
0.500	1.00	6.583	1.64	12.667	13.12	18.75	1.64
0.583	1.00	6.667	1.64	12.750	6.74	18.83	1.64
0.667	1.00	6.750	1.64	12.833	6.74	18.92	1.64
0.750	1.00	6.833	1.64	12.917	6.74	19.00	1.64
0.833	1.00	6.917	1.64	13.000	6.74	19.08	1.64
0.917	1.00	7.000	1.64	13.083	6.74	19.17	1.64
1.000	1.00	7.083	1.64	13.167	6.74	19.25	1.64
1.083	1.00	7.167	1.64	13.250	4.92	19.33	1.64
1.167	1.00	7.250	2.00	13.333	4.92	19.42	1.64
1.250	1.00	7.333	2.00	13.417	4.92	19.50	1.64
1.333	1.00	7.417	2.00	13.500	4.92	19.58	1.64
1.417	1.00	7.500	2.00	13.583	4.92	19.67	1.64
1.500	1.00	7.583	2.00	13.667	4.92	19.75	1.64
1.583	1.00	7.667	2.00	13.750	3.83	19.83	1.64
1.667	1.00	7.750	2.00	13.833	3.83	19.92	1.64
1.750	1.00	7.833	2.00	13.917	3.83	20.00	1.64
1.833	1.00	7.917	2.00	14.000	3.83	20.08	1.64
1.917	1.00	8.000	2.00	14.083	3.83	20.17	1.64
2.000	1.00	8.083	2.00	14.167	3.83	20.25	1.09
2.083	1.00	8.167	2.00	14.250	2.73	20.33	1.09
2.167	1.00	8.250	2.37	14.333	2.73	20.42	1.09
2.250	1.18	8.333	2.37	14.417	2.73	20.50	1.09
2.333	1.18	8.417	2.37	14.500	2.73	20.58	1.09
2.417	1.18	8.500	2.37	14.583	2.73	20.67	1.09
2.500	1.18	8.583	2.37	14.667	2.73	20.75	1.09
2.583	1.18	8.667	2.37	14.750	2.73	20.83	1.09
2.667	1.18	8.750	2.55	14.833	2.73	20.92	1.09
2.750	1.18	8.833	2.55	14.917	2.73	21.00	1.09
2.833	1.18	8.917	2.55	15.000	2.73	21.08	1.09
2.917	1.18	9.000	2.55	15.083	2.73	21.17	1.09
3.000	1.18	9.083	2.55	15.167	2.73	21.25	1.09
3.083	1.18	9.167	2.55	15.250	2.73	21.33	1.09
3.167	1.18	9.250	2.92	15.333	2.73	21.42	1.09
3.250	1.18	9.333	2.92	15.417	2.73	21.50	1.09
3.333	1.18	9.417	2.92	15.500	2.73	21.58	1.09
3.417	1.18	9.500	2.92	15.583	2.73	21.67	1.09
3.500	1.18	9.583	2.92	15.667	2.73	21.75	1.09
3.583	1.18	9.667	2.92	15.750	2.73	21.83	1.09
3.667	1.18	9.750	3.28	15.833	2.73	21.92	1.09
3.750	1.18	9.833	3.28	15.917	2.73	22.00	1.09
3.833	1.18	9.917	3.28	16.000	2.73	22.08	1.09
3.917	1.18	10.000	3.28	16.083	2.73	22.17	1.09
4.000	1.18	10.083	3.28	16.167	2.73	22.25	1.09
4.083	1.18	10.167	3.28	16.250	1.64	22.33	1.09
4.167	1.18	10.250	4.19	16.333	1.64	22.42	1.09
4.250	1.46	10.333	4.19	16.417	1.64	22.50	1.09
4.333	1.46	10.417	4.19	16.500	1.64	22.58	1.09
4.417	1.46	10.500	4.19	16.583	1.64	22.67	1.09
4.500	1.46	10.583	4.19	16.667	1.64	22.75	1.09
4.583	1.46	10.667	4.19	16.750	1.64	22.83	1.09
4.667	1.46	10.750	5.65	16.833	1.64	22.92	1.09
4.750	1.46	10.833	5.65	16.917	1.64	23.00	1.09
4.833	1.46	10.917	5.65	17.000	1.64	23.08	1.09
4.917	1.46	11.000	5.65	17.083	1.64	23.17	1.09
5.000	1.46	11.083	5.65	17.167	1.64	23.25	1.09
5.083	1.46	11.167	5.65	17.250	1.64	23.33	1.09
5.167	1.46	11.250	8.75	17.333	1.64	23.42	1.09
5.250	1.46	11.333	8.75	17.417	1.64	23.50	1.09
5.333	1.46	11.417	8.75	17.500	1.64	23.58	1.09
5.417	1.46	11.500	8.75	17.583	1.64	23.67	1.09
5.500	1.46	11.583	8.75	17.667	1.64	23.75	1.09

5.583	1.46	11.667	8.75	17.750	1.64	23.83	1.09
5.667	1.46	11.750	26.96	17.833	1.64	23.92	1.09
5.750	1.46	11.833	26.97	17.917	1.64	24.00	1.09
5.833	1.46	11.917	69.23	18.000	1.64	24.08	1.09
5.917	1.46	12.000	69.24	18.083	1.64	24.17	1.09
6.000	1.46	12.083	111.50	18.167	1.64		
6.083	1.46	12.167	111.51	18.250	1.64		

Unit Hyd Qpeak (cms)= 0.255

PEAK FLOW (cms)= 0.068 (i)
TIME TO PEAK (hrs)= 12.250
RUNOFF VOLUME (mm)= 20.183
TOTAL RAINFALL (mm)= 91.100
RUNOFF COEFFICIENT = 0.222

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0013)| Area (ha)= 12.11 Curve Number (CN)= 48.1
| ID= 1 DT= 5.0 min | Ia (mm)= 11.30 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.55

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.46	12.250	13.13	18.33	1.64
0.167	0.00	6.250	1.64	12.333	13.12	18.42	1.64
0.250	1.00	6.333	1.64	12.417	13.12	18.50	1.64
0.333	1.00	6.417	1.64	12.500	13.12	18.58	1.64
0.417	1.00	6.500	1.64	12.583	13.12	18.67	1.64
0.500	1.00	6.583	1.64	12.667	13.12	18.75	1.64
0.583	1.00	6.667	1.64	12.750	6.74	18.83	1.64
0.667	1.00	6.750	1.64	12.833	6.74	18.92	1.64
0.750	1.00	6.833	1.64	12.917	6.74	19.00	1.64
0.833	1.00	6.917	1.64	13.000	6.74	19.08	1.64
0.917	1.00	7.000	1.64	13.083	6.74	19.17	1.64
1.000	1.00	7.083	1.64	13.167	6.74	19.25	1.64
1.083	1.00	7.167	1.64	13.250	4.92	19.33	1.64
1.167	1.00	7.250	2.00	13.333	4.92	19.42	1.64
1.250	1.00	7.333	2.00	13.417	4.92	19.50	1.64
1.333	1.00	7.417	2.00	13.500	4.92	19.58	1.64
1.417	1.00	7.500	2.00	13.583	4.92	19.67	1.64
1.500	1.00	7.583	2.00	13.667	4.92	19.75	1.64
1.583	1.00	7.667	2.00	13.750	3.83	19.83	1.64
1.667	1.00	7.750	2.00	13.833	3.83	19.92	1.64
1.750	1.00	7.833	2.00	13.917	3.83	20.00	1.64
1.833	1.00	7.917	2.00	14.000	3.83	20.08	1.64
1.917	1.00	8.000	2.00	14.083	3.83	20.17	1.64
2.000	1.00	8.083	2.00	14.167	3.83	20.25	1.09
2.083	1.00	8.167	2.00	14.250	2.73	20.33	1.09
2.167	1.00	8.250	2.37	14.333	2.73	20.42	1.09
2.250	1.18	8.333	2.37	14.417	2.73	20.50	1.09
2.333	1.18	8.417	2.37	14.500	2.73	20.58	1.09
2.417	1.18	8.500	2.37	14.583	2.73	20.67	1.09
2.500	1.18	8.583	2.37	14.667	2.73	20.75	1.09
2.583	1.18	8.667	2.37	14.750	2.73	20.83	1.09
2.667	1.18	8.750	2.55	14.833	2.73	20.92	1.09
2.750	1.18	8.833	2.55	14.917	2.73	21.00	1.09
2.833	1.18	8.917	2.55	15.000	2.73	21.08	1.09
2.917	1.18	9.000	2.55	15.083	2.73	21.17	1.09
3.000	1.18	9.083	2.55	15.167	2.73	21.25	1.09
3.083	1.18	9.167	2.55	15.250	2.73	21.33	1.09
3.167	1.18	9.250	2.92	15.333	2.73	21.42	1.09
3.250	1.18	9.333	2.92	15.417	2.73	21.50	1.09
3.333	1.18	9.417	2.92	15.500	2.73	21.58	1.09
3.417	1.18	9.500	2.92	15.583	2.73	21.67	1.09
3.500	1.18	9.583	2.92	15.667	2.73	21.75	1.09

3.583	1.18	9.667	2.92	15.750	2.73	21.83	1.09
3.667	1.18	9.750	3.28	15.833	2.73	21.92	1.09
3.750	1.18	9.833	3.28	15.917	2.73	22.00	1.09
3.833	1.18	9.917	3.28	16.000	2.73	22.08	1.09
3.917	1.18	10.000	3.28	16.083	2.73	22.17	1.09
4.000	1.18	10.083	3.28	16.167	2.73	22.25	1.09
4.083	1.18	10.167	3.28	16.250	1.64	22.33	1.09
4.167	1.18	10.250	4.19	16.333	1.64	22.42	1.09
4.250	1.46	10.333	4.19	16.417	1.64	22.50	1.09
4.333	1.46	10.417	4.19	16.500	1.64	22.58	1.09
4.417	1.46	10.500	4.19	16.583	1.64	22.67	1.09
4.500	1.46	10.583	4.19	16.667	1.64	22.75	1.09
4.583	1.46	10.667	4.19	16.750	1.64	22.83	1.09
4.667	1.46	10.750	5.65	16.833	1.64	22.92	1.09
4.750	1.46	10.833	5.65	16.917	1.64	23.00	1.09
4.833	1.46	10.917	5.65	17.000	1.64	23.08	1.09
4.917	1.46	11.000	5.65	17.083	1.64	23.17	1.09
5.000	1.46	11.083	5.65	17.167	1.64	23.25	1.09
5.083	1.46	11.167	5.65	17.250	1.64	23.33	1.09
5.167	1.46	11.250	8.75	17.333	1.64	23.42	1.09
5.250	1.46	11.333	8.75	17.417	1.64	23.50	1.09
5.333	1.46	11.417	8.75	17.500	1.64	23.58	1.09
5.417	1.46	11.500	8.75	17.583	1.64	23.67	1.09
5.500	1.46	11.583	8.75	17.667	1.64	23.75	1.09
5.583	1.46	11.667	8.75	17.750	1.64	23.83	1.09
5.667	1.46	11.750	26.96	17.833	1.64	23.92	1.09
5.750	1.46	11.833	26.97	17.917	1.64	24.00	1.09
5.833	1.46	11.917	69.23	18.000	1.64	24.08	1.09
5.917	1.46	12.000	69.24	18.083	1.64	24.17	1.09
6.000	1.46	12.083	111.50	18.167	1.64		
6.083	1.46	12.167	111.51	18.250	1.64		

Unit Hyd Qpeak (cms)= 0.841

PEAK FLOW (cms)= 0.253 (i)

TIME TO PEAK (hrs)= 12.667

RUNOFF VOLUME (mm)= 17.995

TOTAL RAINFALL (mm)= 91.100

RUNOFF COEFFICIENT = 0.198

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |

| NASHYD (0014) | Area (ha)= 14.45 Curve Number (CN)= 32.0

| ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00

----- U.H. Tp(hrs)= 0.81

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN		TIME	RAIN		TIME	RAIN		TIME	RAIN
hrs	mm/hr		hrs	mm/hr		hrs	mm/hr		hrs	mm/hr
0.083	0.00	6.167	1.46	12.250	13.13	18.33	1.64			
0.167	0.00	6.250	1.64	12.333	13.12	18.42	1.64			
0.250	1.00	6.333	1.64	12.417	13.12	18.50	1.64			
0.333	1.00	6.417	1.64	12.500	13.12	18.58	1.64			
0.417	1.00	6.500	1.64	12.583	13.12	18.67	1.64			
0.500	1.00	6.583	1.64	12.667	13.12	18.75	1.64			
0.583	1.00	6.667	1.64	12.750	6.74	18.83	1.64			
0.667	1.00	6.750	1.64	12.833	6.74	18.92	1.64			
0.750	1.00	6.833	1.64	12.917	6.74	19.00	1.64			
0.833	1.00	6.917	1.64	13.000	6.74	19.08	1.64			
0.917	1.00	7.000	1.64	13.083	6.74	19.17	1.64			
1.000	1.00	7.083	1.64	13.167	6.74	19.25	1.64			
1.083	1.00	7.167	1.64	13.250	4.92	19.33	1.64			
1.167	1.00	7.250	2.00	13.333	4.92	19.42	1.64			
1.250	1.00	7.333	2.00	13.417	4.92	19.50	1.64			
1.333	1.00	7.417	2.00	13.500	4.92	19.58	1.64			
1.417	1.00	7.500	2.00	13.583	4.92	19.67	1.64			
1.500	1.00	7.583	2.00	13.667	4.92	19.75	1.64			

1.583	1.00	7.667	2.00	13.750	3.83	19.83	1.64
1.667	1.00	7.750	2.00	13.833	3.83	19.92	1.64
1.750	1.00	7.833	2.00	13.917	3.83	20.00	1.64
1.833	1.00	7.917	2.00	14.000	3.83	20.08	1.64
1.917	1.00	8.000	2.00	14.083	3.83	20.17	1.64
2.000	1.00	8.083	2.00	14.167	3.83	20.25	1.09
2.083	1.00	8.167	2.00	14.250	2.73	20.33	1.09
2.167	1.00	8.250	2.37	14.333	2.73	20.42	1.09
2.250	1.18	8.333	2.37	14.417	2.73	20.50	1.09
2.333	1.18	8.417	2.37	14.500	2.73	20.58	1.09
2.417	1.18	8.500	2.37	14.583	2.73	20.67	1.09
2.500	1.18	8.583	2.37	14.667	2.73	20.75	1.09
2.583	1.18	8.667	2.37	14.750	2.73	20.83	1.09
2.667	1.18	8.750	2.55	14.833	2.73	20.92	1.09
2.750	1.18	8.833	2.55	14.917	2.73	21.00	1.09
2.833	1.18	8.917	2.55	15.000	2.73	21.08	1.09
2.917	1.18	9.000	2.55	15.083	2.73	21.17	1.09
3.000	1.18	9.083	2.55	15.167	2.73	21.25	1.09
3.083	1.18	9.167	2.55	15.250	2.73	21.33	1.09
3.167	1.18	9.250	2.92	15.333	2.73	21.42	1.09
3.250	1.18	9.333	2.92	15.417	2.73	21.50	1.09
3.333	1.18	9.417	2.92	15.500	2.73	21.58	1.09
3.417	1.18	9.500	2.92	15.583	2.73	21.67	1.09
3.500	1.18	9.583	2.92	15.667	2.73	21.75	1.09
3.583	1.18	9.667	2.92	15.750	2.73	21.83	1.09
3.667	1.18	9.750	3.28	15.833	2.73	21.92	1.09
3.750	1.18	9.833	3.28	15.917	2.73	22.00	1.09
3.833	1.18	9.917	3.28	16.000	2.73	22.08	1.09
3.917	1.18	10.000	3.28	16.083	2.73	22.17	1.09
4.000	1.18	10.083	3.28	16.167	2.73	22.25	1.09
4.083	1.18	10.167	3.28	16.250	1.64	22.33	1.09
4.167	1.18	10.250	4.19	16.333	1.64	22.42	1.09
4.250	1.46	10.333	4.19	16.417	1.64	22.50	1.09
4.333	1.46	10.417	4.19	16.500	1.64	22.58	1.09
4.417	1.46	10.500	4.19	16.583	1.64	22.67	1.09
4.500	1.46	10.583	4.19	16.667	1.64	22.75	1.09
4.583	1.46	10.667	4.19	16.750	1.64	22.83	1.09
4.667	1.46	10.750	5.65	16.833	1.64	22.92	1.09
4.750	1.46	10.833	5.65	16.917	1.64	23.00	1.09
4.833	1.46	10.917	5.65	17.000	1.64	23.08	1.09
4.917	1.46	11.000	5.65	17.083	1.64	23.17	1.09
5.000	1.46	11.083	5.65	17.167	1.64	23.25	1.09
5.083	1.46	11.167	5.65	17.250	1.64	23.33	1.09
5.167	1.46	11.250	8.75	17.333	1.64	23.42	1.09
5.250	1.46	11.333	8.75	17.417	1.64	23.50	1.09
5.333	1.46	11.417	8.75	17.500	1.64	23.58	1.09
5.417	1.46	11.500	8.75	17.583	1.64	23.67	1.09
5.500	1.46	11.583	8.75	17.667	1.64	23.75	1.09
5.583	1.46	11.667	8.75	17.750	1.64	23.83	1.09
5.667	1.46	11.750	26.96	17.833	1.64	23.92	1.09
5.750	1.46	11.833	26.97	17.917	1.64	24.00	1.09
5.833	1.46	11.917	69.23	18.000	1.64	24.08	1.09
5.917	1.46	12.000	69.24	18.083	1.64	24.17	1.09
6.000	1.46	12.083	111.50	18.167	1.64		
6.083	1.46	12.167	111.51	18.250	1.64		

Unit Hyd Qpeak (cms)= 0.681

PEAK FLOW (cms)= 0.131 (i)

TIME TO PEAK (hrs)= 13.000

RUNOFF VOLUME (mm)= 10.594

TOTAL RAINFALL (mm)= 91.100

RUNOFF COEFFICIENT = 0.116

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

|ADD HYD (0019)|

| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.

----- (ha) (cms) (hrs) (mm)

ID1= 1 (0001): 2.64 0.035 12.75 12.58

+ ID2= 2 (0012): 1.60 0.068 12.25 20.18
=====

ID = 3 (0019):	4.24	0.091	12.33	15.45

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|

3 + 2 = 1	AREA	QPEAK	TPEAK	R.V.
-----	(ha)	(cms)	(hrs)	(mm)
ID1= 3 (0019):	4.24	0.091	12.33	15.45
+ ID2= 2 (0013):	12.11	0.253	12.67	17.99
=====				
ID = 1 (0019):	16.35	0.324	12.58	17.33

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|

1 + 2 = 3	AREA	QPEAK	TPEAK	R.V.
-----	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0019):	16.35	0.324	12.58	17.33
+ ID2= 2 (0014):	14.45	0.131	13.00	10.59
=====				
ID = 3 (0019):	30.80	0.438	12.67	14.17

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|

3 + 2 = 1	AREA	QPEAK	TPEAK	R.V.
-----	(ha)	(cms)	(hrs)	(mm)
ID1= 3 (0019):	30.80	0.438	12.67	14.17
+ ID2= 2 (0016):	3.21	0.076	12.25	16.32
=====				
ID = 1 (0019):	34.01	0.494	12.67	14.37

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|

1 + 2 = 3	AREA	QPEAK	TPEAK	R.V.
-----	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0019):	34.01	0.494	12.67	14.37
+ ID2= 2 (0017):	5.35	0.151	12.25	14.66
=====				
ID = 3 (0019):	39.36	0.598	12.50	14.41

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|

3 + 2 = 1	AREA	QPEAK	TPEAK	R.V.
-----	(ha)	(cms)	(hrs)	(mm)
ID1= 3 (0019):	39.36	0.598	12.50	14.41
+ ID2= 2 (0002):	1.25	0.038	12.25	13.73
=====				
ID = 1 (0019):	40.61	0.626	12.42	14.39

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|

1 + 2 = 3	AREA	QPEAK	TPEAK	R.V.
-----	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0019):	40.61	0.626	12.42	14.39
+ ID2= 2 (0005):	9.65	0.097	12.83	10.59

=====

ID = 3 (0019):	50.26	0.701	12.50	13.66

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ADD HYD (0019)					
3 + 2 = 1	AREA	QPEAK	TPEAK	R.V.	
-----	(ha)	(cms)	(hrs)	(mm)	
ID1= 3 (0019):	50.26	0.701	12.50	13.66	
+ ID2= 2 (0006):	1.82	0.034	12.33	10.59	

=====

ID = 1 (0019):	52.08	0.731	12.50	13.56

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ADD HYD (0019)					
1 + 2 = 3	AREA	QPEAK	TPEAK	R.V.	
-----	(ha)	(cms)	(hrs)	(mm)	
ID1= 1 (0019):	52.08	0.731	12.50	13.56	
+ ID2= 2 (0007):	1.70	0.072	12.50	29.49	

=====

ID = 3 (0019):	53.78	0.803	12.50	14.06

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ADD HYD (0019)					
3 + 2 = 1	AREA	QPEAK	TPEAK	R.V.	
-----	(ha)	(cms)	(hrs)	(mm)	
ID1= 3 (0019):	53.78	0.803	12.50	14.06	
+ ID2= 2 (0008):	0.23	0.004	12.42	10.59	

=====

ID = 1 (0019):	54.01	0.807	12.50	14.05

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

=====

V V I	SSSSS	U U	A L	(v 6.2.2015)
V V I	SS	U U	AA L	
V V I	SS	U U	AAAAA L	
V V I	SS	U U	A A L	
VV I	SSSSS	UUUUU	A A LLLLL	

OOO	TTTTT	TTTTT	H H Y Y M M	OOO	TM
O O T	T H H	YY	MMMM	O O	
O O T	T H H	Y M M	O O		
OOO	T T H H	Y M M	OOO		

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***** DETAILED OUTPUT *****

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.2\VO2\voain.dat

Output filename: C:\Users\ajoshi\AppData\Local\Civica\XH5\152aa03f-7064-4fdb-bb4c-0cf677e1e463\cc3954a2-9cc5-402a-a0ec-cc00be6927f1\scena

Summary filename: C:\Users\ajoshi\AppData\Local\Civica\XH5\152aa03f-7064-4fdb-bb4c-0cf677e1e463\cc3954a2-9cc5-402a-a0ec-cc00be6927f1\scena

DATE: 04-25-2025

TIME: 03:57:18

USER:

COMMENTS: _____

used in: $INTENSITY = A / (t + B)^C$

Time to peak ratio = 0.33

U.H. Tp(hrs)= 0.41

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

1.000	7.98	2.000	9.40	3.000	3.42	4.00	2.47

Unit Hyd Q_{peak} (cms)= 0.302

RUNOFF COEFFICIENT = 0.032

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

U.H. Tp(hrs)= 0.61

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	2.78	1.083	13.16	2.083	5.50	3.08	3.20
0.167	2.78	1.167	13.16	2.167	5.50	3.17	3.20
0.250	3.11	1.250	76.28	2.250	4.86	3.25	3.02
0.333	3.11	1.333	76.28	2.333	4.86	3.33	3.02
0.417	3.55	1.417	16.15	2.417	4.37	3.42	2.86
0.500	3.55	1.500	16.15	2.500	4.37	3.50	2.86
0.583	4.18	1.583	10.18	2.583	3.99	3.58	2.71
0.667	4.18	1.667	10.18	2.667	3.99	3.67	2.71
0.750	5.17	1.750	7.77	2.750	3.68	3.75	2.59
0.833	5.17	1.833	7.77	2.833	3.68	3.83	2.59
0.917	7.08	1.917	6.40	2.917	3.42	3.92	2.47
1.000	7.08	2.000	6.40	3.000	3.42	4.00	2.47

Unit Hyd Qpeak (cms)= 0.165

PEAK FLOW (cms)= 0.003 (i)
 TIME TO PEAK (hrs)= 2.333
 RUNOFF VOLUME (mm)= 1.179
 TOTAL RAINFALL (mm)= 33.076
 RUNOFF COEFFICIENT = 0.036

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0002) | Area (ha)= 1.25 Curve Number (CN)= 38.5
 | ID= 1 DT= 5.0 min | la (mm)= 9.23 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.22

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	2.78	1.083	13.16	2.083	5.50	3.08	3.20
0.167	2.78	1.167	13.16	2.167	5.50	3.17	3.20
0.250	3.11	1.250	76.28	2.250	4.86	3.25	3.02
0.333	3.11	1.333	76.28	2.333	4.86	3.33	3.02
0.417	3.55	1.417	16.15	2.417	4.37	3.42	2.86
0.500	3.55	1.500	16.15	2.500	4.37	3.50	2.86
0.583	4.18	1.583	10.18	2.583	3.99	3.58	2.71
0.667	4.18	1.667	10.18	2.667	3.99	3.67	2.71
0.750	5.17	1.750	7.77	2.750	3.68	3.75	2.59
0.833	5.17	1.833	7.77	2.833	3.68	3.83	2.59
0.917	7.08	1.917	6.40	2.917	3.42	3.92	2.47
1.000	7.08	2.000	6.40	3.000	3.42	4.00	2.47

Unit Hyd Qpeak (cms)= 0.217

PEAK FLOW (cms)= 0.003 (i)
 TIME TO PEAK (hrs)= 1.583
 RUNOFF VOLUME (mm)= 1.322
 TOTAL RAINFALL (mm)= 33.076
 RUNOFF COEFFICIENT = 0.040

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0003) | Area (ha)= 2.55 Curve Number (CN)= 36.9
 | ID= 1 DT= 5.0 min | la (mm)= 9.42 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.49

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	2.78	1.083	13.16	2.083	5.50	3.08	3.20
0.167	2.78	1.167	13.16	2.167	5.50	3.17	3.20
0.250	3.11	1.250	76.28	2.250	4.86	3.25	3.02
0.333	3.11	1.333	76.28	2.333	4.86	3.33	3.02
0.417	3.55	1.417	16.15	2.417	4.37	3.42	2.86
0.500	3.55	1.500	16.15	2.500	4.37	3.50	2.86
0.583	4.18	1.583	10.18	2.583	3.99	3.58	2.71
0.667	4.18	1.667	10.18	2.667	3.99	3.67	2.71
0.750	5.17	1.750	7.77	2.750	3.68	3.75	2.59
0.833	5.17	1.833	7.77	2.833	3.68	3.83	2.59
0.917	7.08	1.917	6.40	2.917	3.42	3.92	2.47
1.000	7.08	2.000	6.40	3.000	3.42	4.00	2.47

Unit Hyd Qpeak (cms)= 0.199

PEAK FLOW (cms)= 0.004 (i)
TIME TO PEAK (hrs)= 2.083
RUNOFF VOLUME (mm)= 1.221
TOTAL RAINFALL (mm)= 33.076
RUNOFF COEFFICIENT = 0.037

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0004) | Area (ha)= 0.66 Curve Number (CN)= 62.0
| ID= 1 DT= 5.0 min | Ia (mm)= 7.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.19

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	2.78	1.083	13.16	2.083	5.50	3.08	3.20
0.167	2.78	1.167	13.16	2.167	5.50	3.17	3.20
0.250	3.11	1.250	76.28	2.250	4.86	3.25	3.02
0.333	3.11	1.333	76.28	2.333	4.86	3.33	3.02
0.417	3.55	1.417	16.15	2.417	4.37	3.42	2.86
0.500	3.55	1.500	16.15	2.500	4.37	3.50	2.86
0.583	4.18	1.583	10.18	2.583	3.99	3.58	2.71
0.667	4.18	1.667	10.18	2.667	3.99	3.67	2.71
0.750	5.17	1.750	7.77	2.750	3.68	3.75	2.59
0.833	5.17	1.833	7.77	2.833	3.68	3.83	2.59
0.917	7.08	1.917	6.40	2.917	3.42	3.92	2.47
1.000	7.08	2.000	6.40	3.000	3.42	4.00	2.47

Unit Hyd Qpeak (cms)= 0.133

PEAK FLOW (cms)= 0.006 (i)
TIME TO PEAK (hrs)= 1.500
RUNOFF VOLUME (mm)= 3.732
TOTAL RAINFALL (mm)= 33.076
RUNOFF COEFFICIENT = 0.113

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| ADD HYD (0016) |
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 1 (0003): 2.55 0.004 2.08 1.22
+ ID2= 2 (0004): 0.66 0.006 1.50 3.73
=====

ID = 3 (0016):	3.21	0.008	1.58	1.74

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| CALIB |
| NASHYD (0005) | Area (ha)= 9.65 Curve Number (CN)= 32.0
| ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.71

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----
TIME RAIN | TIME RAIN |' TIME RAIN | TIME RAIN
hrs mm/hr | hrs mm/hr |' hrs mm/hr | hrs mm/hr
0.083 2.78 | 1.083 13.16 | 2.083 5.50 | 3.08 3.20
0.167 2.78 | 1.167 13.16 | 2.167 5.50 | 3.17 3.20
0.250 3.11 | 1.250 76.28 | 2.250 4.86 | 3.25 3.02
0.333 3.11 | 1.333 76.28 | 2.333 4.86 | 3.33 3.02
0.417 3.55 | 1.417 16.15 | 2.417 4.37 | 3.42 2.86
0.500 3.55 | 1.500 16.15 | 2.500 4.37 | 3.50 2.86
0.583 4.18 | 1.583 10.18 | 2.583 3.99 | 3.58 2.71
0.667 4.18 | 1.667 10.18 | 2.667 3.99 | 3.67 2.71
0.750 5.17 | 1.750 7.77 | 2.750 3.68 | 3.75 2.59
0.833 5.17 | 1.833 7.77 | 2.833 3.68 | 3.83 2.59
0.917 7.08 | 1.917 6.40 | 2.917 3.42 | 3.92 2.47
1.000 7.08 | 2.000 6.40 | 3.000 3.42 | 4.00 2.47

Unit Hyd Qpeak (cms)= 0.519

PEAK FLOW (cms)= 0.009 (i)
TIME TO PEAK (hrs)= 2.583
RUNOFF VOLUME (mm)= 0.946
TOTAL RAINFALL (mm)= 33.076
RUNOFF COEFFICIENT = 0.029

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0006) | Area (ha)= 1.82 Curve Number (CN)= 32.0
| ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.30

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----
TIME RAIN | TIME RAIN |' TIME RAIN | TIME RAIN
hrs mm/hr | hrs mm/hr |' hrs mm/hr | hrs mm/hr
0.083 2.78 | 1.083 13.16 | 2.083 5.50 | 3.08 3.20
0.167 2.78 | 1.167 13.16 | 2.167 5.50 | 3.17 3.20
0.250 3.11 | 1.250 76.28 | 2.250 4.86 | 3.25 3.02
0.333 3.11 | 1.333 76.28 | 2.333 4.86 | 3.33 3.02
0.417 3.55 | 1.417 16.15 | 2.417 4.37 | 3.42 2.86
0.500 3.55 | 1.500 16.15 | 2.500 4.37 | 3.50 2.86
0.583 4.18 | 1.583 10.18 | 2.583 3.99 | 3.58 2.71
0.667 4.18 | 1.667 10.18 | 2.667 3.99 | 3.67 2.71
0.750 5.17 | 1.750 7.77 | 2.750 3.68 | 3.75 2.59
0.833 5.17 | 1.833 7.77 | 2.833 3.68 | 3.83 2.59
0.917 7.08 | 1.917 6.40 | 2.917 3.42 | 3.92 2.47
1.000 7.08 | 2.000 6.40 | 3.000 3.42 | 4.00 2.47

Unit Hyd Qpeak (cms)= 0.232

PEAK FLOW (cms)= 0.003 (i)
TIME TO PEAK (hrs)= 1.750
RUNOFF VOLUME (mm)= 0.945
TOTAL RAINFALL (mm)= 33.076
RUNOFF COEFFICIENT = 0.029

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0007)| Area (ha)= 1.70 Curve Number (CN)= 62.0
|ID= 1 DT= 5.0 min | Ia (mm)= 7.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.43

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----
TIME RAIN | TIME RAIN |' TIME RAIN | TIME RAIN
hrs mm/hr | hrs mm/hr |' hrs mm/hr | hrs mm/hr
0.083 2.78 | 1.083 13.16 | 2.083 5.50 | 3.08 3.20
0.167 2.78 | 1.167 13.16 | 2.167 5.50 | 3.17 3.20
0.250 3.11 | 1.250 76.28 | 2.250 4.86 | 3.25 3.02
0.333 3.11 | 1.333 76.28 | 2.333 4.86 | 3.33 3.02
0.417 3.55 | 1.417 16.15 | 2.417 4.37 | 3.42 2.86
0.500 3.55 | 1.500 16.15 | 2.500 4.37 | 3.50 2.86
0.583 4.18 | 1.583 10.18 | 2.583 3.99 | 3.58 2.71
0.667 4.18 | 1.667 10.18 | 2.667 3.99 | 3.67 2.71
0.750 5.17 | 1.750 7.77 | 2.750 3.68 | 3.75 2.59
0.833 5.17 | 1.833 7.77 | 2.833 3.68 | 3.83 2.59
0.917 7.08 | 1.917 6.40 | 2.917 3.42 | 3.92 2.47
1.000 7.08 | 2.000 6.40 | 3.000 3.42 | 4.00 2.47

Unit Hyd Qpeak (cms)= 0.151

PEAK FLOW (cms)= 0.009 (i)
TIME TO PEAK (hrs)= 1.917
RUNOFF VOLUME (mm)= 3.740
TOTAL RAINFALL (mm)= 33.076
RUNOFF COEFFICIENT = 0.113

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0008)| Area (ha)= 0.23 Curve Number (CN)= 32.0
|ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.33

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----
TIME RAIN | TIME RAIN |' TIME RAIN | TIME RAIN
hrs mm/hr | hrs mm/hr |' hrs mm/hr | hrs mm/hr
0.083 2.78 | 1.083 13.16 | 2.083 5.50 | 3.08 3.20
0.167 2.78 | 1.167 13.16 | 2.167 5.50 | 3.17 3.20
0.250 3.11 | 1.250 76.28 | 2.250 4.86 | 3.25 3.02
0.333 3.11 | 1.333 76.28 | 2.333 4.86 | 3.33 3.02
0.417 3.55 | 1.417 16.15 | 2.417 4.37 | 3.42 2.86
0.500 3.55 | 1.500 16.15 | 2.500 4.37 | 3.50 2.86
0.583 4.18 | 1.583 10.18 | 2.583 3.99 | 3.58 2.71
0.667 4.18 | 1.667 10.18 | 2.667 3.99 | 3.67 2.71
0.750 5.17 | 1.750 7.77 | 2.750 3.68 | 3.75 2.59
0.833 5.17 | 1.833 7.77 | 2.833 3.68 | 3.83 2.59
0.917 7.08 | 1.917 6.40 | 2.917 3.42 | 3.92 2.47
1.000 7.08 | 2.000 6.40 | 3.000 3.42 | 4.00 2.47

Unit Hyd Qpeak (cms)= 0.027

PEAK FLOW (cms)= 0.000 (i)
TIME TO PEAK (hrs)= 1.833
RUNOFF VOLUME (mm)= 0.942
TOTAL RAINFALL (mm)= 33.076
RUNOFF COEFFICIENT = 0.028

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0009) | Area (ha)= 1.11 Curve Number (CN)= 62.0
| ID= 1 DT= 5.0 min | Ia (mm)= 7.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.34

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----
TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN
hrs mm/hr | hrs mm/hr | hrs mm/hr | hrs mm/hr
0.083 2.78 | 1.083 13.16 | 2.083 5.50 | 3.08 3.20
0.167 2.78 | 1.167 13.16 | 2.167 5.50 | 3.17 3.20
0.250 3.11 | 1.250 76.28 | 2.250 4.86 | 3.25 3.02
0.333 3.11 | 1.333 76.28 | 2.333 4.86 | 3.33 3.02
0.417 3.55 | 1.417 16.15 | 2.417 4.37 | 3.42 2.86
0.500 3.55 | 1.500 16.15 | 2.500 4.37 | 3.50 2.86
0.583 4.18 | 1.583 10.18 | 2.583 3.99 | 3.58 2.71
0.667 4.18 | 1.667 10.18 | 2.667 3.99 | 3.67 2.71
0.750 5.17 | 1.750 7.77 | 2.750 3.68 | 3.75 2.59
0.833 5.17 | 1.833 7.77 | 2.833 3.68 | 3.83 2.59
0.917 7.08 | 1.917 6.40 | 2.917 3.42 | 3.92 2.47
1.000 7.08 | 2.000 6.40 | 3.000 3.42 | 4.00 2.47

Unit Hyd Qpeak (cms)= 0.125

PEAK FLOW (cms)= 0.007 (i)
TIME TO PEAK (hrs)= 1.750
RUNOFF VOLUME (mm)= 3.740
TOTAL RAINFALL (mm)= 33.076
RUNOFF COEFFICIENT = 0.113

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0010) | Area (ha)= 0.87 Curve Number (CN)= 32.0
| ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.24

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----
TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN
hrs mm/hr | hrs mm/hr | hrs mm/hr | hrs mm/hr
0.083 2.78 | 1.083 13.16 | 2.083 5.50 | 3.08 3.20
0.167 2.78 | 1.167 13.16 | 2.167 5.50 | 3.17 3.20
0.250 3.11 | 1.250 76.28 | 2.250 4.86 | 3.25 3.02
0.333 3.11 | 1.333 76.28 | 2.333 4.86 | 3.33 3.02
0.417 3.55 | 1.417 16.15 | 2.417 4.37 | 3.42 2.86
0.500 3.55 | 1.500 16.15 | 2.500 4.37 | 3.50 2.86
0.583 4.18 | 1.583 10.18 | 2.583 3.99 | 3.58 2.71
0.667 4.18 | 1.667 10.18 | 2.667 3.99 | 3.67 2.71
0.750 5.17 | 1.750 7.77 | 2.750 3.68 | 3.75 2.59
0.833 5.17 | 1.833 7.77 | 2.833 3.68 | 3.83 2.59
0.917 7.08 | 1.917 6.40 | 2.917 3.42 | 3.92 2.47
1.000 7.08 | 2.000 6.40 | 3.000 3.42 | 4.00 2.47

Unit Hyd Qpeak (cms)= 0.138

PEAK FLOW (cms)= 0.001 (i)
TIME TO PEAK (hrs)= 1.667
RUNOFF VOLUME (mm)= 0.945
TOTAL RAINFALL (mm)= 33.076
RUNOFF COEFFICIENT = 0.029

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |

| NASHYD (0011)| Area (ha)= 3.37 Curve Number (CN)= 31.2
|ID= 1 DT= 5.0 min| Ia (mm)= 7.52 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.21

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----
TIME RAIN| TIME RAIN|' TIME RAIN| TIME RAIN
hrs mm/hr| hrs mm/hr|' hrs mm/hr| hrs mm/hr
0.083 2.78|1.083 13.16|2.083 5.50| 3.08 3.20
0.167 2.78|1.167 13.16|2.167 5.50| 3.17 3.20
0.250 3.11|1.250 76.28|2.250 4.86| 3.25 3.02
0.333 3.11|1.333 76.28|2.333 4.86| 3.33 3.02
0.417 3.55|1.417 16.15|2.417 4.37| 3.42 2.86
0.500 3.55|1.500 16.15|2.500 4.37| 3.50 2.86
0.583 4.18|1.583 10.18|2.583 3.99| 3.58 2.71
0.667 4.18|1.667 10.18|2.667 3.99| 3.67 2.71
0.750 5.17|1.750 7.77|2.750 3.68| 3.75 2.59
0.833 5.17|1.833 7.77|2.833 3.68| 3.83 2.59
0.917 7.08|1.917 6.40|2.917 3.42| 3.92 2.47
1.000 7.08|2.000 6.40|3.000 3.42| 4.00 2.47

Unit Hyd Qpeak (cms)= 0.613

PEAK FLOW (cms)= 0.008 (i)
TIME TO PEAK (hrs)= 1.583
RUNOFF VOLUME (mm)= 1.113
TOTAL RAINFALL (mm)= 33.076
RUNOFF COEFFICIENT = 0.034

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| ADD HYD (0017)|
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 1 (0010): 0.87 0.001 1.67 0.94
+ ID2= 2 (0011): 3.37 0.008 1.58 1.11
=====

ID = 3 (0017): 4.24 0.009 1.58 1.08

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0017)|
| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 3 (0017): 4.24 0.009 1.58 1.08
+ ID2= 2 (0009): 1.11 0.007 1.75 3.74
=====

ID = 1 (0017): 5.35 0.015 1.67 1.63

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| CALIB |
| NASHYD (0012)| Area (ha)= 1.60 Curve Number (CN)= 49.7
|ID= 1 DT= 5.0 min| Ia (mm)= 8.23 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.24

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----
TIME RAIN| TIME RAIN|' TIME RAIN| TIME RAIN
hrs mm/hr| hrs mm/hr|' hrs mm/hr| hrs mm/hr
0.083 2.78|1.083 13.16|2.083 5.50| 3.08 3.20
0.167 2.78|1.167 13.16|2.167 5.50| 3.17 3.20
0.250 3.11|1.250 76.28|2.250 4.86| 3.25 3.02

0.333	3.11		1.333	76.28		2.333	4.86		3.33	3.02
0.417	3.55		1.417	16.15		2.417	4.37		3.42	2.86
0.500	3.55		1.500	16.15		2.500	4.37		3.50	2.86
0.583	4.18		1.583	10.18		2.583	3.99		3.58	2.71
0.667	4.18		1.667	10.18		2.667	3.99		3.67	2.71
0.750	5.17		1.750	7.77		2.750	3.68		3.75	2.59
0.833	5.17		1.833	7.77		2.833	3.68		3.83	2.59
0.917	7.08		1.917	6.40		2.917	3.42		3.92	2.47
1.000	7.08		2.000	6.40		3.000	3.42		4.00	2.47

Unit Hyd Qpeak (cms)= 0.255

PEAK FLOW (cms)= 0.006 (i)

TIME TO PEAK (hrs)= 1.583

RUNOFF VOLUME (mm)= 2.187

TOTAL RAINFALL (mm)= 33.076

RUNOFF COEFFICIENT = 0.066

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0013) | Area (ha)= 12.11 Curve Number (CN)= 48.1
| ID= 1 DT= 5.0 min | Ia (mm)= 11.30 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.55

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN		TIME	RAIN		TIME	RAIN		TIME	RAIN
hrs	mm/hr		hrs	mm/hr		hrs	mm/hr		hrs	mm/hr
0.083	2.78		1.083	13.16		2.083	5.50		3.08	3.20
0.167	2.78		1.167	13.16		2.167	5.50		3.17	3.20
0.250	3.11		1.250	76.28		2.250	4.86		3.25	3.02
0.333	3.11		1.333	76.28		2.333	4.86		3.33	3.02
0.417	3.55		1.417	16.15		2.417	4.37		3.42	2.86
0.500	3.55		1.500	16.15		2.500	4.37		3.50	2.86
0.583	4.18		1.583	10.18		2.583	3.99		3.58	2.71
0.667	4.18		1.667	10.18		2.667	3.99		3.67	2.71
0.750	5.17		1.750	7.77		2.750	3.68		3.75	2.59
0.833	5.17		1.833	7.77		2.833	3.68		3.83	2.59
0.917	7.08		1.917	6.40		2.917	3.42		3.92	2.47
1.000	7.08		2.000	6.40		3.000	3.42		4.00	2.47

Unit Hyd Qpeak (cms)= 0.841

PEAK FLOW (cms)= 0.022 (i)

TIME TO PEAK (hrs)= 2.333

RUNOFF VOLUME (mm)= 1.603

TOTAL RAINFALL (mm)= 33.076

RUNOFF COEFFICIENT = 0.048

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0014) | Area (ha)= 14.45 Curve Number (CN)= 32.0
| ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.81

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN		TIME	RAIN		TIME	RAIN		TIME	RAIN
hrs	mm/hr		hrs	mm/hr		hrs	mm/hr		hrs	mm/hr
0.083	2.78		1.083	13.16		2.083	5.50		3.08	3.20
0.167	2.78		1.167	13.16		2.167	5.50		3.17	3.20
0.250	3.11		1.250	76.28		2.250	4.86		3.25	3.02
0.333	3.11		1.333	76.28		2.333	4.86		3.33	3.02

0.417	3.55		1.417	16.15		2.417	4.37		3.42	2.86
0.500	3.55		1.500	16.15		2.500	4.37		3.50	2.86
0.583	4.18		1.583	10.18		2.583	3.99		3.58	2.71
0.667	4.18		1.667	10.18		2.667	3.99		3.67	2.71
0.750	5.17		1.750	7.77		2.750	3.68		3.75	2.59
0.833	5.17		1.833	7.77		2.833	3.68		3.83	2.59
0.917	7.08		1.917	6.40		2.917	3.42		3.92	2.47
1.000	7.08		2.000	6.40		3.000	3.42		4.00	2.47

Unit Hyd Qpeak (cms)= 0.681

PEAK FLOW (cms)= 0.013 (i)

TIME TO PEAK (hrs)= 2.750

RUNOFF VOLUME (mm)= 0.946

TOTAL RAINFALL (mm)= 33.076

RUNOFF COEFFICIENT = 0.029

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| ADD HYD (0019)|
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 1 (0001): 2.64 0.003 2.33 1.18
+ ID2= 2 (0012): 1.60 0.006 1.58 2.19
=====

ID = 3 (0019): 4.24 0.008 1.75 1.56

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 3 (0019): 4.24 0.008 1.75 1.56
+ ID2= 2 (0013): 12.11 0.022 2.33 1.60
=====

ID = 1 (0019): 16.35 0.029 2.25 1.59

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 1 (0019): 16.35 0.029 2.25 1.59
+ ID2= 2 (0014): 14.45 0.013 2.75 0.95
=====

ID = 3 (0019): 30.80 0.041 2.42 1.29

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 3 (0019): 30.80 0.041 2.42 1.29
+ ID2= 2 (0016): 3.21 0.008 1.58 1.74
=====

ID = 1 (0019): 34.01 0.047 2.33 1.33

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)

ID1= 1 (0019): 34.01 0.047 2.33 1.33
+ ID2= 2 (0017): 5.35 0.015 1.67 1.63

=====

ID = 3 (0019): 39.36 0.056 2.17 1.37

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|

| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)

ID1= 3 (0019): 39.36 0.056 2.17 1.37

+ ID2= 2 (0002): 1.25 0.003 1.58 1.32

=====

ID = 1 (0019): 40.61 0.058 2.17 1.37

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|

| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)

ID1= 1 (0019): 40.61 0.058 2.17 1.37

+ ID2= 2 (0005): 9.65 0.009 2.58 0.95

=====

ID = 3 (0019): 50.26 0.066 2.25 1.29

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|

| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)

ID1= 3 (0019): 50.26 0.066 2.25 1.29

+ ID2= 2 (0006): 1.82 0.003 1.75 0.95

=====

ID = 1 (0019): 52.08 0.068 2.17 1.28

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|

| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)

ID1= 1 (0019): 52.08 0.068 2.17 1.28

+ ID2= 2 (0007): 1.70 0.009 1.92 3.74

=====

ID = 3 (0019): 53.78 0.077 2.08 1.35

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|

| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)

ID1= 3 (0019): 53.78 0.077 2.08 1.35

+ ID2= 2 (0008): 0.23 0.000 1.83 0.94

=====

ID = 1 (0019): 54.01 0.077 2.08 1.35

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

FINISH

=====

=====

V V I SSSSS U U A L (v 6.2.2015)
V V I SS U U AA L
V V I SS U U AAAAA L
V V I SS U U A A L
VV I SSSSS UUUUU A A LLLLL

OOO TTTT TTTT H H Y Y M M OOO TM
O O T T H H YY MM MM O O
O O T T H H Y M M O O
OOO T T H H Y M M OOO

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***** DETAILED OUTPUT*****

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.2\VO2\voain.dat
Output filename: C:\Users\ajoshi\AppData\Local\Civica\XH5\152aa03f-7064-4fdb-bb4c-0cf677e1e463\29b00fc-c552-4670-a72c-c40cce1f5c33\scena
Summary filename: C:\Users\ajoshi\AppData\Local\Civica\XH5\152aa03f-7064-4fdb-bb4c-0cf677e1e463\29b00fc-c552-4670-a72c-c40cce1f5c33\scena

DATE: 04-25-2025 TIME: 03:57:18

USER:

COMMENTS: _____

** SIMULATION : 25yr 24hr 10min SCS Type II (**

| READ STORM | Filename: C:\Users\ajoshi\AppData
| | ata\Local\Temp\
| | 2e45309f-1d89-4d82-bfac-9f33c63413d7\7d889c5e
| Ptotal=106.98 mm | Comments: 25yr 24hr 10min SCS Type II (MTO)

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.00	0.00	6.17	1.93	12.33	15.41	18.50	1.93
0.17	1.18	6.33	1.93	12.50	15.41	18.67	1.93
0.33	1.18	6.50	1.93	12.67	7.92	18.83	1.93
0.50	1.18	6.67	1.93	12.83	7.92	19.00	1.93
0.67	1.18	6.83	1.93	13.00	7.92	19.17	1.93
0.83	1.18	7.00	1.93	13.17	5.78	19.33	1.93
1.00	1.18	7.17	2.35	13.33	5.78	19.50	1.93
1.17	1.18	7.33	2.35	13.50	5.78	19.67	1.93
1.33	1.18	7.50	2.35	13.67	4.49	19.83	1.93
1.50	1.18	7.67	2.35	13.83	4.49	20.00	1.93
1.67	1.18	7.83	2.35	14.00	4.49	20.17	1.28
1.83	1.18	8.00	2.35	14.17	3.21	20.33	1.28
2.00	1.18	8.17	2.78	14.33	3.21	20.50	1.28
2.17	1.39	8.33	2.78	14.50	3.21	20.67	1.28
2.33	1.39	8.50	2.78	14.67	3.21	20.83	1.28
2.50	1.39	8.67	3.00	14.83	3.21	21.00	1.28
2.67	1.39	8.83	3.00	15.00	3.21	21.17	1.28
2.83	1.39	9.00	3.00	15.17	3.21	21.33	1.28
3.00	1.39	9.17	3.42	15.33	3.21	21.50	1.28
3.17	1.39	9.33	3.42	15.50	3.21	21.67	1.28
3.33	1.39	9.50	3.42	15.67	3.21	21.83	1.28
3.50	1.39	9.67	3.85	15.83	3.21	22.00	1.28
3.67	1.39	9.83	3.85	16.00	3.21	22.17	1.28
3.83	1.39	10.00	3.85	16.17	1.93	22.33	1.28
4.00	1.39	10.17	4.92	16.33	1.93	22.50	1.28
4.17	1.71	10.33	4.92	16.50	1.93	22.67	1.28
4.33	1.71	10.50	4.92	16.67	1.93	22.83	1.28

4.50	1.71		10.67	6.63		16.83	1.93		23.00	1.28
4.67	1.71		10.83	6.63		17.00	1.93		23.17	1.28
4.83	1.71		11.00	6.63		17.17	1.93		23.33	1.28
5.00	1.71		11.17	10.27		17.33	1.93		23.50	1.28
5.17	1.71		11.33	10.27		17.50	1.93		23.67	1.28
5.33	1.71		11.50	10.27		17.67	1.93		23.83	1.28
5.50	1.71		11.67	31.67		17.83	1.93		24.00	1.28
5.67	1.71		11.83	81.30		18.00	1.93			
5.83	1.71		12.00	130.94		18.17	1.93			
6.00	1.71		12.17	15.41		18.33	1.93			

```

-----
| CALIB      |
| NASHYD ( 0015)| Area (ha)= 3.24 Curve Number (CN)= 37.0
|ID= 1 DT= 5.0 min| la (mm)= 11.14 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.41

```

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

```

---- TRANSFORMED HYETOGRAPH ----
TIME RAIN| TIME RAIN|' TIME RAIN| TIME RAIN
hrs mm/hr| hrs mm/hr|' hrs mm/hr| hrs mm/hr
0.083 0.00|6.167 1.71|12.250 15.42| 18.33 1.93
0.167 0.00|6.250 1.93|12.333 15.41| 18.42 1.93
0.250 1.18|6.333 1.93|12.417 15.41| 18.50 1.93
0.333 1.18|6.417 1.93|12.500 15.41| 18.58 1.93
0.417 1.18|6.500 1.93|12.583 15.41| 18.67 1.93
0.500 1.18|6.583 1.93|12.667 15.41| 18.75 1.93
0.583 1.18|6.667 1.93|12.750 7.92| 18.83 1.93
0.667 1.18|6.750 1.93|12.833 7.92| 18.92 1.93
0.750 1.18|6.833 1.93|12.917 7.92| 19.00 1.93
0.833 1.18|6.917 1.93|13.000 7.92| 19.08 1.93
0.917 1.18|7.000 1.93|13.083 7.92| 19.17 1.93
1.000 1.18|7.083 1.93|13.167 7.92| 19.25 1.93
1.083 1.18|7.167 1.93|13.250 5.78| 19.33 1.93
1.167 1.18|7.250 2.35|13.333 5.78| 19.42 1.93
1.250 1.18|7.333 2.35|13.417 5.78| 19.50 1.93
1.333 1.18|7.417 2.35|13.500 5.78| 19.58 1.93
1.417 1.18|7.500 2.35|13.583 5.78| 19.67 1.93
1.500 1.18|7.583 2.35|13.667 5.78| 19.75 1.93
1.583 1.18|7.667 2.35|13.750 4.49| 19.83 1.93
1.667 1.18|7.750 2.35|13.833 4.49| 19.92 1.93
1.750 1.18|7.833 2.35|13.917 4.49| 20.00 1.93
1.833 1.18|7.917 2.35|14.000 4.49| 20.08 1.93
1.917 1.18|8.000 2.35|14.083 4.49| 20.17 1.93
2.000 1.18|8.083 2.35|14.167 4.49| 20.25 1.28
2.083 1.18|8.167 2.35|14.250 3.21| 20.33 1.28
2.167 1.18|8.250 2.78|14.333 3.21| 20.42 1.28
2.250 1.39|8.333 2.78|14.417 3.21| 20.50 1.28
2.333 1.39|8.417 2.78|14.500 3.21| 20.58 1.28
2.417 1.39|8.500 2.78|14.583 3.21| 20.67 1.28
2.500 1.39|8.583 2.78|14.667 3.21| 20.75 1.28
2.583 1.39|8.667 2.78|14.750 3.21| 20.83 1.28
2.667 1.39|8.750 3.00|14.833 3.21| 20.92 1.28
2.750 1.39|8.833 3.00|14.917 3.21| 21.00 1.28
2.833 1.39|8.917 3.00|15.000 3.21| 21.08 1.28
2.917 1.39|9.000 3.00|15.083 3.21| 21.17 1.28
3.000 1.39|9.083 3.00|15.167 3.21| 21.25 1.28
3.083 1.39|9.167 3.00|15.250 3.21| 21.33 1.28
3.167 1.39|9.250 3.42|15.333 3.21| 21.42 1.28
3.250 1.39|9.333 3.42|15.417 3.21| 21.50 1.28
3.333 1.39|9.417 3.42|15.500 3.21| 21.58 1.28
3.417 1.39|9.500 3.42|15.583 3.21| 21.67 1.28
3.500 1.39|9.583 3.42|15.667 3.21| 21.75 1.28
3.583 1.39|9.667 3.42|15.750 3.21| 21.83 1.28
3.667 1.39|9.750 3.85|15.833 3.21| 21.92 1.28
3.750 1.39|9.833 3.85|15.917 3.21| 22.00 1.28
3.833 1.39|9.917 3.85|16.000 3.21| 22.08 1.28
3.917 1.39|10.000 3.85|16.083 3.21| 22.17 1.28
4.000 1.39|10.083 3.85|16.167 3.21| 22.25 1.28

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4.083	1.39	10.167	3.85	16.250	1.93	22.33	1.28
4.167	1.39	10.250	4.92	16.333	1.93	22.42	1.28
4.250	1.71	10.333	4.92	16.417	1.93	22.50	1.28
4.333	1.71	10.417	4.92	16.500	1.93	22.58	1.28
4.417	1.71	10.500	4.92	16.583	1.93	22.67	1.28
4.500	1.71	10.583	4.92	16.667	1.93	22.75	1.28
4.583	1.71	10.667	4.92	16.750	1.93	22.83	1.28
4.667	1.71	10.750	6.63	16.833	1.93	22.92	1.28
4.750	1.71	10.833	6.63	16.917	1.93	23.00	1.28
4.833	1.71	10.917	6.63	17.000	1.93	23.08	1.28
4.917	1.71	11.000	6.63	17.083	1.93	23.17	1.28
5.000	1.71	11.083	6.63	17.167	1.93	23.25	1.28
5.083	1.71	11.167	6.63	17.250	1.93	23.33	1.28
5.167	1.71	11.250	10.27	17.333	1.93	23.42	1.28
5.250	1.71	11.333	10.27	17.417	1.93	23.50	1.28
5.333	1.71	11.417	10.27	17.500	1.93	23.58	1.28
5.417	1.71	11.500	10.27	17.583	1.93	23.67	1.28
5.500	1.71	11.583	10.27	17.667	1.93	23.75	1.28
5.583	1.71	11.667	10.27	17.750	1.93	23.83	1.28
5.667	1.71	11.750	31.66	17.833	1.93	23.92	1.28
5.750	1.71	11.833	31.67	17.917	1.93	24.00	1.28
5.833	1.71	11.917	81.30	18.000	1.93	24.08	1.28
5.917	1.71	12.000	81.30	18.083	1.93	24.17	1.28
6.000	1.71	12.083	130.94	18.167	1.93		
6.083	1.71	12.167	130.94	18.250	1.93		

Unit Hyd Qpeak (cms)= 0.302

PEAK FLOW (cms)= 0.080 (i)
TIME TO PEAK (hrs)= 12.500
RUNOFF VOLUME (mm)= 17.384
TOTAL RAINFALL (mm)= 106.980
RUNOFF COEFFICIENT = 0.162

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0001)| Area (ha)= 2.64 Curve Number (CN)= 36.2
|ID= 1 DT= 5.0 min| Ia (mm)= 9.50 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.61

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.71	12.250	15.42	18.33	1.93
0.167	0.00	6.250	1.93	12.333	15.41	18.42	1.93
0.250	1.18	6.333	1.93	12.417	15.41	18.50	1.93
0.333	1.18	6.417	1.93	12.500	15.41	18.58	1.93
0.417	1.18	6.500	1.93	12.583	15.41	18.67	1.93
0.500	1.18	6.583	1.93	12.667	15.41	18.75	1.93
0.583	1.18	6.667	1.93	12.750	7.92	18.83	1.93
0.667	1.18	6.750	1.93	12.833	7.92	18.92	1.93
0.750	1.18	6.833	1.93	12.917	7.92	19.00	1.93
0.833	1.18	6.917	1.93	13.000	7.92	19.08	1.93
0.917	1.18	7.000	1.93	13.083	7.92	19.17	1.93
1.000	1.18	7.083	1.93	13.167	7.92	19.25	1.93
1.083	1.18	7.167	1.93	13.250	5.78	19.33	1.93
1.167	1.18	7.250	2.35	13.333	5.78	19.42	1.93
1.250	1.18	7.333	2.35	13.417	5.78	19.50	1.93
1.333	1.18	7.417	2.35	13.500	5.78	19.58	1.93
1.417	1.18	7.500	2.35	13.583	5.78	19.67	1.93
1.500	1.18	7.583	2.35	13.667	5.78	19.75	1.93
1.583	1.18	7.667	2.35	13.750	4.49	19.83	1.93
1.667	1.18	7.750	2.35	13.833	4.49	19.92	1.93
1.750	1.18	7.833	2.35	13.917	4.49	20.00	1.93
1.833	1.18	7.917	2.35	14.000	4.49	20.08	1.93
1.917	1.18	8.000	2.35	14.083	4.49	20.17	1.93
2.000	1.18	8.083	2.35	14.167	4.49	20.25	1.28

[illegible]

0.083	0.00	6.167	1.71	12.250	15.42	18.33	1.93
0.167	0.00	6.250	1.93	12.333	15.41	18.42	1.93
0.250	1.18	6.333	1.93	12.417	15.41	18.50	1.93
0.333	1.18	6.417	1.93	12.500	15.41	18.58	1.93
0.417	1.18	6.500	1.93	12.583	15.41	18.67	1.93
0.500	1.18	6.583	1.93	12.667	15.41	18.75	1.93
0.583	1.18	6.667	1.93	12.750	7.92	18.83	1.93
0.667	1.18	6.750	1.93	12.833	7.92	18.92	1.93
0.750	1.18	6.833	1.93	12.917	7.92	19.00	1.93
0.833	1.18	6.917	1.93	13.000	7.92	19.08	1.93
0.917	1.18	7.000	1.93	13.083	7.92	19.17	1.93
1.000	1.18	7.083	1.93	13.167	7.92	19.25	1.93
1.083	1.18	7.167	1.93	13.250	5.78	19.33	1.93
1.167	1.18	7.250	2.35	13.333	5.78	19.42	1.93
1.250	1.18	7.333	2.35	13.417	5.78	19.50	1.93
1.333	1.18	7.417	2.35	13.500	5.78	19.58	1.93
1.417	1.18	7.500	2.35	13.583	5.78	19.67	1.93
1.500	1.18	7.583	2.35	13.667	5.78	19.75	1.93
1.583	1.18	7.667	2.35	13.750	4.49	19.83	1.93
1.667	1.18	7.750	2.35	13.833	4.49	19.92	1.93
1.750	1.18	7.833	2.35	13.917	4.49	20.00	1.93
1.833	1.18	7.917	2.35	14.000	4.49	20.08	1.93
1.917	1.18	8.000	2.35	14.083	4.49	20.17	1.93
2.000	1.18	8.083	2.35	14.167	4.49	20.25	1.28
2.083	1.18	8.167	2.35	14.250	3.21	20.33	1.28
2.167	1.18	8.250	2.78	14.333	3.21	20.42	1.28
2.250	1.39	8.333	2.78	14.417	3.21	20.50	1.28
2.333	1.39	8.417	2.78	14.500	3.21	20.58	1.28
2.417	1.39	8.500	2.78	14.583	3.21	20.67	1.28
2.500	1.39	8.583	2.78	14.667	3.21	20.75	1.28
2.583	1.39	8.667	2.78	14.750	3.21	20.83	1.28
2.667	1.39	8.750	3.00	14.833	3.21	20.92	1.28
2.750	1.39	8.833	3.00	14.917	3.21	21.00	1.28
2.833	1.39	8.917	3.00	15.000	3.21	21.08	1.28
2.917	1.39	9.000	3.00	15.083	3.21	21.17	1.28
3.000	1.39	9.083	3.00	15.167	3.21	21.25	1.28
3.083	1.39	9.167	3.00	15.250	3.21	21.33	1.28
3.167	1.39	9.250	3.42	15.333	3.21	21.42	1.28
3.250	1.39	9.333	3.42	15.417	3.21	21.50	1.28
3.333	1.39	9.417	3.42	15.500	3.21	21.58	1.28
3.417	1.39	9.500	3.42	15.583	3.21	21.67	1.28
3.500	1.39	9.583	3.42	15.667	3.21	21.75	1.28
3.583	1.39	9.667	3.42	15.750	3.21	21.83	1.28
3.667	1.39	9.750	3.85	15.833	3.21	21.92	1.28
3.750	1.39	9.833	3.85	15.917	3.21	22.00	1.28
3.833	1.39	9.917	3.85	16.000	3.21	22.08	1.28
3.917	1.39	10.000	3.85	16.083	3.21	22.17	1.28
4.000	1.39	10.083	3.85	16.167	3.21	22.25	1.28
4.083	1.39	10.167	3.85	16.250	1.93	22.33	1.28
4.167	1.39	10.250	4.92	16.333	1.93	22.42	1.28
4.250	1.71	10.333	4.92	16.417	1.93	22.50	1.28
4.333	1.71	10.417	4.92	16.500	1.93	22.58	1.28
4.417	1.71	10.500	4.92	16.583	1.93	22.67	1.28
4.500	1.71	10.583	4.92	16.667	1.93	22.75	1.28
4.583	1.71	10.667	4.92	16.750	1.93	22.83	1.28
4.667	1.71	10.750	6.63	16.833	1.93	22.92	1.28
4.750	1.71	10.833	6.63	16.917	1.93	23.00	1.28
4.833	1.71	10.917	6.63	17.000	1.93	23.08	1.28
4.917	1.71	11.000	6.63	17.083	1.93	23.17	1.28
5.000	1.71	11.083	6.63	17.167	1.93	23.25	1.28
5.083	1.71	11.167	6.63	17.250	1.93	23.33	1.28
5.167	1.71	11.250	10.27	17.333	1.93	23.42	1.28
5.250	1.71	11.333	10.27	17.417	1.93	23.50	1.28
5.333	1.71	11.417	10.27	17.500	1.93	23.58	1.28
5.417	1.71	11.500	10.27	17.583	1.93	23.67	1.28
5.500	1.71	11.583	10.27	17.667	1.93	23.75	1.28
5.583	1.71	11.667	10.27	17.750	1.93	23.83	1.28
5.667	1.71	11.750	31.66	17.833	1.93	23.92	1.28
5.750	1.71	11.833	31.67	17.917	1.93	24.00	1.28
5.833	1.71	11.917	81.30	18.000	1.93	24.08	1.28
5.917	1.71	12.000	81.30	18.083	1.93	24.17	1.28
6.000	1.71	12.083	130.94	18.167	1.93		
6.083	1.71	12.167	130.94	18.250	1.93		

Unit Hyd Qpeak (cms)= 0.217

PEAK FLOW (cms)= 0.053 (i)
TIME TO PEAK (hrs)= 12.250
RUNOFF VOLUME (mm)= 18.952
TOTAL RAINFALL (mm)= 106.980
RUNOFF COEFFICIENT = 0.177

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0003) | Area (ha)= 2.55 Curve Number (CN)= 36.9
| ID= 1 DT= 5.0 min | Ia (mm)= 9.42 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.49

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.71	12.250	15.42	18.33	1.93
0.167	0.00	6.250	1.93	12.333	15.41	18.42	1.93
0.250	1.18	6.333	1.93	12.417	15.41	18.50	1.93
0.333	1.18	6.417	1.93	12.500	15.41	18.58	1.93
0.417	1.18	6.500	1.93	12.583	15.41	18.67	1.93
0.500	1.18	6.583	1.93	12.667	15.41	18.75	1.93
0.583	1.18	6.667	1.93	12.750	7.92	18.83	1.93
0.667	1.18	6.750	1.93	12.833	7.92	18.92	1.93
0.750	1.18	6.833	1.93	12.917	7.92	19.00	1.93
0.833	1.18	6.917	1.93	13.000	7.92	19.08	1.93
0.917	1.18	7.000	1.93	13.083	7.92	19.17	1.93
1.000	1.18	7.083	1.93	13.167	7.92	19.25	1.93
1.083	1.18	7.167	1.93	13.250	5.78	19.33	1.93
1.167	1.18	7.250	2.35	13.333	5.78	19.42	1.93
1.250	1.18	7.333	2.35	13.417	5.78	19.50	1.93
1.333	1.18	7.417	2.35	13.500	5.78	19.58	1.93
1.417	1.18	7.500	2.35	13.583	5.78	19.67	1.93
1.500	1.18	7.583	2.35	13.667	5.78	19.75	1.93
1.583	1.18	7.667	2.35	13.750	4.49	19.83	1.93
1.667	1.18	7.750	2.35	13.833	4.49	19.92	1.93
1.750	1.18	7.833	2.35	13.917	4.49	20.00	1.93
1.833	1.18	7.917	2.35	14.000	4.49	20.08	1.93
1.917	1.18	8.000	2.35	14.083	4.49	20.17	1.93
2.000	1.18	8.083	2.35	14.167	4.49	20.25	1.28
2.083	1.18	8.167	2.35	14.250	3.21	20.33	1.28
2.167	1.18	8.250	2.78	14.333	3.21	20.42	1.28
2.250	1.39	8.333	2.78	14.417	3.21	20.50	1.28
2.333	1.39	8.417	2.78	14.500	3.21	20.58	1.28
2.417	1.39	8.500	2.78	14.583	3.21	20.67	1.28
2.500	1.39	8.583	2.78	14.667	3.21	20.75	1.28
2.583	1.39	8.667	2.78	14.750	3.21	20.83	1.28
2.667	1.39	8.750	3.00	14.833	3.21	20.92	1.28
2.750	1.39	8.833	3.00	14.917	3.21	21.00	1.28
2.833	1.39	8.917	3.00	15.000	3.21	21.08	1.28
2.917	1.39	9.000	3.00	15.083	3.21	21.17	1.28
3.000	1.39	9.083	3.00	15.167	3.21	21.25	1.28
3.083	1.39	9.167	3.00	15.250	3.21	21.33	1.28
3.167	1.39	9.250	3.42	15.333	3.21	21.42	1.28
3.250	1.39	9.333	3.42	15.417	3.21	21.50	1.28
3.333	1.39	9.417	3.42	15.500	3.21	21.58	1.28
3.417	1.39	9.500	3.42	15.583	3.21	21.67	1.28
3.500	1.39	9.583	3.42	15.667	3.21	21.75	1.28
3.583	1.39	9.667	3.42	15.750	3.21	21.83	1.28
3.667	1.39	9.750	3.85	15.833	3.21	21.92	1.28
3.750	1.39	9.833	3.85	15.917	3.21	22.00	1.28
3.833	1.39	9.917	3.85	16.000	3.21	22.08	1.28
3.917	1.39	10.000	3.85	16.083	3.21	22.17	1.28
4.000	1.39	10.083	3.85	16.167	3.21	22.25	1.28
4.083	1.39	10.167	3.85	16.250	1.93	22.33	1.28

4.167	1.39	10.250	4.92	16.333	1.93	22.42	1.28
4.250	1.71	10.333	4.92	16.417	1.93	22.50	1.28
4.333	1.71	10.417	4.92	16.500	1.93	22.58	1.28
4.417	1.71	10.500	4.92	16.583	1.93	22.67	1.28
4.500	1.71	10.583	4.92	16.667	1.93	22.75	1.28
4.583	1.71	10.667	4.92	16.750	1.93	22.83	1.28
4.667	1.71	10.750	6.63	16.833	1.93	22.92	1.28
4.750	1.71	10.833	6.63	16.917	1.93	23.00	1.28
4.833	1.71	10.917	6.63	17.000	1.93	23.08	1.28
4.917	1.71	11.000	6.63	17.083	1.93	23.17	1.28
5.000	1.71	11.083	6.63	17.167	1.93	23.25	1.28
5.083	1.71	11.167	6.63	17.250	1.93	23.33	1.28
5.167	1.71	11.250	10.27	17.333	1.93	23.42	1.28
5.250	1.71	11.333	10.27	17.417	1.93	23.50	1.28
5.333	1.71	11.417	10.27	17.500	1.93	23.58	1.28
5.417	1.71	11.500	10.27	17.583	1.93	23.67	1.28
5.500	1.71	11.583	10.27	17.667	1.93	23.75	1.28
5.583	1.71	11.667	10.27	17.750	1.93	23.83	1.28
5.667	1.71	11.750	31.66	17.833	1.93	23.92	1.28
5.750	1.71	11.833	31.67	17.917	1.93	24.00	1.28
5.833	1.71	11.917	81.30	18.000	1.93	24.08	1.28
5.917	1.71	12.000	81.30	18.083	1.93	24.17	1.28
6.000	1.71	12.083	130.94	18.167	1.93		
6.083	1.71	12.167	130.94	18.250	1.93		

Unit Hyd Qpeak (cms)= 0.199

PEAK FLOW (cms)= 0.057 (i)
TIME TO PEAK (hrs)= 12.583
RUNOFF VOLUME (mm)= 17.893
TOTAL RAINFALL (mm)= 106.980
RUNOFF COEFFICIENT = 0.167

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0004)| Area (ha)= 0.66 Curve Number (CN)= 62.0
| ID= 1 DT= 5.0 min | Ia (mm)= 7.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.19

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.71	12.250	15.42	18.33	1.93
0.167	0.00	6.250	1.93	12.333	15.41	18.42	1.93
0.250	1.18	6.333	1.93	12.417	15.41	18.50	1.93
0.333	1.18	6.417	1.93	12.500	15.41	18.58	1.93
0.417	1.18	6.500	1.93	12.583	15.41	18.67	1.93
0.500	1.18	6.583	1.93	12.667	15.41	18.75	1.93
0.583	1.18	6.667	1.93	12.750	7.92	18.83	1.93
0.667	1.18	6.750	1.93	12.833	7.92	18.92	1.93
0.750	1.18	6.833	1.93	12.917	7.92	19.00	1.93
0.833	1.18	6.917	1.93	13.000	7.92	19.08	1.93
0.917	1.18	7.000	1.93	13.083	7.92	19.17	1.93
1.000	1.18	7.083	1.93	13.167	7.92	19.25	1.93
1.083	1.18	7.167	1.93	13.250	5.78	19.33	1.93
1.167	1.18	7.250	2.35	13.333	5.78	19.42	1.93
1.250	1.18	7.333	2.35	13.417	5.78	19.50	1.93
1.333	1.18	7.417	2.35	13.500	5.78	19.58	1.93
1.417	1.18	7.500	2.35	13.583	5.78	19.67	1.93
1.500	1.18	7.583	2.35	13.667	5.78	19.75	1.93
1.583	1.18	7.667	2.35	13.750	4.49	19.83	1.93
1.667	1.18	7.750	2.35	13.833	4.49	19.92	1.93
1.750	1.18	7.833	2.35	13.917	4.49	20.00	1.93
1.833	1.18	7.917	2.35	14.000	4.49	20.08	1.93
1.917	1.18	8.000	2.35	14.083	4.49	20.17	1.93
2.000	1.18	8.083	2.35	14.167	4.49	20.25	1.28
2.083	1.18	8.167	2.35	14.250	3.21	20.33	1.28

2.167	1.18	8.250	2.78	14.333	3.21	20.42	1.28
2.250	1.39	8.333	2.78	14.417	3.21	20.50	1.28
2.333	1.39	8.417	2.78	14.500	3.21	20.58	1.28
2.417	1.39	8.500	2.78	14.583	3.21	20.67	1.28
2.500	1.39	8.583	2.78	14.667	3.21	20.75	1.28
2.583	1.39	8.667	2.78	14.750	3.21	20.83	1.28
2.667	1.39	8.750	3.00	14.833	3.21	20.92	1.28
2.750	1.39	8.833	3.00	14.917	3.21	21.00	1.28
2.833	1.39	8.917	3.00	15.000	3.21	21.08	1.28
2.917	1.39	9.000	3.00	15.083	3.21	21.17	1.28
3.000	1.39	9.083	3.00	15.167	3.21	21.25	1.28
3.083	1.39	9.167	3.00	15.250	3.21	21.33	1.28
3.167	1.39	9.250	3.42	15.333	3.21	21.42	1.28
3.250	1.39	9.333	3.42	15.417	3.21	21.50	1.28
3.333	1.39	9.417	3.42	15.500	3.21	21.58	1.28
3.417	1.39	9.500	3.42	15.583	3.21	21.67	1.28
3.500	1.39	9.583	3.42	15.667	3.21	21.75	1.28
3.583	1.39	9.667	3.42	15.750	3.21	21.83	1.28
3.667	1.39	9.750	3.85	15.833	3.21	21.92	1.28
3.750	1.39	9.833	3.85	15.917	3.21	22.00	1.28
3.833	1.39	9.917	3.85	16.000	3.21	22.08	1.28
3.917	1.39	10.000	3.85	16.083	3.21	22.17	1.28
4.000	1.39	10.083	3.85	16.167	3.21	22.25	1.28
4.083	1.39	10.167	3.85	16.250	1.93	22.33	1.28
4.167	1.39	10.250	4.92	16.333	1.93	22.42	1.28
4.250	1.71	10.333	4.92	16.417	1.93	22.50	1.28
4.333	1.71	10.417	4.92	16.500	1.93	22.58	1.28
4.417	1.71	10.500	4.92	16.583	1.93	22.67	1.28
4.500	1.71	10.583	4.92	16.667	1.93	22.75	1.28
4.583	1.71	10.667	4.92	16.750	1.93	22.83	1.28
4.667	1.71	10.750	6.63	16.833	1.93	22.92	1.28
4.750	1.71	10.833	6.63	16.917	1.93	23.00	1.28
4.833	1.71	10.917	6.63	17.000	1.93	23.08	1.28
4.917	1.71	11.000	6.63	17.083	1.93	23.17	1.28
5.000	1.71	11.083	6.63	17.167	1.93	23.25	1.28
5.083	1.71	11.167	6.63	17.250	1.93	23.33	1.28
5.167	1.71	11.250	10.27	17.333	1.93	23.42	1.28
5.250	1.71	11.333	10.27	17.417	1.93	23.50	1.28
5.333	1.71	11.417	10.27	17.500	1.93	23.58	1.28
5.417	1.71	11.500	10.27	17.583	1.93	23.67	1.28
5.500	1.71	11.583	10.27	17.667	1.93	23.75	1.28
5.583	1.71	11.667	10.27	17.750	1.93	23.83	1.28
5.667	1.71	11.750	31.66	17.833	1.93	23.92	1.28
5.750	1.71	11.833	31.67	17.917	1.93	24.00	1.28
5.833	1.71	11.917	81.30	18.000	1.93	24.08	1.28
5.917	1.71	12.000	81.30	18.083	1.93	24.17	1.28
6.000	1.71	12.083	130.94	18.167	1.93		
6.083	1.71	12.167	130.94	18.250	1.93		

Unit Hyd Qpeak (cms)= 0.133

PEAK FLOW (cms)= 0.065 (i)

TIME TO PEAK (hrs)= 12.250

RUNOFF VOLUME (mm)= 39.008

TOTAL RAINFALL (mm)= 106.980

RUNOFF COEFFICIENT = 0.365

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | ADD HYD (0016) |

| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.

(ha) (cms) (hrs) (mm)

ID1= 1 (0003): 2.55 0.057 12.58 17.89

+ ID2= 2 (0004): 0.66 0.065 12.25 39.01

=====

ID = 3 (0016): 3.21 0.104 12.25 22.23

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| CALIB |
 | NASHYD (0005) | Area (ha)= 9.65 Curve Number (CN)= 32.0
 | ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.71

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.71	12.250	15.42	18.33	1.93
0.167	0.00	6.250	1.93	12.333	15.41	18.42	1.93
0.250	1.18	6.333	1.93	12.417	15.41	18.50	1.93
0.333	1.18	6.417	1.93	12.500	15.41	18.58	1.93
0.417	1.18	6.500	1.93	12.583	15.41	18.67	1.93
0.500	1.18	6.583	1.93	12.667	15.41	18.75	1.93
0.583	1.18	6.667	1.93	12.750	7.92	18.83	1.93
0.667	1.18	6.750	1.93	12.833	7.92	18.92	1.93
0.750	1.18	6.833	1.93	12.917	7.92	19.00	1.93
0.833	1.18	6.917	1.93	13.000	7.92	19.08	1.93
0.917	1.18	7.000	1.93	13.083	7.92	19.17	1.93
1.000	1.18	7.083	1.93	13.167	7.92	19.25	1.93
1.083	1.18	7.167	1.93	13.250	5.78	19.33	1.93
1.167	1.18	7.250	2.35	13.333	5.78	19.42	1.93
1.250	1.18	7.333	2.35	13.417	5.78	19.50	1.93
1.333	1.18	7.417	2.35	13.500	5.78	19.58	1.93
1.417	1.18	7.500	2.35	13.583	5.78	19.67	1.93
1.500	1.18	7.583	2.35	13.667	5.78	19.75	1.93
1.583	1.18	7.667	2.35	13.750	4.49	19.83	1.93
1.667	1.18	7.750	2.35	13.833	4.49	19.92	1.93
1.750	1.18	7.833	2.35	13.917	4.49	20.00	1.93
1.833	1.18	7.917	2.35	14.000	4.49	20.08	1.93
1.917	1.18	8.000	2.35	14.083	4.49	20.17	1.93
2.000	1.18	8.083	2.35	14.167	4.49	20.25	1.28
2.083	1.18	8.167	2.35	14.250	3.21	20.33	1.28
2.167	1.18	8.250	2.78	14.333	3.21	20.42	1.28
2.250	1.39	8.333	2.78	14.417	3.21	20.50	1.28
2.333	1.39	8.417	2.78	14.500	3.21	20.58	1.28
2.417	1.39	8.500	2.78	14.583	3.21	20.67	1.28
2.500	1.39	8.583	2.78	14.667	3.21	20.75	1.28
2.583	1.39	8.667	2.78	14.750	3.21	20.83	1.28
2.667	1.39	8.750	3.00	14.833	3.21	20.92	1.28
2.750	1.39	8.833	3.00	14.917	3.21	21.00	1.28
2.833	1.39	8.917	3.00	15.000	3.21	21.08	1.28
2.917	1.39	9.000	3.00	15.083	3.21	21.17	1.28
3.000	1.39	9.083	3.00	15.167	3.21	21.25	1.28
3.083	1.39	9.167	3.00	15.250	3.21	21.33	1.28
3.167	1.39	9.250	3.42	15.333	3.21	21.42	1.28
3.250	1.39	9.333	3.42	15.417	3.21	21.50	1.28
3.333	1.39	9.417	3.42	15.500	3.21	21.58	1.28
3.417	1.39	9.500	3.42	15.583	3.21	21.67	1.28
3.500	1.39	9.583	3.42	15.667	3.21	21.75	1.28
3.583	1.39	9.667	3.42	15.750	3.21	21.83	1.28
3.667	1.39	9.750	3.85	15.833	3.21	21.92	1.28
3.750	1.39	9.833	3.85	15.917	3.21	22.00	1.28
3.833	1.39	9.917	3.85	16.000	3.21	22.08	1.28
3.917	1.39	10.000	3.85	16.083	3.21	22.17	1.28
4.000	1.39	10.083	3.85	16.167	3.21	22.25	1.28
4.083	1.39	10.167	3.85	16.250	1.93	22.33	1.28
4.167	1.39	10.250	4.92	16.333	1.93	22.42	1.28
4.250	1.71	10.333	4.92	16.417	1.93	22.50	1.28
4.333	1.71	10.417	4.92	16.500	1.93	22.58	1.28
4.417	1.71	10.500	4.92	16.583	1.93	22.67	1.28
4.500	1.71	10.583	4.92	16.667	1.93	22.75	1.28
4.583	1.71	10.667	4.92	16.750	1.93	22.83	1.28
4.667	1.71	10.750	6.63	16.833	1.93	22.92	1.28
4.750	1.71	10.833	6.63	16.917	1.93	23.00	1.28
4.833	1.71	10.917	6.63	17.000	1.93	23.08	1.28
4.917	1.71	11.000	6.63	17.083	1.93	23.17	1.28
5.000	1.71	11.083	6.63	17.167	1.93	23.25	1.28
5.083	1.71	11.167	6.63	17.250	1.93	23.33	1.28
5.167	1.71	11.250	10.27	17.333	1.93	23.42	1.28

5.250	1.71	11.333	10.27	17.417	1.93	23.50	1.28
5.333	1.71	11.417	10.27	17.500	1.93	23.58	1.28
5.417	1.71	11.500	10.27	17.583	1.93	23.67	1.28
5.500	1.71	11.583	10.27	17.667	1.93	23.75	1.28
5.583	1.71	11.667	10.27	17.750	1.93	23.83	1.28
5.667	1.71	11.750	31.66	17.833	1.93	23.92	1.28
5.750	1.71	11.833	31.67	17.917	1.93	24.00	1.28
5.833	1.71	11.917	81.30	18.000	1.93	24.08	1.28
5.917	1.71	12.000	81.30	18.083	1.93	24.17	1.28
6.000	1.71	12.083	130.94	18.167	1.93		
6.083	1.71	12.167	130.94	18.250	1.93		

Unit Hyd Qpeak (cms)= 0.519

PEAK FLOW (cms)= 0.136 (i)
 TIME TO PEAK (hrs)= 12.833
 RUNOFF VOLUME (mm)= 14.771
 TOTAL RAINFALL (mm)= 106.980
 RUNOFF COEFFICIENT = 0.138

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0006) | Area (ha)= 1.82 Curve Number (CN)= 32.0
 | ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.30

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.71	12.250	15.42	18.33	1.93
0.167	0.00	6.250	1.93	12.333	15.41	18.42	1.93
0.250	1.18	6.333	1.93	12.417	15.41	18.50	1.93
0.333	1.18	6.417	1.93	12.500	15.41	18.58	1.93
0.417	1.18	6.500	1.93	12.583	15.41	18.67	1.93
0.500	1.18	6.583	1.93	12.667	15.41	18.75	1.93
0.583	1.18	6.667	1.93	12.750	7.92	18.83	1.93
0.667	1.18	6.750	1.93	12.833	7.92	18.92	1.93
0.750	1.18	6.833	1.93	12.917	7.92	19.00	1.93
0.833	1.18	6.917	1.93	13.000	7.92	19.08	1.93
0.917	1.18	7.000	1.93	13.083	7.92	19.17	1.93
1.000	1.18	7.083	1.93	13.167	7.92	19.25	1.93
1.083	1.18	7.167	1.93	13.250	5.78	19.33	1.93
1.167	1.18	7.250	2.35	13.333	5.78	19.42	1.93
1.250	1.18	7.333	2.35	13.417	5.78	19.50	1.93
1.333	1.18	7.417	2.35	13.500	5.78	19.58	1.93
1.417	1.18	7.500	2.35	13.583	5.78	19.67	1.93
1.500	1.18	7.583	2.35	13.667	5.78	19.75	1.93
1.583	1.18	7.667	2.35	13.750	4.49	19.83	1.93
1.667	1.18	7.750	2.35	13.833	4.49	19.92	1.93
1.750	1.18	7.833	2.35	13.917	4.49	20.00	1.93
1.833	1.18	7.917	2.35	14.000	4.49	20.08	1.93
1.917	1.18	8.000	2.35	14.083	4.49	20.17	1.93
2.000	1.18	8.083	2.35	14.167	4.49	20.25	1.28
2.083	1.18	8.167	2.35	14.250	3.21	20.33	1.28
2.167	1.18	8.250	2.78	14.333	3.21	20.42	1.28
2.250	1.39	8.333	2.78	14.417	3.21	20.50	1.28
2.333	1.39	8.417	2.78	14.500	3.21	20.58	1.28
2.417	1.39	8.500	2.78	14.583	3.21	20.67	1.28
2.500	1.39	8.583	2.78	14.667	3.21	20.75	1.28
2.583	1.39	8.667	2.78	14.750	3.21	20.83	1.28
2.667	1.39	8.750	3.00	14.833	3.21	20.92	1.28
2.750	1.39	8.833	3.00	14.917	3.21	21.00	1.28
2.833	1.39	8.917	3.00	15.000	3.21	21.08	1.28
2.917	1.39	9.000	3.00	15.083	3.21	21.17	1.28
3.000	1.39	9.083	3.00	15.167	3.21	21.25	1.28
3.083	1.39	9.167	3.00	15.250	3.21	21.33	1.28
3.167	1.39	9.250	3.42	15.333	3.21	21.42	1.28

3.250	1.39	9.333	3.42	15.417	3.21	21.50	1.28
3.333	1.39	9.417	3.42	15.500	3.21	21.58	1.28
3.417	1.39	9.500	3.42	15.583	3.21	21.67	1.28
3.500	1.39	9.583	3.42	15.667	3.21	21.75	1.28
3.583	1.39	9.667	3.42	15.750	3.21	21.83	1.28
3.667	1.39	9.750	3.85	15.833	3.21	21.92	1.28
3.750	1.39	9.833	3.85	15.917	3.21	22.00	1.28
3.833	1.39	9.917	3.85	16.000	3.21	22.08	1.28
3.917	1.39	10.000	3.85	16.083	3.21	22.17	1.28
4.000	1.39	10.083	3.85	16.167	3.21	22.25	1.28
4.083	1.39	10.167	3.85	16.250	1.93	22.33	1.28
4.167	1.39	10.250	4.92	16.333	1.93	22.42	1.28
4.250	1.71	10.333	4.92	16.417	1.93	22.50	1.28
4.333	1.71	10.417	4.92	16.500	1.93	22.58	1.28
4.417	1.71	10.500	4.92	16.583	1.93	22.67	1.28
4.500	1.71	10.583	4.92	16.667	1.93	22.75	1.28
4.583	1.71	10.667	4.92	16.750	1.93	22.83	1.28
4.667	1.71	10.750	6.63	16.833	1.93	22.92	1.28
4.750	1.71	10.833	6.63	16.917	1.93	23.00	1.28
4.833	1.71	10.917	6.63	17.000	1.93	23.08	1.28
4.917	1.71	11.000	6.63	17.083	1.93	23.17	1.28
5.000	1.71	11.083	6.63	17.167	1.93	23.25	1.28
5.083	1.71	11.167	6.63	17.250	1.93	23.33	1.28
5.167	1.71	11.250	10.27	17.333	1.93	23.42	1.28
5.250	1.71	11.333	10.27	17.417	1.93	23.50	1.28
5.333	1.71	11.417	10.27	17.500	1.93	23.58	1.28
5.417	1.71	11.500	10.27	17.583	1.93	23.67	1.28
5.500	1.71	11.583	10.27	17.667	1.93	23.75	1.28
5.583	1.71	11.667	10.27	17.750	1.93	23.83	1.28
5.667	1.71	11.750	31.66	17.833	1.93	23.92	1.28
5.750	1.71	11.833	31.67	17.917	1.93	24.00	1.28
5.833	1.71	11.917	81.30	18.000	1.93	24.08	1.28
5.917	1.71	12.000	81.30	18.083	1.93	24.17	1.28
6.000	1.71	12.083	130.94	18.167	1.93		
6.083	1.71	12.167	130.94	18.250	1.93		

Unit Hyd Qpeak (cms)= 0.232

PEAK FLOW (cms)= 0.048 (i)

TIME TO PEAK (hrs)= 12.333

RUNOFF VOLUME (mm)= 14.765

TOTAL RAINFALL (mm)= 106.980

RUNOFF COEFFICIENT = 0.138

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0007) | Area (ha)= 1.70 Curve Number (CN)= 62.0
| ID= 1 DT= 5.0 min | Ia (mm)= 7.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.43

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.71	12.250	15.42	18.33	1.93
0.167	0.00	6.250	1.93	12.333	15.41	18.42	1.93
0.250	1.18	6.333	1.93	12.417	15.41	18.50	1.93
0.333	1.18	6.417	1.93	12.500	15.41	18.58	1.93
0.417	1.18	6.500	1.93	12.583	15.41	18.67	1.93
0.500	1.18	6.583	1.93	12.667	15.41	18.75	1.93
0.583	1.18	6.667	1.93	12.750	7.92	18.83	1.93
0.667	1.18	6.750	1.93	12.833	7.92	18.92	1.93
0.750	1.18	6.833	1.93	12.917	7.92	19.00	1.93
0.833	1.18	6.917	1.93	13.000	7.92	19.08	1.93
0.917	1.18	7.000	1.93	13.083	7.92	19.17	1.93
1.000	1.18	7.083	1.93	13.167	7.92	19.25	1.93
1.083	1.18	7.167	1.93	13.250	5.78	19.33	1.93
1.167	1.18	7.250	2.35	13.333	5.78	19.42	1.93

1.250	1.18	7.333	2.35	13.417	5.78	19.50	1.93
1.333	1.18	7.417	2.35	13.500	5.78	19.58	1.93
1.417	1.18	7.500	2.35	13.583	5.78	19.67	1.93
1.500	1.18	7.583	2.35	13.667	5.78	19.75	1.93
1.583	1.18	7.667	2.35	13.750	4.49	19.83	1.93
1.667	1.18	7.750	2.35	13.833	4.49	19.92	1.93
1.750	1.18	7.833	2.35	13.917	4.49	20.00	1.93
1.833	1.18	7.917	2.35	14.000	4.49	20.08	1.93
1.917	1.18	8.000	2.35	14.083	4.49	20.17	1.93
2.000	1.18	8.083	2.35	14.167	4.49	20.25	1.28
2.083	1.18	8.167	2.35	14.250	3.21	20.33	1.28
2.167	1.18	8.250	2.78	14.333	3.21	20.42	1.28
2.250	1.39	8.333	2.78	14.417	3.21	20.50	1.28
2.333	1.39	8.417	2.78	14.500	3.21	20.58	1.28
2.417	1.39	8.500	2.78	14.583	3.21	20.67	1.28
2.500	1.39	8.583	2.78	14.667	3.21	20.75	1.28
2.583	1.39	8.667	2.78	14.750	3.21	20.83	1.28
2.667	1.39	8.750	3.00	14.833	3.21	20.92	1.28
2.750	1.39	8.833	3.00	14.917	3.21	21.00	1.28
2.833	1.39	8.917	3.00	15.000	3.21	21.08	1.28
2.917	1.39	9.000	3.00	15.083	3.21	21.17	1.28
3.000	1.39	9.083	3.00	15.167	3.21	21.25	1.28
3.083	1.39	9.167	3.00	15.250	3.21	21.33	1.28
3.167	1.39	9.250	3.42	15.333	3.21	21.42	1.28
3.250	1.39	9.333	3.42	15.417	3.21	21.50	1.28
3.333	1.39	9.417	3.42	15.500	3.21	21.58	1.28
3.417	1.39	9.500	3.42	15.583	3.21	21.67	1.28
3.500	1.39	9.583	3.42	15.667	3.21	21.75	1.28
3.583	1.39	9.667	3.42	15.750	3.21	21.83	1.28
3.667	1.39	9.750	3.85	15.833	3.21	21.92	1.28
3.750	1.39	9.833	3.85	15.917	3.21	22.00	1.28
3.833	1.39	9.917	3.85	16.000	3.21	22.08	1.28
3.917	1.39	10.000	3.85	16.083	3.21	22.17	1.28
4.000	1.39	10.083	3.85	16.167	3.21	22.25	1.28
4.083	1.39	10.167	3.85	16.250	1.93	22.33	1.28
4.167	1.39	10.250	4.92	16.333	1.93	22.42	1.28
4.250	1.71	10.333	4.92	16.417	1.93	22.50	1.28
4.333	1.71	10.417	4.92	16.500	1.93	22.58	1.28
4.417	1.71	10.500	4.92	16.583	1.93	22.67	1.28
4.500	1.71	10.583	4.92	16.667	1.93	22.75	1.28
4.583	1.71	10.667	4.92	16.750	1.93	22.83	1.28
4.667	1.71	10.750	6.63	16.833	1.93	22.92	1.28
4.750	1.71	10.833	6.63	16.917	1.93	23.00	1.28
4.833	1.71	10.917	6.63	17.000	1.93	23.08	1.28
4.917	1.71	11.000	6.63	17.083	1.93	23.17	1.28
5.000	1.71	11.083	6.63	17.167	1.93	23.25	1.28
5.083	1.71	11.167	6.63	17.250	1.93	23.33	1.28
5.167	1.71	11.250	10.27	17.333	1.93	23.42	1.28
5.250	1.71	11.333	10.27	17.417	1.93	23.50	1.28
5.333	1.71	11.417	10.27	17.500	1.93	23.58	1.28
5.417	1.71	11.500	10.27	17.583	1.93	23.67	1.28
5.500	1.71	11.583	10.27	17.667	1.93	23.75	1.28
5.583	1.71	11.667	10.27	17.750	1.93	23.83	1.28
5.667	1.71	11.750	31.66	17.833	1.93	23.92	1.28
5.750	1.71	11.833	31.67	17.917	1.93	24.00	1.28
5.833	1.71	11.917	81.30	18.000	1.93	24.08	1.28
5.917	1.71	12.000	81.30	18.083	1.93	24.17	1.28
6.000	1.71	12.083	130.94	18.167	1.93		
6.083	1.71	12.167	130.94	18.250	1.93		

Unit Hyd Qpeak (cms)= 0.151

PEAK FLOW (cms)= 0.097 (i)

TIME TO PEAK (hrs)= 12.500

RUNOFF VOLUME (mm)= 39.095

TOTAL RAINFALL (mm)= 106.980

RUNOFF COEFFICIENT = 0.365

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| NASHYD (0008) | Area (ha)= 0.23 Curve Number (CN)= 32.0
 | ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.33

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.71	12.250	15.42	18.33	1.93
0.167	0.00	6.250	1.93	12.333	15.41	18.42	1.93
0.250	1.18	6.333	1.93	12.417	15.41	18.50	1.93
0.333	1.18	6.417	1.93	12.500	15.41	18.58	1.93
0.417	1.18	6.500	1.93	12.583	15.41	18.67	1.93
0.500	1.18	6.583	1.93	12.667	15.41	18.75	1.93
0.583	1.18	6.667	1.93	12.750	7.92	18.83	1.93
0.667	1.18	6.750	1.93	12.833	7.92	18.92	1.93
0.750	1.18	6.833	1.93	12.917	7.92	19.00	1.93
0.833	1.18	6.917	1.93	13.000	7.92	19.08	1.93
0.917	1.18	7.000	1.93	13.083	7.92	19.17	1.93
1.000	1.18	7.083	1.93	13.167	7.92	19.25	1.93
1.083	1.18	7.167	1.93	13.250	5.78	19.33	1.93
1.167	1.18	7.250	2.35	13.333	5.78	19.42	1.93
1.250	1.18	7.333	2.35	13.417	5.78	19.50	1.93
1.333	1.18	7.417	2.35	13.500	5.78	19.58	1.93
1.417	1.18	7.500	2.35	13.583	5.78	19.67	1.93
1.500	1.18	7.583	2.35	13.667	5.78	19.75	1.93
1.583	1.18	7.667	2.35	13.750	4.49	19.83	1.93
1.667	1.18	7.750	2.35	13.833	4.49	19.92	1.93
1.750	1.18	7.833	2.35	13.917	4.49	20.00	1.93
1.833	1.18	7.917	2.35	14.000	4.49	20.08	1.93
1.917	1.18	8.000	2.35	14.083	4.49	20.17	1.93
2.000	1.18	8.083	2.35	14.167	4.49	20.25	1.28
2.083	1.18	8.167	2.35	14.250	3.21	20.33	1.28
2.167	1.18	8.250	2.78	14.333	3.21	20.42	1.28
2.250	1.39	8.333	2.78	14.417	3.21	20.50	1.28
2.333	1.39	8.417	2.78	14.500	3.21	20.58	1.28
2.417	1.39	8.500	2.78	14.583	3.21	20.67	1.28
2.500	1.39	8.583	2.78	14.667	3.21	20.75	1.28
2.583	1.39	8.667	2.78	14.750	3.21	20.83	1.28
2.667	1.39	8.750	3.00	14.833	3.21	20.92	1.28
2.750	1.39	8.833	3.00	14.917	3.21	21.00	1.28
2.833	1.39	8.917	3.00	15.000	3.21	21.08	1.28
2.917	1.39	9.000	3.00	15.083	3.21	21.17	1.28
3.000	1.39	9.083	3.00	15.167	3.21	21.25	1.28
3.083	1.39	9.167	3.00	15.250	3.21	21.33	1.28
3.167	1.39	9.250	3.42	15.333	3.21	21.42	1.28
3.250	1.39	9.333	3.42	15.417	3.21	21.50	1.28
3.333	1.39	9.417	3.42	15.500	3.21	21.58	1.28
3.417	1.39	9.500	3.42	15.583	3.21	21.67	1.28
3.500	1.39	9.583	3.42	15.667	3.21	21.75	1.28
3.583	1.39	9.667	3.42	15.750	3.21	21.83	1.28
3.667	1.39	9.750	3.85	15.833	3.21	21.92	1.28
3.750	1.39	9.833	3.85	15.917	3.21	22.00	1.28
3.833	1.39	9.917	3.85	16.000	3.21	22.08	1.28
3.917	1.39	10.000	3.85	16.083	3.21	22.17	1.28
4.000	1.39	10.083	3.85	16.167	3.21	22.25	1.28
4.083	1.39	10.167	3.85	16.250	1.93	22.33	1.28
4.167	1.39	10.250	4.92	16.333	1.93	22.42	1.28
4.250	1.71	10.333	4.92	16.417	1.93	22.50	1.28
4.333	1.71	10.417	4.92	16.500	1.93	22.58	1.28
4.417	1.71	10.500	4.92	16.583	1.93	22.67	1.28
4.500	1.71	10.583	4.92	16.667	1.93	22.75	1.28
4.583	1.71	10.667	4.92	16.750	1.93	22.83	1.28
4.667	1.71	10.750	6.63	16.833	1.93	22.92	1.28
4.750	1.71	10.833	6.63	16.917	1.93	23.00	1.28
4.833	1.71	10.917	6.63	17.000	1.93	23.08	1.28
4.917	1.71	11.000	6.63	17.083	1.93	23.17	1.28
5.000	1.71	11.083	6.63	17.167	1.93	23.25	1.28
5.083	1.71	11.167	6.63	17.250	1.93	23.33	1.28
5.167	1.71	11.250	10.27	17.333	1.93	23.42	1.28
5.250	1.71	11.333	10.27	17.417	1.93	23.50	1.28

5.333	1.71	11.417	10.27	17.500	1.93	23.58	1.28
5.417	1.71	11.500	10.27	17.583	1.93	23.67	1.28
5.500	1.71	11.583	10.27	17.667	1.93	23.75	1.28
5.583	1.71	11.667	10.27	17.750	1.93	23.83	1.28
5.667	1.71	11.750	31.66	17.833	1.93	23.92	1.28
5.750	1.71	11.833	31.67	17.917	1.93	24.00	1.28
5.833	1.71	11.917	81.30	18.000	1.93	24.08	1.28
5.917	1.71	12.000	81.30	18.083	1.93	24.17	1.28
6.000	1.71	12.083	130.94	18.167	1.93		
6.083	1.71	12.167	130.94	18.250	1.93		

Unit Hyd Qpeak (cms)= 0.027

PEAK FLOW (cms)= 0.006 (i)

TIME TO PEAK (hrs)= 12.417

RUNOFF VOLUME (mm)= 14.764

TOTAL RAINFALL (mm)= 106.980

RUNOFF COEFFICIENT = 0.138

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0009) | Area (ha)= 1.11 Curve Number (CN)= 62.0
| ID= 1 DT= 5.0 min | Ia (mm)= 7.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.34

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.71	12.250	15.42	18.33	1.93
0.167	0.00	6.250	1.93	12.333	15.41	18.42	1.93
0.250	1.18	6.333	1.93	12.417	15.41	18.50	1.93
0.333	1.18	6.417	1.93	12.500	15.41	18.58	1.93
0.417	1.18	6.500	1.93	12.583	15.41	18.67	1.93
0.500	1.18	6.583	1.93	12.667	15.41	18.75	1.93
0.583	1.18	6.667	1.93	12.750	7.92	18.83	1.93
0.667	1.18	6.750	1.93	12.833	7.92	18.92	1.93
0.750	1.18	6.833	1.93	12.917	7.92	19.00	1.93
0.833	1.18	6.917	1.93	13.000	7.92	19.08	1.93
0.917	1.18	7.000	1.93	13.083	7.92	19.17	1.93
1.000	1.18	7.083	1.93	13.167	7.92	19.25	1.93
1.083	1.18	7.167	1.93	13.250	5.78	19.33	1.93
1.167	1.18	7.250	2.35	13.333	5.78	19.42	1.93
1.250	1.18	7.333	2.35	13.417	5.78	19.50	1.93
1.333	1.18	7.417	2.35	13.500	5.78	19.58	1.93
1.417	1.18	7.500	2.35	13.583	5.78	19.67	1.93
1.500	1.18	7.583	2.35	13.667	5.78	19.75	1.93
1.583	1.18	7.667	2.35	13.750	4.49	19.83	1.93
1.667	1.18	7.750	2.35	13.833	4.49	19.92	1.93
1.750	1.18	7.833	2.35	13.917	4.49	20.00	1.93
1.833	1.18	7.917	2.35	14.000	4.49	20.08	1.93
1.917	1.18	8.000	2.35	14.083	4.49	20.17	1.93
2.000	1.18	8.083	2.35	14.167	4.49	20.25	1.28
2.083	1.18	8.167	2.35	14.250	3.21	20.33	1.28
2.167	1.18	8.250	2.78	14.333	3.21	20.42	1.28
2.250	1.39	8.333	2.78	14.417	3.21	20.50	1.28
2.333	1.39	8.417	2.78	14.500	3.21	20.58	1.28
2.417	1.39	8.500	2.78	14.583	3.21	20.67	1.28
2.500	1.39	8.583	2.78	14.667	3.21	20.75	1.28
2.583	1.39	8.667	2.78	14.750	3.21	20.83	1.28
2.667	1.39	8.750	3.00	14.833	3.21	20.92	1.28
2.750	1.39	8.833	3.00	14.917	3.21	21.00	1.28
2.833	1.39	8.917	3.00	15.000	3.21	21.08	1.28
2.917	1.39	9.000	3.00	15.083	3.21	21.17	1.28
3.000	1.39	9.083	3.00	15.167	3.21	21.25	1.28
3.083	1.39	9.167	3.00	15.250	3.21	21.33	1.28
3.167	1.39	9.250	3.42	15.333	3.21	21.42	1.28
3.250	1.39	9.333	3.42	15.417	3.21	21.50	1.28

3.333	1.39	9.417	3.42	15.500	3.21	21.58	1.28
3.417	1.39	9.500	3.42	15.583	3.21	21.67	1.28
3.500	1.39	9.583	3.42	15.667	3.21	21.75	1.28
3.583	1.39	9.667	3.42	15.750	3.21	21.83	1.28
3.667	1.39	9.750	3.85	15.833	3.21	21.92	1.28
3.750	1.39	9.833	3.85	15.917	3.21	22.00	1.28
3.833	1.39	9.917	3.85	16.000	3.21	22.08	1.28
3.917	1.39	10.000	3.85	16.083	3.21	22.17	1.28
4.000	1.39	10.083	3.85	16.167	3.21	22.25	1.28
4.083	1.39	10.167	3.85	16.250	1.93	22.33	1.28
4.167	1.39	10.250	4.92	16.333	1.93	22.42	1.28
4.250	1.71	10.333	4.92	16.417	1.93	22.50	1.28
4.333	1.71	10.417	4.92	16.500	1.93	22.58	1.28
4.417	1.71	10.500	4.92	16.583	1.93	22.67	1.28
4.500	1.71	10.583	4.92	16.667	1.93	22.75	1.28
4.583	1.71	10.667	4.92	16.750	1.93	22.83	1.28
4.667	1.71	10.750	6.63	16.833	1.93	22.92	1.28
4.750	1.71	10.833	6.63	16.917	1.93	23.00	1.28
4.833	1.71	10.917	6.63	17.000	1.93	23.08	1.28
4.917	1.71	11.000	6.63	17.083	1.93	23.17	1.28
5.000	1.71	11.083	6.63	17.167	1.93	23.25	1.28
5.083	1.71	11.167	6.63	17.250	1.93	23.33	1.28
5.167	1.71	11.250	10.27	17.333	1.93	23.42	1.28
5.250	1.71	11.333	10.27	17.417	1.93	23.50	1.28
5.333	1.71	11.417	10.27	17.500	1.93	23.58	1.28
5.417	1.71	11.500	10.27	17.583	1.93	23.67	1.28
5.500	1.71	11.583	10.27	17.667	1.93	23.75	1.28
5.583	1.71	11.667	10.27	17.750	1.93	23.83	1.28
5.667	1.71	11.750	31.66	17.833	1.93	23.92	1.28
5.750	1.71	11.833	31.67	17.917	1.93	24.00	1.28
5.833	1.71	11.917	81.30	18.000	1.93	24.08	1.28
5.917	1.71	12.000	81.30	18.083	1.93	24.17	1.28
6.000	1.71	12.083	130.94	18.167	1.93		
6.083	1.71	12.167	130.94	18.250	1.93		

Unit Hyd Qpeak (cms)= 0.125

PEAK FLOW (cms)= 0.074 (i)

TIME TO PEAK (hrs)= 12.333

RUNOFF VOLUME (mm)= 39.089

TOTAL RAINFALL (mm)= 106.980

RUNOFF COEFFICIENT = 0.365

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0010) | Area (ha)= 0.87 Curve Number (CN)= 32.0
 | ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.24

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.71	12.250	15.42	18.33	1.93
0.167	0.00	6.250	1.93	12.333	15.41	18.42	1.93
0.250	1.18	6.333	1.93	12.417	15.41	18.50	1.93
0.333	1.18	6.417	1.93	12.500	15.41	18.58	1.93
0.417	1.18	6.500	1.93	12.583	15.41	18.67	1.93
0.500	1.18	6.583	1.93	12.667	15.41	18.75	1.93
0.583	1.18	6.667	1.93	12.750	7.92	18.83	1.93
0.667	1.18	6.750	1.93	12.833	7.92	18.92	1.93
0.750	1.18	6.833	1.93	12.917	7.92	19.00	1.93
0.833	1.18	6.917	1.93	13.000	7.92	19.08	1.93
0.917	1.18	7.000	1.93	13.083	7.92	19.17	1.93
1.000	1.18	7.083	1.93	13.167	7.92	19.25	1.93
1.083	1.18	7.167	1.93	13.250	5.78	19.33	1.93
1.167	1.18	7.250	2.35	13.333	5.78	19.42	1.93
1.250	1.18	7.333	2.35	13.417	5.78	19.50	1.93

1.333	1.18	7.417	2.35	13.500	5.78	19.58	1.93
1.417	1.18	7.500	2.35	13.583	5.78	19.67	1.93
1.500	1.18	7.583	2.35	13.667	5.78	19.75	1.93
1.583	1.18	7.667	2.35	13.750	4.49	19.83	1.93
1.667	1.18	7.750	2.35	13.833	4.49	19.92	1.93
1.750	1.18	7.833	2.35	13.917	4.49	20.00	1.93
1.833	1.18	7.917	2.35	14.000	4.49	20.08	1.93
1.917	1.18	8.000	2.35	14.083	4.49	20.17	1.93
2.000	1.18	8.083	2.35	14.167	4.49	20.25	1.28
2.083	1.18	8.167	2.35	14.250	3.21	20.33	1.28
2.167	1.18	8.250	2.78	14.333	3.21	20.42	1.28
2.250	1.39	8.333	2.78	14.417	3.21	20.50	1.28
2.333	1.39	8.417	2.78	14.500	3.21	20.58	1.28
2.417	1.39	8.500	2.78	14.583	3.21	20.67	1.28
2.500	1.39	8.583	2.78	14.667	3.21	20.75	1.28
2.583	1.39	8.667	2.78	14.750	3.21	20.83	1.28
2.667	1.39	8.750	3.00	14.833	3.21	20.92	1.28
2.750	1.39	8.833	3.00	14.917	3.21	21.00	1.28
2.833	1.39	8.917	3.00	15.000	3.21	21.08	1.28
2.917	1.39	9.000	3.00	15.083	3.21	21.17	1.28
3.000	1.39	9.083	3.00	15.167	3.21	21.25	1.28
3.083	1.39	9.167	3.00	15.250	3.21	21.33	1.28
3.167	1.39	9.250	3.42	15.333	3.21	21.42	1.28
3.250	1.39	9.333	3.42	15.417	3.21	21.50	1.28
3.333	1.39	9.417	3.42	15.500	3.21	21.58	1.28
3.417	1.39	9.500	3.42	15.583	3.21	21.67	1.28
3.500	1.39	9.583	3.42	15.667	3.21	21.75	1.28
3.583	1.39	9.667	3.42	15.750	3.21	21.83	1.28
3.667	1.39	9.750	3.85	15.833	3.21	21.92	1.28
3.750	1.39	9.833	3.85	15.917	3.21	22.00	1.28
3.833	1.39	9.917	3.85	16.000	3.21	22.08	1.28
3.917	1.39	10.000	3.85	16.083	3.21	22.17	1.28
4.000	1.39	10.083	3.85	16.167	3.21	22.25	1.28
4.083	1.39	10.167	3.85	16.250	1.93	22.33	1.28
4.167	1.39	10.250	4.92	16.333	1.93	22.42	1.28
4.250	1.71	10.333	4.92	16.417	1.93	22.50	1.28
4.333	1.71	10.417	4.92	16.500	1.93	22.58	1.28
4.417	1.71	10.500	4.92	16.583	1.93	22.67	1.28
4.500	1.71	10.583	4.92	16.667	1.93	22.75	1.28
4.583	1.71	10.667	4.92	16.750	1.93	22.83	1.28
4.667	1.71	10.750	6.63	16.833	1.93	22.92	1.28
4.750	1.71	10.833	6.63	16.917	1.93	23.00	1.28
4.833	1.71	10.917	6.63	17.000	1.93	23.08	1.28
4.917	1.71	11.000	6.63	17.083	1.93	23.17	1.28
5.000	1.71	11.083	6.63	17.167	1.93	23.25	1.28
5.083	1.71	11.167	6.63	17.250	1.93	23.33	1.28
5.167	1.71	11.250	10.27	17.333	1.93	23.42	1.28
5.250	1.71	11.333	10.27	17.417	1.93	23.50	1.28
5.333	1.71	11.417	10.27	17.500	1.93	23.58	1.28
5.417	1.71	11.500	10.27	17.583	1.93	23.67	1.28
5.500	1.71	11.583	10.27	17.667	1.93	23.75	1.28
5.583	1.71	11.667	10.27	17.750	1.93	23.83	1.28
5.667	1.71	11.750	31.66	17.833	1.93	23.92	1.28
5.750	1.71	11.833	31.67	17.917	1.93	24.00	1.28
5.833	1.71	11.917	81.30	18.000	1.93	24.08	1.28
5.917	1.71	12.000	81.30	18.083	1.93	24.17	1.28
6.000	1.71	12.083	130.94	18.167	1.93		
6.083	1.71	12.167	130.94	18.250	1.93		

Unit Hyd Qpeak (cms)= 0.138

PEAK FLOW (cms)= 0.026 (i)

TIME TO PEAK (hrs)= 12.250

RUNOFF VOLUME (mm)= 14.757

TOTAL RAINFALL (mm)= 106.980

RUNOFF COEFFICIENT = 0.138

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0011) | Area (ha)= 3.37 Curve Number (CN)= 31.2

|ID= 1 DT= 5.0 min | la (mm)= 7.52 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.21

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.71	12.250	15.42	18.33	1.93
0.167	0.00	6.250	1.93	12.333	15.41	18.42	1.93
0.250	1.18	6.333	1.93	12.417	15.41	18.50	1.93
0.333	1.18	6.417	1.93	12.500	15.41	18.58	1.93
0.417	1.18	6.500	1.93	12.583	15.41	18.67	1.93
0.500	1.18	6.583	1.93	12.667	15.41	18.75	1.93
0.583	1.18	6.667	1.93	12.750	7.92	18.83	1.93
0.667	1.18	6.750	1.93	12.833	7.92	18.92	1.93
0.750	1.18	6.833	1.93	12.917	7.92	19.00	1.93
0.833	1.18	6.917	1.93	13.000	7.92	19.08	1.93
0.917	1.18	7.000	1.93	13.083	7.92	19.17	1.93
1.000	1.18	7.083	1.93	13.167	7.92	19.25	1.93
1.083	1.18	7.167	1.93	13.250	5.78	19.33	1.93
1.167	1.18	7.250	2.35	13.333	5.78	19.42	1.93
1.250	1.18	7.333	2.35	13.417	5.78	19.50	1.93
1.333	1.18	7.417	2.35	13.500	5.78	19.58	1.93
1.417	1.18	7.500	2.35	13.583	5.78	19.67	1.93
1.500	1.18	7.583	2.35	13.667	5.78	19.75	1.93
1.583	1.18	7.667	2.35	13.750	4.49	19.83	1.93
1.667	1.18	7.750	2.35	13.833	4.49	19.92	1.93
1.750	1.18	7.833	2.35	13.917	4.49	20.00	1.93
1.833	1.18	7.917	2.35	14.000	4.49	20.08	1.93
1.917	1.18	8.000	2.35	14.083	4.49	20.17	1.93
2.000	1.18	8.083	2.35	14.167	4.49	20.25	1.28
2.083	1.18	8.167	2.35	14.250	3.21	20.33	1.28
2.167	1.18	8.250	2.78	14.333	3.21	20.42	1.28
2.250	1.39	8.333	2.78	14.417	3.21	20.50	1.28
2.333	1.39	8.417	2.78	14.500	3.21	20.58	1.28
2.417	1.39	8.500	2.78	14.583	3.21	20.67	1.28
2.500	1.39	8.583	2.78	14.667	3.21	20.75	1.28
2.583	1.39	8.667	2.78	14.750	3.21	20.83	1.28
2.667	1.39	8.750	3.00	14.833	3.21	20.92	1.28
2.750	1.39	8.833	3.00	14.917	3.21	21.00	1.28
2.833	1.39	8.917	3.00	15.000	3.21	21.08	1.28
2.917	1.39	9.000	3.00	15.083	3.21	21.17	1.28
3.000	1.39	9.083	3.00	15.167	3.21	21.25	1.28
3.083	1.39	9.167	3.00	15.250	3.21	21.33	1.28
3.167	1.39	9.250	3.42	15.333	3.21	21.42	1.28
3.250	1.39	9.333	3.42	15.417	3.21	21.50	1.28
3.333	1.39	9.417	3.42	15.500	3.21	21.58	1.28
3.417	1.39	9.500	3.42	15.583	3.21	21.67	1.28
3.500	1.39	9.583	3.42	15.667	3.21	21.75	1.28
3.583	1.39	9.667	3.42	15.750	3.21	21.83	1.28
3.667	1.39	9.750	3.85	15.833	3.21	21.92	1.28
3.750	1.39	9.833	3.85	15.917	3.21	22.00	1.28
3.833	1.39	9.917	3.85	16.000	3.21	22.08	1.28
3.917	1.39	10.000	3.85	16.083	3.21	22.17	1.28
4.000	1.39	10.083	3.85	16.167	3.21	22.25	1.28
4.083	1.39	10.167	3.85	16.250	1.93	22.33	1.28
4.167	1.39	10.250	4.92	16.333	1.93	22.42	1.28
4.250	1.71	10.333	4.92	16.417	1.93	22.50	1.28
4.333	1.71	10.417	4.92	16.500	1.93	22.58	1.28
4.417	1.71	10.500	4.92	16.583	1.93	22.67	1.28
4.500	1.71	10.583	4.92	16.667	1.93	22.75	1.28
4.583	1.71	10.667	4.92	16.750	1.93	22.83	1.28
4.667	1.71	10.750	6.63	16.833	1.93	22.92	1.28
4.750	1.71	10.833	6.63	16.917	1.93	23.00	1.28
4.833	1.71	10.917	6.63	17.000	1.93	23.08	1.28
4.917	1.71	11.000	6.63	17.083	1.93	23.17	1.28
5.000	1.71	11.083	6.63	17.167	1.93	23.25	1.28
5.083	1.71	11.167	6.63	17.250	1.93	23.33	1.28
5.167	1.71	11.250	10.27	17.333	1.93	23.42	1.28
5.250	1.71	11.333	10.27	17.417	1.93	23.50	1.28
5.333	1.71	11.417	10.27	17.500	1.93	23.58	1.28

5.417	1.71	11.500	10.27	17.583	1.93	23.67	1.28
5.500	1.71	11.583	10.27	17.667	1.93	23.75	1.28
5.583	1.71	11.667	10.27	17.750	1.93	23.83	1.28
5.667	1.71	11.750	31.66	17.833	1.93	23.92	1.28
5.750	1.71	11.833	31.67	17.917	1.93	24.00	1.28
5.833	1.71	11.917	81.30	18.000	1.93	24.08	1.28
5.917	1.71	12.000	81.30	18.083	1.93	24.17	1.28
6.000	1.71	12.083	130.94	18.167	1.93		
6.083	1.71	12.167	130.94	18.250	1.93		

Unit Hyd Qpeak (cms)= 0.613

PEAK FLOW (cms)= 0.115 (i)
TIME TO PEAK (hrs)= 12.250
RUNOFF VOLUME (mm)= 14.975
TOTAL RAINFALL (mm)= 106.980
RUNOFF COEFFICIENT = 0.140

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
| ADD HYD ( 0017)|
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 1 ( 0010): 0.87 0.026 12.25 14.76
+ ID2= 2 ( 0011): 3.37 0.115 12.25 14.97
=====
ID = 3 ( 0017): 4.24 0.141 12.25 14.93

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NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| ADD HYD ( 0017)|
| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 3 ( 0017): 4.24 0.141 12.25 14.93
+ ID2= 2 ( 0009): 1.11 0.074 12.33 39.09
=====
ID = 1 ( 0017): 5.35 0.208 12.25 19.94

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NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| CALIB |
| NASHYD ( 0012)| Area (ha)= 1.60 Curve Number (CN)= 49.7
| ID= 1 DT= 5.0 min | Ia (mm)= 8.23 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.24

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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---- TRANSFORMED HYETOGRAPH ----
TIME RAIN| TIME RAIN| TIME RAIN| TIME RAIN
hrs mm/hr| hrs mm/hr| hrs mm/hr| hrs mm/hr
0.083 0.00|6.167 1.71|12.250 15.42| 18.33 1.93
0.167 0.00|6.250 1.93|12.333 15.41| 18.42 1.93
0.250 1.18|6.333 1.93|12.417 15.41| 18.50 1.93
0.333 1.18|6.417 1.93|12.500 15.41| 18.58 1.93
0.417 1.18|6.500 1.93|12.583 15.41| 18.67 1.93
0.500 1.18|6.583 1.93|12.667 15.41| 18.75 1.93
0.583 1.18|6.667 1.93|12.750 7.92| 18.83 1.93
0.667 1.18|6.750 1.93|12.833 7.92| 18.92 1.93
0.750 1.18|6.833 1.93|12.917 7.92| 19.00 1.93
0.833 1.18|6.917 1.93|13.000 7.92| 19.08 1.93
0.917 1.18|7.000 1.93|13.083 7.92| 19.17 1.93
1.000 1.18|7.083 1.93|13.167 7.92| 19.25 1.93
1.083 1.18|7.167 1.93|13.250 5.78| 19.33 1.93
1.167 1.18|7.250 2.35|13.333 5.78| 19.42 1.93
1.250 1.18|7.333 2.35|13.417 5.78| 19.50 1.93
1.333 1.18|7.417 2.35|13.500 5.78| 19.58 1.93

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1.417	1.18	7.500	2.35	13.583	5.78	19.67	1.93
1.500	1.18	7.583	2.35	13.667	5.78	19.75	1.93
1.583	1.18	7.667	2.35	13.750	4.49	19.83	1.93
1.667	1.18	7.750	2.35	13.833	4.49	19.92	1.93
1.750	1.18	7.833	2.35	13.917	4.49	20.00	1.93
1.833	1.18	7.917	2.35	14.000	4.49	20.08	1.93
1.917	1.18	8.000	2.35	14.083	4.49	20.17	1.93
2.000	1.18	8.083	2.35	14.167	4.49	20.25	1.28
2.083	1.18	8.167	2.35	14.250	3.21	20.33	1.28
2.167	1.18	8.250	2.78	14.333	3.21	20.42	1.28
2.250	1.39	8.333	2.78	14.417	3.21	20.50	1.28
2.333	1.39	8.417	2.78	14.500	3.21	20.58	1.28
2.417	1.39	8.500	2.78	14.583	3.21	20.67	1.28
2.500	1.39	8.583	2.78	14.667	3.21	20.75	1.28
2.583	1.39	8.667	2.78	14.750	3.21	20.83	1.28
2.667	1.39	8.750	3.00	14.833	3.21	20.92	1.28
2.750	1.39	8.833	3.00	14.917	3.21	21.00	1.28
2.833	1.39	8.917	3.00	15.000	3.21	21.08	1.28
2.917	1.39	9.000	3.00	15.083	3.21	21.17	1.28
3.000	1.39	9.083	3.00	15.167	3.21	21.25	1.28
3.083	1.39	9.167	3.00	15.250	3.21	21.33	1.28
3.167	1.39	9.250	3.42	15.333	3.21	21.42	1.28
3.250	1.39	9.333	3.42	15.417	3.21	21.50	1.28
3.333	1.39	9.417	3.42	15.500	3.21	21.58	1.28
3.417	1.39	9.500	3.42	15.583	3.21	21.67	1.28
3.500	1.39	9.583	3.42	15.667	3.21	21.75	1.28
3.583	1.39	9.667	3.42	15.750	3.21	21.83	1.28
3.667	1.39	9.750	3.85	15.833	3.21	21.92	1.28
3.750	1.39	9.833	3.85	15.917	3.21	22.00	1.28
3.833	1.39	9.917	3.85	16.000	3.21	22.08	1.28
3.917	1.39	10.000	3.85	16.083	3.21	22.17	1.28
4.000	1.39	10.083	3.85	16.167	3.21	22.25	1.28
4.083	1.39	10.167	3.85	16.250	1.93	22.33	1.28
4.167	1.39	10.250	4.92	16.333	1.93	22.42	1.28
4.250	1.71	10.333	4.92	16.417	1.93	22.50	1.28
4.333	1.71	10.417	4.92	16.500	1.93	22.58	1.28
4.417	1.71	10.500	4.92	16.583	1.93	22.67	1.28
4.500	1.71	10.583	4.92	16.667	1.93	22.75	1.28
4.583	1.71	10.667	4.92	16.750	1.93	22.83	1.28
4.667	1.71	10.750	6.63	16.833	1.93	22.92	1.28
4.750	1.71	10.833	6.63	16.917	1.93	23.00	1.28
4.833	1.71	10.917	6.63	17.000	1.93	23.08	1.28
4.917	1.71	11.000	6.63	17.083	1.93	23.17	1.28
5.000	1.71	11.083	6.63	17.167	1.93	23.25	1.28
5.083	1.71	11.167	6.63	17.250	1.93	23.33	1.28
5.167	1.71	11.250	10.27	17.333	1.93	23.42	1.28
5.250	1.71	11.333	10.27	17.417	1.93	23.50	1.28
5.333	1.71	11.417	10.27	17.500	1.93	23.58	1.28
5.417	1.71	11.500	10.27	17.583	1.93	23.67	1.28
5.500	1.71	11.583	10.27	17.667	1.93	23.75	1.28
5.583	1.71	11.667	10.27	17.750	1.93	23.83	1.28
5.667	1.71	11.750	31.66	17.833	1.93	23.92	1.28
5.750	1.71	11.833	31.67	17.917	1.93	24.00	1.28
5.833	1.71	11.917	81.30	18.000	1.93	24.08	1.28
5.917	1.71	12.000	81.30	18.083	1.93	24.17	1.28
6.000	1.71	12.083	130.94	18.167	1.93		
6.083	1.71	12.167	130.94	18.250	1.93		

Unit Hyd Qpeak (cms)= 0.255

PEAK FLOW (cms)= 0.093 (i)

TIME TO PEAK (hrs)= 12.250

RUNOFF VOLUME (mm)= 27.380

TOTAL RAINFALL (mm)= 106.980

RUNOFF COEFFICIENT = 0.256

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0013) | Area (ha)= 12.11 Curve Number (CN)= 48.1
 | ID= 1 DT= 5.0 min | Ia (mm)= 11.30 # of Linear Res.(N)= 3.00

----- U.H. Tp(hrs)= 0.55

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.71	12.250	15.42	18.33	1.93
0.167	0.00	6.250	1.93	12.333	15.41	18.42	1.93
0.250	1.18	6.333	1.93	12.417	15.41	18.50	1.93
0.333	1.18	6.417	1.93	12.500	15.41	18.58	1.93
0.417	1.18	6.500	1.93	12.583	15.41	18.67	1.93
0.500	1.18	6.583	1.93	12.667	15.41	18.75	1.93
0.583	1.18	6.667	1.93	12.750	7.92	18.83	1.93
0.667	1.18	6.750	1.93	12.833	7.92	18.92	1.93
0.750	1.18	6.833	1.93	12.917	7.92	19.00	1.93
0.833	1.18	6.917	1.93	13.000	7.92	19.08	1.93
0.917	1.18	7.000	1.93	13.083	7.92	19.17	1.93
1.000	1.18	7.083	1.93	13.167	7.92	19.25	1.93
1.083	1.18	7.167	1.93	13.250	5.78	19.33	1.93
1.167	1.18	7.250	2.35	13.333	5.78	19.42	1.93
1.250	1.18	7.333	2.35	13.417	5.78	19.50	1.93
1.333	1.18	7.417	2.35	13.500	5.78	19.58	1.93
1.417	1.18	7.500	2.35	13.583	5.78	19.67	1.93
1.500	1.18	7.583	2.35	13.667	5.78	19.75	1.93
1.583	1.18	7.667	2.35	13.750	4.49	19.83	1.93
1.667	1.18	7.750	2.35	13.833	4.49	19.92	1.93
1.750	1.18	7.833	2.35	13.917	4.49	20.00	1.93
1.833	1.18	7.917	2.35	14.000	4.49	20.08	1.93
1.917	1.18	8.000	2.35	14.083	4.49	20.17	1.93
2.000	1.18	8.083	2.35	14.167	4.49	20.25	1.28
2.083	1.18	8.167	2.35	14.250	3.21	20.33	1.28
2.167	1.18	8.250	2.78	14.333	3.21	20.42	1.28
2.250	1.39	8.333	2.78	14.417	3.21	20.50	1.28
2.333	1.39	8.417	2.78	14.500	3.21	20.58	1.28
2.417	1.39	8.500	2.78	14.583	3.21	20.67	1.28
2.500	1.39	8.583	2.78	14.667	3.21	20.75	1.28
2.583	1.39	8.667	2.78	14.750	3.21	20.83	1.28
2.667	1.39	8.750	3.00	14.833	3.21	20.92	1.28
2.750	1.39	8.833	3.00	14.917	3.21	21.00	1.28
2.833	1.39	8.917	3.00	15.000	3.21	21.08	1.28
2.917	1.39	9.000	3.00	15.083	3.21	21.17	1.28
3.000	1.39	9.083	3.00	15.167	3.21	21.25	1.28
3.083	1.39	9.167	3.00	15.250	3.21	21.33	1.28
3.167	1.39	9.250	3.42	15.333	3.21	21.42	1.28
3.250	1.39	9.333	3.42	15.417	3.21	21.50	1.28
3.333	1.39	9.417	3.42	15.500	3.21	21.58	1.28
3.417	1.39	9.500	3.42	15.583	3.21	21.67	1.28
3.500	1.39	9.583	3.42	15.667	3.21	21.75	1.28
3.583	1.39	9.667	3.42	15.750	3.21	21.83	1.28
3.667	1.39	9.750	3.85	15.833	3.21	21.92	1.28
3.750	1.39	9.833	3.85	15.917	3.21	22.00	1.28
3.833	1.39	9.917	3.85	16.000	3.21	22.08	1.28
3.917	1.39	10.000	3.85	16.083	3.21	22.17	1.28
4.000	1.39	10.083	3.85	16.167	3.21	22.25	1.28
4.083	1.39	10.167	3.85	16.250	1.93	22.33	1.28
4.167	1.39	10.250	4.92	16.333	1.93	22.42	1.28
4.250	1.71	10.333	4.92	16.417	1.93	22.50	1.28
4.333	1.71	10.417	4.92	16.500	1.93	22.58	1.28
4.417	1.71	10.500	4.92	16.583	1.93	22.67	1.28
4.500	1.71	10.583	4.92	16.667	1.93	22.75	1.28
4.583	1.71	10.667	4.92	16.750	1.93	22.83	1.28
4.667	1.71	10.750	6.63	16.833	1.93	22.92	1.28
4.750	1.71	10.833	6.63	16.917	1.93	23.00	1.28
4.833	1.71	10.917	6.63	17.000	1.93	23.08	1.28
4.917	1.71	11.000	6.63	17.083	1.93	23.17	1.28
5.000	1.71	11.083	6.63	17.167	1.93	23.25	1.28
5.083	1.71	11.167	6.63	17.250	1.93	23.33	1.28
5.167	1.71	11.250	10.27	17.333	1.93	23.42	1.28
5.250	1.71	11.333	10.27	17.417	1.93	23.50	1.28
5.333	1.71	11.417	10.27	17.500	1.93	23.58	1.28
5.417	1.71	11.500	10.27	17.583	1.93	23.67	1.28

5.500	1.71	11.583	10.27	17.667	1.93	23.75	1.28
5.583	1.71	11.667	10.27	17.750	1.93	23.83	1.28
5.667	1.71	11.750	31.66	17.833	1.93	23.92	1.28
5.750	1.71	11.833	31.67	17.917	1.93	24.00	1.28
5.833	1.71	11.917	81.30	18.000	1.93	24.08	1.28
5.917	1.71	12.000	81.30	18.083	1.93	24.17	1.28
6.000	1.71	12.083	130.94	18.167	1.93		
6.083	1.71	12.167	130.94	18.250	1.93		

Unit Hyd Qpeak (cms)= 0.841

PEAK FLOW (cms)= 0.352 (i)
 TIME TO PEAK (hrs)= 12.667
 RUNOFF VOLUME (mm)= 24.758
 TOTAL RAINFALL (mm)= 106.980
 RUNOFF COEFFICIENT = 0.231

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0014)| Area (ha)= 14.45 Curve Number (CN)= 32.0
 | ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.81

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.71	12.250	15.42	18.33	1.93
0.167	0.00	6.250	1.93	12.333	15.41	18.42	1.93
0.250	1.18	6.333	1.93	12.417	15.41	18.50	1.93
0.333	1.18	6.417	1.93	12.500	15.41	18.58	1.93
0.417	1.18	6.500	1.93	12.583	15.41	18.67	1.93
0.500	1.18	6.583	1.93	12.667	15.41	18.75	1.93
0.583	1.18	6.667	1.93	12.750	7.92	18.83	1.93
0.667	1.18	6.750	1.93	12.833	7.92	18.92	1.93
0.750	1.18	6.833	1.93	12.917	7.92	19.00	1.93
0.833	1.18	6.917	1.93	13.000	7.92	19.08	1.93
0.917	1.18	7.000	1.93	13.083	7.92	19.17	1.93
1.000	1.18	7.083	1.93	13.167	7.92	19.25	1.93
1.083	1.18	7.167	1.93	13.250	5.78	19.33	1.93
1.167	1.18	7.250	2.35	13.333	5.78	19.42	1.93
1.250	1.18	7.333	2.35	13.417	5.78	19.50	1.93
1.333	1.18	7.417	2.35	13.500	5.78	19.58	1.93
1.417	1.18	7.500	2.35	13.583	5.78	19.67	1.93
1.500	1.18	7.583	2.35	13.667	5.78	19.75	1.93
1.583	1.18	7.667	2.35	13.750	4.49	19.83	1.93
1.667	1.18	7.750	2.35	13.833	4.49	19.92	1.93
1.750	1.18	7.833	2.35	13.917	4.49	20.00	1.93
1.833	1.18	7.917	2.35	14.000	4.49	20.08	1.93
1.917	1.18	8.000	2.35	14.083	4.49	20.17	1.93
2.000	1.18	8.083	2.35	14.167	4.49	20.25	1.28
2.083	1.18	8.167	2.35	14.250	3.21	20.33	1.28
2.167	1.18	8.250	2.78	14.333	3.21	20.42	1.28
2.250	1.39	8.333	2.78	14.417	3.21	20.50	1.28
2.333	1.39	8.417	2.78	14.500	3.21	20.58	1.28
2.417	1.39	8.500	2.78	14.583	3.21	20.67	1.28
2.500	1.39	8.583	2.78	14.667	3.21	20.75	1.28
2.583	1.39	8.667	2.78	14.750	3.21	20.83	1.28
2.667	1.39	8.750	3.00	14.833	3.21	20.92	1.28
2.750	1.39	8.833	3.00	14.917	3.21	21.00	1.28
2.833	1.39	8.917	3.00	15.000	3.21	21.08	1.28
2.917	1.39	9.000	3.00	15.083	3.21	21.17	1.28
3.000	1.39	9.083	3.00	15.167	3.21	21.25	1.28
3.083	1.39	9.167	3.00	15.250	3.21	21.33	1.28
3.167	1.39	9.250	3.42	15.333	3.21	21.42	1.28
3.250	1.39	9.333	3.42	15.417	3.21	21.50	1.28
3.333	1.39	9.417	3.42	15.500	3.21	21.58	1.28
3.417	1.39	9.500	3.42	15.583	3.21	21.67	1.28

3.500	1.39	9.583	3.42	15.667	3.21	21.75	1.28
3.583	1.39	9.667	3.42	15.750	3.21	21.83	1.28
3.667	1.39	9.750	3.85	15.833	3.21	21.92	1.28
3.750	1.39	9.833	3.85	15.917	3.21	22.00	1.28
3.833	1.39	9.917	3.85	16.000	3.21	22.08	1.28
3.917	1.39	10.000	3.85	16.083	3.21	22.17	1.28
4.000	1.39	10.083	3.85	16.167	3.21	22.25	1.28
4.083	1.39	10.167	3.85	16.250	1.93	22.33	1.28
4.167	1.39	10.250	4.92	16.333	1.93	22.42	1.28
4.250	1.71	10.333	4.92	16.417	1.93	22.50	1.28
4.333	1.71	10.417	4.92	16.500	1.93	22.58	1.28
4.417	1.71	10.500	4.92	16.583	1.93	22.67	1.28
4.500	1.71	10.583	4.92	16.667	1.93	22.75	1.28
4.583	1.71	10.667	4.92	16.750	1.93	22.83	1.28
4.667	1.71	10.750	6.63	16.833	1.93	22.92	1.28
4.750	1.71	10.833	6.63	16.917	1.93	23.00	1.28
4.833	1.71	10.917	6.63	17.000	1.93	23.08	1.28
4.917	1.71	11.000	6.63	17.083	1.93	23.17	1.28
5.000	1.71	11.083	6.63	17.167	1.93	23.25	1.28
5.083	1.71	11.167	6.63	17.250	1.93	23.33	1.28
5.167	1.71	11.250	10.27	17.333	1.93	23.42	1.28
5.250	1.71	11.333	10.27	17.417	1.93	23.50	1.28
5.333	1.71	11.417	10.27	17.500	1.93	23.58	1.28
5.417	1.71	11.500	10.27	17.583	1.93	23.67	1.28
5.500	1.71	11.583	10.27	17.667	1.93	23.75	1.28
5.583	1.71	11.667	10.27	17.750	1.93	23.83	1.28
5.667	1.71	11.750	31.66	17.833	1.93	23.92	1.28
5.750	1.71	11.833	31.67	17.917	1.93	24.00	1.28
5.833	1.71	11.917	81.30	18.000	1.93	24.08	1.28
5.917	1.71	12.000	81.30	18.083	1.93	24.17	1.28
6.000	1.71	12.083	130.94	18.167	1.93		
6.083	1.71	12.167	130.94	18.250	1.93		

Unit Hyd Qpeak (cms)= 0.681

PEAK FLOW (cms)= 0.185 (i)
TIME TO PEAK (hrs)= 12.917
RUNOFF VOLUME (mm)= 14.771
TOTAL RAINFALL (mm)= 106.980
RUNOFF COEFFICIENT = 0.138

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

| ADD HYD ( 0019)|
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
|----- (ha) (cms) (hrs) (mm)
ID1= 1 ( 0001): 2.64 0.049 12.75 17.43
+ ID2= 2 ( 0012): 1.60 0.093 12.25 27.38
=====
ID = 3 ( 0019): 4.24 0.125 12.33 21.19

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

| ADD HYD ( 0019)|
| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
|----- (ha) (cms) (hrs) (mm)
ID1= 3 ( 0019): 4.24 0.125 12.33 21.19
+ ID2= 2 ( 0013): 12.11 0.352 12.67 24.76
=====
ID = 1 ( 0019): 16.35 0.451 12.58 23.83

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

| ADD HYD ( 0019)|
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
|----- (ha) (cms) (hrs) (mm)

```

ID1= 1 (0019): 16.35 0.451 12.58 23.83
+ ID2= 2 (0014): 14.45 0.185 12.92 14.77

=====

ID = 3 (0019): 30.80 0.613 12.67 19.58

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|

| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)

ID1= 3 (0019): 30.80 0.613 12.67 19.58

+ ID2= 2 (0016): 3.21 0.104 12.25 22.23

=====

ID = 1 (0019): 34.01 0.689 12.67 19.83

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|

| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)

ID1= 1 (0019): 34.01 0.689 12.67 19.83

+ ID2= 2 (0017): 5.35 0.208 12.25 19.94

=====

ID = 3 (0019): 39.36 0.831 12.50 19.85

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|

| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)

ID1= 3 (0019): 39.36 0.831 12.50 19.85

+ ID2= 2 (0002): 1.25 0.053 12.25 18.95

=====

ID = 1 (0019): 40.61 0.871 12.42 19.82

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|

| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)

ID1= 1 (0019): 40.61 0.871 12.42 19.82

+ ID2= 2 (0005): 9.65 0.136 12.83 14.77

=====

ID = 3 (0019): 50.26 0.977 12.50 18.85

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|

| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)

ID1= 3 (0019): 50.26 0.977 12.50 18.85

+ ID2= 2 (0006): 1.82 0.048 12.33 14.76

=====

ID = 1 (0019): 52.08 1.019 12.50 18.71

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|

| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)

ID1= 1 (0019): 52.08 1.019 12.50 18.71

+ ID2= 2 (0007): 1.70 0.097 12.50 39.10
=====

ID = 3 (0019): 53.78 1.115 12.50 19.35

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|

	3 + 2 = 1	AREA	QPEAK	TPEAK	R.V.
		(ha)	(cms)	(hrs)	(mm)
ID1= 3 (0019):	53.78	1.115	12.50	19.35	
+ ID2= 2 (0008):	0.23	0.006	12.42	14.76	
=====					
ID = 1 (0019):	54.01	1.121	12.50	19.33	

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

=====

V V I SSSSS U U A L (v 6.2.2015)

V V I SS U U AA L

V V I SS U U AAAAA L

V V I SS U U A A L

VV I SSSSS UUUUU A A LLLLL

OOO TTTT TTTT H H Y Y M M OOO TM

O O T T H H YY MM MM O O

O O T T H H Y M M O O

OOO T T H H Y M M OOO

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***** DETAILED OUTPUT *****

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.2\VO2\voindat

Output filename: C:\Users\ajoshi\AppData\Local\Civica\XH5\152aa03f-7064-4fdb-bb4c-0cf677e1e463\000216f9-6d2f-42fd-8e1e-3937a212a7aa\scena

Summary filename: C:\Users\ajoshi\AppData\Local\Civica\XH5\152aa03f-7064-4fdb-bb4c-0cf677e1e463\000216f9-6d2f-42fd-8e1e-3937a212a7aa\scena

DATE: 04-25-2025 TIME: 03:57:17

USER:

COMMENTS: _____

** SIMULATION : 2yr 24hr 10min SCS Type II (M **

| READ STORM | Filename: C:\Users\ajoshi\AppData

| | ata\Local\Temp\

| | 2e45309f-1d89-4d82-bfac-9f33c63413d7\363b3ce

| Ptotal= 56.74 mm | Comments: 2yr 24hr 10min SCS Type II (MTO)

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.00	0.00	6.17	1.02	12.33	8.17	18.50	1.02
0.17	0.62	6.33	1.02	12.50	8.17	18.67	1.02
0.33	0.62	6.50	1.02	12.67	4.20	18.83	1.02
0.50	0.62	6.67	1.02	12.83	4.20	19.00	1.02
0.67	0.62	6.83	1.02	13.00	4.20	19.17	1.02
0.83	0.62	7.00	1.02	13.17	3.06	19.33	1.02
1.00	0.62	7.17	1.25	13.33	3.06	19.50	1.02

| CALIB |
 | NASHYD (0015) | Area (ha)= 3.24 Curve Number (CN)= 37.0
 | ID= 1 DT= 5.0 min | Ia (mm)= 11.14 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.41

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	0.91	12.250	8.18	18.33	1.02
0.167	0.00	6.250	1.02	12.333	8.17	18.42	1.02
0.250	0.62	6.333	1.02	12.417	8.17	18.50	1.02
0.333	0.62	6.417	1.02	12.500	8.17	18.58	1.02
0.417	0.62	6.500	1.02	12.583	8.17	18.67	1.02
0.500	0.62	6.583	1.02	12.667	8.17	18.75	1.02
0.583	0.62	6.667	1.02	12.750	4.20	18.83	1.02
0.667	0.62	6.750	1.02	12.833	4.20	18.92	1.02
0.750	0.62	6.833	1.02	12.917	4.20	19.00	1.02
0.833	0.62	6.917	1.02	13.000	4.20	19.08	1.02
0.917	0.62	7.000	1.02	13.083	4.20	19.17	1.02
1.000	0.62	7.083	1.02	13.167	4.20	19.25	1.02
1.083	0.62	7.167	1.02	13.250	3.06	19.33	1.02
1.167	0.62	7.250	1.25	13.333	3.06	19.42	1.02
1.250	0.62	7.333	1.25	13.417	3.06	19.50	1.02
1.333	0.62	7.417	1.25	13.500	3.06	19.58	1.02
1.417	0.62	7.500	1.25	13.583	3.06	19.67	1.02
1.500	0.62	7.583	1.25	13.667	3.06	19.75	1.02
1.583	0.62	7.667	1.25	13.750	2.38	19.83	1.02
1.667	0.62	7.750	1.25	13.833	2.38	19.92	1.02
1.750	0.62	7.833	1.25	13.917	2.38	20.00	1.02
1.833	0.62	7.917	1.25	14.000	2.38	20.08	1.02
1.917	0.62	8.000	1.25	14.083	2.38	20.17	1.02
2.000	0.62	8.083	1.25	14.167	2.38	20.25	0.68
2.083	0.62	8.167	1.25	14.250	1.70	20.33	0.68
2.167	0.62	8.250	1.48	14.333	1.70	20.42	0.68
2.250	0.74	8.333	1.48	14.417	1.70	20.50	0.68
2.333	0.74	8.417	1.48	14.500	1.70	20.58	0.68

2.417	0.74	8.500	1.48	14.583	1.70	20.67	0.68
2.500	0.74	8.583	1.48	14.667	1.70	20.75	0.68
2.583	0.74	8.667	1.48	14.750	1.70	20.83	0.68
2.667	0.74	8.750	1.59	14.833	1.70	20.92	0.68
2.750	0.74	8.833	1.59	14.917	1.70	21.00	0.68
2.833	0.74	8.917	1.59	15.000	1.70	21.08	0.68
2.917	0.74	9.000	1.59	15.083	1.70	21.17	0.68
3.000	0.74	9.083	1.59	15.167	1.70	21.25	0.68
3.083	0.74	9.167	1.59	15.250	1.70	21.33	0.68
3.167	0.74	9.250	1.82	15.333	1.70	21.42	0.68
3.250	0.74	9.333	1.82	15.417	1.70	21.50	0.68
3.333	0.74	9.417	1.82	15.500	1.70	21.58	0.68
3.417	0.74	9.500	1.82	15.583	1.70	21.67	0.68
3.500	0.74	9.583	1.82	15.667	1.70	21.75	0.68
3.583	0.74	9.667	1.82	15.750	1.70	21.83	0.68
3.667	0.74	9.750	2.04	15.833	1.70	21.92	0.68
3.750	0.74	9.833	2.04	15.917	1.70	22.00	0.68
3.833	0.74	9.917	2.04	16.000	1.70	22.08	0.68
3.917	0.74	10.000	2.04	16.083	1.70	22.17	0.68
4.000	0.74	10.083	2.04	16.167	1.70	22.25	0.68
4.083	0.74	10.167	2.04	16.250	1.02	22.33	0.68
4.167	0.74	10.250	2.61	16.333	1.02	22.42	0.68
4.250	0.91	10.333	2.61	16.417	1.02	22.50	0.68
4.333	0.91	10.417	2.61	16.500	1.02	22.58	0.68
4.417	0.91	10.500	2.61	16.583	1.02	22.67	0.68
4.500	0.91	10.583	2.61	16.667	1.02	22.75	0.68
4.583	0.91	10.667	2.61	16.750	1.02	22.83	0.68
4.667	0.91	10.750	3.52	16.833	1.02	22.92	0.68
4.750	0.91	10.833	3.52	16.917	1.02	23.00	0.68
4.833	0.91	10.917	3.52	17.000	1.02	23.08	0.68
4.917	0.91	11.000	3.52	17.083	1.02	23.17	0.68
5.000	0.91	11.083	3.52	17.167	1.02	23.25	0.68
5.083	0.91	11.167	3.52	17.250	1.02	23.33	0.68
5.167	0.91	11.250	5.45	17.333	1.02	23.42	0.68
5.250	0.91	11.333	5.45	17.417	1.02	23.50	0.68
5.333	0.91	11.417	5.45	17.500	1.02	23.58	0.68
5.417	0.91	11.500	5.45	17.583	1.02	23.67	0.68
5.500	0.91	11.583	5.45	17.667	1.02	23.75	0.68
5.583	0.91	11.667	5.45	17.750	1.02	23.83	0.68
5.667	0.91	11.750	16.79	17.833	1.02	23.92	0.68
5.750	0.91	11.833	16.80	17.917	1.02	24.00	0.68
5.833	0.91	11.917	43.12	18.000	1.02	24.08	0.68
5.917	0.91	12.000	43.12	18.083	1.02	24.17	0.68
6.000	0.91	12.083	69.45	18.167	1.02		
6.083	0.91	12.167	69.45	18.250	1.02		

Unit Hyd Qpeak (cms)= 0.302

PEAK FLOW (cms)= 0.019 (i)

TIME TO PEAK (hrs)= 12.500

RUNOFF VOLUME (mm)= 4.349

TOTAL RAINFALL (mm)= 56.740

RUNOFF COEFFICIENT = 0.077

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0001) | Area (ha)= 2.64 Curve Number (CN)= 36.2
| ID= 1 DT= 5.0 min | Ia (mm)= 9.50 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.61

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN		
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr		
0.083	0.00	6.167	0.91	12.250	8.18	18.33	1.02
0.167	0.00	6.250	1.02	12.333	8.17	18.42	1.02
0.250	0.62	6.333	1.02	12.417	8.17	18.50	1.02
0.333	0.62	6.417	1.02	12.500	8.17	18.58	1.02

0.417	0.62	6.500	1.02	12.583	8.17	18.67	1.02
0.500	0.62	6.583	1.02	12.667	8.17	18.75	1.02
0.583	0.62	6.667	1.02	12.750	4.20	18.83	1.02
0.667	0.62	6.750	1.02	12.833	4.20	18.92	1.02
0.750	0.62	6.833	1.02	12.917	4.20	19.00	1.02
0.833	0.62	6.917	1.02	13.000	4.20	19.08	1.02
0.917	0.62	7.000	1.02	13.083	4.20	19.17	1.02
1.000	0.62	7.083	1.02	13.167	4.20	19.25	1.02
1.083	0.62	7.167	1.02	13.250	3.06	19.33	1.02
1.167	0.62	7.250	1.25	13.333	3.06	19.42	1.02
1.250	0.62	7.333	1.25	13.417	3.06	19.50	1.02
1.333	0.62	7.417	1.25	13.500	3.06	19.58	1.02
1.417	0.62	7.500	1.25	13.583	3.06	19.67	1.02
1.500	0.62	7.583	1.25	13.667	3.06	19.75	1.02
1.583	0.62	7.667	1.25	13.750	2.38	19.83	1.02
1.667	0.62	7.750	1.25	13.833	2.38	19.92	1.02
1.750	0.62	7.833	1.25	13.917	2.38	20.00	1.02
1.833	0.62	7.917	1.25	14.000	2.38	20.08	1.02
1.917	0.62	8.000	1.25	14.083	2.38	20.17	1.02
2.000	0.62	8.083	1.25	14.167	2.38	20.25	0.68
2.083	0.62	8.167	1.25	14.250	1.70	20.33	0.68
2.167	0.62	8.250	1.48	14.333	1.70	20.42	0.68
2.250	0.74	8.333	1.48	14.417	1.70	20.50	0.68
2.333	0.74	8.417	1.48	14.500	1.70	20.58	0.68
2.417	0.74	8.500	1.48	14.583	1.70	20.67	0.68
2.500	0.74	8.583	1.48	14.667	1.70	20.75	0.68
2.583	0.74	8.667	1.48	14.750	1.70	20.83	0.68
2.667	0.74	8.750	1.59	14.833	1.70	20.92	0.68
2.750	0.74	8.833	1.59	14.917	1.70	21.00	0.68
2.833	0.74	8.917	1.59	15.000	1.70	21.08	0.68
2.917	0.74	9.000	1.59	15.083	1.70	21.17	0.68
3.000	0.74	9.083	1.59	15.167	1.70	21.25	0.68
3.083	0.74	9.167	1.59	15.250	1.70	21.33	0.68
3.167	0.74	9.250	1.82	15.333	1.70	21.42	0.68
3.250	0.74	9.333	1.82	15.417	1.70	21.50	0.68
3.333	0.74	9.417	1.82	15.500	1.70	21.58	0.68
3.417	0.74	9.500	1.82	15.583	1.70	21.67	0.68
3.500	0.74	9.583	1.82	15.667	1.70	21.75	0.68
3.583	0.74	9.667	1.82	15.750	1.70	21.83	0.68
3.667	0.74	9.750	2.04	15.833	1.70	21.92	0.68
3.750	0.74	9.833	2.04	15.917	1.70	22.00	0.68
3.833	0.74	9.917	2.04	16.000	1.70	22.08	0.68
3.917	0.74	10.000	2.04	16.083	1.70	22.17	0.68
4.000	0.74	10.083	2.04	16.167	1.70	22.25	0.68
4.083	0.74	10.167	2.04	16.250	1.02	22.33	0.68
4.167	0.74	10.250	2.61	16.333	1.02	22.42	0.68
4.250	0.91	10.333	2.61	16.417	1.02	22.50	0.68
4.333	0.91	10.417	2.61	16.500	1.02	22.58	0.68
4.417	0.91	10.500	2.61	16.583	1.02	22.67	0.68
4.500	0.91	10.583	2.61	16.667	1.02	22.75	0.68
4.583	0.91	10.667	2.61	16.750	1.02	22.83	0.68
4.667	0.91	10.750	3.52	16.833	1.02	22.92	0.68
4.750	0.91	10.833	3.52	16.917	1.02	23.00	0.68
4.833	0.91	10.917	3.52	17.000	1.02	23.08	0.68
4.917	0.91	11.000	3.52	17.083	1.02	23.17	0.68
5.000	0.91	11.083	3.52	17.167	1.02	23.25	0.68
5.083	0.91	11.167	3.52	17.250	1.02	23.33	0.68
5.167	0.91	11.250	5.45	17.333	1.02	23.42	0.68
5.250	0.91	11.333	5.45	17.417	1.02	23.50	0.68
5.333	0.91	11.417	5.45	17.500	1.02	23.58	0.68
5.417	0.91	11.500	5.45	17.583	1.02	23.67	0.68
5.500	0.91	11.583	5.45	17.667	1.02	23.75	0.68
5.583	0.91	11.667	5.45	17.750	1.02	23.83	0.68
5.667	0.91	11.750	16.79	17.833	1.02	23.92	0.68
5.750	0.91	11.833	16.80	17.917	1.02	24.00	0.68
5.833	0.91	11.917	43.12	18.000	1.02	24.08	0.68
5.917	0.91	12.000	43.12	18.083	1.02	24.17	0.68
6.000	0.91	12.083	69.45	18.167	1.02		
6.083	0.91	12.167	69.45	18.250	1.02		

Unit Hyd Qpeak (cms)= 0.165

PEAK FLOW (cms)= 0.012 (i)

TIME TO PEAK (hrs)= 12.750
RUNOFF VOLUME (mm)= 4.509
TOTAL RAINFALL (mm)= 56.740
RUNOFF COEFFICIENT = 0.079

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0002) | Area (ha)= 1.25 Curve Number (CN)= 38.5
| ID= 1 DT= 5.0 min | Ia (mm)= 9.23 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.22

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	0.91	12.250	8.18	18.33	1.02
0.167	0.00	6.250	1.02	12.333	8.17	18.42	1.02
0.250	0.62	6.333	1.02	12.417	8.17	18.50	1.02
0.333	0.62	6.417	1.02	12.500	8.17	18.58	1.02
0.417	0.62	6.500	1.02	12.583	8.17	18.67	1.02
0.500	0.62	6.583	1.02	12.667	8.17	18.75	1.02
0.583	0.62	6.667	1.02	12.750	4.20	18.83	1.02
0.667	0.62	6.750	1.02	12.833	4.20	18.92	1.02
0.750	0.62	6.833	1.02	12.917	4.20	19.00	1.02
0.833	0.62	6.917	1.02	13.000	4.20	19.08	1.02
0.917	0.62	7.000	1.02	13.083	4.20	19.17	1.02
1.000	0.62	7.083	1.02	13.167	4.20	19.25	1.02
1.083	0.62	7.167	1.02	13.250	3.06	19.33	1.02
1.167	0.62	7.250	1.25	13.333	3.06	19.42	1.02
1.250	0.62	7.333	1.25	13.417	3.06	19.50	1.02
1.333	0.62	7.417	1.25	13.500	3.06	19.58	1.02
1.417	0.62	7.500	1.25	13.583	3.06	19.67	1.02
1.500	0.62	7.583	1.25	13.667	3.06	19.75	1.02
1.583	0.62	7.667	1.25	13.750	2.38	19.83	1.02
1.667	0.62	7.750	1.25	13.833	2.38	19.92	1.02
1.750	0.62	7.833	1.25	13.917	2.38	20.00	1.02
1.833	0.62	7.917	1.25	14.000	2.38	20.08	1.02
1.917	0.62	8.000	1.25	14.083	2.38	20.17	1.02
2.000	0.62	8.083	1.25	14.167	2.38	20.25	0.68
2.083	0.62	8.167	1.25	14.250	1.70	20.33	0.68
2.167	0.62	8.250	1.48	14.333	1.70	20.42	0.68
2.250	0.74	8.333	1.48	14.417	1.70	20.50	0.68
2.333	0.74	8.417	1.48	14.500	1.70	20.58	0.68
2.417	0.74	8.500	1.48	14.583	1.70	20.67	0.68
2.500	0.74	8.583	1.48	14.667	1.70	20.75	0.68
2.583	0.74	8.667	1.48	14.750	1.70	20.83	0.68
2.667	0.74	8.750	1.59	14.833	1.70	20.92	0.68
2.750	0.74	8.833	1.59	14.917	1.70	21.00	0.68
2.833	0.74	8.917	1.59	15.000	1.70	21.08	0.68
2.917	0.74	9.000	1.59	15.083	1.70	21.17	0.68
3.000	0.74	9.083	1.59	15.167	1.70	21.25	0.68
3.083	0.74	9.167	1.59	15.250	1.70	21.33	0.68
3.167	0.74	9.250	1.82	15.333	1.70	21.42	0.68
3.250	0.74	9.333	1.82	15.417	1.70	21.50	0.68
3.333	0.74	9.417	1.82	15.500	1.70	21.58	0.68
3.417	0.74	9.500	1.82	15.583	1.70	21.67	0.68
3.500	0.74	9.583	1.82	15.667	1.70	21.75	0.68
3.583	0.74	9.667	1.82	15.750	1.70	21.83	0.68
3.667	0.74	9.750	2.04	15.833	1.70	21.92	0.68
3.750	0.74	9.833	2.04	15.917	1.70	22.00	0.68
3.833	0.74	9.917	2.04	16.000	1.70	22.08	0.68
3.917	0.74	10.000	2.04	16.083	1.70	22.17	0.68
4.000	0.74	10.083	2.04	16.167	1.70	22.25	0.68
4.083	0.74	10.167	2.04	16.250	1.02	22.33	0.68
4.167	0.74	10.250	2.61	16.333	1.02	22.42	0.68
4.250	0.91	10.333	2.61	16.417	1.02	22.50	0.68
4.333	0.91	10.417	2.61	16.500	1.02	22.58	0.68
4.417	0.91	10.500	2.61	16.583	1.02	22.67	0.68

4.500	0.91	10.583	2.61	16.667	1.02	22.75	0.68
4.583	0.91	10.667	2.61	16.750	1.02	22.83	0.68
4.667	0.91	10.750	3.52	16.833	1.02	22.92	0.68
4.750	0.91	10.833	3.52	16.917	1.02	23.00	0.68
4.833	0.91	10.917	3.52	17.000	1.02	23.08	0.68
4.917	0.91	11.000	3.52	17.083	1.02	23.17	0.68
5.000	0.91	11.083	3.52	17.167	1.02	23.25	0.68
5.083	0.91	11.167	3.52	17.250	1.02	23.33	0.68
5.167	0.91	11.250	5.45	17.333	1.02	23.42	0.68
5.250	0.91	11.333	5.45	17.417	1.02	23.50	0.68
5.333	0.91	11.417	5.45	17.500	1.02	23.58	0.68
5.417	0.91	11.500	5.45	17.583	1.02	23.67	0.68
5.500	0.91	11.583	5.45	17.667	1.02	23.75	0.68
5.583	0.91	11.667	5.45	17.750	1.02	23.83	0.68
5.667	0.91	11.750	16.79	17.833	1.02	23.92	0.68
5.750	0.91	11.833	16.80	17.917	1.02	24.00	0.68
5.833	0.91	11.917	43.12	18.000	1.02	24.08	0.68
5.917	0.91	12.000	43.12	18.083	1.02	24.17	0.68
6.000	0.91	12.083	69.45	18.167	1.02		
6.083	0.91	12.167	69.45	18.250	1.02		

Unit Hyd Qpeak (cms)= 0.217

PEAK FLOW (cms)= 0.013 (i)

TIME TO PEAK (hrs)= 12.250

RUNOFF VOLUME (mm)= 4.973

TOTAL RAINFALL (mm)= 56.740

RUNOFF COEFFICIENT = 0.088

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0003) | Area (ha)= 2.55 Curve Number (CN)= 36.9
 | ID= 1 DT= 5.0 min | Ia (mm)= 9.42 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.49

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	0.91	12.250	8.18	18.33	1.02
0.167	0.00	6.250	1.02	12.333	8.17	18.42	1.02
0.250	0.62	6.333	1.02	12.417	8.17	18.50	1.02
0.333	0.62	6.417	1.02	12.500	8.17	18.58	1.02
0.417	0.62	6.500	1.02	12.583	8.17	18.67	1.02
0.500	0.62	6.583	1.02	12.667	8.17	18.75	1.02
0.583	0.62	6.667	1.02	12.750	4.20	18.83	1.02
0.667	0.62	6.750	1.02	12.833	4.20	18.92	1.02
0.750	0.62	6.833	1.02	12.917	4.20	19.00	1.02
0.833	0.62	6.917	1.02	13.000	4.20	19.08	1.02
0.917	0.62	7.000	1.02	13.083	4.20	19.17	1.02
1.000	0.62	7.083	1.02	13.167	4.20	19.25	1.02
1.083	0.62	7.167	1.02	13.250	3.06	19.33	1.02
1.167	0.62	7.250	1.25	13.333	3.06	19.42	1.02
1.250	0.62	7.333	1.25	13.417	3.06	19.50	1.02
1.333	0.62	7.417	1.25	13.500	3.06	19.58	1.02
1.417	0.62	7.500	1.25	13.583	3.06	19.67	1.02
1.500	0.62	7.583	1.25	13.667	3.06	19.75	1.02
1.583	0.62	7.667	1.25	13.750	2.38	19.83	1.02
1.667	0.62	7.750	1.25	13.833	2.38	19.92	1.02
1.750	0.62	7.833	1.25	13.917	2.38	20.00	1.02
1.833	0.62	7.917	1.25	14.000	2.38	20.08	1.02
1.917	0.62	8.000	1.25	14.083	2.38	20.17	1.02
2.000	0.62	8.083	1.25	14.167	2.38	20.25	0.68
2.083	0.62	8.167	1.25	14.250	1.70	20.33	0.68
2.167	0.62	8.250	1.48	14.333	1.70	20.42	0.68
2.250	0.74	8.333	1.48	14.417	1.70	20.50	0.68
2.333	0.74	8.417	1.48	14.500	1.70	20.58	0.68
2.417	0.74	8.500	1.48	14.583	1.70	20.67	0.68

2.500	0.74	8.583	1.48	14.667	1.70	20.75	0.68
2.583	0.74	8.667	1.48	14.750	1.70	20.83	0.68
2.667	0.74	8.750	1.59	14.833	1.70	20.92	0.68
2.750	0.74	8.833	1.59	14.917	1.70	21.00	0.68
2.833	0.74	8.917	1.59	15.000	1.70	21.08	0.68
2.917	0.74	9.000	1.59	15.083	1.70	21.17	0.68
3.000	0.74	9.083	1.59	15.167	1.70	21.25	0.68
3.083	0.74	9.167	1.59	15.250	1.70	21.33	0.68
3.167	0.74	9.250	1.82	15.333	1.70	21.42	0.68
3.250	0.74	9.333	1.82	15.417	1.70	21.50	0.68
3.333	0.74	9.417	1.82	15.500	1.70	21.58	0.68
3.417	0.74	9.500	1.82	15.583	1.70	21.67	0.68
3.500	0.74	9.583	1.82	15.667	1.70	21.75	0.68
3.583	0.74	9.667	1.82	15.750	1.70	21.83	0.68
3.667	0.74	9.750	2.04	15.833	1.70	21.92	0.68
3.750	0.74	9.833	2.04	15.917	1.70	22.00	0.68
3.833	0.74	9.917	2.04	16.000	1.70	22.08	0.68
3.917	0.74	10.000	2.04	16.083	1.70	22.17	0.68
4.000	0.74	10.083	2.04	16.167	1.70	22.25	0.68
4.083	0.74	10.167	2.04	16.250	1.02	22.33	0.68
4.167	0.74	10.250	2.61	16.333	1.02	22.42	0.68
4.250	0.91	10.333	2.61	16.417	1.02	22.50	0.68
4.333	0.91	10.417	2.61	16.500	1.02	22.58	0.68
4.417	0.91	10.500	2.61	16.583	1.02	22.67	0.68
4.500	0.91	10.583	2.61	16.667	1.02	22.75	0.68
4.583	0.91	10.667	2.61	16.750	1.02	22.83	0.68
4.667	0.91	10.750	3.52	16.833	1.02	22.92	0.68
4.750	0.91	10.833	3.52	16.917	1.02	23.00	0.68
4.833	0.91	10.917	3.52	17.000	1.02	23.08	0.68
4.917	0.91	11.000	3.52	17.083	1.02	23.17	0.68
5.000	0.91	11.083	3.52	17.167	1.02	23.25	0.68
5.083	0.91	11.167	3.52	17.250	1.02	23.33	0.68
5.167	0.91	11.250	5.45	17.333	1.02	23.42	0.68
5.250	0.91	11.333	5.45	17.417	1.02	23.50	0.68
5.333	0.91	11.417	5.45	17.500	1.02	23.58	0.68
5.417	0.91	11.500	5.45	17.583	1.02	23.67	0.68
5.500	0.91	11.583	5.45	17.667	1.02	23.75	0.68
5.583	0.91	11.667	5.45	17.750	1.02	23.83	0.68
5.667	0.91	11.750	16.79	17.833	1.02	23.92	0.68
5.750	0.91	11.833	16.80	17.917	1.02	24.00	0.68
5.833	0.91	11.917	43.12	18.000	1.02	24.08	0.68
5.917	0.91	12.000	43.12	18.083	1.02	24.17	0.68
6.000	0.91	12.083	69.45	18.167	1.02		
6.083	0.91	12.167	69.45	18.250	1.02		

Unit Hyd Qpeak (cms)= 0.199

PEAK FLOW (cms)= 0.014 (i)

TIME TO PEAK (hrs)= 12.583

RUNOFF VOLUME (mm)= 4.648

TOTAL RAINFALL (mm)= 56.740

RUNOFF COEFFICIENT = 0.082

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0004) | Area (ha)= 0.66 Curve Number (CN)= 62.0
 | ID= 1 DT= 5.0 min | Ia (mm)= 7.00 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.19

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	0.91	12.250	8.18	18.33	1.02
0.167	0.00	6.250	1.02	12.333	8.17	18.42	1.02
0.250	0.62	6.333	1.02	12.417	8.17	18.50	1.02
0.333	0.62	6.417	1.02	12.500	8.17	18.58	1.02
0.417	0.62	6.500	1.02	12.583	8.17	18.67	1.02

0.500	0.62	6.583	1.02	12.667	8.17	18.75	1.02
0.583	0.62	6.667	1.02	12.750	4.20	18.83	1.02
0.667	0.62	6.750	1.02	12.833	4.20	18.92	1.02
0.750	0.62	6.833	1.02	12.917	4.20	19.00	1.02
0.833	0.62	6.917	1.02	13.000	4.20	19.08	1.02
0.917	0.62	7.000	1.02	13.083	4.20	19.17	1.02
1.000	0.62	7.083	1.02	13.167	4.20	19.25	1.02
1.083	0.62	7.167	1.02	13.250	3.06	19.33	1.02
1.167	0.62	7.250	1.25	13.333	3.06	19.42	1.02
1.250	0.62	7.333	1.25	13.417	3.06	19.50	1.02
1.333	0.62	7.417	1.25	13.500	3.06	19.58	1.02
1.417	0.62	7.500	1.25	13.583	3.06	19.67	1.02
1.500	0.62	7.583	1.25	13.667	3.06	19.75	1.02
1.583	0.62	7.667	1.25	13.750	2.38	19.83	1.02
1.667	0.62	7.750	1.25	13.833	2.38	19.92	1.02
1.750	0.62	7.833	1.25	13.917	2.38	20.00	1.02
1.833	0.62	7.917	1.25	14.000	2.38	20.08	1.02
1.917	0.62	8.000	1.25	14.083	2.38	20.17	1.02
2.000	0.62	8.083	1.25	14.167	2.38	20.25	0.68
2.083	0.62	8.167	1.25	14.250	1.70	20.33	0.68
2.167	0.62	8.250	1.48	14.333	1.70	20.42	0.68
2.250	0.74	8.333	1.48	14.417	1.70	20.50	0.68
2.333	0.74	8.417	1.48	14.500	1.70	20.58	0.68
2.417	0.74	8.500	1.48	14.583	1.70	20.67	0.68
2.500	0.74	8.583	1.48	14.667	1.70	20.75	0.68
2.583	0.74	8.667	1.48	14.750	1.70	20.83	0.68
2.667	0.74	8.750	1.59	14.833	1.70	20.92	0.68
2.750	0.74	8.833	1.59	14.917	1.70	21.00	0.68
2.833	0.74	8.917	1.59	15.000	1.70	21.08	0.68
2.917	0.74	9.000	1.59	15.083	1.70	21.17	0.68
3.000	0.74	9.083	1.59	15.167	1.70	21.25	0.68
3.083	0.74	9.167	1.59	15.250	1.70	21.33	0.68
3.167	0.74	9.250	1.82	15.333	1.70	21.42	0.68
3.250	0.74	9.333	1.82	15.417	1.70	21.50	0.68
3.333	0.74	9.417	1.82	15.500	1.70	21.58	0.68
3.417	0.74	9.500	1.82	15.583	1.70	21.67	0.68
3.500	0.74	9.583	1.82	15.667	1.70	21.75	0.68
3.583	0.74	9.667	1.82	15.750	1.70	21.83	0.68
3.667	0.74	9.750	2.04	15.833	1.70	21.92	0.68
3.750	0.74	9.833	2.04	15.917	1.70	22.00	0.68
3.833	0.74	9.917	2.04	16.000	1.70	22.08	0.68
3.917	0.74	10.000	2.04	16.083	1.70	22.17	0.68
4.000	0.74	10.083	2.04	16.167	1.70	22.25	0.68
4.083	0.74	10.167	2.04	16.250	1.02	22.33	0.68
4.167	0.74	10.250	2.61	16.333	1.02	22.42	0.68
4.250	0.91	10.333	2.61	16.417	1.02	22.50	0.68
4.333	0.91	10.417	2.61	16.500	1.02	22.58	0.68
4.417	0.91	10.500	2.61	16.583	1.02	22.67	0.68
4.500	0.91	10.583	2.61	16.667	1.02	22.75	0.68
4.583	0.91	10.667	2.61	16.750	1.02	22.83	0.68
4.667	0.91	10.750	3.52	16.833	1.02	22.92	0.68
4.750	0.91	10.833	3.52	16.917	1.02	23.00	0.68
4.833	0.91	10.917	3.52	17.000	1.02	23.08	0.68
4.917	0.91	11.000	3.52	17.083	1.02	23.17	0.68
5.000	0.91	11.083	3.52	17.167	1.02	23.25	0.68
5.083	0.91	11.167	3.52	17.250	1.02	23.33	0.68
5.167	0.91	11.250	5.45	17.333	1.02	23.42	0.68
5.250	0.91	11.333	5.45	17.417	1.02	23.50	0.68
5.333	0.91	11.417	5.45	17.500	1.02	23.58	0.68
5.417	0.91	11.500	5.45	17.583	1.02	23.67	0.68
5.500	0.91	11.583	5.45	17.667	1.02	23.75	0.68
5.583	0.91	11.667	5.45	17.750	1.02	23.83	0.68
5.667	0.91	11.750	16.79	17.833	1.02	23.92	0.68
5.750	0.91	11.833	16.80	17.917	1.02	24.00	0.68
5.833	0.91	11.917	43.12	18.000	1.02	24.08	0.68
5.917	0.91	12.000	43.12	18.083	1.02	24.17	0.68
6.000	0.91	12.083	69.45	18.167	1.02		
6.083	0.91	12.167	69.45	18.250	1.02		

Unit Hyd Qpeak (cms)= 0.133

PEAK FLOW (cms)= 0.020 (i)

TIME TO PEAK (hrs)= 12.250

RUNOFF VOLUME (mm)= 12.016
TOTAL RAINFALL (mm)= 56.740
RUNOFF COEFFICIENT = 0.212

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| ADD HYD (0016)|

| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)

ID1= 1 (0003): 2.55 0.014 12.58 4.65

+ ID2= 2 (0004): 0.66 0.020 12.25 12.02

=====

ID = 3 (0016): 3.21 0.028 12.25 6.16

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| CALIB |

| NASHYD (0005)| Area (ha)= 9.65 Curve Number (CN)= 32.0

| ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00

----- U.H. Tp(hrs)= 0.71

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	0.91	12.250	8.18	18.33	1.02
0.167	0.00	6.250	1.02	12.333	8.17	18.42	1.02
0.250	0.62	6.333	1.02	12.417	8.17	18.50	1.02
0.333	0.62	6.417	1.02	12.500	8.17	18.58	1.02
0.417	0.62	6.500	1.02	12.583	8.17	18.67	1.02
0.500	0.62	6.583	1.02	12.667	8.17	18.75	1.02
0.583	0.62	6.667	1.02	12.750	4.20	18.83	1.02
0.667	0.62	6.750	1.02	12.833	4.20	18.92	1.02
0.750	0.62	6.833	1.02	12.917	4.20	19.00	1.02
0.833	0.62	6.917	1.02	13.000	4.20	19.08	1.02
0.917	0.62	7.000	1.02	13.083	4.20	19.17	1.02
1.000	0.62	7.083	1.02	13.167	4.20	19.25	1.02
1.083	0.62	7.167	1.02	13.250	3.06	19.33	1.02
1.167	0.62	7.250	1.25	13.333	3.06	19.42	1.02
1.250	0.62	7.333	1.25	13.417	3.06	19.50	1.02
1.333	0.62	7.417	1.25	13.500	3.06	19.58	1.02
1.417	0.62	7.500	1.25	13.583	3.06	19.67	1.02
1.500	0.62	7.583	1.25	13.667	3.06	19.75	1.02
1.583	0.62	7.667	1.25	13.750	2.38	19.83	1.02
1.667	0.62	7.750	1.25	13.833	2.38	19.92	1.02
1.750	0.62	7.833	1.25	13.917	2.38	20.00	1.02
1.833	0.62	7.917	1.25	14.000	2.38	20.08	1.02
1.917	0.62	8.000	1.25	14.083	2.38	20.17	1.02
2.000	0.62	8.083	1.25	14.167	2.38	20.25	0.68
2.083	0.62	8.167	1.25	14.250	1.70	20.33	0.68
2.167	0.62	8.250	1.48	14.333	1.70	20.42	0.68
2.250	0.74	8.333	1.48	14.417	1.70	20.50	0.68
2.333	0.74	8.417	1.48	14.500	1.70	20.58	0.68
2.417	0.74	8.500	1.48	14.583	1.70	20.67	0.68
2.500	0.74	8.583	1.48	14.667	1.70	20.75	0.68
2.583	0.74	8.667	1.48	14.750	1.70	20.83	0.68
2.667	0.74	8.750	1.59	14.833	1.70	20.92	0.68
2.750	0.74	8.833	1.59	14.917	1.70	21.00	0.68
2.833	0.74	8.917	1.59	15.000	1.70	21.08	0.68
2.917	0.74	9.000	1.59	15.083	1.70	21.17	0.68
3.000	0.74	9.083	1.59	15.167	1.70	21.25	0.68
3.083	0.74	9.167	1.59	15.250	1.70	21.33	0.68
3.167	0.74	9.250	1.82	15.333	1.70	21.42	0.68
3.250	0.74	9.333	1.82	15.417	1.70	21.50	0.68
3.333	0.74	9.417	1.82	15.500	1.70	21.58	0.68
3.417	0.74	9.500	1.82	15.583	1.70	21.67	0.68
3.500	0.74	9.583	1.82	15.667	1.70	21.75	0.68

3.583	0.74	9.667	1.82	15.750	1.70	21.83	0.68
3.667	0.74	9.750	2.04	15.833	1.70	21.92	0.68
3.750	0.74	9.833	2.04	15.917	1.70	22.00	0.68
3.833	0.74	9.917	2.04	16.000	1.70	22.08	0.68
3.917	0.74	10.000	2.04	16.083	1.70	22.17	0.68
4.000	0.74	10.083	2.04	16.167	1.70	22.25	0.68
4.083	0.74	10.167	2.04	16.250	1.02	22.33	0.68
4.167	0.74	10.250	2.61	16.333	1.02	22.42	0.68
4.250	0.91	10.333	2.61	16.417	1.02	22.50	0.68
4.333	0.91	10.417	2.61	16.500	1.02	22.58	0.68
4.417	0.91	10.500	2.61	16.583	1.02	22.67	0.68
4.500	0.91	10.583	2.61	16.667	1.02	22.75	0.68
4.583	0.91	10.667	2.61	16.750	1.02	22.83	0.68
4.667	0.91	10.750	3.52	16.833	1.02	22.92	0.68
4.750	0.91	10.833	3.52	16.917	1.02	23.00	0.68
4.833	0.91	10.917	3.52	17.000	1.02	23.08	0.68
4.917	0.91	11.000	3.52	17.083	1.02	23.17	0.68
5.000	0.91	11.083	3.52	17.167	1.02	23.25	0.68
5.083	0.91	11.167	3.52	17.250	1.02	23.33	0.68
5.167	0.91	11.250	5.45	17.333	1.02	23.42	0.68
5.250	0.91	11.333	5.45	17.417	1.02	23.50	0.68
5.333	0.91	11.417	5.45	17.500	1.02	23.58	0.68
5.417	0.91	11.500	5.45	17.583	1.02	23.67	0.68
5.500	0.91	11.583	5.45	17.667	1.02	23.75	0.68
5.583	0.91	11.667	5.45	17.750	1.02	23.83	0.68
5.667	0.91	11.750	16.79	17.833	1.02	23.92	0.68
5.750	0.91	11.833	16.80	17.917	1.02	24.00	0.68
5.833	0.91	11.917	43.12	18.000	1.02	24.08	0.68
5.917	0.91	12.000	43.12	18.083	1.02	24.17	0.68
6.000	0.91	12.083	69.45	18.167	1.02		
6.083	0.91	12.167	69.45	18.250	1.02		

Unit Hyd Qpeak (cms)= 0.519

PEAK FLOW (cms)= 0.032 (i)

TIME TO PEAK (hrs)= 12.917

RUNOFF VOLUME (mm)= 3.725

TOTAL RAINFALL (mm)= 56.740

RUNOFF COEFFICIENT = 0.066

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0006) | Area (ha)= 1.82 Curve Number (CN)= 32.0
 | ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.30

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN		TIME	RAIN		TIME	RAIN		TIME	RAIN
hrs	mm/hr		hrs	mm/hr		hrs	mm/hr		hrs	mm/hr
0.083	0.00	6.167	0.91	12.250	8.18	18.33	1.02			
0.167	0.00	6.250	1.02	12.333	8.17	18.42	1.02			
0.250	0.62	6.333	1.02	12.417	8.17	18.50	1.02			
0.333	0.62	6.417	1.02	12.500	8.17	18.58	1.02			
0.417	0.62	6.500	1.02	12.583	8.17	18.67	1.02			
0.500	0.62	6.583	1.02	12.667	8.17	18.75	1.02			
0.583	0.62	6.667	1.02	12.750	4.20	18.83	1.02			
0.667	0.62	6.750	1.02	12.833	4.20	18.92	1.02			
0.750	0.62	6.833	1.02	12.917	4.20	19.00	1.02			
0.833	0.62	6.917	1.02	13.000	4.20	19.08	1.02			
0.917	0.62	7.000	1.02	13.083	4.20	19.17	1.02			
1.000	0.62	7.083	1.02	13.167	4.20	19.25	1.02			
1.083	0.62	7.167	1.02	13.250	3.06	19.33	1.02			
1.167	0.62	7.250	1.25	13.333	3.06	19.42	1.02			
1.250	0.62	7.333	1.25	13.417	3.06	19.50	1.02			
1.333	0.62	7.417	1.25	13.500	3.06	19.58	1.02			
1.417	0.62	7.500	1.25	13.583	3.06	19.67	1.02			
1.500	0.62	7.583	1.25	13.667	3.06	19.75	1.02			

1.583	0.62	7.667	1.25	13.750	2.38	19.83	1.02
1.667	0.62	7.750	1.25	13.833	2.38	19.92	1.02
1.750	0.62	7.833	1.25	13.917	2.38	20.00	1.02
1.833	0.62	7.917	1.25	14.000	2.38	20.08	1.02
1.917	0.62	8.000	1.25	14.083	2.38	20.17	1.02
2.000	0.62	8.083	1.25	14.167	2.38	20.25	0.68
2.083	0.62	8.167	1.25	14.250	1.70	20.33	0.68
2.167	0.62	8.250	1.48	14.333	1.70	20.42	0.68
2.250	0.74	8.333	1.48	14.417	1.70	20.50	0.68
2.333	0.74	8.417	1.48	14.500	1.70	20.58	0.68
2.417	0.74	8.500	1.48	14.583	1.70	20.67	0.68
2.500	0.74	8.583	1.48	14.667	1.70	20.75	0.68
2.583	0.74	8.667	1.48	14.750	1.70	20.83	0.68
2.667	0.74	8.750	1.59	14.833	1.70	20.92	0.68
2.750	0.74	8.833	1.59	14.917	1.70	21.00	0.68
2.833	0.74	8.917	1.59	15.000	1.70	21.08	0.68
2.917	0.74	9.000	1.59	15.083	1.70	21.17	0.68
3.000	0.74	9.083	1.59	15.167	1.70	21.25	0.68
3.083	0.74	9.167	1.59	15.250	1.70	21.33	0.68
3.167	0.74	9.250	1.82	15.333	1.70	21.42	0.68
3.250	0.74	9.333	1.82	15.417	1.70	21.50	0.68
3.333	0.74	9.417	1.82	15.500	1.70	21.58	0.68
3.417	0.74	9.500	1.82	15.583	1.70	21.67	0.68
3.500	0.74	9.583	1.82	15.667	1.70	21.75	0.68
3.583	0.74	9.667	1.82	15.750	1.70	21.83	0.68
3.667	0.74	9.750	2.04	15.833	1.70	21.92	0.68
3.750	0.74	9.833	2.04	15.917	1.70	22.00	0.68
3.833	0.74	9.917	2.04	16.000	1.70	22.08	0.68
3.917	0.74	10.000	2.04	16.083	1.70	22.17	0.68
4.000	0.74	10.083	2.04	16.167	1.70	22.25	0.68
4.083	0.74	10.167	2.04	16.250	1.02	22.33	0.68
4.167	0.74	10.250	2.61	16.333	1.02	22.42	0.68
4.250	0.91	10.333	2.61	16.417	1.02	22.50	0.68
4.333	0.91	10.417	2.61	16.500	1.02	22.58	0.68
4.417	0.91	10.500	2.61	16.583	1.02	22.67	0.68
4.500	0.91	10.583	2.61	16.667	1.02	22.75	0.68
4.583	0.91	10.667	2.61	16.750	1.02	22.83	0.68
4.667	0.91	10.750	3.52	16.833	1.02	22.92	0.68
4.750	0.91	10.833	3.52	16.917	1.02	23.00	0.68
4.833	0.91	10.917	3.52	17.000	1.02	23.08	0.68
4.917	0.91	11.000	3.52	17.083	1.02	23.17	0.68
5.000	0.91	11.083	3.52	17.167	1.02	23.25	0.68
5.083	0.91	11.167	3.52	17.250	1.02	23.33	0.68
5.167	0.91	11.250	5.45	17.333	1.02	23.42	0.68
5.250	0.91	11.333	5.45	17.417	1.02	23.50	0.68
5.333	0.91	11.417	5.45	17.500	1.02	23.58	0.68
5.417	0.91	11.500	5.45	17.583	1.02	23.67	0.68
5.500	0.91	11.583	5.45	17.667	1.02	23.75	0.68
5.583	0.91	11.667	5.45	17.750	1.02	23.83	0.68
5.667	0.91	11.750	16.79	17.833	1.02	23.92	0.68
5.750	0.91	11.833	16.80	17.917	1.02	24.00	0.68
5.833	0.91	11.917	43.12	18.000	1.02	24.08	0.68
5.917	0.91	12.000	43.12	18.083	1.02	24.17	0.68
6.000	0.91	12.083	69.45	18.167	1.02		
6.083	0.91	12.167	69.45	18.250	1.02		

Unit Hyd Qpeak (cms)= 0.232

PEAK FLOW (cms)= 0.011 (i)

TIME TO PEAK (hrs)= 12.333

RUNOFF VOLUME (mm)= 3.723

TOTAL RAINFALL (mm)= 56.740

RUNOFF COEFFICIENT = 0.066

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0007) | Area (ha)= 1.70 Curve Number (CN)= 62.0
 | ID= 1 DT= 5.0 min | Ia (mm)= 7.00 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.43

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	0.91	12.250	8.18	18.33	1.02
0.167	0.00	6.250	1.02	12.333	8.17	18.42	1.02
0.250	0.62	6.333	1.02	12.417	8.17	18.50	1.02
0.333	0.62	6.417	1.02	12.500	8.17	18.58	1.02
0.417	0.62	6.500	1.02	12.583	8.17	18.67	1.02
0.500	0.62	6.583	1.02	12.667	8.17	18.75	1.02
0.583	0.62	6.667	1.02	12.750	4.20	18.83	1.02
0.667	0.62	6.750	1.02	12.833	4.20	18.92	1.02
0.750	0.62	6.833	1.02	12.917	4.20	19.00	1.02
0.833	0.62	6.917	1.02	13.000	4.20	19.08	1.02
0.917	0.62	7.000	1.02	13.083	4.20	19.17	1.02
1.000	0.62	7.083	1.02	13.167	4.20	19.25	1.02
1.083	0.62	7.167	1.02	13.250	3.06	19.33	1.02
1.167	0.62	7.250	1.25	13.333	3.06	19.42	1.02
1.250	0.62	7.333	1.25	13.417	3.06	19.50	1.02
1.333	0.62	7.417	1.25	13.500	3.06	19.58	1.02
1.417	0.62	7.500	1.25	13.583	3.06	19.67	1.02
1.500	0.62	7.583	1.25	13.667	3.06	19.75	1.02
1.583	0.62	7.667	1.25	13.750	2.38	19.83	1.02
1.667	0.62	7.750	1.25	13.833	2.38	19.92	1.02
1.750	0.62	7.833	1.25	13.917	2.38	20.00	1.02
1.833	0.62	7.917	1.25	14.000	2.38	20.08	1.02
1.917	0.62	8.000	1.25	14.083	2.38	20.17	1.02
2.000	0.62	8.083	1.25	14.167	2.38	20.25	0.68
2.083	0.62	8.167	1.25	14.250	1.70	20.33	0.68
2.167	0.62	8.250	1.48	14.333	1.70	20.42	0.68
2.250	0.74	8.333	1.48	14.417	1.70	20.50	0.68
2.333	0.74	8.417	1.48	14.500	1.70	20.58	0.68
2.417	0.74	8.500	1.48	14.583	1.70	20.67	0.68
2.500	0.74	8.583	1.48	14.667	1.70	20.75	0.68
2.583	0.74	8.667	1.48	14.750	1.70	20.83	0.68
2.667	0.74	8.750	1.59	14.833	1.70	20.92	0.68
2.750	0.74	8.833	1.59	14.917	1.70	21.00	0.68
2.833	0.74	8.917	1.59	15.000	1.70	21.08	0.68
2.917	0.74	9.000	1.59	15.083	1.70	21.17	0.68
3.000	0.74	9.083	1.59	15.167	1.70	21.25	0.68
3.083	0.74	9.167	1.59	15.250	1.70	21.33	0.68
3.167	0.74	9.250	1.82	15.333	1.70	21.42	0.68
3.250	0.74	9.333	1.82	15.417	1.70	21.50	0.68
3.333	0.74	9.417	1.82	15.500	1.70	21.58	0.68
3.417	0.74	9.500	1.82	15.583	1.70	21.67	0.68
3.500	0.74	9.583	1.82	15.667	1.70	21.75	0.68
3.583	0.74	9.667	1.82	15.750	1.70	21.83	0.68
3.667	0.74	9.750	2.04	15.833	1.70	21.92	0.68
3.750	0.74	9.833	2.04	15.917	1.70	22.00	0.68
3.833	0.74	9.917	2.04	16.000	1.70	22.08	0.68
3.917	0.74	10.000	2.04	16.083	1.70	22.17	0.68
4.000	0.74	10.083	2.04	16.167	1.70	22.25	0.68
4.083	0.74	10.167	2.04	16.250	1.02	22.33	0.68
4.167	0.74	10.250	2.61	16.333	1.02	22.42	0.68
4.250	0.91	10.333	2.61	16.417	1.02	22.50	0.68
4.333	0.91	10.417	2.61	16.500	1.02	22.58	0.68
4.417	0.91	10.500	2.61	16.583	1.02	22.67	0.68
4.500	0.91	10.583	2.61	16.667	1.02	22.75	0.68
4.583	0.91	10.667	2.61	16.750	1.02	22.83	0.68
4.667	0.91	10.750	3.52	16.833	1.02	22.92	0.68
4.750	0.91	10.833	3.52	16.917	1.02	23.00	0.68
4.833	0.91	10.917	3.52	17.000	1.02	23.08	0.68
4.917	0.91	11.000	3.52	17.083	1.02	23.17	0.68
5.000	0.91	11.083	3.52	17.167	1.02	23.25	0.68
5.083	0.91	11.167	3.52	17.250	1.02	23.33	0.68
5.167	0.91	11.250	5.45	17.333	1.02	23.42	0.68
5.250	0.91	11.333	5.45	17.417	1.02	23.50	0.68
5.333	0.91	11.417	5.45	17.500	1.02	23.58	0.68
5.417	0.91	11.500	5.45	17.583	1.02	23.67	0.68
5.500	0.91	11.583	5.45	17.667	1.02	23.75	0.68
5.583	0.91	11.667	5.45	17.750	1.02	23.83	0.68

5.667	0.91	11.750	16.79	17.833	1.02	23.92	0.68
5.750	0.91	11.833	16.80	17.917	1.02	24.00	0.68
5.833	0.91	11.917	43.12	18.000	1.02	24.08	0.68
5.917	0.91	12.000	43.12	18.083	1.02	24.17	0.68
6.000	0.91	12.083	69.45	18.167	1.02		
6.083	0.91	12.167	69.45	18.250	1.02		

Unit Hyd Qpeak (cms)= 0.151

PEAK FLOW (cms)= 0.028 (i)
 TIME TO PEAK (hrs)= 12.500
 RUNOFF VOLUME (mm)= 12.042
 TOTAL RAINFALL (mm)= 56.740
 RUNOFF COEFFICIENT = 0.212

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0008) | Area (ha)= 0.23 Curve Number (CN)= 32.0
 | ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.33

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	0.91	12.250	8.18	18.33	1.02
0.167	0.00	6.250	1.02	12.333	8.17	18.42	1.02
0.250	0.62	6.333	1.02	12.417	8.17	18.50	1.02
0.333	0.62	6.417	1.02	12.500	8.17	18.58	1.02
0.417	0.62	6.500	1.02	12.583	8.17	18.67	1.02
0.500	0.62	6.583	1.02	12.667	8.17	18.75	1.02
0.583	0.62	6.667	1.02	12.750	4.20	18.83	1.02
0.667	0.62	6.750	1.02	12.833	4.20	18.92	1.02
0.750	0.62	6.833	1.02	12.917	4.20	19.00	1.02
0.833	0.62	6.917	1.02	13.000	4.20	19.08	1.02
0.917	0.62	7.000	1.02	13.083	4.20	19.17	1.02
1.000	0.62	7.083	1.02	13.167	4.20	19.25	1.02
1.083	0.62	7.167	1.02	13.250	3.06	19.33	1.02
1.167	0.62	7.250	1.25	13.333	3.06	19.42	1.02
1.250	0.62	7.333	1.25	13.417	3.06	19.50	1.02
1.333	0.62	7.417	1.25	13.500	3.06	19.58	1.02
1.417	0.62	7.500	1.25	13.583	3.06	19.67	1.02
1.500	0.62	7.583	1.25	13.667	3.06	19.75	1.02
1.583	0.62	7.667	1.25	13.750	2.38	19.83	1.02
1.667	0.62	7.750	1.25	13.833	2.38	19.92	1.02
1.750	0.62	7.833	1.25	13.917	2.38	20.00	1.02
1.833	0.62	7.917	1.25	14.000	2.38	20.08	1.02
1.917	0.62	8.000	1.25	14.083	2.38	20.17	1.02
2.000	0.62	8.083	1.25	14.167	2.38	20.25	0.68
2.083	0.62	8.167	1.25	14.250	1.70	20.33	0.68
2.167	0.62	8.250	1.48	14.333	1.70	20.42	0.68
2.250	0.74	8.333	1.48	14.417	1.70	20.50	0.68
2.333	0.74	8.417	1.48	14.500	1.70	20.58	0.68
2.417	0.74	8.500	1.48	14.583	1.70	20.67	0.68
2.500	0.74	8.583	1.48	14.667	1.70	20.75	0.68
2.583	0.74	8.667	1.48	14.750	1.70	20.83	0.68
2.667	0.74	8.750	1.59	14.833	1.70	20.92	0.68
2.750	0.74	8.833	1.59	14.917	1.70	21.00	0.68
2.833	0.74	8.917	1.59	15.000	1.70	21.08	0.68
2.917	0.74	9.000	1.59	15.083	1.70	21.17	0.68
3.000	0.74	9.083	1.59	15.167	1.70	21.25	0.68
3.083	0.74	9.167	1.59	15.250	1.70	21.33	0.68
3.167	0.74	9.250	1.82	15.333	1.70	21.42	0.68
3.250	0.74	9.333	1.82	15.417	1.70	21.50	0.68
3.333	0.74	9.417	1.82	15.500	1.70	21.58	0.68
3.417	0.74	9.500	1.82	15.583	1.70	21.67	0.68
3.500	0.74	9.583	1.82	15.667	1.70	21.75	0.68
3.583	0.74	9.667	1.82	15.750	1.70	21.83	0.68

3.667	0.74		9.750	2.04		15.833	1.70		21.92	0.68
3.750	0.74		9.833	2.04		15.917	1.70		22.00	0.68
3.833	0.74		9.917	2.04		16.000	1.70		22.08	0.68
3.917	0.74		10.000	2.04		16.083	1.70		22.17	0.68
4.000	0.74		10.083	2.04		16.167	1.70		22.25	0.68
4.083	0.74		10.167	2.04		16.250	1.02		22.33	0.68
4.167	0.74		10.250	2.61		16.333	1.02		22.42	0.68
4.250	0.91		10.333	2.61		16.417	1.02		22.50	0.68
4.333	0.91		10.417	2.61		16.500	1.02		22.58	0.68
4.417	0.91		10.500	2.61		16.583	1.02		22.67	0.68
4.500	0.91		10.583	2.61		16.667	1.02		22.75	0.68
4.583	0.91		10.667	2.61		16.750	1.02		22.83	0.68
4.667	0.91		10.750	3.52		16.833	1.02		22.92	0.68
4.750	0.91		10.833	3.52		16.917	1.02		23.00	0.68
4.833	0.91		10.917	3.52		17.000	1.02		23.08	0.68
4.917	0.91		11.000	3.52		17.083	1.02		23.17	0.68
5.000	0.91		11.083	3.52		17.167	1.02		23.25	0.68
5.083	0.91		11.167	3.52		17.250	1.02		23.33	0.68
5.167	0.91		11.250	5.45		17.333	1.02		23.42	0.68
5.250	0.91		11.333	5.45		17.417	1.02		23.50	0.68
5.333	0.91		11.417	5.45		17.500	1.02		23.58	0.68
5.417	0.91		11.500	5.45		17.583	1.02		23.67	0.68
5.500	0.91		11.583	5.45		17.667	1.02		23.75	0.68
5.583	0.91		11.667	5.45		17.750	1.02		23.83	0.68
5.667	0.91		11.750	16.79		17.833	1.02		23.92	0.68
5.750	0.91		11.833	16.80		17.917	1.02		24.00	0.68
5.833	0.91		11.917	43.12		18.000	1.02		24.08	0.68
5.917	0.91		12.000	43.12		18.083	1.02		24.17	0.68
6.000	0.91		12.083	69.45		18.167	1.02			
6.083	0.91		12.167	69.45		18.250	1.02			

Unit Hyd Qpeak (cms)= 0.027

PEAK FLOW (cms)= 0.001 (i)
TIME TO PEAK (hrs)= 12.417
RUNOFF VOLUME (mm)= 3.720
TOTAL RAINFALL (mm)= 56.740
RUNOFF COEFFICIENT = 0.066

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0009) | Area (ha)= 1.11 Curve Number (CN)= 62.0
| ID= 1 DT= 5.0 min | Ia (mm)= 7.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.34

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN		TIME	RAIN		TIME	RAIN		TIME	RAIN
hrs	mm/hr		hrs	mm/hr		hrs	mm/hr		hrs	mm/hr
0.083	0.00		6.167	0.91		12.250	8.18		18.33	1.02
0.167	0.00		6.250	1.02		12.333	8.17		18.42	1.02
0.250	0.62		6.333	1.02		12.417	8.17		18.50	1.02
0.333	0.62		6.417	1.02		12.500	8.17		18.58	1.02
0.417	0.62		6.500	1.02		12.583	8.17		18.67	1.02
0.500	0.62		6.583	1.02		12.667	8.17		18.75	1.02
0.583	0.62		6.667	1.02		12.750	4.20		18.83	1.02
0.667	0.62		6.750	1.02		12.833	4.20		18.92	1.02
0.750	0.62		6.833	1.02		12.917	4.20		19.00	1.02
0.833	0.62		6.917	1.02		13.000	4.20		19.08	1.02
0.917	0.62		7.000	1.02		13.083	4.20		19.17	1.02
1.000	0.62		7.083	1.02		13.167	4.20		19.25	1.02
1.083	0.62		7.167	1.02		13.250	3.06		19.33	1.02
1.167	0.62		7.250	1.25		13.333	3.06		19.42	1.02
1.250	0.62		7.333	1.25		13.417	3.06		19.50	1.02
1.333	0.62		7.417	1.25		13.500	3.06		19.58	1.02
1.417	0.62		7.500	1.25		13.583	3.06		19.67	1.02
1.500	0.62		7.583	1.25		13.667	3.06		19.75	1.02
1.583	0.62		7.667	1.25		13.750	2.38		19.83	1.02

1.667	0.62	7.750	1.25	13.833	2.38	19.92	1.02
1.750	0.62	7.833	1.25	13.917	2.38	20.00	1.02
1.833	0.62	7.917	1.25	14.000	2.38	20.08	1.02
1.917	0.62	8.000	1.25	14.083	2.38	20.17	1.02
2.000	0.62	8.083	1.25	14.167	2.38	20.25	0.68
2.083	0.62	8.167	1.25	14.250	1.70	20.33	0.68
2.167	0.62	8.250	1.48	14.333	1.70	20.42	0.68
2.250	0.74	8.333	1.48	14.417	1.70	20.50	0.68
2.333	0.74	8.417	1.48	14.500	1.70	20.58	0.68
2.417	0.74	8.500	1.48	14.583	1.70	20.67	0.68
2.500	0.74	8.583	1.48	14.667	1.70	20.75	0.68
2.583	0.74	8.667	1.48	14.750	1.70	20.83	0.68
2.667	0.74	8.750	1.59	14.833	1.70	20.92	0.68
2.750	0.74	8.833	1.59	14.917	1.70	21.00	0.68
2.833	0.74	8.917	1.59	15.000	1.70	21.08	0.68
2.917	0.74	9.000	1.59	15.083	1.70	21.17	0.68
3.000	0.74	9.083	1.59	15.167	1.70	21.25	0.68
3.083	0.74	9.167	1.59	15.250	1.70	21.33	0.68
3.167	0.74	9.250	1.82	15.333	1.70	21.42	0.68
3.250	0.74	9.333	1.82	15.417	1.70	21.50	0.68
3.333	0.74	9.417	1.82	15.500	1.70	21.58	0.68
3.417	0.74	9.500	1.82	15.583	1.70	21.67	0.68
3.500	0.74	9.583	1.82	15.667	1.70	21.75	0.68
3.583	0.74	9.667	1.82	15.750	1.70	21.83	0.68
3.667	0.74	9.750	2.04	15.833	1.70	21.92	0.68
3.750	0.74	9.833	2.04	15.917	1.70	22.00	0.68
3.833	0.74	9.917	2.04	16.000	1.70	22.08	0.68
3.917	0.74	10.000	2.04	16.083	1.70	22.17	0.68
4.000	0.74	10.083	2.04	16.167	1.70	22.25	0.68
4.083	0.74	10.167	2.04	16.250	1.02	22.33	0.68
4.167	0.74	10.250	2.61	16.333	1.02	22.42	0.68
4.250	0.91	10.333	2.61	16.417	1.02	22.50	0.68
4.333	0.91	10.417	2.61	16.500	1.02	22.58	0.68
4.417	0.91	10.500	2.61	16.583	1.02	22.67	0.68
4.500	0.91	10.583	2.61	16.667	1.02	22.75	0.68
4.583	0.91	10.667	2.61	16.750	1.02	22.83	0.68
4.667	0.91	10.750	3.52	16.833	1.02	22.92	0.68
4.750	0.91	10.833	3.52	16.917	1.02	23.00	0.68
4.833	0.91	10.917	3.52	17.000	1.02	23.08	0.68
4.917	0.91	11.000	3.52	17.083	1.02	23.17	0.68
5.000	0.91	11.083	3.52	17.167	1.02	23.25	0.68
5.083	0.91	11.167	3.52	17.250	1.02	23.33	0.68
5.167	0.91	11.250	5.45	17.333	1.02	23.42	0.68
5.250	0.91	11.333	5.45	17.417	1.02	23.50	0.68
5.333	0.91	11.417	5.45	17.500	1.02	23.58	0.68
5.417	0.91	11.500	5.45	17.583	1.02	23.67	0.68
5.500	0.91	11.583	5.45	17.667	1.02	23.75	0.68
5.583	0.91	11.667	5.45	17.750	1.02	23.83	0.68
5.667	0.91	11.750	16.79	17.833	1.02	23.92	0.68
5.750	0.91	11.833	16.80	17.917	1.02	24.00	0.68
5.833	0.91	11.917	43.12	18.000	1.02	24.08	0.68
5.917	0.91	12.000	43.12	18.083	1.02	24.17	0.68
6.000	0.91	12.083	69.45	18.167	1.02		
6.083	0.91	12.167	69.45	18.250	1.02		

Unit Hyd Qpeak (cms)= 0.125

PEAK FLOW (cms)= 0.022 (i)

TIME TO PEAK (hrs)= 12.417

RUNOFF VOLUME (mm)= 12.041

TOTAL RAINFALL (mm)= 56.740

RUNOFF COEFFICIENT = 0.212

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0010) | Area (ha)= 0.87 Curve Number (CN)= 32.0
 | ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.24

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	0.91	12.250	8.18	18.33	1.02
0.167	0.00	6.250	1.02	12.333	8.17	18.42	1.02
0.250	0.62	6.333	1.02	12.417	8.17	18.50	1.02
0.333	0.62	6.417	1.02	12.500	8.17	18.58	1.02
0.417	0.62	6.500	1.02	12.583	8.17	18.67	1.02
0.500	0.62	6.583	1.02	12.667	8.17	18.75	1.02
0.583	0.62	6.667	1.02	12.750	4.20	18.83	1.02
0.667	0.62	6.750	1.02	12.833	4.20	18.92	1.02
0.750	0.62	6.833	1.02	12.917	4.20	19.00	1.02
0.833	0.62	6.917	1.02	13.000	4.20	19.08	1.02
0.917	0.62	7.000	1.02	13.083	4.20	19.17	1.02
1.000	0.62	7.083	1.02	13.167	4.20	19.25	1.02
1.083	0.62	7.167	1.02	13.250	3.06	19.33	1.02
1.167	0.62	7.250	1.25	13.333	3.06	19.42	1.02
1.250	0.62	7.333	1.25	13.417	3.06	19.50	1.02
1.333	0.62	7.417	1.25	13.500	3.06	19.58	1.02
1.417	0.62	7.500	1.25	13.583	3.06	19.67	1.02
1.500	0.62	7.583	1.25	13.667	3.06	19.75	1.02
1.583	0.62	7.667	1.25	13.750	2.38	19.83	1.02
1.667	0.62	7.750	1.25	13.833	2.38	19.92	1.02
1.750	0.62	7.833	1.25	13.917	2.38	20.00	1.02
1.833	0.62	7.917	1.25	14.000	2.38	20.08	1.02
1.917	0.62	8.000	1.25	14.083	2.38	20.17	1.02
2.000	0.62	8.083	1.25	14.167	2.38	20.25	0.68
2.083	0.62	8.167	1.25	14.250	1.70	20.33	0.68
2.167	0.62	8.250	1.48	14.333	1.70	20.42	0.68
2.250	0.74	8.333	1.48	14.417	1.70	20.50	0.68
2.333	0.74	8.417	1.48	14.500	1.70	20.58	0.68
2.417	0.74	8.500	1.48	14.583	1.70	20.67	0.68
2.500	0.74	8.583	1.48	14.667	1.70	20.75	0.68
2.583	0.74	8.667	1.48	14.750	1.70	20.83	0.68
2.667	0.74	8.750	1.59	14.833	1.70	20.92	0.68
2.750	0.74	8.833	1.59	14.917	1.70	21.00	0.68
2.833	0.74	8.917	1.59	15.000	1.70	21.08	0.68
2.917	0.74	9.000	1.59	15.083	1.70	21.17	0.68
3.000	0.74	9.083	1.59	15.167	1.70	21.25	0.68
3.083	0.74	9.167	1.59	15.250	1.70	21.33	0.68
3.167	0.74	9.250	1.82	15.333	1.70	21.42	0.68
3.250	0.74	9.333	1.82	15.417	1.70	21.50	0.68
3.333	0.74	9.417	1.82	15.500	1.70	21.58	0.68
3.417	0.74	9.500	1.82	15.583	1.70	21.67	0.68
3.500	0.74	9.583	1.82	15.667	1.70	21.75	0.68
3.583	0.74	9.667	1.82	15.750	1.70	21.83	0.68
3.667	0.74	9.750	2.04	15.833	1.70	21.92	0.68
3.750	0.74	9.833	2.04	15.917	1.70	22.00	0.68
3.833	0.74	9.917	2.04	16.000	1.70	22.08	0.68
3.917	0.74	10.000	2.04	16.083	1.70	22.17	0.68
4.000	0.74	10.083	2.04	16.167	1.70	22.25	0.68
4.083	0.74	10.167	2.04	16.250	1.02	22.33	0.68
4.167	0.74	10.250	2.61	16.333	1.02	22.42	0.68
4.250	0.91	10.333	2.61	16.417	1.02	22.50	0.68
4.333	0.91	10.417	2.61	16.500	1.02	22.58	0.68
4.417	0.91	10.500	2.61	16.583	1.02	22.67	0.68
4.500	0.91	10.583	2.61	16.667	1.02	22.75	0.68
4.583	0.91	10.667	2.61	16.750	1.02	22.83	0.68
4.667	0.91	10.750	3.52	16.833	1.02	22.92	0.68
4.750	0.91	10.833	3.52	16.917	1.02	23.00	0.68
4.833	0.91	10.917	3.52	17.000	1.02	23.08	0.68
4.917	0.91	11.000	3.52	17.083	1.02	23.17	0.68
5.000	0.91	11.083	3.52	17.167	1.02	23.25	0.68
5.083	0.91	11.167	3.52	17.250	1.02	23.33	0.68
5.167	0.91	11.250	5.45	17.333	1.02	23.42	0.68
5.250	0.91	11.333	5.45	17.417	1.02	23.50	0.68
5.333	0.91	11.417	5.45	17.500	1.02	23.58	0.68
5.417	0.91	11.500	5.45	17.583	1.02	23.67	0.68
5.500	0.91	11.583	5.45	17.667	1.02	23.75	0.68
5.583	0.91	11.667	5.45	17.750	1.02	23.83	0.68
5.667	0.91	11.750	16.79	17.833	1.02	23.92	0.68

5.750 0.91 |11.833 16.80 |17.917 1.02 |24.00 0.68
5.833 0.91 |11.917 43.12 |18.000 1.02 |24.08 0.68
5.917 0.91 |12.000 43.12 |18.083 1.02 |24.17 0.68
6.000 0.91 |12.083 69.45 |18.167 1.02 |
6.083 0.91 |12.167 69.45 |18.250 1.02 |

Unit Hyd Qpeak (cms)= 0.138

PEAK FLOW (cms)= 0.006 (i)
TIME TO PEAK (hrs)= 12.250
RUNOFF VOLUME (mm)= 3.721
TOTAL RAINFALL (mm)= 56.740
RUNOFF COEFFICIENT = 0.066

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0011) | Area (ha)= 3.37 Curve Number (CN)= 31.2
| ID= 1 DT= 5.0 min | Ia (mm)= 7.52 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.21

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	0.91	12.250	8.18	18.33	1.02
0.167	0.00	6.250	1.02	12.333	8.17	18.42	1.02
0.250	0.62	6.333	1.02	12.417	8.17	18.50	1.02
0.333	0.62	6.417	1.02	12.500	8.17	18.58	1.02
0.417	0.62	6.500	1.02	12.583	8.17	18.67	1.02
0.500	0.62	6.583	1.02	12.667	8.17	18.75	1.02
0.583	0.62	6.667	1.02	12.750	4.20	18.83	1.02
0.667	0.62	6.750	1.02	12.833	4.20	18.92	1.02
0.750	0.62	6.833	1.02	12.917	4.20	19.00	1.02
0.833	0.62	6.917	1.02	13.000	4.20	19.08	1.02
0.917	0.62	7.000	1.02	13.083	4.20	19.17	1.02
1.000	0.62	7.083	1.02	13.167	4.20	19.25	1.02
1.083	0.62	7.167	1.02	13.250	3.06	19.33	1.02
1.167	0.62	7.250	1.25	13.333	3.06	19.42	1.02
1.250	0.62	7.333	1.25	13.417	3.06	19.50	1.02
1.333	0.62	7.417	1.25	13.500	3.06	19.58	1.02
1.417	0.62	7.500	1.25	13.583	3.06	19.67	1.02
1.500	0.62	7.583	1.25	13.667	3.06	19.75	1.02
1.583	0.62	7.667	1.25	13.750	2.38	19.83	1.02
1.667	0.62	7.750	1.25	13.833	2.38	19.92	1.02
1.750	0.62	7.833	1.25	13.917	2.38	20.00	1.02
1.833	0.62	7.917	1.25	14.000	2.38	20.08	1.02
1.917	0.62	8.000	1.25	14.083	2.38	20.17	1.02
2.000	0.62	8.083	1.25	14.167	2.38	20.25	0.68
2.083	0.62	8.167	1.25	14.250	1.70	20.33	0.68
2.167	0.62	8.250	1.48	14.333	1.70	20.42	0.68
2.250	0.74	8.333	1.48	14.417	1.70	20.50	0.68
2.333	0.74	8.417	1.48	14.500	1.70	20.58	0.68
2.417	0.74	8.500	1.48	14.583	1.70	20.67	0.68
2.500	0.74	8.583	1.48	14.667	1.70	20.75	0.68
2.583	0.74	8.667	1.48	14.750	1.70	20.83	0.68
2.667	0.74	8.750	1.59	14.833	1.70	20.92	0.68
2.750	0.74	8.833	1.59	14.917	1.70	21.00	0.68
2.833	0.74	8.917	1.59	15.000	1.70	21.08	0.68
2.917	0.74	9.000	1.59	15.083	1.70	21.17	0.68
3.000	0.74	9.083	1.59	15.167	1.70	21.25	0.68
3.083	0.74	9.167	1.59	15.250	1.70	21.33	0.68
3.167	0.74	9.250	1.82	15.333	1.70	21.42	0.68
3.250	0.74	9.333	1.82	15.417	1.70	21.50	0.68
3.333	0.74	9.417	1.82	15.500	1.70	21.58	0.68
3.417	0.74	9.500	1.82	15.583	1.70	21.67	0.68
3.500	0.74	9.583	1.82	15.667	1.70	21.75	0.68
3.583	0.74	9.667	1.82	15.750	1.70	21.83	0.68
3.667	0.74	9.750	2.04	15.833	1.70	21.92	0.68

3.750	0.74	9.833	2.04	15.917	1.70	22.00	0.68
3.833	0.74	9.917	2.04	16.000	1.70	22.08	0.68
3.917	0.74	10.000	2.04	16.083	1.70	22.17	0.68
4.000	0.74	10.083	2.04	16.167	1.70	22.25	0.68
4.083	0.74	10.167	2.04	16.250	1.02	22.33	0.68
4.167	0.74	10.250	2.61	16.333	1.02	22.42	0.68
4.250	0.91	10.333	2.61	16.417	1.02	22.50	0.68
4.333	0.91	10.417	2.61	16.500	1.02	22.58	0.68
4.417	0.91	10.500	2.61	16.583	1.02	22.67	0.68
4.500	0.91	10.583	2.61	16.667	1.02	22.75	0.68
4.583	0.91	10.667	2.61	16.750	1.02	22.83	0.68
4.667	0.91	10.750	3.52	16.833	1.02	22.92	0.68
4.750	0.91	10.833	3.52	16.917	1.02	23.00	0.68
4.833	0.91	10.917	3.52	17.000	1.02	23.08	0.68
4.917	0.91	11.000	3.52	17.083	1.02	23.17	0.68
5.000	0.91	11.083	3.52	17.167	1.02	23.25	0.68
5.083	0.91	11.167	3.52	17.250	1.02	23.33	0.68
5.167	0.91	11.250	5.45	17.333	1.02	23.42	0.68
5.250	0.91	11.333	5.45	17.417	1.02	23.50	0.68
5.333	0.91	11.417	5.45	17.500	1.02	23.58	0.68
5.417	0.91	11.500	5.45	17.583	1.02	23.67	0.68
5.500	0.91	11.583	5.45	17.667	1.02	23.75	0.68
5.583	0.91	11.667	5.45	17.750	1.02	23.83	0.68
5.667	0.91	11.750	16.79	17.833	1.02	23.92	0.68
5.750	0.91	11.833	16.80	17.917	1.02	24.00	0.68
5.833	0.91	11.917	43.12	18.000	1.02	24.08	0.68
5.917	0.91	12.000	43.12	18.083	1.02	24.17	0.68
6.000	0.91	12.083	69.45	18.167	1.02		
6.083	0.91	12.167	69.45	18.250	1.02		

Unit Hyd Qpeak (cms)= 0.613

PEAK FLOW (cms)= 0.029 (i)

TIME TO PEAK (hrs)= 12.250

RUNOFF VOLUME (mm)= 3.970

TOTAL RAINFALL (mm)= 56.740

RUNOFF COEFFICIENT = 0.070

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| ADD HYD (0017) |

	1	2	3	AREA	QPEAK	TPEAK	R.V.
				(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0010):	0.87	0.006	12.25	3.72			
+ ID2= 2 (0011):	3.37	0.029	12.25	3.97			
=====							
ID = 3 (0017):	4.24	0.036	12.25	3.92			

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0017) |

	3	2	1	AREA	QPEAK	TPEAK	R.V.
				(ha)	(cms)	(hrs)	(mm)
ID1= 3 (0017):	4.24	0.036	12.25	3.92			
+ ID2= 2 (0009):	1.11	0.022	12.42	12.04			
=====							
ID = 1 (0017):	5.35	0.055	12.33	5.60			

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| CALIB |

| NASHYD (0012) | Area (ha)= 1.60 Curve Number (CN)= 49.7

| ID= 1 DT= 5.0 min | Ia (mm)= 8.23 # of Linear Res.(N)= 3.00

----- U.H. Tp(hrs)= 0.24

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	0.91	12.250	8.18	18.33	1.02
0.167	0.00	6.250	1.02	12.333	8.17	18.42	1.02
0.250	0.62	6.333	1.02	12.417	8.17	18.50	1.02
0.333	0.62	6.417	1.02	12.500	8.17	18.58	1.02
0.417	0.62	6.500	1.02	12.583	8.17	18.67	1.02
0.500	0.62	6.583	1.02	12.667	8.17	18.75	1.02
0.583	0.62	6.667	1.02	12.750	4.20	18.83	1.02
0.667	0.62	6.750	1.02	12.833	4.20	18.92	1.02
0.750	0.62	6.833	1.02	12.917	4.20	19.00	1.02
0.833	0.62	6.917	1.02	13.000	4.20	19.08	1.02
0.917	0.62	7.000	1.02	13.083	4.20	19.17	1.02
1.000	0.62	7.083	1.02	13.167	4.20	19.25	1.02
1.083	0.62	7.167	1.02	13.250	3.06	19.33	1.02
1.167	0.62	7.250	1.25	13.333	3.06	19.42	1.02
1.250	0.62	7.333	1.25	13.417	3.06	19.50	1.02
1.333	0.62	7.417	1.25	13.500	3.06	19.58	1.02
1.417	0.62	7.500	1.25	13.583	3.06	19.67	1.02
1.500	0.62	7.583	1.25	13.667	3.06	19.75	1.02
1.583	0.62	7.667	1.25	13.750	2.38	19.83	1.02
1.667	0.62	7.750	1.25	13.833	2.38	19.92	1.02
1.750	0.62	7.833	1.25	13.917	2.38	20.00	1.02
1.833	0.62	7.917	1.25	14.000	2.38	20.08	1.02
1.917	0.62	8.000	1.25	14.083	2.38	20.17	1.02
2.000	0.62	8.083	1.25	14.167	2.38	20.25	0.68
2.083	0.62	8.167	1.25	14.250	1.70	20.33	0.68
2.167	0.62	8.250	1.48	14.333	1.70	20.42	0.68
2.250	0.74	8.333	1.48	14.417	1.70	20.50	0.68
2.333	0.74	8.417	1.48	14.500	1.70	20.58	0.68
2.417	0.74	8.500	1.48	14.583	1.70	20.67	0.68
2.500	0.74	8.583	1.48	14.667	1.70	20.75	0.68
2.583	0.74	8.667	1.48	14.750	1.70	20.83	0.68
2.667	0.74	8.750	1.59	14.833	1.70	20.92	0.68
2.750	0.74	8.833	1.59	14.917	1.70	21.00	0.68
2.833	0.74	8.917	1.59	15.000	1.70	21.08	0.68
2.917	0.74	9.000	1.59	15.083	1.70	21.17	0.68
3.000	0.74	9.083	1.59	15.167	1.70	21.25	0.68
3.083	0.74	9.167	1.59	15.250	1.70	21.33	0.68
3.167	0.74	9.250	1.82	15.333	1.70	21.42	0.68
3.250	0.74	9.333	1.82	15.417	1.70	21.50	0.68
3.333	0.74	9.417	1.82	15.500	1.70	21.58	0.68
3.417	0.74	9.500	1.82	15.583	1.70	21.67	0.68
3.500	0.74	9.583	1.82	15.667	1.70	21.75	0.68
3.583	0.74	9.667	1.82	15.750	1.70	21.83	0.68
3.667	0.74	9.750	2.04	15.833	1.70	21.92	0.68
3.750	0.74	9.833	2.04	15.917	1.70	22.00	0.68
3.833	0.74	9.917	2.04	16.000	1.70	22.08	0.68
3.917	0.74	10.000	2.04	16.083	1.70	22.17	0.68
4.000	0.74	10.083	2.04	16.167	1.70	22.25	0.68
4.083	0.74	10.167	2.04	16.250	1.02	22.33	0.68
4.167	0.74	10.250	2.61	16.333	1.02	22.42	0.68
4.250	0.91	10.333	2.61	16.417	1.02	22.50	0.68
4.333	0.91	10.417	2.61	16.500	1.02	22.58	0.68
4.417	0.91	10.500	2.61	16.583	1.02	22.67	0.68
4.500	0.91	10.583	2.61	16.667	1.02	22.75	0.68
4.583	0.91	10.667	2.61	16.750	1.02	22.83	0.68
4.667	0.91	10.750	3.52	16.833	1.02	22.92	0.68
4.750	0.91	10.833	3.52	16.917	1.02	23.00	0.68
4.833	0.91	10.917	3.52	17.000	1.02	23.08	0.68
4.917	0.91	11.000	3.52	17.083	1.02	23.17	0.68
5.000	0.91	11.083	3.52	17.167	1.02	23.25	0.68
5.083	0.91	11.167	3.52	17.250	1.02	23.33	0.68
5.167	0.91	11.250	5.45	17.333	1.02	23.42	0.68
5.250	0.91	11.333	5.45	17.417	1.02	23.50	0.68
5.333	0.91	11.417	5.45	17.500	1.02	23.58	0.68
5.417	0.91	11.500	5.45	17.583	1.02	23.67	0.68
5.500	0.91	11.583	5.45	17.667	1.02	23.75	0.68
5.583	0.91	11.667	5.45	17.750	1.02	23.83	0.68
5.667	0.91	11.750	16.79	17.833	1.02	23.92	0.68
5.750	0.91	11.833	16.80	17.917	1.02	24.00	0.68

5.833 0.91 |11.917 43.12 |18.000 1.02 |24.08 0.68
5.917 0.91 |12.000 43.12 |18.083 1.02 |24.17 0.68
6.000 0.91 |12.083 69.45 |18.167 1.02 |
6.083 0.91 |12.167 69.45 |18.250 1.02 |

Unit Hyd Qpeak (cms)= 0.255

PEAK FLOW (cms)= 0.025 (i)

TIME TO PEAK (hrs)= 12.250

RUNOFF VOLUME (mm)= 7.693

TOTAL RAINFALL (mm)= 56.740

RUNOFF COEFFICIENT = 0.136

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0013) | Area (ha)= 12.11 Curve Number (CN)= 48.1
| ID= 1 DT= 5.0 min | Ia (mm)= 11.30 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.55

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	0.91	12.250	8.18	18.33	1.02
0.167	0.00	6.250	1.02	12.333	8.17	18.42	1.02
0.250	0.62	6.333	1.02	12.417	8.17	18.50	1.02
0.333	0.62	6.417	1.02	12.500	8.17	18.58	1.02
0.417	0.62	6.500	1.02	12.583	8.17	18.67	1.02
0.500	0.62	6.583	1.02	12.667	8.17	18.75	1.02
0.583	0.62	6.667	1.02	12.750	4.20	18.83	1.02
0.667	0.62	6.750	1.02	12.833	4.20	18.92	1.02
0.750	0.62	6.833	1.02	12.917	4.20	19.00	1.02
0.833	0.62	6.917	1.02	13.000	4.20	19.08	1.02
0.917	0.62	7.000	1.02	13.083	4.20	19.17	1.02
1.000	0.62	7.083	1.02	13.167	4.20	19.25	1.02
1.083	0.62	7.167	1.02	13.250	3.06	19.33	1.02
1.167	0.62	7.250	1.25	13.333	3.06	19.42	1.02
1.250	0.62	7.333	1.25	13.417	3.06	19.50	1.02
1.333	0.62	7.417	1.25	13.500	3.06	19.58	1.02
1.417	0.62	7.500	1.25	13.583	3.06	19.67	1.02
1.500	0.62	7.583	1.25	13.667	3.06	19.75	1.02
1.583	0.62	7.667	1.25	13.750	2.38	19.83	1.02
1.667	0.62	7.750	1.25	13.833	2.38	19.92	1.02
1.750	0.62	7.833	1.25	13.917	2.38	20.00	1.02
1.833	0.62	7.917	1.25	14.000	2.38	20.08	1.02
1.917	0.62	8.000	1.25	14.083	2.38	20.17	1.02
2.000	0.62	8.083	1.25	14.167	2.38	20.25	0.68
2.083	0.62	8.167	1.25	14.250	1.70	20.33	0.68
2.167	0.62	8.250	1.48	14.333	1.70	20.42	0.68
2.250	0.74	8.333	1.48	14.417	1.70	20.50	0.68
2.333	0.74	8.417	1.48	14.500	1.70	20.58	0.68
2.417	0.74	8.500	1.48	14.583	1.70	20.67	0.68
2.500	0.74	8.583	1.48	14.667	1.70	20.75	0.68
2.583	0.74	8.667	1.48	14.750	1.70	20.83	0.68
2.667	0.74	8.750	1.59	14.833	1.70	20.92	0.68
2.750	0.74	8.833	1.59	14.917	1.70	21.00	0.68
2.833	0.74	8.917	1.59	15.000	1.70	21.08	0.68
2.917	0.74	9.000	1.59	15.083	1.70	21.17	0.68
3.000	0.74	9.083	1.59	15.167	1.70	21.25	0.68
3.083	0.74	9.167	1.59	15.250	1.70	21.33	0.68
3.167	0.74	9.250	1.82	15.333	1.70	21.42	0.68
3.250	0.74	9.333	1.82	15.417	1.70	21.50	0.68
3.333	0.74	9.417	1.82	15.500	1.70	21.58	0.68
3.417	0.74	9.500	1.82	15.583	1.70	21.67	0.68
3.500	0.74	9.583	1.82	15.667	1.70	21.75	0.68
3.583	0.74	9.667	1.82	15.750	1.70	21.83	0.68
3.667	0.74	9.750	2.04	15.833	1.70	21.92	0.68
3.750	0.74	9.833	2.04	15.917	1.70	22.00	0.68

3.833	0.74	9.917	2.04	16.000	1.70	22.08	0.68
3.917	0.74	10.000	2.04	16.083	1.70	22.17	0.68
4.000	0.74	10.083	2.04	16.167	1.70	22.25	0.68
4.083	0.74	10.167	2.04	16.250	1.02	22.33	0.68
4.167	0.74	10.250	2.61	16.333	1.02	22.42	0.68
4.250	0.91	10.333	2.61	16.417	1.02	22.50	0.68
4.333	0.91	10.417	2.61	16.500	1.02	22.58	0.68
4.417	0.91	10.500	2.61	16.583	1.02	22.67	0.68
4.500	0.91	10.583	2.61	16.667	1.02	22.75	0.68
4.583	0.91	10.667	2.61	16.750	1.02	22.83	0.68
4.667	0.91	10.750	3.52	16.833	1.02	22.92	0.68
4.750	0.91	10.833	3.52	16.917	1.02	23.00	0.68
4.833	0.91	10.917	3.52	17.000	1.02	23.08	0.68
4.917	0.91	11.000	3.52	17.083	1.02	23.17	0.68
5.000	0.91	11.083	3.52	17.167	1.02	23.25	0.68
5.083	0.91	11.167	3.52	17.250	1.02	23.33	0.68
5.167	0.91	11.250	5.45	17.333	1.02	23.42	0.68
5.250	0.91	11.333	5.45	17.417	1.02	23.50	0.68
5.333	0.91	11.417	5.45	17.500	1.02	23.58	0.68
5.417	0.91	11.500	5.45	17.583	1.02	23.67	0.68
5.500	0.91	11.583	5.45	17.667	1.02	23.75	0.68
5.583	0.91	11.667	5.45	17.750	1.02	23.83	0.68
5.667	0.91	11.750	16.79	17.833	1.02	23.92	0.68
5.750	0.91	11.833	16.80	17.917	1.02	24.00	0.68
5.833	0.91	11.917	43.12	18.000	1.02	24.08	0.68
5.917	0.91	12.000	43.12	18.083	1.02	24.17	0.68
6.000	0.91	12.083	69.45	18.167	1.02		
6.083	0.91	12.167	69.45	18.250	1.02		

Unit Hyd Qpeak (cms)= 0.841

PEAK FLOW (cms)= 0.085 (i)

TIME TO PEAK (hrs)= 12.667

RUNOFF VOLUME (mm)= 6.462

TOTAL RAINFALL (mm)= 56.740

RUNOFF COEFFICIENT = 0.114

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0014) | Area (ha)= 14.45 Curve Number (CN)= 32.0
 | ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.81

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN		TIME	RAIN		TIME	RAIN		TIME	RAIN
hrs	mm/hr		hrs	mm/hr		hrs	mm/hr		hrs	mm/hr
0.083	0.00	6.167	0.91	12.250	8.18	18.33	1.02			
0.167	0.00	6.250	1.02	12.333	8.17	18.42	1.02			
0.250	0.62	6.333	1.02	12.417	8.17	18.50	1.02			
0.333	0.62	6.417	1.02	12.500	8.17	18.58	1.02			
0.417	0.62	6.500	1.02	12.583	8.17	18.67	1.02			
0.500	0.62	6.583	1.02	12.667	8.17	18.75	1.02			
0.583	0.62	6.667	1.02	12.750	4.20	18.83	1.02			
0.667	0.62	6.750	1.02	12.833	4.20	18.92	1.02			
0.750	0.62	6.833	1.02	12.917	4.20	19.00	1.02			
0.833	0.62	6.917	1.02	13.000	4.20	19.08	1.02			
0.917	0.62	7.000	1.02	13.083	4.20	19.17	1.02			
1.000	0.62	7.083	1.02	13.167	4.20	19.25	1.02			
1.083	0.62	7.167	1.02	13.250	3.06	19.33	1.02			
1.167	0.62	7.250	1.25	13.333	3.06	19.42	1.02			
1.250	0.62	7.333	1.25	13.417	3.06	19.50	1.02			
1.333	0.62	7.417	1.25	13.500	3.06	19.58	1.02			
1.417	0.62	7.500	1.25	13.583	3.06	19.67	1.02			
1.500	0.62	7.583	1.25	13.667	3.06	19.75	1.02			
1.583	0.62	7.667	1.25	13.750	2.38	19.83	1.02			
1.667	0.62	7.750	1.25	13.833	2.38	19.92	1.02			
1.750	0.62	7.833	1.25	13.917	2.38	20.00	1.02			

1.833	0.62	7.917	1.25	14.000	2.38	20.08	1.02
1.917	0.62	8.000	1.25	14.083	2.38	20.17	1.02
2.000	0.62	8.083	1.25	14.167	2.38	20.25	0.68
2.083	0.62	8.167	1.25	14.250	1.70	20.33	0.68
2.167	0.62	8.250	1.48	14.333	1.70	20.42	0.68
2.250	0.74	8.333	1.48	14.417	1.70	20.50	0.68
2.333	0.74	8.417	1.48	14.500	1.70	20.58	0.68
2.417	0.74	8.500	1.48	14.583	1.70	20.67	0.68
2.500	0.74	8.583	1.48	14.667	1.70	20.75	0.68
2.583	0.74	8.667	1.48	14.750	1.70	20.83	0.68
2.667	0.74	8.750	1.59	14.833	1.70	20.92	0.68
2.750	0.74	8.833	1.59	14.917	1.70	21.00	0.68
2.833	0.74	8.917	1.59	15.000	1.70	21.08	0.68
2.917	0.74	9.000	1.59	15.083	1.70	21.17	0.68
3.000	0.74	9.083	1.59	15.167	1.70	21.25	0.68
3.083	0.74	9.167	1.59	15.250	1.70	21.33	0.68
3.167	0.74	9.250	1.82	15.333	1.70	21.42	0.68
3.250	0.74	9.333	1.82	15.417	1.70	21.50	0.68
3.333	0.74	9.417	1.82	15.500	1.70	21.58	0.68
3.417	0.74	9.500	1.82	15.583	1.70	21.67	0.68
3.500	0.74	9.583	1.82	15.667	1.70	21.75	0.68
3.583	0.74	9.667	1.82	15.750	1.70	21.83	0.68
3.667	0.74	9.750	2.04	15.833	1.70	21.92	0.68
3.750	0.74	9.833	2.04	15.917	1.70	22.00	0.68
3.833	0.74	9.917	2.04	16.000	1.70	22.08	0.68
3.917	0.74	10.000	2.04	16.083	1.70	22.17	0.68
4.000	0.74	10.083	2.04	16.167	1.70	22.25	0.68
4.083	0.74	10.167	2.04	16.250	1.02	22.33	0.68
4.167	0.74	10.250	2.61	16.333	1.02	22.42	0.68
4.250	0.91	10.333	2.61	16.417	1.02	22.50	0.68
4.333	0.91	10.417	2.61	16.500	1.02	22.58	0.68
4.417	0.91	10.500	2.61	16.583	1.02	22.67	0.68
4.500	0.91	10.583	2.61	16.667	1.02	22.75	0.68
4.583	0.91	10.667	2.61	16.750	1.02	22.83	0.68
4.667	0.91	10.750	3.52	16.833	1.02	22.92	0.68
4.750	0.91	10.833	3.52	16.917	1.02	23.00	0.68
4.833	0.91	10.917	3.52	17.000	1.02	23.08	0.68
4.917	0.91	11.000	3.52	17.083	1.02	23.17	0.68
5.000	0.91	11.083	3.52	17.167	1.02	23.25	0.68
5.083	0.91	11.167	3.52	17.250	1.02	23.33	0.68
5.167	0.91	11.250	5.45	17.333	1.02	23.42	0.68
5.250	0.91	11.333	5.45	17.417	1.02	23.50	0.68
5.333	0.91	11.417	5.45	17.500	1.02	23.58	0.68
5.417	0.91	11.500	5.45	17.583	1.02	23.67	0.68
5.500	0.91	11.583	5.45	17.667	1.02	23.75	0.68
5.583	0.91	11.667	5.45	17.750	1.02	23.83	0.68
5.667	0.91	11.750	16.79	17.833	1.02	23.92	0.68
5.750	0.91	11.833	16.80	17.917	1.02	24.00	0.68
5.833	0.91	11.917	43.12	18.000	1.02	24.08	0.68
5.917	0.91	12.000	43.12	18.083	1.02	24.17	0.68
6.000	0.91	12.083	69.45	18.167	1.02		
6.083	0.91	12.167	69.45	18.250	1.02		

Unit Hyd Qpeak (cms)= 0.681

PEAK FLOW (cms)= 0.044 (i)

TIME TO PEAK (hrs)= 13.000

RUNOFF VOLUME (mm)= 3.725

TOTAL RAINFALL (mm)= 56.740

RUNOFF COEFFICIENT = 0.066

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

|ADD HYD (0019)|

| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.

----- (ha) (cms) (hrs) (mm)

ID1= 1 (0001): 2.64 0.012 12.75 4.51

+ ID2= 2 (0012): 1.60 0.025 12.25 7.69

=====

ID = 3 (0019): 4.24 0.033 12.33 5.71

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|

| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)

ID1= 3 (0019): 4.24 0.033 12.33 5.71

+ ID2= 2 (0013): 12.11 0.085 12.67 6.46

=====

ID = 1 (0019): 16.35 0.110 12.58 6.27

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|

| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)

ID1= 1 (0019): 16.35 0.110 12.58 6.27

+ ID2= 2 (0014): 14.45 0.044 13.00 3.72

=====

ID = 3 (0019): 30.80 0.148 12.75 5.07

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|

| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)

ID1= 3 (0019): 30.80 0.148 12.75 5.07

+ ID2= 2 (0016): 3.21 0.028 12.25 6.16

=====

ID = 1 (0019): 34.01 0.169 12.67 5.18

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|

| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)

ID1= 1 (0019): 34.01 0.169 12.67 5.18

+ ID2= 2 (0017): 5.35 0.055 12.33 5.60

=====

ID = 3 (0019): 39.36 0.207 12.50 5.24

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|

| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)

ID1= 3 (0019): 39.36 0.207 12.50 5.24

+ ID2= 2 (0002): 1.25 0.013 12.25 4.97

=====

ID = 1 (0019): 40.61 0.216 12.42 5.23

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|

| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)

ID1= 1 (0019): 40.61 0.216 12.42 5.23

+ ID2= 2 (0005): 9.65 0.032 12.92 3.72

=====

ID = 3 (0019): 50.26 0.241 12.50 4.94

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|

| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)

ID1= 3 (0019): 50.26 0.241 12.50 4.94
+ ID2= 2 (0006): 1.82 0.011 12.33 3.72

ID = 1 (0019): 52.08 0.251 12.50 4.90

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|

| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)

ID1= 1 (0019): 52.08 0.251 12.50 4.90
+ ID2= 2 (0007): 1.70 0.028 12.50 12.04

ID = 3 (0019): 53.78 0.280 12.50 5.12

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|

| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)

ID1= 3 (0019): 53.78 0.280 12.50 5.12
+ ID2= 2 (0008): 0.23 0.001 12.42 3.72

ID = 1 (0019): 54.01 0.281 12.50 5.12

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

V V I SSSSS U U A L (v 6.2.2015)

V V I SS U U A A L

V V I SS U U A A A A A L

V V I SS U U A A L

VV I SSSSS UUUUU A A LLLLL

OOO TTTT TTTT H H Y Y M M OOO TM

O O T T H H Y Y M M M M O O

O O T T H H Y M M O O

OOO T T H H Y M M OOO

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***** DETAILED OUTPUT*****

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.2\VO2\voim.dat

Output filename: C:\Users\ajoshi\AppData\Local\Civica\XH5\152aa03f-7064-4fdb-bb4c-0cf677e1e463\28b74699-9884-4c6a-8660-d36a9e6b6587\scena

Summary filename: C:\Users\ajoshi\AppData\Local\Civica\XH5\152aa03f-7064-4fdb-bb4c-0cf677e1e463\28b74699-9884-4c6a-8660-d36a9e6b6587\scena

DATE: 04-25-2025

TIME: 03:57:18

USER:

COMMENTS: _____

** SIMULATION : 50yr 24hr 10min SCS Type II (**

| READ STORM | Filename: C:\Users\ajoshi\AppData
| | ata\Local\Temp\
| | 2e45309f-1d89-4d82-bfac-9f33c63413d7\eb172049
| Ptotal=118.95 mm | Comments: 50yr 24hr 10min SCS Type II (MTO)

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.00	0.00	6.17	2.14	12.33	17.13	18.50	2.14
0.17	1.31	6.33	2.14	12.50	17.13	18.67	2.14
0.33	1.31	6.50	2.14	12.67	8.80	18.83	2.14
0.50	1.31	6.67	2.14	12.83	8.80	19.00	2.14
0.67	1.31	6.83	2.14	13.00	8.80	19.17	2.14
0.83	1.31	7.00	2.14	13.17	6.42	19.33	2.14
1.00	1.31	7.17	2.62	13.33	6.42	19.50	2.14
1.17	1.31	7.33	2.62	13.50	6.42	19.67	2.14
1.33	1.31	7.50	2.62	13.67	5.00	19.83	2.14
1.50	1.31	7.67	2.62	13.83	5.00	20.00	2.14
1.67	1.31	7.83	2.62	14.00	5.00	20.17	1.43
1.83	1.31	8.00	2.62	14.17	3.57	20.33	1.43
2.00	1.31	8.17	3.09	14.33	3.57	20.50	1.43
2.17	1.55	8.33	3.09	14.50	3.57	20.67	1.43
2.33	1.55	8.50	3.09	14.67	3.57	20.83	1.43
2.50	1.55	8.67	3.33	14.83	3.57	21.00	1.43
2.67	1.55	8.83	3.33	15.00	3.57	21.17	1.43
2.83	1.55	9.00	3.33	15.17	3.57	21.33	1.43
3.00	1.55	9.17	3.81	15.33	3.57	21.50	1.43
3.17	1.55	9.33	3.81	15.50	3.57	21.67	1.43
3.33	1.55	9.50	3.81	15.67	3.57	21.83	1.43
3.50	1.55	9.67	4.28	15.83	3.57	22.00	1.43
3.67	1.55	9.83	4.28	16.00	3.57	22.17	1.43
3.83	1.55	10.00	4.28	16.17	2.14	22.33	1.43
4.00	1.55	10.17	5.47	16.33	2.14	22.50	1.43
4.17	1.90	10.33	5.47	16.50	2.14	22.67	1.43
4.33	1.90	10.50	5.47	16.67	2.14	22.83	1.43
4.50	1.90	10.67	7.37	16.83	2.14	23.00	1.43
4.67	1.90	10.83	7.37	17.00	2.14	23.17	1.43
4.83	1.90	11.00	7.37	17.17	2.14	23.33	1.43
5.00	1.90	11.17	11.42	17.33	2.14	23.50	1.43
5.17	1.90	11.33	11.42	17.50	2.14	23.67	1.43
5.33	1.90	11.50	11.42	17.67	2.14	23.83	1.43
5.50	1.90	11.67	35.21	17.83	2.14	24.00	1.43
5.67	1.90	11.83	90.40	18.00	2.14		
5.83	1.90	12.00	145.59	18.17	2.14		
6.00	1.90	12.17	17.13	18.33	2.14		

| CALIB |
| NASHYD (0015) | Area (ha)= 3.24 Curve Number (CN)= 37.0
| ID= 1 DT= 5.0 min | Ia (mm)= 11.14 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.41

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.90	12.250	17.14	18.33	2.14
0.167	0.00	6.250	2.14	12.333	17.13	18.42	2.14
0.250	1.31	6.333	2.14	12.417	17.13	18.50	2.14
0.333	1.31	6.417	2.14	12.500	17.13	18.58	2.14
0.417	1.31	6.500	2.14	12.583	17.13	18.67	2.14
0.500	1.31	6.583	2.14	12.667	17.13	18.75	2.14
0.583	1.31	6.667	2.14	12.750	8.80	18.83	2.14

0.667	1.31	6.750	2.14	12.833	8.80	18.92	2.14
0.750	1.31	6.833	2.14	12.917	8.80	19.00	2.14
0.833	1.31	6.917	2.14	13.000	8.80	19.08	2.14
0.917	1.31	7.000	2.14	13.083	8.80	19.17	2.14
1.000	1.31	7.083	2.14	13.167	8.80	19.25	2.14
1.083	1.31	7.167	2.14	13.250	6.42	19.33	2.14
1.167	1.31	7.250	2.62	13.333	6.42	19.42	2.14
1.250	1.31	7.333	2.62	13.417	6.42	19.50	2.14
1.333	1.31	7.417	2.62	13.500	6.42	19.58	2.14
1.417	1.31	7.500	2.62	13.583	6.42	19.67	2.14
1.500	1.31	7.583	2.62	13.667	6.42	19.75	2.14
1.583	1.31	7.667	2.62	13.750	5.00	19.83	2.14
1.667	1.31	7.750	2.62	13.833	5.00	19.92	2.14
1.750	1.31	7.833	2.62	13.917	5.00	20.00	2.14
1.833	1.31	7.917	2.62	14.000	5.00	20.08	2.14
1.917	1.31	8.000	2.62	14.083	5.00	20.17	2.14
2.000	1.31	8.083	2.62	14.167	5.00	20.25	1.43
2.083	1.31	8.167	2.62	14.250	3.57	20.33	1.43
2.167	1.31	8.250	3.09	14.333	3.57	20.42	1.43
2.250	1.55	8.333	3.09	14.417	3.57	20.50	1.43
2.333	1.55	8.417	3.09	14.500	3.57	20.58	1.43
2.417	1.55	8.500	3.09	14.583	3.57	20.67	1.43
2.500	1.55	8.583	3.09	14.667	3.57	20.75	1.43
2.583	1.55	8.667	3.09	14.750	3.57	20.83	1.43
2.667	1.55	8.750	3.33	14.833	3.57	20.92	1.43
2.750	1.55	8.833	3.33	14.917	3.57	21.00	1.43
2.833	1.55	8.917	3.33	15.000	3.57	21.08	1.43
2.917	1.55	9.000	3.33	15.083	3.57	21.17	1.43
3.000	1.55	9.083	3.33	15.167	3.57	21.25	1.43
3.083	1.55	9.167	3.33	15.250	3.57	21.33	1.43
3.167	1.55	9.250	3.81	15.333	3.57	21.42	1.43
3.250	1.55	9.333	3.81	15.417	3.57	21.50	1.43
3.333	1.55	9.417	3.81	15.500	3.57	21.58	1.43
3.417	1.55	9.500	3.81	15.583	3.57	21.67	1.43
3.500	1.55	9.583	3.81	15.667	3.57	21.75	1.43
3.583	1.55	9.667	3.81	15.750	3.57	21.83	1.43
3.667	1.55	9.750	4.28	15.833	3.57	21.92	1.43
3.750	1.55	9.833	4.28	15.917	3.57	22.00	1.43
3.833	1.55	9.917	4.28	16.000	3.57	22.08	1.43
3.917	1.55	10.000	4.28	16.083	3.57	22.17	1.43
4.000	1.55	10.083	4.28	16.167	3.57	22.25	1.43
4.083	1.55	10.167	4.28	16.250	2.14	22.33	1.43
4.167	1.55	10.250	5.47	16.333	2.14	22.42	1.43
4.250	1.90	10.333	5.47	16.417	2.14	22.50	1.43
4.333	1.90	10.417	5.47	16.500	2.14	22.58	1.43
4.417	1.90	10.500	5.47	16.583	2.14	22.67	1.43
4.500	1.90	10.583	5.47	16.667	2.14	22.75	1.43
4.583	1.90	10.667	5.47	16.750	2.14	22.83	1.43
4.667	1.90	10.750	7.37	16.833	2.14	22.92	1.43
4.750	1.90	10.833	7.37	16.917	2.14	23.00	1.43
4.833	1.90	10.917	7.37	17.000	2.14	23.08	1.43
4.917	1.90	11.000	7.37	17.083	2.14	23.17	1.43
5.000	1.90	11.083	7.37	17.167	2.14	23.25	1.43
5.083	1.90	11.167	7.37	17.250	2.14	23.33	1.43
5.167	1.90	11.250	11.42	17.333	2.14	23.42	1.43
5.250	1.90	11.333	11.42	17.417	2.14	23.50	1.43
5.333	1.90	11.417	11.42	17.500	2.14	23.58	1.43
5.417	1.90	11.500	11.42	17.583	2.14	23.67	1.43
5.500	1.90	11.583	11.42	17.667	2.14	23.75	1.43
5.583	1.90	11.667	11.42	17.750	2.14	23.83	1.43
5.667	1.90	11.750	35.21	17.833	2.14	23.92	1.43
5.750	1.90	11.833	35.21	17.917	2.14	24.00	1.43
5.833	1.90	11.917	90.40	18.000	2.14	24.08	1.43
5.917	1.90	12.000	90.40	18.083	2.14	24.17	1.43
6.000	1.90	12.083	145.59	18.167	2.14		
6.083	1.90	12.167	145.59	18.250	2.14		

Unit Hyd Qpeak (cms)= 0.302

PEAK FLOW (cms)= 0.099 (i)

TIME TO PEAK (hrs)= 12.500

RUNOFF VOLUME (mm)= 21.510

TOTAL RAINFALL (mm)= 118.950

RUNOFF COEFFICIENT = 0.181

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0001) | Area (ha)= 2.64 Curve Number (CN)= 36.2
| ID= 1 DT= 5.0 min | Ia (mm)= 9.50 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.61

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.90	12.250	17.14	18.33	2.14
0.167	0.00	6.250	2.14	12.333	17.13	18.42	2.14
0.250	1.31	6.333	2.14	12.417	17.13	18.50	2.14
0.333	1.31	6.417	2.14	12.500	17.13	18.58	2.14
0.417	1.31	6.500	2.14	12.583	17.13	18.67	2.14
0.500	1.31	6.583	2.14	12.667	17.13	18.75	2.14
0.583	1.31	6.667	2.14	12.750	8.80	18.83	2.14
0.667	1.31	6.750	2.14	12.833	8.80	18.92	2.14
0.750	1.31	6.833	2.14	12.917	8.80	19.00	2.14
0.833	1.31	6.917	2.14	13.000	8.80	19.08	2.14
0.917	1.31	7.000	2.14	13.083	8.80	19.17	2.14
1.000	1.31	7.083	2.14	13.167	8.80	19.25	2.14
1.083	1.31	7.167	2.14	13.250	6.42	19.33	2.14
1.167	1.31	7.250	2.62	13.333	6.42	19.42	2.14
1.250	1.31	7.333	2.62	13.417	6.42	19.50	2.14
1.333	1.31	7.417	2.62	13.500	6.42	19.58	2.14
1.417	1.31	7.500	2.62	13.583	6.42	19.67	2.14
1.500	1.31	7.583	2.62	13.667	6.42	19.75	2.14
1.583	1.31	7.667	2.62	13.750	5.00	19.83	2.14
1.667	1.31	7.750	2.62	13.833	5.00	19.92	2.14
1.750	1.31	7.833	2.62	13.917	5.00	20.00	2.14
1.833	1.31	7.917	2.62	14.000	5.00	20.08	2.14
1.917	1.31	8.000	2.62	14.083	5.00	20.17	2.14
2.000	1.31	8.083	2.62	14.167	5.00	20.25	1.43
2.083	1.31	8.167	2.62	14.250	3.57	20.33	1.43
2.167	1.31	8.250	3.09	14.333	3.57	20.42	1.43
2.250	1.55	8.333	3.09	14.417	3.57	20.50	1.43
2.333	1.55	8.417	3.09	14.500	3.57	20.58	1.43
2.417	1.55	8.500	3.09	14.583	3.57	20.67	1.43
2.500	1.55	8.583	3.09	14.667	3.57	20.75	1.43
2.583	1.55	8.667	3.09	14.750	3.57	20.83	1.43
2.667	1.55	8.750	3.33	14.833	3.57	20.92	1.43
2.750	1.55	8.833	3.33	14.917	3.57	21.00	1.43
2.833	1.55	8.917	3.33	15.000	3.57	21.08	1.43
2.917	1.55	9.000	3.33	15.083	3.57	21.17	1.43
3.000	1.55	9.083	3.33	15.167	3.57	21.25	1.43
3.083	1.55	9.167	3.33	15.250	3.57	21.33	1.43
3.167	1.55	9.250	3.81	15.333	3.57	21.42	1.43
3.250	1.55	9.333	3.81	15.417	3.57	21.50	1.43
3.333	1.55	9.417	3.81	15.500	3.57	21.58	1.43
3.417	1.55	9.500	3.81	15.583	3.57	21.67	1.43
3.500	1.55	9.583	3.81	15.667	3.57	21.75	1.43
3.583	1.55	9.667	3.81	15.750	3.57	21.83	1.43
3.667	1.55	9.750	4.28	15.833	3.57	21.92	1.43
3.750	1.55	9.833	4.28	15.917	3.57	22.00	1.43
3.833	1.55	9.917	4.28	16.000	3.57	22.08	1.43
3.917	1.55	10.000	4.28	16.083	3.57	22.17	1.43
4.000	1.55	10.083	4.28	16.167	3.57	22.25	1.43
4.083	1.55	10.167	4.28	16.250	2.14	22.33	1.43
4.167	1.55	10.250	5.47	16.333	2.14	22.42	1.43
4.250	1.90	10.333	5.47	16.417	2.14	22.50	1.43
4.333	1.90	10.417	5.47	16.500	2.14	22.58	1.43
4.417	1.90	10.500	5.47	16.583	2.14	22.67	1.43
4.500	1.90	10.583	5.47	16.667	2.14	22.75	1.43
4.583	1.90	10.667	5.47	16.750	2.14	22.83	1.43
4.667	1.90	10.750	7.37	16.833	2.14	22.92	1.43

4.750	1.90	10.833	7.37	16.917	2.14	23.00	1.43
4.833	1.90	10.917	7.37	17.000	2.14	23.08	1.43
4.917	1.90	11.000	7.37	17.083	2.14	23.17	1.43
5.000	1.90	11.083	7.37	17.167	2.14	23.25	1.43
5.083	1.90	11.167	7.37	17.250	2.14	23.33	1.43
5.167	1.90	11.250	11.42	17.333	2.14	23.42	1.43
5.250	1.90	11.333	11.42	17.417	2.14	23.50	1.43
5.333	1.90	11.417	11.42	17.500	2.14	23.58	1.43
5.417	1.90	11.500	11.42	17.583	2.14	23.67	1.43
5.500	1.90	11.583	11.42	17.667	2.14	23.75	1.43
5.583	1.90	11.667	11.42	17.750	2.14	23.83	1.43
5.667	1.90	11.750	35.21	17.833	2.14	23.92	1.43
5.750	1.90	11.833	35.21	17.917	2.14	24.00	1.43
5.833	1.90	11.917	90.40	18.000	2.14	24.08	1.43
5.917	1.90	12.000	90.40	18.083	2.14	24.17	1.43
6.000	1.90	12.083	145.59	18.167	2.14		
6.083	1.90	12.167	145.59	18.250	2.14		

Unit Hyd Qpeak (cms)= 0.165

PEAK FLOW (cms)= 0.061 (i)
TIME TO PEAK (hrs)= 12.750
RUNOFF VOLUME (mm)= 21.502
TOTAL RAINFALL (mm)= 118.950
RUNOFF COEFFICIENT = 0.181

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0002)| Area (ha)= 1.25 Curve Number (CN)= 38.5
|ID= 1 DT= 5.0 min| Ia (mm)= 9.23 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.22

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.90	12.250	17.14	18.33	2.14
0.167	0.00	6.250	2.14	12.333	17.13	18.42	2.14
0.250	1.31	6.333	2.14	12.417	17.13	18.50	2.14
0.333	1.31	6.417	2.14	12.500	17.13	18.58	2.14
0.417	1.31	6.500	2.14	12.583	17.13	18.67	2.14
0.500	1.31	6.583	2.14	12.667	17.13	18.75	2.14
0.583	1.31	6.667	2.14	12.750	8.80	18.83	2.14
0.667	1.31	6.750	2.14	12.833	8.80	18.92	2.14
0.750	1.31	6.833	2.14	12.917	8.80	19.00	2.14
0.833	1.31	6.917	2.14	13.000	8.80	19.08	2.14
0.917	1.31	7.000	2.14	13.083	8.80	19.17	2.14
1.000	1.31	7.083	2.14	13.167	8.80	19.25	2.14
1.083	1.31	7.167	2.14	13.250	6.42	19.33	2.14
1.167	1.31	7.250	2.62	13.333	6.42	19.42	2.14
1.250	1.31	7.333	2.62	13.417	6.42	19.50	2.14
1.333	1.31	7.417	2.62	13.500	6.42	19.58	2.14
1.417	1.31	7.500	2.62	13.583	6.42	19.67	2.14
1.500	1.31	7.583	2.62	13.667	6.42	19.75	2.14
1.583	1.31	7.667	2.62	13.750	5.00	19.83	2.14
1.667	1.31	7.750	2.62	13.833	5.00	19.92	2.14
1.750	1.31	7.833	2.62	13.917	5.00	20.00	2.14
1.833	1.31	7.917	2.62	14.000	5.00	20.08	2.14
1.917	1.31	8.000	2.62	14.083	5.00	20.17	2.14
2.000	1.31	8.083	2.62	14.167	5.00	20.25	1.43
2.083	1.31	8.167	2.62	14.250	3.57	20.33	1.43
2.167	1.31	8.250	3.09	14.333	3.57	20.42	1.43
2.250	1.55	8.333	3.09	14.417	3.57	20.50	1.43
2.333	1.55	8.417	3.09	14.500	3.57	20.58	1.43
2.417	1.55	8.500	3.09	14.583	3.57	20.67	1.43
2.500	1.55	8.583	3.09	14.667	3.57	20.75	1.43
2.583	1.55	8.667	3.09	14.750	3.57	20.83	1.43
2.667	1.55	8.750	3.33	14.833	3.57	20.92	1.43

2.750	1.55	8.833	3.33	14.917	3.57	21.00	1.43
2.833	1.55	8.917	3.33	15.000	3.57	21.08	1.43
2.917	1.55	9.000	3.33	15.083	3.57	21.17	1.43
3.000	1.55	9.083	3.33	15.167	3.57	21.25	1.43
3.083	1.55	9.167	3.33	15.250	3.57	21.33	1.43
3.167	1.55	9.250	3.81	15.333	3.57	21.42	1.43
3.250	1.55	9.333	3.81	15.417	3.57	21.50	1.43
3.333	1.55	9.417	3.81	15.500	3.57	21.58	1.43
3.417	1.55	9.500	3.81	15.583	3.57	21.67	1.43
3.500	1.55	9.583	3.81	15.667	3.57	21.75	1.43
3.583	1.55	9.667	3.81	15.750	3.57	21.83	1.43
3.667	1.55	9.750	4.28	15.833	3.57	21.92	1.43
3.750	1.55	9.833	4.28	15.917	3.57	22.00	1.43
3.833	1.55	9.917	4.28	16.000	3.57	22.08	1.43
3.917	1.55	10.000	4.28	16.083	3.57	22.17	1.43
4.000	1.55	10.083	4.28	16.167	3.57	22.25	1.43
4.083	1.55	10.167	4.28	16.250	2.14	22.33	1.43
4.167	1.55	10.250	5.47	16.333	2.14	22.42	1.43
4.250	1.90	10.333	5.47	16.417	2.14	22.50	1.43
4.333	1.90	10.417	5.47	16.500	2.14	22.58	1.43
4.417	1.90	10.500	5.47	16.583	2.14	22.67	1.43
4.500	1.90	10.583	5.47	16.667	2.14	22.75	1.43
4.583	1.90	10.667	5.47	16.750	2.14	22.83	1.43
4.667	1.90	10.750	7.37	16.833	2.14	22.92	1.43
4.750	1.90	10.833	7.37	16.917	2.14	23.00	1.43
4.833	1.90	10.917	7.37	17.000	2.14	23.08	1.43
4.917	1.90	11.000	7.37	17.083	2.14	23.17	1.43
5.000	1.90	11.083	7.37	17.167	2.14	23.25	1.43
5.083	1.90	11.167	7.37	17.250	2.14	23.33	1.43
5.167	1.90	11.250	11.42	17.333	2.14	23.42	1.43
5.250	1.90	11.333	11.42	17.417	2.14	23.50	1.43
5.333	1.90	11.417	11.42	17.500	2.14	23.58	1.43
5.417	1.90	11.500	11.42	17.583	2.14	23.67	1.43
5.500	1.90	11.583	11.42	17.667	2.14	23.75	1.43
5.583	1.90	11.667	11.42	17.750	2.14	23.83	1.43
5.667	1.90	11.750	35.21	17.833	2.14	23.92	1.43
5.750	1.90	11.833	35.21	17.917	2.14	24.00	1.43
5.833	1.90	11.917	90.40	18.000	2.14	24.08	1.43
5.917	1.90	12.000	90.40	18.083	2.14	24.17	1.43
6.000	1.90	12.083	145.59	18.167	2.14		
6.083	1.90	12.167	145.59	18.250	2.14		

Unit Hyd Qpeak (cms)= 0.217

PEAK FLOW (cms)= 0.065 (i)

TIME TO PEAK (hrs)= 12.250

RUNOFF VOLUME (mm)= 23.324

TOTAL RAINFALL (mm)= 118.950

RUNOFF COEFFICIENT = 0.196

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0003)| Area (ha)= 2.55 Curve Number (CN)= 36.9
|ID= 1 DT= 5.0 min| Ia (mm)= 9.42 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.49

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----							
TIME	RAIN		TIME	RAIN		TIME	RAIN
hrs	mm/hr		hrs	mm/hr		hrs	mm/hr
0.083	0.00	6.167	1.90	12.250	17.14	18.33	2.14
0.167	0.00	6.250	2.14	12.333	17.13	18.42	2.14
0.250	1.31	6.333	2.14	12.417	17.13	18.50	2.14
0.333	1.31	6.417	2.14	12.500	17.13	18.58	2.14
0.417	1.31	6.500	2.14	12.583	17.13	18.67	2.14
0.500	1.31	6.583	2.14	12.667	17.13	18.75	2.14
0.583	1.31	6.667	2.14	12.750	8.80	18.83	2.14
0.667	1.31	6.750	2.14	12.833	8.80	18.92	2.14

0.750	1.31	6.833	2.14	12.917	8.80	19.00	2.14
0.833	1.31	6.917	2.14	13.000	8.80	19.08	2.14
0.917	1.31	7.000	2.14	13.083	8.80	19.17	2.14
1.000	1.31	7.083	2.14	13.167	8.80	19.25	2.14
1.083	1.31	7.167	2.14	13.250	6.42	19.33	2.14
1.167	1.31	7.250	2.62	13.333	6.42	19.42	2.14
1.250	1.31	7.333	2.62	13.417	6.42	19.50	2.14
1.333	1.31	7.417	2.62	13.500	6.42	19.58	2.14
1.417	1.31	7.500	2.62	13.583	6.42	19.67	2.14
1.500	1.31	7.583	2.62	13.667	6.42	19.75	2.14
1.583	1.31	7.667	2.62	13.750	5.00	19.83	2.14
1.667	1.31	7.750	2.62	13.833	5.00	19.92	2.14
1.750	1.31	7.833	2.62	13.917	5.00	20.00	2.14
1.833	1.31	7.917	2.62	14.000	5.00	20.08	2.14
1.917	1.31	8.000	2.62	14.083	5.00	20.17	2.14
2.000	1.31	8.083	2.62	14.167	5.00	20.25	1.43
2.083	1.31	8.167	2.62	14.250	3.57	20.33	1.43
2.167	1.31	8.250	3.09	14.333	3.57	20.42	1.43
2.250	1.55	8.333	3.09	14.417	3.57	20.50	1.43
2.333	1.55	8.417	3.09	14.500	3.57	20.58	1.43
2.417	1.55	8.500	3.09	14.583	3.57	20.67	1.43
2.500	1.55	8.583	3.09	14.667	3.57	20.75	1.43
2.583	1.55	8.667	3.09	14.750	3.57	20.83	1.43
2.667	1.55	8.750	3.33	14.833	3.57	20.92	1.43
2.750	1.55	8.833	3.33	14.917	3.57	21.00	1.43
2.833	1.55	8.917	3.33	15.000	3.57	21.08	1.43
2.917	1.55	9.000	3.33	15.083	3.57	21.17	1.43
3.000	1.55	9.083	3.33	15.167	3.57	21.25	1.43
3.083	1.55	9.167	3.33	15.250	3.57	21.33	1.43
3.167	1.55	9.250	3.81	15.333	3.57	21.42	1.43
3.250	1.55	9.333	3.81	15.417	3.57	21.50	1.43
3.333	1.55	9.417	3.81	15.500	3.57	21.58	1.43
3.417	1.55	9.500	3.81	15.583	3.57	21.67	1.43
3.500	1.55	9.583	3.81	15.667	3.57	21.75	1.43
3.583	1.55	9.667	3.81	15.750	3.57	21.83	1.43
3.667	1.55	9.750	4.28	15.833	3.57	21.92	1.43
3.750	1.55	9.833	4.28	15.917	3.57	22.00	1.43
3.833	1.55	9.917	4.28	16.000	3.57	22.08	1.43
3.917	1.55	10.000	4.28	16.083	3.57	22.17	1.43
4.000	1.55	10.083	4.28	16.167	3.57	22.25	1.43
4.083	1.55	10.167	4.28	16.250	2.14	22.33	1.43
4.167	1.55	10.250	5.47	16.333	2.14	22.42	1.43
4.250	1.90	10.333	5.47	16.417	2.14	22.50	1.43
4.333	1.90	10.417	5.47	16.500	2.14	22.58	1.43
4.417	1.90	10.500	5.47	16.583	2.14	22.67	1.43
4.500	1.90	10.583	5.47	16.667	2.14	22.75	1.43
4.583	1.90	10.667	5.47	16.750	2.14	22.83	1.43
4.667	1.90	10.750	7.37	16.833	2.14	22.92	1.43
4.750	1.90	10.833	7.37	16.917	2.14	23.00	1.43
4.833	1.90	10.917	7.37	17.000	2.14	23.08	1.43
4.917	1.90	11.000	7.37	17.083	2.14	23.17	1.43
5.000	1.90	11.083	7.37	17.167	2.14	23.25	1.43
5.083	1.90	11.167	7.37	17.250	2.14	23.33	1.43
5.167	1.90	11.250	11.42	17.333	2.14	23.42	1.43
5.250	1.90	11.333	11.42	17.417	2.14	23.50	1.43
5.333	1.90	11.417	11.42	17.500	2.14	23.58	1.43
5.417	1.90	11.500	11.42	17.583	2.14	23.67	1.43
5.500	1.90	11.583	11.42	17.667	2.14	23.75	1.43
5.583	1.90	11.667	11.42	17.750	2.14	23.83	1.43
5.667	1.90	11.750	35.21	17.833	2.14	23.92	1.43
5.750	1.90	11.833	35.21	17.917	2.14	24.00	1.43
5.833	1.90	11.917	90.40	18.000	2.14	24.08	1.43
5.917	1.90	12.000	90.40	18.083	2.14	24.17	1.43
6.000	1.90	12.083	145.59	18.167	2.14		
6.083	1.90	12.167	145.59	18.250	2.14		

Unit Hyd Qpeak (cms)= 0.199

PEAK FLOW (cms)= 0.071 (i)

TIME TO PEAK (hrs)= 12.583

RUNOFF VOLUME (mm)= 22.056

TOTAL RAINFALL (mm)= 118.950

RUNOFF COEFFICIENT = 0.185

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0004) | Area (ha)= 0.66 Curve Number (CN)= 62.0
| ID= 1 DT= 5.0 min | Ia (mm)= 7.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.19

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.90	12.250	17.14	18.33	2.14
0.167	0.00	6.250	2.14	12.333	17.13	18.42	2.14
0.250	1.31	6.333	2.14	12.417	17.13	18.50	2.14
0.333	1.31	6.417	2.14	12.500	17.13	18.58	2.14
0.417	1.31	6.500	2.14	12.583	17.13	18.67	2.14
0.500	1.31	6.583	2.14	12.667	17.13	18.75	2.14
0.583	1.31	6.667	2.14	12.750	8.80	18.83	2.14
0.667	1.31	6.750	2.14	12.833	8.80	18.92	2.14
0.750	1.31	6.833	2.14	12.917	8.80	19.00	2.14
0.833	1.31	6.917	2.14	13.000	8.80	19.08	2.14
0.917	1.31	7.000	2.14	13.083	8.80	19.17	2.14
1.000	1.31	7.083	2.14	13.167	8.80	19.25	2.14
1.083	1.31	7.167	2.14	13.250	6.42	19.33	2.14
1.167	1.31	7.250	2.62	13.333	6.42	19.42	2.14
1.250	1.31	7.333	2.62	13.417	6.42	19.50	2.14
1.333	1.31	7.417	2.62	13.500	6.42	19.58	2.14
1.417	1.31	7.500	2.62	13.583	6.42	19.67	2.14
1.500	1.31	7.583	2.62	13.667	6.42	19.75	2.14
1.583	1.31	7.667	2.62	13.750	5.00	19.83	2.14
1.667	1.31	7.750	2.62	13.833	5.00	19.92	2.14
1.750	1.31	7.833	2.62	13.917	5.00	20.00	2.14
1.833	1.31	7.917	2.62	14.000	5.00	20.08	2.14
1.917	1.31	8.000	2.62	14.083	5.00	20.17	2.14
2.000	1.31	8.083	2.62	14.167	5.00	20.25	1.43
2.083	1.31	8.167	2.62	14.250	3.57	20.33	1.43
2.167	1.31	8.250	3.09	14.333	3.57	20.42	1.43
2.250	1.55	8.333	3.09	14.417	3.57	20.50	1.43
2.333	1.55	8.417	3.09	14.500	3.57	20.58	1.43
2.417	1.55	8.500	3.09	14.583	3.57	20.67	1.43
2.500	1.55	8.583	3.09	14.667	3.57	20.75	1.43
2.583	1.55	8.667	3.09	14.750	3.57	20.83	1.43
2.667	1.55	8.750	3.33	14.833	3.57	20.92	1.43
2.750	1.55	8.833	3.33	14.917	3.57	21.00	1.43
2.833	1.55	8.917	3.33	15.000	3.57	21.08	1.43
2.917	1.55	9.000	3.33	15.083	3.57	21.17	1.43
3.000	1.55	9.083	3.33	15.167	3.57	21.25	1.43
3.083	1.55	9.167	3.33	15.250	3.57	21.33	1.43
3.167	1.55	9.250	3.81	15.333	3.57	21.42	1.43
3.250	1.55	9.333	3.81	15.417	3.57	21.50	1.43
3.333	1.55	9.417	3.81	15.500	3.57	21.58	1.43
3.417	1.55	9.500	3.81	15.583	3.57	21.67	1.43
3.500	1.55	9.583	3.81	15.667	3.57	21.75	1.43
3.583	1.55	9.667	3.81	15.750	3.57	21.83	1.43
3.667	1.55	9.750	4.28	15.833	3.57	21.92	1.43
3.750	1.55	9.833	4.28	15.917	3.57	22.00	1.43
3.833	1.55	9.917	4.28	16.000	3.57	22.08	1.43
3.917	1.55	10.000	4.28	16.083	3.57	22.17	1.43
4.000	1.55	10.083	4.28	16.167	3.57	22.25	1.43
4.083	1.55	10.167	4.28	16.250	2.14	22.33	1.43
4.167	1.55	10.250	5.47	16.333	2.14	22.42	1.43
4.250	1.90	10.333	5.47	16.417	2.14	22.50	1.43
4.333	1.90	10.417	5.47	16.500	2.14	22.58	1.43
4.417	1.90	10.500	5.47	16.583	2.14	22.67	1.43
4.500	1.90	10.583	5.47	16.667	2.14	22.75	1.43
4.583	1.90	10.667	5.47	16.750	2.14	22.83	1.43
4.667	1.90	10.750	7.37	16.833	2.14	22.92	1.43
4.750	1.90	10.833	7.37	16.917	2.14	23.00	1.43

4.833	1.90	10.917	7.37	17.000	2.14	23.08	1.43
4.917	1.90	11.000	7.37	17.083	2.14	23.17	1.43
5.000	1.90	11.083	7.37	17.167	2.14	23.25	1.43
5.083	1.90	11.167	7.37	17.250	2.14	23.33	1.43
5.167	1.90	11.250	11.42	17.333	2.14	23.42	1.43
5.250	1.90	11.333	11.42	17.417	2.14	23.50	1.43
5.333	1.90	11.417	11.42	17.500	2.14	23.58	1.43
5.417	1.90	11.500	11.42	17.583	2.14	23.67	1.43
5.500	1.90	11.583	11.42	17.667	2.14	23.75	1.43
5.583	1.90	11.667	11.42	17.750	2.14	23.83	1.43
5.667	1.90	11.750	35.21	17.833	2.14	23.92	1.43
5.750	1.90	11.833	35.21	17.917	2.14	24.00	1.43
5.833	1.90	11.917	90.40	18.000	2.14	24.08	1.43
5.917	1.90	12.000	90.40	18.083	2.14	24.17	1.43
6.000	1.90	12.083	145.59	18.167	2.14		
6.083	1.90	12.167	145.59	18.250	2.14		

Unit Hyd Qpeak (cms)= 0.133

PEAK FLOW (cms)= 0.078 (i)
TIME TO PEAK (hrs)= 12.250
RUNOFF VOLUME (mm)= 46.720
TOTAL RAINFALL (mm)= 118.950
RUNOFF COEFFICIENT = 0.393

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| ADD HYD ( 0016)|
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 1 ( 0003): 2.55 0.071 12.58 22.06
+ ID2= 2 ( 0004): 0.66 0.078 12.25 46.72
=====
ID = 3 ( 0016): 3.21 0.127 12.25 27.13

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NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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| CALIB |
| NASHYD ( 0005)| Area (ha)= 9.65 Curve Number (CN)= 32.0
| ID= 1 DT= 5.0 min | la (mm)= 10.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.71

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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---- TRANSFORMED HYETOGRAPH ----
TIME RAIN| TIME RAIN|' TIME RAIN| TIME RAIN
hrs mm/hr| hrs mm/hr|' hrs mm/hr| hrs mm/hr
0.083 0.00|6.167 1.90|12.250 17.14| 18.33 2.14
0.167 0.00|6.250 2.14|12.333 17.13| 18.42 2.14
0.250 1.31|6.333 2.14|12.417 17.13| 18.50 2.14
0.333 1.31|6.417 2.14|12.500 17.13| 18.58 2.14
0.417 1.31|6.500 2.14|12.583 17.13| 18.67 2.14
0.500 1.31|6.583 2.14|12.667 17.13| 18.75 2.14
0.583 1.31|6.667 2.14|12.750 8.80| 18.83 2.14
0.667 1.31|6.750 2.14|12.833 8.80| 18.92 2.14
0.750 1.31|6.833 2.14|12.917 8.80| 19.00 2.14
0.833 1.31|6.917 2.14|13.000 8.80| 19.08 2.14
0.917 1.31|7.000 2.14|13.083 8.80| 19.17 2.14
1.000 1.31|7.083 2.14|13.167 8.80| 19.25 2.14
1.083 1.31|7.167 2.14|13.250 6.42| 19.33 2.14
1.167 1.31|7.250 2.62|13.333 6.42| 19.42 2.14
1.250 1.31|7.333 2.62|13.417 6.42| 19.50 2.14
1.333 1.31|7.417 2.62|13.500 6.42| 19.58 2.14
1.417 1.31|7.500 2.62|13.583 6.42| 19.67 2.14
1.500 1.31|7.583 2.62|13.667 6.42| 19.75 2.14
1.583 1.31|7.667 2.62|13.750 5.00| 19.83 2.14
1.667 1.31|7.750 2.62|13.833 5.00| 19.92 2.14
1.750 1.31|7.833 2.62|13.917 5.00| 20.00 2.14

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1.833	1.31	7.917	2.62	14.000	5.00	20.08	2.14
1.917	1.31	8.000	2.62	14.083	5.00	20.17	2.14
2.000	1.31	8.083	2.62	14.167	5.00	20.25	1.43
2.083	1.31	8.167	2.62	14.250	3.57	20.33	1.43
2.167	1.31	8.250	3.09	14.333	3.57	20.42	1.43
2.250	1.55	8.333	3.09	14.417	3.57	20.50	1.43
2.333	1.55	8.417	3.09	14.500	3.57	20.58	1.43
2.417	1.55	8.500	3.09	14.583	3.57	20.67	1.43
2.500	1.55	8.583	3.09	14.667	3.57	20.75	1.43
2.583	1.55	8.667	3.09	14.750	3.57	20.83	1.43
2.667	1.55	8.750	3.33	14.833	3.57	20.92	1.43
2.750	1.55	8.833	3.33	14.917	3.57	21.00	1.43
2.833	1.55	8.917	3.33	15.000	3.57	21.08	1.43
2.917	1.55	9.000	3.33	15.083	3.57	21.17	1.43
3.000	1.55	9.083	3.33	15.167	3.57	21.25	1.43
3.083	1.55	9.167	3.33	15.250	3.57	21.33	1.43
3.167	1.55	9.250	3.81	15.333	3.57	21.42	1.43
3.250	1.55	9.333	3.81	15.417	3.57	21.50	1.43
3.333	1.55	9.417	3.81	15.500	3.57	21.58	1.43
3.417	1.55	9.500	3.81	15.583	3.57	21.67	1.43
3.500	1.55	9.583	3.81	15.667	3.57	21.75	1.43
3.583	1.55	9.667	3.81	15.750	3.57	21.83	1.43
3.667	1.55	9.750	4.28	15.833	3.57	21.92	1.43
3.750	1.55	9.833	4.28	15.917	3.57	22.00	1.43
3.833	1.55	9.917	4.28	16.000	3.57	22.08	1.43
3.917	1.55	10.000	4.28	16.083	3.57	22.17	1.43
4.000	1.55	10.083	4.28	16.167	3.57	22.25	1.43
4.083	1.55	10.167	4.28	16.250	2.14	22.33	1.43
4.167	1.55	10.250	5.47	16.333	2.14	22.42	1.43
4.250	1.90	10.333	5.47	16.417	2.14	22.50	1.43
4.333	1.90	10.417	5.47	16.500	2.14	22.58	1.43
4.417	1.90	10.500	5.47	16.583	2.14	22.67	1.43
4.500	1.90	10.583	5.47	16.667	2.14	22.75	1.43
4.583	1.90	10.667	5.47	16.750	2.14	22.83	1.43
4.667	1.90	10.750	7.37	16.833	2.14	22.92	1.43
4.750	1.90	10.833	7.37	16.917	2.14	23.00	1.43
4.833	1.90	10.917	7.37	17.000	2.14	23.08	1.43
4.917	1.90	11.000	7.37	17.083	2.14	23.17	1.43
5.000	1.90	11.083	7.37	17.167	2.14	23.25	1.43
5.083	1.90	11.167	7.37	17.250	2.14	23.33	1.43
5.167	1.90	11.250	11.42	17.333	2.14	23.42	1.43
5.250	1.90	11.333	11.42	17.417	2.14	23.50	1.43
5.333	1.90	11.417	11.42	17.500	2.14	23.58	1.43
5.417	1.90	11.500	11.42	17.583	2.14	23.67	1.43
5.500	1.90	11.583	11.42	17.667	2.14	23.75	1.43
5.583	1.90	11.667	11.42	17.750	2.14	23.83	1.43
5.667	1.90	11.750	35.21	17.833	2.14	23.92	1.43
5.750	1.90	11.833	35.21	17.917	2.14	24.00	1.43
5.833	1.90	11.917	90.40	18.000	2.14	24.08	1.43
5.917	1.90	12.000	90.40	18.083	2.14	24.17	1.43
6.000	1.90	12.083	145.59	18.167	2.14		
6.083	1.90	12.167	145.59	18.250	2.14		

Unit Hyd Qpeak (cms)= 0.519

PEAK FLOW (cms)= 0.169 (i)

TIME TO PEAK (hrs)= 12.833

RUNOFF VOLUME (mm)= 18.298

TOTAL RAINFALL (mm)= 118.950

RUNOFF COEFFICIENT = 0.154

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0006) | Area (ha)= 1.82 Curve Number (CN)= 32.0
 | ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.30

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.90	12.250	17.14	18.33	2.14
0.167	0.00	6.250	2.14	12.333	17.13	18.42	2.14
0.250	1.31	6.333	2.14	12.417	17.13	18.50	2.14
0.333	1.31	6.417	2.14	12.500	17.13	18.58	2.14
0.417	1.31	6.500	2.14	12.583	17.13	18.67	2.14
0.500	1.31	6.583	2.14	12.667	17.13	18.75	2.14
0.583	1.31	6.667	2.14	12.750	8.80	18.83	2.14
0.667	1.31	6.750	2.14	12.833	8.80	18.92	2.14
0.750	1.31	6.833	2.14	12.917	8.80	19.00	2.14
0.833	1.31	6.917	2.14	13.000	8.80	19.08	2.14
0.917	1.31	7.000	2.14	13.083	8.80	19.17	2.14
1.000	1.31	7.083	2.14	13.167	8.80	19.25	2.14
1.083	1.31	7.167	2.14	13.250	6.42	19.33	2.14
1.167	1.31	7.250	2.62	13.333	6.42	19.42	2.14
1.250	1.31	7.333	2.62	13.417	6.42	19.50	2.14
1.333	1.31	7.417	2.62	13.500	6.42	19.58	2.14
1.417	1.31	7.500	2.62	13.583	6.42	19.67	2.14
1.500	1.31	7.583	2.62	13.667	6.42	19.75	2.14
1.583	1.31	7.667	2.62	13.750	5.00	19.83	2.14
1.667	1.31	7.750	2.62	13.833	5.00	19.92	2.14
1.750	1.31	7.833	2.62	13.917	5.00	20.00	2.14
1.833	1.31	7.917	2.62	14.000	5.00	20.08	2.14
1.917	1.31	8.000	2.62	14.083	5.00	20.17	2.14
2.000	1.31	8.083	2.62	14.167	5.00	20.25	1.43
2.083	1.31	8.167	2.62	14.250	3.57	20.33	1.43
2.167	1.31	8.250	3.09	14.333	3.57	20.42	1.43
2.250	1.55	8.333	3.09	14.417	3.57	20.50	1.43
2.333	1.55	8.417	3.09	14.500	3.57	20.58	1.43
2.417	1.55	8.500	3.09	14.583	3.57	20.67	1.43
2.500	1.55	8.583	3.09	14.667	3.57	20.75	1.43
2.583	1.55	8.667	3.09	14.750	3.57	20.83	1.43
2.667	1.55	8.750	3.33	14.833	3.57	20.92	1.43
2.750	1.55	8.833	3.33	14.917	3.57	21.00	1.43
2.833	1.55	8.917	3.33	15.000	3.57	21.08	1.43
2.917	1.55	9.000	3.33	15.083	3.57	21.17	1.43
3.000	1.55	9.083	3.33	15.167	3.57	21.25	1.43
3.083	1.55	9.167	3.33	15.250	3.57	21.33	1.43
3.167	1.55	9.250	3.81	15.333	3.57	21.42	1.43
3.250	1.55	9.333	3.81	15.417	3.57	21.50	1.43
3.333	1.55	9.417	3.81	15.500	3.57	21.58	1.43
3.417	1.55	9.500	3.81	15.583	3.57	21.67	1.43
3.500	1.55	9.583	3.81	15.667	3.57	21.75	1.43
3.583	1.55	9.667	3.81	15.750	3.57	21.83	1.43
3.667	1.55	9.750	4.28	15.833	3.57	21.92	1.43
3.750	1.55	9.833	4.28	15.917	3.57	22.00	1.43
3.833	1.55	9.917	4.28	16.000	3.57	22.08	1.43
3.917	1.55	10.000	4.28	16.083	3.57	22.17	1.43
4.000	1.55	10.083	4.28	16.167	3.57	22.25	1.43
4.083	1.55	10.167	4.28	16.250	2.14	22.33	1.43
4.167	1.55	10.250	5.47	16.333	2.14	22.42	1.43
4.250	1.90	10.333	5.47	16.417	2.14	22.50	1.43
4.333	1.90	10.417	5.47	16.500	2.14	22.58	1.43
4.417	1.90	10.500	5.47	16.583	2.14	22.67	1.43
4.500	1.90	10.583	5.47	16.667	2.14	22.75	1.43
4.583	1.90	10.667	5.47	16.750	2.14	22.83	1.43
4.667	1.90	10.750	7.37	16.833	2.14	22.92	1.43
4.750	1.90	10.833	7.37	16.917	2.14	23.00	1.43
4.833	1.90	10.917	7.37	17.000	2.14	23.08	1.43
4.917	1.90	11.000	7.37	17.083	2.14	23.17	1.43
5.000	1.90	11.083	7.37	17.167	2.14	23.25	1.43
5.083	1.90	11.167	7.37	17.250	2.14	23.33	1.43
5.167	1.90	11.250	11.42	17.333	2.14	23.42	1.43
5.250	1.90	11.333	11.42	17.417	2.14	23.50	1.43
5.333	1.90	11.417	11.42	17.500	2.14	23.58	1.43
5.417	1.90	11.500	11.42	17.583	2.14	23.67	1.43
5.500	1.90	11.583	11.42	17.667	2.14	23.75	1.43
5.583	1.90	11.667	11.42	17.750	2.14	23.83	1.43
5.667	1.90	11.750	35.21	17.833	2.14	23.92	1.43
5.750	1.90	11.833	35.21	17.917	2.14	24.00	1.43
5.833	1.90	11.917	90.40	18.000	2.14	24.08	1.43

5.917 1.90 |12.000 90.40 |18.083 2.14 |24.17 1.43
6.000 1.90 |12.083 145.59 |18.167 2.14 |
6.083 1.90 |12.167 145.59 |18.250 2.14 |

Unit Hyd Qpeak (cms)= 0.232

PEAK FLOW (cms)= 0.059 (i)
TIME TO PEAK (hrs)= 12.333
RUNOFF VOLUME (mm)= 18.291
TOTAL RAINFALL (mm)= 118.950
RUNOFF COEFFICIENT = 0.154

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0007) | Area (ha)= 1.70 Curve Number (CN)= 62.0
| ID= 1 DT= 5.0 min | Ia (mm)= 7.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.43

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----
TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN
hrs mm/hr | hrs mm/hr | hrs mm/hr | hrs mm/hr
0.083 0.00 | 6.167 1.90 | 12.250 17.14 | 18.33 2.14
0.167 0.00 | 6.250 2.14 | 12.333 17.13 | 18.42 2.14
0.250 1.31 | 6.333 2.14 | 12.417 17.13 | 18.50 2.14
0.333 1.31 | 6.417 2.14 | 12.500 17.13 | 18.58 2.14
0.417 1.31 | 6.500 2.14 | 12.583 17.13 | 18.67 2.14
0.500 1.31 | 6.583 2.14 | 12.667 17.13 | 18.75 2.14
0.583 1.31 | 6.667 2.14 | 12.750 8.80 | 18.83 2.14
0.667 1.31 | 6.750 2.14 | 12.833 8.80 | 18.92 2.14
0.750 1.31 | 6.833 2.14 | 12.917 8.80 | 19.00 2.14
0.833 1.31 | 6.917 2.14 | 13.000 8.80 | 19.08 2.14
0.917 1.31 | 7.000 2.14 | 13.083 8.80 | 19.17 2.14
1.000 1.31 | 7.083 2.14 | 13.167 8.80 | 19.25 2.14
1.083 1.31 | 7.167 2.14 | 13.250 6.42 | 19.33 2.14
1.167 1.31 | 7.250 2.62 | 13.333 6.42 | 19.42 2.14
1.250 1.31 | 7.333 2.62 | 13.417 6.42 | 19.50 2.14
1.333 1.31 | 7.417 2.62 | 13.500 6.42 | 19.58 2.14
1.417 1.31 | 7.500 2.62 | 13.583 6.42 | 19.67 2.14
1.500 1.31 | 7.583 2.62 | 13.667 6.42 | 19.75 2.14
1.583 1.31 | 7.667 2.62 | 13.750 5.00 | 19.83 2.14
1.667 1.31 | 7.750 2.62 | 13.833 5.00 | 19.92 2.14
1.750 1.31 | 7.833 2.62 | 13.917 5.00 | 20.00 2.14
1.833 1.31 | 7.917 2.62 | 14.000 5.00 | 20.08 2.14
1.917 1.31 | 8.000 2.62 | 14.083 5.00 | 20.17 2.14
2.000 1.31 | 8.083 2.62 | 14.167 5.00 | 20.25 1.43
2.083 1.31 | 8.167 2.62 | 14.250 3.57 | 20.33 1.43
2.167 1.31 | 8.250 3.09 | 14.333 3.57 | 20.42 1.43
2.250 1.55 | 8.333 3.09 | 14.417 3.57 | 20.50 1.43
2.333 1.55 | 8.417 3.09 | 14.500 3.57 | 20.58 1.43
2.417 1.55 | 8.500 3.09 | 14.583 3.57 | 20.67 1.43
2.500 1.55 | 8.583 3.09 | 14.667 3.57 | 20.75 1.43
2.583 1.55 | 8.667 3.09 | 14.750 3.57 | 20.83 1.43
2.667 1.55 | 8.750 3.33 | 14.833 3.57 | 20.92 1.43
2.750 1.55 | 8.833 3.33 | 14.917 3.57 | 21.00 1.43
2.833 1.55 | 8.917 3.33 | 15.000 3.57 | 21.08 1.43
2.917 1.55 | 9.000 3.33 | 15.083 3.57 | 21.17 1.43
3.000 1.55 | 9.083 3.33 | 15.167 3.57 | 21.25 1.43
3.083 1.55 | 9.167 3.33 | 15.250 3.57 | 21.33 1.43
3.167 1.55 | 9.250 3.81 | 15.333 3.57 | 21.42 1.43
3.250 1.55 | 9.333 3.81 | 15.417 3.57 | 21.50 1.43
3.333 1.55 | 9.417 3.81 | 15.500 3.57 | 21.58 1.43
3.417 1.55 | 9.500 3.81 | 15.583 3.57 | 21.67 1.43
3.500 1.55 | 9.583 3.81 | 15.667 3.57 | 21.75 1.43
3.583 1.55 | 9.667 3.81 | 15.750 3.57 | 21.83 1.43
3.667 1.55 | 9.750 4.28 | 15.833 3.57 | 21.92 1.43
3.750 1.55 | 9.833 4.28 | 15.917 3.57 | 22.00 1.43
3.833 1.55 | 9.917 4.28 | 16.000 3.57 | 22.08 1.43

3.917	1.55	10.000	4.28	16.083	3.57	22.17	1.43
4.000	1.55	10.083	4.28	16.167	3.57	22.25	1.43
4.083	1.55	10.167	4.28	16.250	2.14	22.33	1.43
4.167	1.55	10.250	5.47	16.333	2.14	22.42	1.43
4.250	1.90	10.333	5.47	16.417	2.14	22.50	1.43
4.333	1.90	10.417	5.47	16.500	2.14	22.58	1.43
4.417	1.90	10.500	5.47	16.583	2.14	22.67	1.43
4.500	1.90	10.583	5.47	16.667	2.14	22.75	1.43
4.583	1.90	10.667	5.47	16.750	2.14	22.83	1.43
4.667	1.90	10.750	7.37	16.833	2.14	22.92	1.43
4.750	1.90	10.833	7.37	16.917	2.14	23.00	1.43
4.833	1.90	10.917	7.37	17.000	2.14	23.08	1.43
4.917	1.90	11.000	7.37	17.083	2.14	23.17	1.43
5.000	1.90	11.083	7.37	17.167	2.14	23.25	1.43
5.083	1.90	11.167	7.37	17.250	2.14	23.33	1.43
5.167	1.90	11.250	11.42	17.333	2.14	23.42	1.43
5.250	1.90	11.333	11.42	17.417	2.14	23.50	1.43
5.333	1.90	11.417	11.42	17.500	2.14	23.58	1.43
5.417	1.90	11.500	11.42	17.583	2.14	23.67	1.43
5.500	1.90	11.583	11.42	17.667	2.14	23.75	1.43
5.583	1.90	11.667	11.42	17.750	2.14	23.83	1.43
5.667	1.90	11.750	35.21	17.833	2.14	23.92	1.43
5.750	1.90	11.833	35.21	17.917	2.14	24.00	1.43
5.833	1.90	11.917	90.40	18.000	2.14	24.08	1.43
5.917	1.90	12.000	90.40	18.083	2.14	24.17	1.43
6.000	1.90	12.083	145.59	18.167	2.14		
6.083	1.90	12.167	145.59	18.250	2.14		

Unit Hyd Qpeak (cms)= 0.151

PEAK FLOW (cms)= 0.116 (i)
TIME TO PEAK (hrs)= 12.500
RUNOFF VOLUME (mm)= 46.824
TOTAL RAINFALL (mm)= 118.950
RUNOFF COEFFICIENT = 0.394

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0008) | Area (ha)= 0.23 Curve Number (CN)= 32.0
| ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.33

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.90	12.250	17.14	18.33	2.14
0.167	0.00	6.250	2.14	12.333	17.13	18.42	2.14
0.250	1.31	6.333	2.14	12.417	17.13	18.50	2.14
0.333	1.31	6.417	2.14	12.500	17.13	18.58	2.14
0.417	1.31	6.500	2.14	12.583	17.13	18.67	2.14
0.500	1.31	6.583	2.14	12.667	17.13	18.75	2.14
0.583	1.31	6.667	2.14	12.750	8.80	18.83	2.14
0.667	1.31	6.750	2.14	12.833	8.80	18.92	2.14
0.750	1.31	6.833	2.14	12.917	8.80	19.00	2.14
0.833	1.31	6.917	2.14	13.000	8.80	19.08	2.14
0.917	1.31	7.000	2.14	13.083	8.80	19.17	2.14
1.000	1.31	7.083	2.14	13.167	8.80	19.25	2.14
1.083	1.31	7.167	2.14	13.250	6.42	19.33	2.14
1.167	1.31	7.250	2.62	13.333	6.42	19.42	2.14
1.250	1.31	7.333	2.62	13.417	6.42	19.50	2.14
1.333	1.31	7.417	2.62	13.500	6.42	19.58	2.14
1.417	1.31	7.500	2.62	13.583	6.42	19.67	2.14
1.500	1.31	7.583	2.62	13.667	6.42	19.75	2.14
1.583	1.31	7.667	2.62	13.750	5.00	19.83	2.14
1.667	1.31	7.750	2.62	13.833	5.00	19.92	2.14
1.750	1.31	7.833	2.62	13.917	5.00	20.00	2.14
1.833	1.31	7.917	2.62	14.000	5.00	20.08	2.14

1.917	1.31	8.000	2.62	14.083	5.00	20.17	2.14
2.000	1.31	8.083	2.62	14.167	5.00	20.25	1.43
2.083	1.31	8.167	2.62	14.250	3.57	20.33	1.43
2.167	1.31	8.250	3.09	14.333	3.57	20.42	1.43
2.250	1.55	8.333	3.09	14.417	3.57	20.50	1.43
2.333	1.55	8.417	3.09	14.500	3.57	20.58	1.43
2.417	1.55	8.500	3.09	14.583	3.57	20.67	1.43
2.500	1.55	8.583	3.09	14.667	3.57	20.75	1.43
2.583	1.55	8.667	3.09	14.750	3.57	20.83	1.43
2.667	1.55	8.750	3.33	14.833	3.57	20.92	1.43
2.750	1.55	8.833	3.33	14.917	3.57	21.00	1.43
2.833	1.55	8.917	3.33	15.000	3.57	21.08	1.43
2.917	1.55	9.000	3.33	15.083	3.57	21.17	1.43
3.000	1.55	9.083	3.33	15.167	3.57	21.25	1.43
3.083	1.55	9.167	3.33	15.250	3.57	21.33	1.43
3.167	1.55	9.250	3.81	15.333	3.57	21.42	1.43
3.250	1.55	9.333	3.81	15.417	3.57	21.50	1.43
3.333	1.55	9.417	3.81	15.500	3.57	21.58	1.43
3.417	1.55	9.500	3.81	15.583	3.57	21.67	1.43
3.500	1.55	9.583	3.81	15.667	3.57	21.75	1.43
3.583	1.55	9.667	3.81	15.750	3.57	21.83	1.43
3.667	1.55	9.750	4.28	15.833	3.57	21.92	1.43
3.750	1.55	9.833	4.28	15.917	3.57	22.00	1.43
3.833	1.55	9.917	4.28	16.000	3.57	22.08	1.43
3.917	1.55	10.000	4.28	16.083	3.57	22.17	1.43
4.000	1.55	10.083	4.28	16.167	3.57	22.25	1.43
4.083	1.55	10.167	4.28	16.250	2.14	22.33	1.43
4.167	1.55	10.250	5.47	16.333	2.14	22.42	1.43
4.250	1.90	10.333	5.47	16.417	2.14	22.50	1.43
4.333	1.90	10.417	5.47	16.500	2.14	22.58	1.43
4.417	1.90	10.500	5.47	16.583	2.14	22.67	1.43
4.500	1.90	10.583	5.47	16.667	2.14	22.75	1.43
4.583	1.90	10.667	5.47	16.750	2.14	22.83	1.43
4.667	1.90	10.750	7.37	16.833	2.14	22.92	1.43
4.750	1.90	10.833	7.37	16.917	2.14	23.00	1.43
4.833	1.90	10.917	7.37	17.000	2.14	23.08	1.43
4.917	1.90	11.000	7.37	17.083	2.14	23.17	1.43
5.000	1.90	11.083	7.37	17.167	2.14	23.25	1.43
5.083	1.90	11.167	7.37	17.250	2.14	23.33	1.43
5.167	1.90	11.250	11.42	17.333	2.14	23.42	1.43
5.250	1.90	11.333	11.42	17.417	2.14	23.50	1.43
5.333	1.90	11.417	11.42	17.500	2.14	23.58	1.43
5.417	1.90	11.500	11.42	17.583	2.14	23.67	1.43
5.500	1.90	11.583	11.42	17.667	2.14	23.75	1.43
5.583	1.90	11.667	11.42	17.750	2.14	23.83	1.43
5.667	1.90	11.750	35.21	17.833	2.14	23.92	1.43
5.750	1.90	11.833	35.21	17.917	2.14	24.00	1.43
5.833	1.90	11.917	90.40	18.000	2.14	24.08	1.43
5.917	1.90	12.000	90.40	18.083	2.14	24.17	1.43
6.000	1.90	12.083	145.59	18.167	2.14		
6.083	1.90	12.167	145.59	18.250	2.14		

Unit Hyd Qpeak (cms)= 0.027

PEAK FLOW (cms)= 0.007 (i)

TIME TO PEAK (hrs)= 12.333

RUNOFF VOLUME (mm)= 18.290

TOTAL RAINFALL (mm)= 118.950

RUNOFF COEFFICIENT = 0.154

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0009) | Area (ha)= 1.11 Curve Number (CN)= 62.0
 | ID= 1 DT= 5.0 min | Ia (mm)= 7.00 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.34

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.90	12.250	17.14	18.33	2.14
0.167	0.00	6.250	2.14	12.333	17.13	18.42	2.14
0.250	1.31	6.333	2.14	12.417	17.13	18.50	2.14
0.333	1.31	6.417	2.14	12.500	17.13	18.58	2.14
0.417	1.31	6.500	2.14	12.583	17.13	18.67	2.14
0.500	1.31	6.583	2.14	12.667	17.13	18.75	2.14
0.583	1.31	6.667	2.14	12.750	8.80	18.83	2.14
0.667	1.31	6.750	2.14	12.833	8.80	18.92	2.14
0.750	1.31	6.833	2.14	12.917	8.80	19.00	2.14
0.833	1.31	6.917	2.14	13.000	8.80	19.08	2.14
0.917	1.31	7.000	2.14	13.083	8.80	19.17	2.14
1.000	1.31	7.083	2.14	13.167	8.80	19.25	2.14
1.083	1.31	7.167	2.14	13.250	6.42	19.33	2.14
1.167	1.31	7.250	2.62	13.333	6.42	19.42	2.14
1.250	1.31	7.333	2.62	13.417	6.42	19.50	2.14
1.333	1.31	7.417	2.62	13.500	6.42	19.58	2.14
1.417	1.31	7.500	2.62	13.583	6.42	19.67	2.14
1.500	1.31	7.583	2.62	13.667	6.42	19.75	2.14
1.583	1.31	7.667	2.62	13.750	5.00	19.83	2.14
1.667	1.31	7.750	2.62	13.833	5.00	19.92	2.14
1.750	1.31	7.833	2.62	13.917	5.00	20.00	2.14
1.833	1.31	7.917	2.62	14.000	5.00	20.08	2.14
1.917	1.31	8.000	2.62	14.083	5.00	20.17	2.14
2.000	1.31	8.083	2.62	14.167	5.00	20.25	1.43
2.083	1.31	8.167	2.62	14.250	3.57	20.33	1.43
2.167	1.31	8.250	3.09	14.333	3.57	20.42	1.43
2.250	1.55	8.333	3.09	14.417	3.57	20.50	1.43
2.333	1.55	8.417	3.09	14.500	3.57	20.58	1.43
2.417	1.55	8.500	3.09	14.583	3.57	20.67	1.43
2.500	1.55	8.583	3.09	14.667	3.57	20.75	1.43
2.583	1.55	8.667	3.09	14.750	3.57	20.83	1.43
2.667	1.55	8.750	3.33	14.833	3.57	20.92	1.43
2.750	1.55	8.833	3.33	14.917	3.57	21.00	1.43
2.833	1.55	8.917	3.33	15.000	3.57	21.08	1.43
2.917	1.55	9.000	3.33	15.083	3.57	21.17	1.43
3.000	1.55	9.083	3.33	15.167	3.57	21.25	1.43
3.083	1.55	9.167	3.33	15.250	3.57	21.33	1.43
3.167	1.55	9.250	3.81	15.333	3.57	21.42	1.43
3.250	1.55	9.333	3.81	15.417	3.57	21.50	1.43
3.333	1.55	9.417	3.81	15.500	3.57	21.58	1.43
3.417	1.55	9.500	3.81	15.583	3.57	21.67	1.43
3.500	1.55	9.583	3.81	15.667	3.57	21.75	1.43
3.583	1.55	9.667	3.81	15.750	3.57	21.83	1.43
3.667	1.55	9.750	4.28	15.833	3.57	21.92	1.43
3.750	1.55	9.833	4.28	15.917	3.57	22.00	1.43
3.833	1.55	9.917	4.28	16.000	3.57	22.08	1.43
3.917	1.55	10.000	4.28	16.083	3.57	22.17	1.43
4.000	1.55	10.083	4.28	16.167	3.57	22.25	1.43
4.083	1.55	10.167	4.28	16.250	2.14	22.33	1.43
4.167	1.55	10.250	5.47	16.333	2.14	22.42	1.43
4.250	1.90	10.333	5.47	16.417	2.14	22.50	1.43
4.333	1.90	10.417	5.47	16.500	2.14	22.58	1.43
4.417	1.90	10.500	5.47	16.583	2.14	22.67	1.43
4.500	1.90	10.583	5.47	16.667	2.14	22.75	1.43
4.583	1.90	10.667	5.47	16.750	2.14	22.83	1.43
4.667	1.90	10.750	7.37	16.833	2.14	22.92	1.43
4.750	1.90	10.833	7.37	16.917	2.14	23.00	1.43
4.833	1.90	10.917	7.37	17.000	2.14	23.08	1.43
4.917	1.90	11.000	7.37	17.083	2.14	23.17	1.43
5.000	1.90	11.083	7.37	17.167	2.14	23.25	1.43
5.083	1.90	11.167	7.37	17.250	2.14	23.33	1.43
5.167	1.90	11.250	11.42	17.333	2.14	23.42	1.43
5.250	1.90	11.333	11.42	17.417	2.14	23.50	1.43
5.333	1.90	11.417	11.42	17.500	2.14	23.58	1.43
5.417	1.90	11.500	11.42	17.583	2.14	23.67	1.43
5.500	1.90	11.583	11.42	17.667	2.14	23.75	1.43
5.583	1.90	11.667	11.42	17.750	2.14	23.83	1.43
5.667	1.90	11.750	35.21	17.833	2.14	23.92	1.43
5.750	1.90	11.833	35.21	17.917	2.14	24.00	1.43
5.833	1.90	11.917	90.40	18.000	2.14	24.08	1.43
5.917	1.90	12.000	90.40	18.083	2.14	24.17	1.43

6.000 1.90 |12.083 145.59 |18.167 2.14 |
6.083 1.90 |12.167 145.59 |18.250 2.14 |

Unit Hyd Qpeak (cms)= 0.125

PEAK FLOW (cms)= 0.089 (i)
TIME TO PEAK (hrs)= 12.333
RUNOFF VOLUME (mm)= 46.818
TOTAL RAINFALL (mm)= 118.950
RUNOFF COEFFICIENT = 0.394

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0010) | Area (ha)= 0.87 Curve Number (CN)= 32.0
| ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.24

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.90	12.250	17.14	18.33	2.14
0.167	0.00	6.250	2.14	12.333	17.13	18.42	2.14
0.250	1.31	6.333	2.14	12.417	17.13	18.50	2.14
0.333	1.31	6.417	2.14	12.500	17.13	18.58	2.14
0.417	1.31	6.500	2.14	12.583	17.13	18.67	2.14
0.500	1.31	6.583	2.14	12.667	17.13	18.75	2.14
0.583	1.31	6.667	2.14	12.750	8.80	18.83	2.14
0.667	1.31	6.750	2.14	12.833	8.80	18.92	2.14
0.750	1.31	6.833	2.14	12.917	8.80	19.00	2.14
0.833	1.31	6.917	2.14	13.000	8.80	19.08	2.14
0.917	1.31	7.000	2.14	13.083	8.80	19.17	2.14
1.000	1.31	7.083	2.14	13.167	8.80	19.25	2.14
1.083	1.31	7.167	2.14	13.250	6.42	19.33	2.14
1.167	1.31	7.250	2.62	13.333	6.42	19.42	2.14
1.250	1.31	7.333	2.62	13.417	6.42	19.50	2.14
1.333	1.31	7.417	2.62	13.500	6.42	19.58	2.14
1.417	1.31	7.500	2.62	13.583	6.42	19.67	2.14
1.500	1.31	7.583	2.62	13.667	6.42	19.75	2.14
1.583	1.31	7.667	2.62	13.750	5.00	19.83	2.14
1.667	1.31	7.750	2.62	13.833	5.00	19.92	2.14
1.750	1.31	7.833	2.62	13.917	5.00	20.00	2.14
1.833	1.31	7.917	2.62	14.000	5.00	20.08	2.14
1.917	1.31	8.000	2.62	14.083	5.00	20.17	2.14
2.000	1.31	8.083	2.62	14.167	5.00	20.25	1.43
2.083	1.31	8.167	2.62	14.250	3.57	20.33	1.43
2.167	1.31	8.250	3.09	14.333	3.57	20.42	1.43
2.250	1.55	8.333	3.09	14.417	3.57	20.50	1.43
2.333	1.55	8.417	3.09	14.500	3.57	20.58	1.43
2.417	1.55	8.500	3.09	14.583	3.57	20.67	1.43
2.500	1.55	8.583	3.09	14.667	3.57	20.75	1.43
2.583	1.55	8.667	3.09	14.750	3.57	20.83	1.43
2.667	1.55	8.750	3.33	14.833	3.57	20.92	1.43
2.750	1.55	8.833	3.33	14.917	3.57	21.00	1.43
2.833	1.55	8.917	3.33	15.000	3.57	21.08	1.43
2.917	1.55	9.000	3.33	15.083	3.57	21.17	1.43
3.000	1.55	9.083	3.33	15.167	3.57	21.25	1.43
3.083	1.55	9.167	3.33	15.250	3.57	21.33	1.43
3.167	1.55	9.250	3.81	15.333	3.57	21.42	1.43
3.250	1.55	9.333	3.81	15.417	3.57	21.50	1.43
3.333	1.55	9.417	3.81	15.500	3.57	21.58	1.43
3.417	1.55	9.500	3.81	15.583	3.57	21.67	1.43
3.500	1.55	9.583	3.81	15.667	3.57	21.75	1.43
3.583	1.55	9.667	3.81	15.750	3.57	21.83	1.43
3.667	1.55	9.750	4.28	15.833	3.57	21.92	1.43
3.750	1.55	9.833	4.28	15.917	3.57	22.00	1.43
3.833	1.55	9.917	4.28	16.000	3.57	22.08	1.43
3.917	1.55	10.000	4.28	16.083	3.57	22.17	1.43

4.000	1.55	10.083	4.28	16.167	3.57	22.25	1.43
4.083	1.55	10.167	4.28	16.250	2.14	22.33	1.43
4.167	1.55	10.250	5.47	16.333	2.14	22.42	1.43
4.250	1.90	10.333	5.47	16.417	2.14	22.50	1.43
4.333	1.90	10.417	5.47	16.500	2.14	22.58	1.43
4.417	1.90	10.500	5.47	16.583	2.14	22.67	1.43
4.500	1.90	10.583	5.47	16.667	2.14	22.75	1.43
4.583	1.90	10.667	5.47	16.750	2.14	22.83	1.43
4.667	1.90	10.750	7.37	16.833	2.14	22.92	1.43
4.750	1.90	10.833	7.37	16.917	2.14	23.00	1.43
4.833	1.90	10.917	7.37	17.000	2.14	23.08	1.43
4.917	1.90	11.000	7.37	17.083	2.14	23.17	1.43
5.000	1.90	11.083	7.37	17.167	2.14	23.25	1.43
5.083	1.90	11.167	7.37	17.250	2.14	23.33	1.43
5.167	1.90	11.250	11.42	17.333	2.14	23.42	1.43
5.250	1.90	11.333	11.42	17.417	2.14	23.50	1.43
5.333	1.90	11.417	11.42	17.500	2.14	23.58	1.43
5.417	1.90	11.500	11.42	17.583	2.14	23.67	1.43
5.500	1.90	11.583	11.42	17.667	2.14	23.75	1.43
5.583	1.90	11.667	11.42	17.750	2.14	23.83	1.43
5.667	1.90	11.750	35.21	17.833	2.14	23.92	1.43
5.750	1.90	11.833	35.21	17.917	2.14	24.00	1.43
5.833	1.90	11.917	90.40	18.000	2.14	24.08	1.43
5.917	1.90	12.000	90.40	18.083	2.14	24.17	1.43
6.000	1.90	12.083	145.59	18.167	2.14		
6.083	1.90	12.167	145.59	18.250	2.14		

Unit Hyd Qpeak (cms)= 0.138

PEAK FLOW (cms)= 0.033 (i)
TIME TO PEAK (hrs)= 12.250
RUNOFF VOLUME (mm)= 18.281
TOTAL RAINFALL (mm)= 118.950
RUNOFF COEFFICIENT = 0.154

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0011)| Area (ha)= 3.37 Curve Number (CN)= 31.2
| ID= 1 DT= 5.0 min | Ia (mm)= 7.52 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.21

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.90	12.250	17.14	18.33	2.14
0.167	0.00	6.250	2.14	12.333	17.13	18.42	2.14
0.250	1.31	6.333	2.14	12.417	17.13	18.50	2.14
0.333	1.31	6.417	2.14	12.500	17.13	18.58	2.14
0.417	1.31	6.500	2.14	12.583	17.13	18.67	2.14
0.500	1.31	6.583	2.14	12.667	17.13	18.75	2.14
0.583	1.31	6.667	2.14	12.750	8.80	18.83	2.14
0.667	1.31	6.750	2.14	12.833	8.80	18.92	2.14
0.750	1.31	6.833	2.14	12.917	8.80	19.00	2.14
0.833	1.31	6.917	2.14	13.000	8.80	19.08	2.14
0.917	1.31	7.000	2.14	13.083	8.80	19.17	2.14
1.000	1.31	7.083	2.14	13.167	8.80	19.25	2.14
1.083	1.31	7.167	2.14	13.250	6.42	19.33	2.14
1.167	1.31	7.250	2.62	13.333	6.42	19.42	2.14
1.250	1.31	7.333	2.62	13.417	6.42	19.50	2.14
1.333	1.31	7.417	2.62	13.500	6.42	19.58	2.14
1.417	1.31	7.500	2.62	13.583	6.42	19.67	2.14
1.500	1.31	7.583	2.62	13.667	6.42	19.75	2.14
1.583	1.31	7.667	2.62	13.750	5.00	19.83	2.14
1.667	1.31	7.750	2.62	13.833	5.00	19.92	2.14
1.750	1.31	7.833	2.62	13.917	5.00	20.00	2.14
1.833	1.31	7.917	2.62	14.000	5.00	20.08	2.14
1.917	1.31	8.000	2.62	14.083	5.00	20.17	2.14

2.000	1.31	8.083	2.62	14.167	5.00	20.25	1.43
2.083	1.31	8.167	2.62	14.250	3.57	20.33	1.43
2.167	1.31	8.250	3.09	14.333	3.57	20.42	1.43
2.250	1.55	8.333	3.09	14.417	3.57	20.50	1.43
2.333	1.55	8.417	3.09	14.500	3.57	20.58	1.43
2.417	1.55	8.500	3.09	14.583	3.57	20.67	1.43
2.500	1.55	8.583	3.09	14.667	3.57	20.75	1.43
2.583	1.55	8.667	3.09	14.750	3.57	20.83	1.43
2.667	1.55	8.750	3.33	14.833	3.57	20.92	1.43
2.750	1.55	8.833	3.33	14.917	3.57	21.00	1.43
2.833	1.55	8.917	3.33	15.000	3.57	21.08	1.43
2.917	1.55	9.000	3.33	15.083	3.57	21.17	1.43
3.000	1.55	9.083	3.33	15.167	3.57	21.25	1.43
3.083	1.55	9.167	3.33	15.250	3.57	21.33	1.43
3.167	1.55	9.250	3.81	15.333	3.57	21.42	1.43
3.250	1.55	9.333	3.81	15.417	3.57	21.50	1.43
3.333	1.55	9.417	3.81	15.500	3.57	21.58	1.43
3.417	1.55	9.500	3.81	15.583	3.57	21.67	1.43
3.500	1.55	9.583	3.81	15.667	3.57	21.75	1.43
3.583	1.55	9.667	3.81	15.750	3.57	21.83	1.43
3.667	1.55	9.750	4.28	15.833	3.57	21.92	1.43
3.750	1.55	9.833	4.28	15.917	3.57	22.00	1.43
3.833	1.55	9.917	4.28	16.000	3.57	22.08	1.43
3.917	1.55	10.000	4.28	16.083	3.57	22.17	1.43
4.000	1.55	10.083	4.28	16.167	3.57	22.25	1.43
4.083	1.55	10.167	4.28	16.250	2.14	22.33	1.43
4.167	1.55	10.250	5.47	16.333	2.14	22.42	1.43
4.250	1.90	10.333	5.47	16.417	2.14	22.50	1.43
4.333	1.90	10.417	5.47	16.500	2.14	22.58	1.43
4.417	1.90	10.500	5.47	16.583	2.14	22.67	1.43
4.500	1.90	10.583	5.47	16.667	2.14	22.75	1.43
4.583	1.90	10.667	5.47	16.750	2.14	22.83	1.43
4.667	1.90	10.750	7.37	16.833	2.14	22.92	1.43
4.750	1.90	10.833	7.37	16.917	2.14	23.00	1.43
4.833	1.90	10.917	7.37	17.000	2.14	23.08	1.43
4.917	1.90	11.000	7.37	17.083	2.14	23.17	1.43
5.000	1.90	11.083	7.37	17.167	2.14	23.25	1.43
5.083	1.90	11.167	7.37	17.250	2.14	23.33	1.43
5.167	1.90	11.250	11.42	17.333	2.14	23.42	1.43
5.250	1.90	11.333	11.42	17.417	2.14	23.50	1.43
5.333	1.90	11.417	11.42	17.500	2.14	23.58	1.43
5.417	1.90	11.500	11.42	17.583	2.14	23.67	1.43
5.500	1.90	11.583	11.42	17.667	2.14	23.75	1.43
5.583	1.90	11.667	11.42	17.750	2.14	23.83	1.43
5.667	1.90	11.750	35.21	17.833	2.14	23.92	1.43
5.750	1.90	11.833	35.21	17.917	2.14	24.00	1.43
5.833	1.90	11.917	90.40	18.000	2.14	24.08	1.43
5.917	1.90	12.000	90.40	18.083	2.14	24.17	1.43
6.000	1.90	12.083	145.59	18.167	2.14		
6.083	1.90	12.167	145.59	18.250	2.14		

Unit Hyd Qpeak (cms)= 0.613

PEAK FLOW (cms)= 0.142 (i)

TIME TO PEAK (hrs)= 12.250

RUNOFF VOLUME (mm)= 18.461

TOTAL RAINFALL (mm)= 118.950

RUNOFF COEFFICIENT = 0.155

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| ADD HYD (0017)|

| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.

----- (ha) (cms) (hrs) (mm)

ID1= 1 (0010): 0.87 0.033 12.25 18.28

+ ID2= 2 (0011): 3.37 0.142 12.25 18.46

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ID = 3 (0017): 4.24 0.175 12.25 18.42

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| ADD HYD ( 0017)|
| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 3 ( 0017): 4.24 0.175 12.25 18.42
+ ID2= 2 ( 0009): 1.11 0.089 12.33 46.82
=====
ID = 1 ( 0017): 5.35 0.256 12.25 24.31

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NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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| CALIB |
| NASHYD ( 0012)| Area (ha)= 1.60 Curve Number (CN)= 49.7
| ID= 1 DT= 5.0 min | la (mm)= 8.23 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.24

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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---- TRANSFORMED HYETOGRAPH ----
TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN
hrs mm/hr | hrs mm/hr | hrs mm/hr | hrs mm/hr
0.083 0.00 | 6.167 1.90 | 12.250 17.14 | 18.33 2.14
0.167 0.00 | 6.250 2.14 | 12.333 17.13 | 18.42 2.14
0.250 1.31 | 6.333 2.14 | 12.417 17.13 | 18.50 2.14
0.333 1.31 | 6.417 2.14 | 12.500 17.13 | 18.58 2.14
0.417 1.31 | 6.500 2.14 | 12.583 17.13 | 18.67 2.14
0.500 1.31 | 6.583 2.14 | 12.667 17.13 | 18.75 2.14
0.583 1.31 | 6.667 2.14 | 12.750 8.80 | 18.83 2.14
0.667 1.31 | 6.750 2.14 | 12.833 8.80 | 18.92 2.14
0.750 1.31 | 6.833 2.14 | 12.917 8.80 | 19.00 2.14
0.833 1.31 | 6.917 2.14 | 13.000 8.80 | 19.08 2.14
0.917 1.31 | 7.000 2.14 | 13.083 8.80 | 19.17 2.14
1.000 1.31 | 7.083 2.14 | 13.167 8.80 | 19.25 2.14
1.083 1.31 | 7.167 2.14 | 13.250 6.42 | 19.33 2.14
1.167 1.31 | 7.250 2.62 | 13.333 6.42 | 19.42 2.14
1.250 1.31 | 7.333 2.62 | 13.417 6.42 | 19.50 2.14
1.333 1.31 | 7.417 2.62 | 13.500 6.42 | 19.58 2.14
1.417 1.31 | 7.500 2.62 | 13.583 6.42 | 19.67 2.14
1.500 1.31 | 7.583 2.62 | 13.667 6.42 | 19.75 2.14
1.583 1.31 | 7.667 2.62 | 13.750 5.00 | 19.83 2.14
1.667 1.31 | 7.750 2.62 | 13.833 5.00 | 19.92 2.14
1.750 1.31 | 7.833 2.62 | 13.917 5.00 | 20.00 2.14
1.833 1.31 | 7.917 2.62 | 14.000 5.00 | 20.08 2.14
1.917 1.31 | 8.000 2.62 | 14.083 5.00 | 20.17 2.14
2.000 1.31 | 8.083 2.62 | 14.167 5.00 | 20.25 1.43
2.083 1.31 | 8.167 2.62 | 14.250 3.57 | 20.33 1.43
2.167 1.31 | 8.250 3.09 | 14.333 3.57 | 20.42 1.43
2.250 1.55 | 8.333 3.09 | 14.417 3.57 | 20.50 1.43
2.333 1.55 | 8.417 3.09 | 14.500 3.57 | 20.58 1.43
2.417 1.55 | 8.500 3.09 | 14.583 3.57 | 20.67 1.43
2.500 1.55 | 8.583 3.09 | 14.667 3.57 | 20.75 1.43
2.583 1.55 | 8.667 3.09 | 14.750 3.57 | 20.83 1.43
2.667 1.55 | 8.750 3.33 | 14.833 3.57 | 20.92 1.43
2.750 1.55 | 8.833 3.33 | 14.917 3.57 | 21.00 1.43
2.833 1.55 | 8.917 3.33 | 15.000 3.57 | 21.08 1.43
2.917 1.55 | 9.000 3.33 | 15.083 3.57 | 21.17 1.43
3.000 1.55 | 9.083 3.33 | 15.167 3.57 | 21.25 1.43
3.083 1.55 | 9.167 3.33 | 15.250 3.57 | 21.33 1.43
3.167 1.55 | 9.250 3.81 | 15.333 3.57 | 21.42 1.43
3.250 1.55 | 9.333 3.81 | 15.417 3.57 | 21.50 1.43
3.333 1.55 | 9.417 3.81 | 15.500 3.57 | 21.58 1.43
3.417 1.55 | 9.500 3.81 | 15.583 3.57 | 21.67 1.43
3.500 1.55 | 9.583 3.81 | 15.667 3.57 | 21.75 1.43
3.583 1.55 | 9.667 3.81 | 15.750 3.57 | 21.83 1.43
3.667 1.55 | 9.750 4.28 | 15.833 3.57 | 21.92 1.43
3.750 1.55 | 9.833 4.28 | 15.917 3.57 | 22.00 1.43
3.833 1.55 | 9.917 4.28 | 16.000 3.57 | 22.08 1.43
3.917 1.55 | 10.000 4.28 | 16.083 3.57 | 22.17 1.43
4.000 1.55 | 10.083 4.28 | 16.167 3.57 | 22.25 1.43

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4.083	1.55	10.167	4.28	16.250	2.14	22.33	1.43
4.167	1.55	10.250	5.47	16.333	2.14	22.42	1.43
4.250	1.90	10.333	5.47	16.417	2.14	22.50	1.43
4.333	1.90	10.417	5.47	16.500	2.14	22.58	1.43
4.417	1.90	10.500	5.47	16.583	2.14	22.67	1.43
4.500	1.90	10.583	5.47	16.667	2.14	22.75	1.43
4.583	1.90	10.667	5.47	16.750	2.14	22.83	1.43
4.667	1.90	10.750	7.37	16.833	2.14	22.92	1.43
4.750	1.90	10.833	7.37	16.917	2.14	23.00	1.43
4.833	1.90	10.917	7.37	17.000	2.14	23.08	1.43
4.917	1.90	11.000	7.37	17.083	2.14	23.17	1.43
5.000	1.90	11.083	7.37	17.167	2.14	23.25	1.43
5.083	1.90	11.167	7.37	17.250	2.14	23.33	1.43
5.167	1.90	11.250	11.42	17.333	2.14	23.42	1.43
5.250	1.90	11.333	11.42	17.417	2.14	23.50	1.43
5.333	1.90	11.417	11.42	17.500	2.14	23.58	1.43
5.417	1.90	11.500	11.42	17.583	2.14	23.67	1.43
5.500	1.90	11.583	11.42	17.667	2.14	23.75	1.43
5.583	1.90	11.667	11.42	17.750	2.14	23.83	1.43
5.667	1.90	11.750	35.21	17.833	2.14	23.92	1.43
5.750	1.90	11.833	35.21	17.917	2.14	24.00	1.43
5.833	1.90	11.917	90.40	18.000	2.14	24.08	1.43
5.917	1.90	12.000	90.40	18.083	2.14	24.17	1.43
6.000	1.90	12.083	145.59	18.167	2.14		
6.083	1.90	12.167	145.59	18.250	2.14		

Unit Hyd Qpeak (cms)= 0.255

PEAK FLOW (cms)= 0.114 (i)

TIME TO PEAK (hrs)= 12.250

RUNOFF VOLUME (mm)= 33.300

TOTAL RAINFALL (mm)= 118.950

RUNOFF COEFFICIENT = 0.280

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0013) | Area (ha)= 12.11 Curve Number (CN)= 48.1
 | ID= 1 DT= 5.0 min | Ia (mm)= 11.30 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.55

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.90	12.250	17.14	18.33	2.14
0.167	0.00	6.250	2.14	12.333	17.13	18.42	2.14
0.250	1.31	6.333	2.14	12.417	17.13	18.50	2.14
0.333	1.31	6.417	2.14	12.500	17.13	18.58	2.14
0.417	1.31	6.500	2.14	12.583	17.13	18.67	2.14
0.500	1.31	6.583	2.14	12.667	17.13	18.75	2.14
0.583	1.31	6.667	2.14	12.750	8.80	18.83	2.14
0.667	1.31	6.750	2.14	12.833	8.80	18.92	2.14
0.750	1.31	6.833	2.14	12.917	8.80	19.00	2.14
0.833	1.31	6.917	2.14	13.000	8.80	19.08	2.14
0.917	1.31	7.000	2.14	13.083	8.80	19.17	2.14
1.000	1.31	7.083	2.14	13.167	8.80	19.25	2.14
1.083	1.31	7.167	2.14	13.250	6.42	19.33	2.14
1.167	1.31	7.250	2.62	13.333	6.42	19.42	2.14
1.250	1.31	7.333	2.62	13.417	6.42	19.50	2.14
1.333	1.31	7.417	2.62	13.500	6.42	19.58	2.14
1.417	1.31	7.500	2.62	13.583	6.42	19.67	2.14
1.500	1.31	7.583	2.62	13.667	6.42	19.75	2.14
1.583	1.31	7.667	2.62	13.750	5.00	19.83	2.14
1.667	1.31	7.750	2.62	13.833	5.00	19.92	2.14
1.750	1.31	7.833	2.62	13.917	5.00	20.00	2.14
1.833	1.31	7.917	2.62	14.000	5.00	20.08	2.14
1.917	1.31	8.000	2.62	14.083	5.00	20.17	2.14
2.000	1.31	8.083	2.62	14.167	5.00	20.25	1.43

[illegible]

0.083	0.00	6.167	1.90	12.250	17.14	18.33	2.14
0.167	0.00	6.250	2.14	12.333	17.13	18.42	2.14
0.250	1.31	6.333	2.14	12.417	17.13	18.50	2.14
0.333	1.31	6.417	2.14	12.500	17.13	18.58	2.14
0.417	1.31	6.500	2.14	12.583	17.13	18.67	2.14
0.500	1.31	6.583	2.14	12.667	17.13	18.75	2.14
0.583	1.31	6.667	2.14	12.750	8.80	18.83	2.14
0.667	1.31	6.750	2.14	12.833	8.80	18.92	2.14
0.750	1.31	6.833	2.14	12.917	8.80	19.00	2.14
0.833	1.31	6.917	2.14	13.000	8.80	19.08	2.14
0.917	1.31	7.000	2.14	13.083	8.80	19.17	2.14
1.000	1.31	7.083	2.14	13.167	8.80	19.25	2.14
1.083	1.31	7.167	2.14	13.250	6.42	19.33	2.14
1.167	1.31	7.250	2.62	13.333	6.42	19.42	2.14
1.250	1.31	7.333	2.62	13.417	6.42	19.50	2.14
1.333	1.31	7.417	2.62	13.500	6.42	19.58	2.14
1.417	1.31	7.500	2.62	13.583	6.42	19.67	2.14
1.500	1.31	7.583	2.62	13.667	6.42	19.75	2.14
1.583	1.31	7.667	2.62	13.750	5.00	19.83	2.14
1.667	1.31	7.750	2.62	13.833	5.00	19.92	2.14
1.750	1.31	7.833	2.62	13.917	5.00	20.00	2.14
1.833	1.31	7.917	2.62	14.000	5.00	20.08	2.14
1.917	1.31	8.000	2.62	14.083	5.00	20.17	2.14
2.000	1.31	8.083	2.62	14.167	5.00	20.25	1.43
2.083	1.31	8.167	2.62	14.250	3.57	20.33	1.43
2.167	1.31	8.250	3.09	14.333	3.57	20.42	1.43
2.250	1.55	8.333	3.09	14.417	3.57	20.50	1.43
2.333	1.55	8.417	3.09	14.500	3.57	20.58	1.43
2.417	1.55	8.500	3.09	14.583	3.57	20.67	1.43
2.500	1.55	8.583	3.09	14.667	3.57	20.75	1.43
2.583	1.55	8.667	3.09	14.750	3.57	20.83	1.43
2.667	1.55	8.750	3.33	14.833	3.57	20.92	1.43
2.750	1.55	8.833	3.33	14.917	3.57	21.00	1.43
2.833	1.55	8.917	3.33	15.000	3.57	21.08	1.43
2.917	1.55	9.000	3.33	15.083	3.57	21.17	1.43
3.000	1.55	9.083	3.33	15.167	3.57	21.25	1.43
3.083	1.55	9.167	3.33	15.250	3.57	21.33	1.43
3.167	1.55	9.250	3.81	15.333	3.57	21.42	1.43
3.250	1.55	9.333	3.81	15.417	3.57	21.50	1.43
3.333	1.55	9.417	3.81	15.500	3.57	21.58	1.43
3.417	1.55	9.500	3.81	15.583	3.57	21.67	1.43
3.500	1.55	9.583	3.81	15.667	3.57	21.75	1.43
3.583	1.55	9.667	3.81	15.750	3.57	21.83	1.43
3.667	1.55	9.750	4.28	15.833	3.57	21.92	1.43
3.750	1.55	9.833	4.28	15.917	3.57	22.00	1.43
3.833	1.55	9.917	4.28	16.000	3.57	22.08	1.43
3.917	1.55	10.000	4.28	16.083	3.57	22.17	1.43
4.000	1.55	10.083	4.28	16.167	3.57	22.25	1.43
4.083	1.55	10.167	4.28	16.250	2.14	22.33	1.43
4.167	1.55	10.250	5.47	16.333	2.14	22.42	1.43
4.250	1.90	10.333	5.47	16.417	2.14	22.50	1.43
4.333	1.90	10.417	5.47	16.500	2.14	22.58	1.43
4.417	1.90	10.500	5.47	16.583	2.14	22.67	1.43
4.500	1.90	10.583	5.47	16.667	2.14	22.75	1.43
4.583	1.90	10.667	5.47	16.750	2.14	22.83	1.43
4.667	1.90	10.750	7.37	16.833	2.14	22.92	1.43
4.750	1.90	10.833	7.37	16.917	2.14	23.00	1.43
4.833	1.90	10.917	7.37	17.000	2.14	23.08	1.43
4.917	1.90	11.000	7.37	17.083	2.14	23.17	1.43
5.000	1.90	11.083	7.37	17.167	2.14	23.25	1.43
5.083	1.90	11.167	7.37	17.250	2.14	23.33	1.43
5.167	1.90	11.250	11.42	17.333	2.14	23.42	1.43
5.250	1.90	11.333	11.42	17.417	2.14	23.50	1.43
5.333	1.90	11.417	11.42	17.500	2.14	23.58	1.43
5.417	1.90	11.500	11.42	17.583	2.14	23.67	1.43
5.500	1.90	11.583	11.42	17.667	2.14	23.75	1.43
5.583	1.90	11.667	11.42	17.750	2.14	23.83	1.43
5.667	1.90	11.750	35.21	17.833	2.14	23.92	1.43
5.750	1.90	11.833	35.21	17.917	2.14	24.00	1.43
5.833	1.90	11.917	90.40	18.000	2.14	24.08	1.43
5.917	1.90	12.000	90.40	18.083	2.14	24.17	1.43
6.000	1.90	12.083	145.59	18.167	2.14		
6.083	1.90	12.167	145.59	18.250	2.14		

Unit Hyd Qpeak (cms)= 0.681

PEAK FLOW (cms)= 0.230 (i)
TIME TO PEAK (hrs)= 12.917
RUNOFF VOLUME (mm)= 18.298
TOTAL RAINFALL (mm)= 118.950
RUNOFF COEFFICIENT = 0.154

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| ADD HYD (0019)|
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 1 (0001): 2.64 0.061 12.75 21.50
+ ID2= 2 (0012): 1.60 0.114 12.25 33.30
=====

ID = 3 (0019): 4.24 0.154 12.33 25.95

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 3 (0019): 4.24 0.154 12.33 25.95
+ ID2= 2 (0013): 12.11 0.435 12.67 30.36
=====

ID = 1 (0019): 16.35 0.557 12.58 29.22

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 1 (0019): 16.35 0.557 12.58 29.22
+ ID2= 2 (0014): 14.45 0.230 12.92 18.30
=====

ID = 3 (0019): 30.80 0.758 12.67 24.09

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 3 (0019): 30.80 0.758 12.67 24.09
+ ID2= 2 (0016): 3.21 0.127 12.25 27.13
=====

ID = 1 (0019): 34.01 0.852 12.67 24.38

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 1 (0019): 34.01 0.852 12.67 24.38
+ ID2= 2 (0017): 5.35 0.256 12.25 24.31
=====

ID = 3 (0019): 39.36 1.026 12.50 24.37

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.


```

-----
| ADD HYD ( 0019)|
| 3 + 2 = 1 |   AREA  QPEAK  TPEAK  R.V.
-----      (ha) (cms) (hrs) (mm)
  ID1= 3 ( 0019): 39.36 1.026 12.50 24.37
+ ID2= 2 ( 0002):  1.25 0.065 12.25 23.32
=====
  ID = 1 ( 0019): 40.61 1.076 12.42 24.34

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ADD HYD ( 0019)|
| 1 + 2 = 3 |   AREA  QPEAK  TPEAK  R.V.
-----      (ha) (cms) (hrs) (mm)
  ID1= 1 ( 0019): 40.61 1.076 12.42 24.34
+ ID2= 2 ( 0005):  9.65 0.169 12.83 18.30
=====
  ID = 3 ( 0019): 50.26 1.208 12.50 23.18

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ADD HYD ( 0019)|
| 3 + 2 = 1 |   AREA  QPEAK  TPEAK  R.V.
-----      (ha) (cms) (hrs) (mm)
  ID1= 3 ( 0019): 50.26 1.208 12.50 23.18
+ ID2= 2 ( 0006):  1.82 0.059 12.33 18.29
=====
  ID = 1 ( 0019): 52.08 1.260 12.50 23.01

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ADD HYD ( 0019)|
| 1 + 2 = 3 |   AREA  QPEAK  TPEAK  R.V.
-----      (ha) (cms) (hrs) (mm)
  ID1= 1 ( 0019): 52.08 1.260 12.50 23.01
+ ID2= 2 ( 0007):  1.70 0.116 12.50 46.82
=====
  ID = 3 ( 0019): 53.78 1.376 12.50 23.76

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ADD HYD ( 0019)|
| 3 + 2 = 1 |   AREA  QPEAK  TPEAK  R.V.
-----      (ha) (cms) (hrs) (mm)
  ID1= 3 ( 0019): 53.78 1.376 12.50 23.76
+ ID2= 2 ( 0008):  0.23 0.007 12.33 18.29
=====
  ID = 1 ( 0019): 54.01 1.383 12.50 23.74

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

=====
V V I SSSSS U U A L      (v 6.2.2015)
V V I SS  U U AA L
V V I SS  U U AAAAA L
V V I SS  U U A A L
V V I SSSSS UUUUU A A LLLL

```

```

OOO TTTT TTTT H H Y Y M M OOO TM
O O T T H H Y Y MM MM O O
O O T T H H Y M M O O
OOO T T H H Y M M OOO

```

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***** DETAILED OUTPUT *****

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.2\VO2\voin.dat
Output filename: C:\Users\ajoshi\AppData\Local\Civica\XH5\152aa03f-7064-4fdb-bb4c-0cf677e1e463\7fb1df3e-5899-43d7-a047-e3b9a8804a6c\scena
Summary filename: C:\Users\ajoshi\AppData\Local\Civica\XH5\152aa03f-7064-4fdb-bb4c-0cf677e1e463\7fb1df3e-5899-43d7-a047-e3b9a8804a6c\scena

DATE: 04-25-2025 TIME: 03:57:18

USER:

COMMENTS: _____

** SIMULATION : 5yr 24hr 10min SCS Type II (M **

| READ STORM | Filename: C:\Users\ajoshi\AppData
| | ata\Local\Temp\
| | 2e45309f-1d89-4d82-bfac-9f33c63413d7\86c4e64f
| Ptotal= 78.34 mm | Comments: 5yr 24hr 10min SCS Type II (MTO)

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.00	0.00	6.17	1.41	12.33	11.28	18.50	1.41
0.17	0.86	6.33	1.41	12.50	11.28	18.67	1.41
0.33	0.86	6.50	1.41	12.67	5.80	18.83	1.41
0.50	0.86	6.67	1.41	12.83	5.80	19.00	1.41
0.67	0.86	6.83	1.41	13.00	5.80	19.17	1.41
0.83	0.86	7.00	1.41	13.17	4.23	19.33	1.41
1.00	0.86	7.17	1.72	13.33	4.23	19.50	1.41
1.17	0.86	7.33	1.72	13.50	4.23	19.67	1.41
1.33	0.86	7.50	1.72	13.67	3.29	19.83	1.41
1.50	0.86	7.67	1.72	13.83	3.29	20.00	1.41
1.67	0.86	7.83	1.72	14.00	3.29	20.17	0.94
1.83	0.86	8.00	1.72	14.17	2.35	20.33	0.94
2.00	0.86	8.17	2.04	14.33	2.35	20.50	0.94
2.17	1.02	8.33	2.04	14.50	2.35	20.67	0.94
2.33	1.02	8.50	2.04	14.67	2.35	20.83	0.94
2.50	1.02	8.67	2.19	14.83	2.35	21.00	0.94
2.67	1.02	8.83	2.19	15.00	2.35	21.17	0.94
2.83	1.02	9.00	2.19	15.17	2.35	21.33	0.94
3.00	1.02	9.17	2.51	15.33	2.35	21.50	0.94
3.17	1.02	9.33	2.51	15.50	2.35	21.67	0.94
3.33	1.02	9.50	2.51	15.67	2.35	21.83	0.94
3.50	1.02	9.67	2.82	15.83	2.35	22.00	0.94
3.67	1.02	9.83	2.82	16.00	2.35	22.17	0.94
3.83	1.02	10.00	2.82	16.17	1.41	22.33	0.94
4.00	1.02	10.17	3.60	16.33	1.41	22.50	0.94
4.17	1.25	10.33	3.60	16.50	1.41	22.67	0.94
4.33	1.25	10.50	3.60	16.67	1.41	22.83	0.94
4.50	1.25	10.67	4.86	16.83	1.41	23.00	0.94
4.67	1.25	10.83	4.86	17.00	1.41	23.17	0.94
4.83	1.25	11.00	4.86	17.17	1.41	23.33	0.94
5.00	1.25	11.17	7.52	17.33	1.41	23.50	0.94
5.17	1.25	11.33	7.52	17.50	1.41	23.67	0.94
5.33	1.25	11.50	7.52	17.67	1.41	23.83	0.94
5.50	1.25	11.67	23.19	17.83	1.41	24.00	0.94
5.67	1.25	11.83	59.54	18.00	1.41		
5.83	1.25	12.00	95.89	18.17	1.41		
6.00	1.25	12.17	11.28	18.33	1.41		

 | CALIB |
 | NASHYD (0015) | Area (ha)= 3.24 Curve Number (CN)= 37.0
 | ID= 1 DT= 5.0 min | Ia (mm)= 11.14 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.41

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.25	12.250	11.29	18.33	1.41
0.167	0.00	6.250	1.41	12.333	11.28	18.42	1.41
0.250	0.86	6.333	1.41	12.417	11.28	18.50	1.41
0.333	0.86	6.417	1.41	12.500	11.28	18.58	1.41
0.417	0.86	6.500	1.41	12.583	11.28	18.67	1.41
0.500	0.86	6.583	1.41	12.667	11.28	18.75	1.41
0.583	0.86	6.667	1.41	12.750	5.80	18.83	1.41
0.667	0.86	6.750	1.41	12.833	5.80	18.92	1.41
0.750	0.86	6.833	1.41	12.917	5.80	19.00	1.41
0.833	0.86	6.917	1.41	13.000	5.80	19.08	1.41
0.917	0.86	7.000	1.41	13.083	5.80	19.17	1.41
1.000	0.86	7.083	1.41	13.167	5.80	19.25	1.41
1.083	0.86	7.167	1.41	13.250	4.23	19.33	1.41
1.167	0.86	7.250	1.72	13.333	4.23	19.42	1.41
1.250	0.86	7.333	1.72	13.417	4.23	19.50	1.41
1.333	0.86	7.417	1.72	13.500	4.23	19.58	1.41
1.417	0.86	7.500	1.72	13.583	4.23	19.67	1.41
1.500	0.86	7.583	1.72	13.667	4.23	19.75	1.41
1.583	0.86	7.667	1.72	13.750	3.29	19.83	1.41
1.667	0.86	7.750	1.72	13.833	3.29	19.92	1.41
1.750	0.86	7.833	1.72	13.917	3.29	20.00	1.41
1.833	0.86	7.917	1.72	14.000	3.29	20.08	1.41
1.917	0.86	8.000	1.72	14.083	3.29	20.17	1.41
2.000	0.86	8.083	1.72	14.167	3.29	20.25	0.94
2.083	0.86	8.167	1.72	14.250	2.35	20.33	0.94
2.167	0.86	8.250	2.04	14.333	2.35	20.42	0.94
2.250	1.02	8.333	2.04	14.417	2.35	20.50	0.94
2.333	1.02	8.417	2.04	14.500	2.35	20.58	0.94
2.417	1.02	8.500	2.04	14.583	2.35	20.67	0.94
2.500	1.02	8.583	2.04	14.667	2.35	20.75	0.94
2.583	1.02	8.667	2.04	14.750	2.35	20.83	0.94
2.667	1.02	8.750	2.19	14.833	2.35	20.92	0.94
2.750	1.02	8.833	2.19	14.917	2.35	21.00	0.94
2.833	1.02	8.917	2.19	15.000	2.35	21.08	0.94
2.917	1.02	9.000	2.19	15.083	2.35	21.17	0.94
3.000	1.02	9.083	2.19	15.167	2.35	21.25	0.94
3.083	1.02	9.167	2.19	15.250	2.35	21.33	0.94
3.167	1.02	9.250	2.51	15.333	2.35	21.42	0.94
3.250	1.02	9.333	2.51	15.417	2.35	21.50	0.94
3.333	1.02	9.417	2.51	15.500	2.35	21.58	0.94
3.417	1.02	9.500	2.51	15.583	2.35	21.67	0.94
3.500	1.02	9.583	2.51	15.667	2.35	21.75	0.94
3.583	1.02	9.667	2.51	15.750	2.35	21.83	0.94
3.667	1.02	9.750	2.82	15.833	2.35	21.92	0.94
3.750	1.02	9.833	2.82	15.917	2.35	22.00	0.94
3.833	1.02	9.917	2.82	16.000	2.35	22.08	0.94
3.917	1.02	10.000	2.82	16.083	2.35	22.17	0.94
4.000	1.02	10.083	2.82	16.167	2.35	22.25	0.94
4.083	1.02	10.167	2.82	16.250	1.41	22.33	0.94
4.167	1.02	10.250	3.60	16.333	1.41	22.42	0.94
4.250	1.25	10.333	3.60	16.417	1.41	22.50	0.94
4.333	1.25	10.417	3.60	16.500	1.41	22.58	0.94
4.417	1.25	10.500	3.60	16.583	1.41	22.67	0.94
4.500	1.25	10.583	3.60	16.667	1.41	22.75	0.94
4.583	1.25	10.667	3.60	16.750	1.41	22.83	0.94
4.667	1.25	10.750	4.86	16.833	1.41	22.92	0.94
4.750	1.25	10.833	4.86	16.917	1.41	23.00	0.94
4.833	1.25	10.917	4.86	17.000	1.41	23.08	0.94
4.917	1.25	11.000	4.86	17.083	1.41	23.17	0.94
5.000	1.25	11.083	4.86	17.167	1.41	23.25	0.94

5.083	1.25	11.167	4.86	17.250	1.41	23.33	0.94
5.167	1.25	11.250	7.52	17.333	1.41	23.42	0.94
5.250	1.25	11.333	7.52	17.417	1.41	23.50	0.94
5.333	1.25	11.417	7.52	17.500	1.41	23.58	0.94
5.417	1.25	11.500	7.52	17.583	1.41	23.67	0.94
5.500	1.25	11.583	7.52	17.667	1.41	23.75	0.94
5.583	1.25	11.667	7.52	17.750	1.41	23.83	0.94
5.667	1.25	11.750	23.19	17.833	1.41	23.92	0.94
5.750	1.25	11.833	23.19	17.917	1.41	24.00	0.94
5.833	1.25	11.917	59.53	18.000	1.41	24.08	0.94
5.917	1.25	12.000	59.54	18.083	1.41	24.17	0.94
6.000	1.25	12.083	95.88	18.167	1.41		
6.083	1.25	12.167	95.89	18.250	1.41		

Unit Hyd Qpeak (cms)= 0.302

PEAK FLOW (cms)= 0.040 (i)
TIME TO PEAK (hrs)= 12.500
RUNOFF VOLUME (mm)= 9.036
TOTAL RAINFALL (mm)= 78.340
RUNOFF COEFFICIENT = 0.115

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0001)| Area (ha)= 2.64 Curve Number (CN)= 36.2
|ID= 1 DT= 5.0 min | la (mm)= 9.50 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.61

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.25	12.250	11.29	18.33	1.41
0.167	0.00	6.250	1.41	12.333	11.28	18.42	1.41
0.250	0.86	6.333	1.41	12.417	11.28	18.50	1.41
0.333	0.86	6.417	1.41	12.500	11.28	18.58	1.41
0.417	0.86	6.500	1.41	12.583	11.28	18.67	1.41
0.500	0.86	6.583	1.41	12.667	11.28	18.75	1.41
0.583	0.86	6.667	1.41	12.750	5.80	18.83	1.41
0.667	0.86	6.750	1.41	12.833	5.80	18.92	1.41
0.750	0.86	6.833	1.41	12.917	5.80	19.00	1.41
0.833	0.86	6.917	1.41	13.000	5.80	19.08	1.41
0.917	0.86	7.000	1.41	13.083	5.80	19.17	1.41
1.000	0.86	7.083	1.41	13.167	5.80	19.25	1.41
1.083	0.86	7.167	1.41	13.250	4.23	19.33	1.41
1.167	0.86	7.250	1.72	13.333	4.23	19.42	1.41
1.250	0.86	7.333	1.72	13.417	4.23	19.50	1.41
1.333	0.86	7.417	1.72	13.500	4.23	19.58	1.41
1.417	0.86	7.500	1.72	13.583	4.23	19.67	1.41
1.500	0.86	7.583	1.72	13.667	4.23	19.75	1.41
1.583	0.86	7.667	1.72	13.750	3.29	19.83	1.41
1.667	0.86	7.750	1.72	13.833	3.29	19.92	1.41
1.750	0.86	7.833	1.72	13.917	3.29	20.00	1.41
1.833	0.86	7.917	1.72	14.000	3.29	20.08	1.41
1.917	0.86	8.000	1.72	14.083	3.29	20.17	1.41
2.000	0.86	8.083	1.72	14.167	3.29	20.25	0.94
2.083	0.86	8.167	1.72	14.250	2.35	20.33	0.94
2.167	0.86	8.250	2.04	14.333	2.35	20.42	0.94
2.250	1.02	8.333	2.04	14.417	2.35	20.50	0.94
2.333	1.02	8.417	2.04	14.500	2.35	20.58	0.94
2.417	1.02	8.500	2.04	14.583	2.35	20.67	0.94
2.500	1.02	8.583	2.04	14.667	2.35	20.75	0.94
2.583	1.02	8.667	2.04	14.750	2.35	20.83	0.94
2.667	1.02	8.750	2.19	14.833	2.35	20.92	0.94
2.750	1.02	8.833	2.19	14.917	2.35	21.00	0.94
2.833	1.02	8.917	2.19	15.000	2.35	21.08	0.94
2.917	1.02	9.000	2.19	15.083	2.35	21.17	0.94
3.000	1.02	9.083	2.19	15.167	2.35	21.25	0.94

3.083	1.02	9.167	2.19	15.250	2.35	21.33	0.94
3.167	1.02	9.250	2.51	15.333	2.35	21.42	0.94
3.250	1.02	9.333	2.51	15.417	2.35	21.50	0.94
3.333	1.02	9.417	2.51	15.500	2.35	21.58	0.94
3.417	1.02	9.500	2.51	15.583	2.35	21.67	0.94
3.500	1.02	9.583	2.51	15.667	2.35	21.75	0.94
3.583	1.02	9.667	2.51	15.750	2.35	21.83	0.94
3.667	1.02	9.750	2.82	15.833	2.35	21.92	0.94
3.750	1.02	9.833	2.82	15.917	2.35	22.00	0.94
3.833	1.02	9.917	2.82	16.000	2.35	22.08	0.94
3.917	1.02	10.000	2.82	16.083	2.35	22.17	0.94
4.000	1.02	10.083	2.82	16.167	2.35	22.25	0.94
4.083	1.02	10.167	2.82	16.250	1.41	22.33	0.94
4.167	1.02	10.250	3.60	16.333	1.41	22.42	0.94
4.250	1.25	10.333	3.60	16.417	1.41	22.50	0.94
4.333	1.25	10.417	3.60	16.500	1.41	22.58	0.94
4.417	1.25	10.500	3.60	16.583	1.41	22.67	0.94
4.500	1.25	10.583	3.60	16.667	1.41	22.75	0.94
4.583	1.25	10.667	3.60	16.750	1.41	22.83	0.94
4.667	1.25	10.750	4.86	16.833	1.41	22.92	0.94
4.750	1.25	10.833	4.86	16.917	1.41	23.00	0.94
4.833	1.25	10.917	4.86	17.000	1.41	23.08	0.94
4.917	1.25	11.000	4.86	17.083	1.41	23.17	0.94
5.000	1.25	11.083	4.86	17.167	1.41	23.25	0.94
5.083	1.25	11.167	4.86	17.250	1.41	23.33	0.94
5.167	1.25	11.250	7.52	17.333	1.41	23.42	0.94
5.250	1.25	11.333	7.52	17.417	1.41	23.50	0.94
5.333	1.25	11.417	7.52	17.500	1.41	23.58	0.94
5.417	1.25	11.500	7.52	17.583	1.41	23.67	0.94
5.500	1.25	11.583	7.52	17.667	1.41	23.75	0.94
5.583	1.25	11.667	7.52	17.750	1.41	23.83	0.94
5.667	1.25	11.750	23.19	17.833	1.41	23.92	0.94
5.750	1.25	11.833	23.19	17.917	1.41	24.00	0.94
5.833	1.25	11.917	59.53	18.000	1.41	24.08	0.94
5.917	1.25	12.000	59.54	18.083	1.41	24.17	0.94
6.000	1.25	12.083	95.88	18.167	1.41		
6.083	1.25	12.167	95.89	18.250	1.41		

Unit Hyd Qpeak (cms)= 0.165

PEAK FLOW (cms)= 0.025 (i)

TIME TO PEAK (hrs)= 12.750

RUNOFF VOLUME (mm)= 9.174

TOTAL RAINFALL (mm)= 78.340

RUNOFF COEFFICIENT = 0.117

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0002) | Area (ha)= 1.25 Curve Number (CN)= 38.5
 | ID= 1 DT= 5.0 min | Ia (mm)= 9.23 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.22

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.25	12.250	11.29	18.33	1.41
0.167	0.00	6.250	1.41	12.333	11.28	18.42	1.41
0.250	0.86	6.333	1.41	12.417	11.28	18.50	1.41
0.333	0.86	6.417	1.41	12.500	11.28	18.58	1.41
0.417	0.86	6.500	1.41	12.583	11.28	18.67	1.41
0.500	0.86	6.583	1.41	12.667	11.28	18.75	1.41
0.583	0.86	6.667	1.41	12.750	5.80	18.83	1.41
0.667	0.86	6.750	1.41	12.833	5.80	18.92	1.41
0.750	0.86	6.833	1.41	12.917	5.80	19.00	1.41
0.833	0.86	6.917	1.41	13.000	5.80	19.08	1.41
0.917	0.86	7.000	1.41	13.083	5.80	19.17	1.41
1.000	0.86	7.083	1.41	13.167	5.80	19.25	1.41

1.083	0.86	7.167	1.41	13.250	4.23	19.33	1.41
1.167	0.86	7.250	1.72	13.333	4.23	19.42	1.41
1.250	0.86	7.333	1.72	13.417	4.23	19.50	1.41
1.333	0.86	7.417	1.72	13.500	4.23	19.58	1.41
1.417	0.86	7.500	1.72	13.583	4.23	19.67	1.41
1.500	0.86	7.583	1.72	13.667	4.23	19.75	1.41
1.583	0.86	7.667	1.72	13.750	3.29	19.83	1.41
1.667	0.86	7.750	1.72	13.833	3.29	19.92	1.41
1.750	0.86	7.833	1.72	13.917	3.29	20.00	1.41
1.833	0.86	7.917	1.72	14.000	3.29	20.08	1.41
1.917	0.86	8.000	1.72	14.083	3.29	20.17	1.41
2.000	0.86	8.083	1.72	14.167	3.29	20.25	0.94
2.083	0.86	8.167	1.72	14.250	2.35	20.33	0.94
2.167	0.86	8.250	2.04	14.333	2.35	20.42	0.94
2.250	1.02	8.333	2.04	14.417	2.35	20.50	0.94
2.333	1.02	8.417	2.04	14.500	2.35	20.58	0.94
2.417	1.02	8.500	2.04	14.583	2.35	20.67	0.94
2.500	1.02	8.583	2.04	14.667	2.35	20.75	0.94
2.583	1.02	8.667	2.04	14.750	2.35	20.83	0.94
2.667	1.02	8.750	2.19	14.833	2.35	20.92	0.94
2.750	1.02	8.833	2.19	14.917	2.35	21.00	0.94
2.833	1.02	8.917	2.19	15.000	2.35	21.08	0.94
2.917	1.02	9.000	2.19	15.083	2.35	21.17	0.94
3.000	1.02	9.083	2.19	15.167	2.35	21.25	0.94
3.083	1.02	9.167	2.19	15.250	2.35	21.33	0.94
3.167	1.02	9.250	2.51	15.333	2.35	21.42	0.94
3.250	1.02	9.333	2.51	15.417	2.35	21.50	0.94
3.333	1.02	9.417	2.51	15.500	2.35	21.58	0.94
3.417	1.02	9.500	2.51	15.583	2.35	21.67	0.94
3.500	1.02	9.583	2.51	15.667	2.35	21.75	0.94
3.583	1.02	9.667	2.51	15.750	2.35	21.83	0.94
3.667	1.02	9.750	2.82	15.833	2.35	21.92	0.94
3.750	1.02	9.833	2.82	15.917	2.35	22.00	0.94
3.833	1.02	9.917	2.82	16.000	2.35	22.08	0.94
3.917	1.02	10.000	2.82	16.083	2.35	22.17	0.94
4.000	1.02	10.083	2.82	16.167	2.35	22.25	0.94
4.083	1.02	10.167	2.82	16.250	1.41	22.33	0.94
4.167	1.02	10.250	3.60	16.333	1.41	22.42	0.94
4.250	1.25	10.333	3.60	16.417	1.41	22.50	0.94
4.333	1.25	10.417	3.60	16.500	1.41	22.58	0.94
4.417	1.25	10.500	3.60	16.583	1.41	22.67	0.94
4.500	1.25	10.583	3.60	16.667	1.41	22.75	0.94
4.583	1.25	10.667	3.60	16.750	1.41	22.83	0.94
4.667	1.25	10.750	4.86	16.833	1.41	22.92	0.94
4.750	1.25	10.833	4.86	16.917	1.41	23.00	0.94
4.833	1.25	10.917	4.86	17.000	1.41	23.08	0.94
4.917	1.25	11.000	4.86	17.083	1.41	23.17	0.94
5.000	1.25	11.083	4.86	17.167	1.41	23.25	0.94
5.083	1.25	11.167	4.86	17.250	1.41	23.33	0.94
5.167	1.25	11.250	7.52	17.333	1.41	23.42	0.94
5.250	1.25	11.333	7.52	17.417	1.41	23.50	0.94
5.333	1.25	11.417	7.52	17.500	1.41	23.58	0.94
5.417	1.25	11.500	7.52	17.583	1.41	23.67	0.94
5.500	1.25	11.583	7.52	17.667	1.41	23.75	0.94
5.583	1.25	11.667	7.52	17.750	1.41	23.83	0.94
5.667	1.25	11.750	23.19	17.833	1.41	23.92	0.94
5.750	1.25	11.833	23.19	17.917	1.41	24.00	0.94
5.833	1.25	11.917	59.53	18.000	1.41	24.08	0.94
5.917	1.25	12.000	59.54	18.083	1.41	24.17	0.94
6.000	1.25	12.083	95.88	18.167	1.41		
6.083	1.25	12.167	95.89	18.250	1.41		

Unit Hyd Qpeak (cms)= 0.217

PEAK FLOW (cms)= 0.027 (i)

TIME TO PEAK (hrs)= 12.250

RUNOFF VOLUME (mm)= 10.045

TOTAL RAINFALL (mm)= 78.340

RUNOFF COEFFICIENT = 0.128

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0003) | Area (ha)= 2.55 Curve Number (CN)= 36.9
 | ID= 1 DT= 5.0 min | Ia (mm)= 9.42 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.49

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.25	12.250	11.29	18.33	1.41
0.167	0.00	6.250	1.41	12.333	11.28	18.42	1.41
0.250	0.86	6.333	1.41	12.417	11.28	18.50	1.41
0.333	0.86	6.417	1.41	12.500	11.28	18.58	1.41
0.417	0.86	6.500	1.41	12.583	11.28	18.67	1.41
0.500	0.86	6.583	1.41	12.667	11.28	18.75	1.41
0.583	0.86	6.667	1.41	12.750	5.80	18.83	1.41
0.667	0.86	6.750	1.41	12.833	5.80	18.92	1.41
0.750	0.86	6.833	1.41	12.917	5.80	19.00	1.41
0.833	0.86	6.917	1.41	13.000	5.80	19.08	1.41
0.917	0.86	7.000	1.41	13.083	5.80	19.17	1.41
1.000	0.86	7.083	1.41	13.167	5.80	19.25	1.41
1.083	0.86	7.167	1.41	13.250	4.23	19.33	1.41
1.167	0.86	7.250	1.72	13.333	4.23	19.42	1.41
1.250	0.86	7.333	1.72	13.417	4.23	19.50	1.41
1.333	0.86	7.417	1.72	13.500	4.23	19.58	1.41
1.417	0.86	7.500	1.72	13.583	4.23	19.67	1.41
1.500	0.86	7.583	1.72	13.667	4.23	19.75	1.41
1.583	0.86	7.667	1.72	13.750	3.29	19.83	1.41
1.667	0.86	7.750	1.72	13.833	3.29	19.92	1.41
1.750	0.86	7.833	1.72	13.917	3.29	20.00	1.41
1.833	0.86	7.917	1.72	14.000	3.29	20.08	1.41
1.917	0.86	8.000	1.72	14.083	3.29	20.17	1.41
2.000	0.86	8.083	1.72	14.167	3.29	20.25	0.94
2.083	0.86	8.167	1.72	14.250	2.35	20.33	0.94
2.167	0.86	8.250	2.04	14.333	2.35	20.42	0.94
2.250	1.02	8.333	2.04	14.417	2.35	20.50	0.94
2.333	1.02	8.417	2.04	14.500	2.35	20.58	0.94
2.417	1.02	8.500	2.04	14.583	2.35	20.67	0.94
2.500	1.02	8.583	2.04	14.667	2.35	20.75	0.94
2.583	1.02	8.667	2.04	14.750	2.35	20.83	0.94
2.667	1.02	8.750	2.19	14.833	2.35	20.92	0.94
2.750	1.02	8.833	2.19	14.917	2.35	21.00	0.94
2.833	1.02	8.917	2.19	15.000	2.35	21.08	0.94
2.917	1.02	9.000	2.19	15.083	2.35	21.17	0.94
3.000	1.02	9.083	2.19	15.167	2.35	21.25	0.94
3.083	1.02	9.167	2.19	15.250	2.35	21.33	0.94
3.167	1.02	9.250	2.51	15.333	2.35	21.42	0.94
3.250	1.02	9.333	2.51	15.417	2.35	21.50	0.94
3.333	1.02	9.417	2.51	15.500	2.35	21.58	0.94
3.417	1.02	9.500	2.51	15.583	2.35	21.67	0.94
3.500	1.02	9.583	2.51	15.667	2.35	21.75	0.94
3.583	1.02	9.667	2.51	15.750	2.35	21.83	0.94
3.667	1.02	9.750	2.82	15.833	2.35	21.92	0.94
3.750	1.02	9.833	2.82	15.917	2.35	22.00	0.94
3.833	1.02	9.917	2.82	16.000	2.35	22.08	0.94
3.917	1.02	10.000	2.82	16.083	2.35	22.17	0.94
4.000	1.02	10.083	2.82	16.167	2.35	22.25	0.94
4.083	1.02	10.167	2.82	16.250	1.41	22.33	0.94
4.167	1.02	10.250	3.60	16.333	1.41	22.42	0.94
4.250	1.25	10.333	3.60	16.417	1.41	22.50	0.94
4.333	1.25	10.417	3.60	16.500	1.41	22.58	0.94
4.417	1.25	10.500	3.60	16.583	1.41	22.67	0.94
4.500	1.25	10.583	3.60	16.667	1.41	22.75	0.94
4.583	1.25	10.667	3.60	16.750	1.41	22.83	0.94
4.667	1.25	10.750	4.86	16.833	1.41	22.92	0.94
4.750	1.25	10.833	4.86	16.917	1.41	23.00	0.94
4.833	1.25	10.917	4.86	17.000	1.41	23.08	0.94
4.917	1.25	11.000	4.86	17.083	1.41	23.17	0.94
5.000	1.25	11.083	4.86	17.167	1.41	23.25	0.94
5.083	1.25	11.167	4.86	17.250	1.41	23.33	0.94

5.167	1.25	11.250	7.52	17.333	1.41	23.42	0.94
5.250	1.25	11.333	7.52	17.417	1.41	23.50	0.94
5.333	1.25	11.417	7.52	17.500	1.41	23.58	0.94
5.417	1.25	11.500	7.52	17.583	1.41	23.67	0.94
5.500	1.25	11.583	7.52	17.667	1.41	23.75	0.94
5.583	1.25	11.667	7.52	17.750	1.41	23.83	0.94
5.667	1.25	11.750	23.19	17.833	1.41	23.92	0.94
5.750	1.25	11.833	23.19	17.917	1.41	24.00	0.94
5.833	1.25	11.917	59.53	18.000	1.41	24.08	0.94
5.917	1.25	12.000	59.54	18.083	1.41	24.17	0.94
6.000	1.25	12.083	95.88	18.167	1.41		
6.083	1.25	12.167	95.89	18.250	1.41		

Unit Hyd Qpeak (cms)= 0.199

PEAK FLOW (cms)= 0.030 (i)
 TIME TO PEAK (hrs)= 12.583
 RUNOFF VOLUME (mm)= 9.437
 TOTAL RAINFALL (mm)= 78.340
 RUNOFF COEFFICIENT = 0.120

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0004) | Area (ha)= 0.66 Curve Number (CN)= 62.0
 | ID= 1 DT= 5.0 min | la (mm)= 7.00 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.19

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.25	12.250	11.29	18.33	1.41
0.167	0.00	6.250	1.41	12.333	11.28	18.42	1.41
0.250	0.86	6.333	1.41	12.417	11.28	18.50	1.41
0.333	0.86	6.417	1.41	12.500	11.28	18.58	1.41
0.417	0.86	6.500	1.41	12.583	11.28	18.67	1.41
0.500	0.86	6.583	1.41	12.667	11.28	18.75	1.41
0.583	0.86	6.667	1.41	12.750	5.80	18.83	1.41
0.667	0.86	6.750	1.41	12.833	5.80	18.92	1.41
0.750	0.86	6.833	1.41	12.917	5.80	19.00	1.41
0.833	0.86	6.917	1.41	13.000	5.80	19.08	1.41
0.917	0.86	7.000	1.41	13.083	5.80	19.17	1.41
1.000	0.86	7.083	1.41	13.167	5.80	19.25	1.41
1.083	0.86	7.167	1.41	13.250	4.23	19.33	1.41
1.167	0.86	7.250	1.72	13.333	4.23	19.42	1.41
1.250	0.86	7.333	1.72	13.417	4.23	19.50	1.41
1.333	0.86	7.417	1.72	13.500	4.23	19.58	1.41
1.417	0.86	7.500	1.72	13.583	4.23	19.67	1.41
1.500	0.86	7.583	1.72	13.667	4.23	19.75	1.41
1.583	0.86	7.667	1.72	13.750	3.29	19.83	1.41
1.667	0.86	7.750	1.72	13.833	3.29	19.92	1.41
1.750	0.86	7.833	1.72	13.917	3.29	20.00	1.41
1.833	0.86	7.917	1.72	14.000	3.29	20.08	1.41
1.917	0.86	8.000	1.72	14.083	3.29	20.17	1.41
2.000	0.86	8.083	1.72	14.167	3.29	20.25	0.94
2.083	0.86	8.167	1.72	14.250	2.35	20.33	0.94
2.167	0.86	8.250	2.04	14.333	2.35	20.42	0.94
2.250	1.02	8.333	2.04	14.417	2.35	20.50	0.94
2.333	1.02	8.417	2.04	14.500	2.35	20.58	0.94
2.417	1.02	8.500	2.04	14.583	2.35	20.67	0.94
2.500	1.02	8.583	2.04	14.667	2.35	20.75	0.94
2.583	1.02	8.667	2.04	14.750	2.35	20.83	0.94
2.667	1.02	8.750	2.19	14.833	2.35	20.92	0.94
2.750	1.02	8.833	2.19	14.917	2.35	21.00	0.94
2.833	1.02	8.917	2.19	15.000	2.35	21.08	0.94
2.917	1.02	9.000	2.19	15.083	2.35	21.17	0.94
3.000	1.02	9.083	2.19	15.167	2.35	21.25	0.94
3.083	1.02	9.167	2.19	15.250	2.35	21.33	0.94

3.167	1.02	9.250	2.51	15.333	2.35	21.42	0.94
3.250	1.02	9.333	2.51	15.417	2.35	21.50	0.94
3.333	1.02	9.417	2.51	15.500	2.35	21.58	0.94
3.417	1.02	9.500	2.51	15.583	2.35	21.67	0.94
3.500	1.02	9.583	2.51	15.667	2.35	21.75	0.94
3.583	1.02	9.667	2.51	15.750	2.35	21.83	0.94
3.667	1.02	9.750	2.82	15.833	2.35	21.92	0.94
3.750	1.02	9.833	2.82	15.917	2.35	22.00	0.94
3.833	1.02	9.917	2.82	16.000	2.35	22.08	0.94
3.917	1.02	10.000	2.82	16.083	2.35	22.17	0.94
4.000	1.02	10.083	2.82	16.167	2.35	22.25	0.94
4.083	1.02	10.167	2.82	16.250	1.41	22.33	0.94
4.167	1.02	10.250	3.60	16.333	1.41	22.42	0.94
4.250	1.25	10.333	3.60	16.417	1.41	22.50	0.94
4.333	1.25	10.417	3.60	16.500	1.41	22.58	0.94
4.417	1.25	10.500	3.60	16.583	1.41	22.67	0.94
4.500	1.25	10.583	3.60	16.667	1.41	22.75	0.94
4.583	1.25	10.667	3.60	16.750	1.41	22.83	0.94
4.667	1.25	10.750	4.86	16.833	1.41	22.92	0.94
4.750	1.25	10.833	4.86	16.917	1.41	23.00	0.94
4.833	1.25	10.917	4.86	17.000	1.41	23.08	0.94
4.917	1.25	11.000	4.86	17.083	1.41	23.17	0.94
5.000	1.25	11.083	4.86	17.167	1.41	23.25	0.94
5.083	1.25	11.167	4.86	17.250	1.41	23.33	0.94
5.167	1.25	11.250	7.52	17.333	1.41	23.42	0.94
5.250	1.25	11.333	7.52	17.417	1.41	23.50	0.94
5.333	1.25	11.417	7.52	17.500	1.41	23.58	0.94
5.417	1.25	11.500	7.52	17.583	1.41	23.67	0.94
5.500	1.25	11.583	7.52	17.667	1.41	23.75	0.94
5.583	1.25	11.667	7.52	17.750	1.41	23.83	0.94
5.667	1.25	11.750	23.19	17.833	1.41	23.92	0.94
5.750	1.25	11.833	23.19	17.917	1.41	24.00	0.94
5.833	1.25	11.917	59.53	18.000	1.41	24.08	0.94
5.917	1.25	12.000	59.54	18.083	1.41	24.17	0.94
6.000	1.25	12.083	95.88	18.167	1.41		
6.083	1.25	12.167	95.89	18.250	1.41		

Unit Hyd Qpeak (cms)= 0.133

PEAK FLOW (cms)= 0.037 (i)

TIME TO PEAK (hrs)= 12.250

RUNOFF VOLUME (mm)= 22.366

TOTAL RAINFALL (mm)= 78.340

RUNOFF COEFFICIENT = 0.285

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
| ADD HYD ( 0016)|
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 1 ( 0003): 2.55 0.030 12.58 9.44
+ ID2= 2 ( 0004): 0.66 0.037 12.25 22.37
=====
ID = 3 ( 0016): 3.21 0.057 12.25 12.10

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NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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| CALIB |
| NASHYD ( 0005)| Area (ha)= 9.65 Curve Number (CN)= 32.0
| ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.71

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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---- TRANSFORMED HYETOGRAPH ----
TIME RAIN| TIME RAIN| TIME RAIN| TIME RAIN
hrs mm/hr| hrs mm/hr| hrs mm/hr| hrs mm/hr
0.083 0.00| 6.167 1.25| 12.250 11.29| 18.33 1.41

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0.167	0.00	6.250	1.41	12.333	11.28	18.42	1.41
0.250	0.86	6.333	1.41	12.417	11.28	18.50	1.41
0.333	0.86	6.417	1.41	12.500	11.28	18.58	1.41
0.417	0.86	6.500	1.41	12.583	11.28	18.67	1.41
0.500	0.86	6.583	1.41	12.667	11.28	18.75	1.41
0.583	0.86	6.667	1.41	12.750	5.80	18.83	1.41
0.667	0.86	6.750	1.41	12.833	5.80	18.92	1.41
0.750	0.86	6.833	1.41	12.917	5.80	19.00	1.41
0.833	0.86	6.917	1.41	13.000	5.80	19.08	1.41
0.917	0.86	7.000	1.41	13.083	5.80	19.17	1.41
1.000	0.86	7.083	1.41	13.167	5.80	19.25	1.41
1.083	0.86	7.167	1.41	13.250	4.23	19.33	1.41
1.167	0.86	7.250	1.72	13.333	4.23	19.42	1.41
1.250	0.86	7.333	1.72	13.417	4.23	19.50	1.41
1.333	0.86	7.417	1.72	13.500	4.23	19.58	1.41
1.417	0.86	7.500	1.72	13.583	4.23	19.67	1.41
1.500	0.86	7.583	1.72	13.667	4.23	19.75	1.41
1.583	0.86	7.667	1.72	13.750	3.29	19.83	1.41
1.667	0.86	7.750	1.72	13.833	3.29	19.92	1.41
1.750	0.86	7.833	1.72	13.917	3.29	20.00	1.41
1.833	0.86	7.917	1.72	14.000	3.29	20.08	1.41
1.917	0.86	8.000	1.72	14.083	3.29	20.17	1.41
2.000	0.86	8.083	1.72	14.167	3.29	20.25	0.94
2.083	0.86	8.167	1.72	14.250	2.35	20.33	0.94
2.167	0.86	8.250	2.04	14.333	2.35	20.42	0.94
2.250	1.02	8.333	2.04	14.417	2.35	20.50	0.94
2.333	1.02	8.417	2.04	14.500	2.35	20.58	0.94
2.417	1.02	8.500	2.04	14.583	2.35	20.67	0.94
2.500	1.02	8.583	2.04	14.667	2.35	20.75	0.94
2.583	1.02	8.667	2.04	14.750	2.35	20.83	0.94
2.667	1.02	8.750	2.19	14.833	2.35	20.92	0.94
2.750	1.02	8.833	2.19	14.917	2.35	21.00	0.94
2.833	1.02	8.917	2.19	15.000	2.35	21.08	0.94
2.917	1.02	9.000	2.19	15.083	2.35	21.17	0.94
3.000	1.02	9.083	2.19	15.167	2.35	21.25	0.94
3.083	1.02	9.167	2.19	15.250	2.35	21.33	0.94
3.167	1.02	9.250	2.51	15.333	2.35	21.42	0.94
3.250	1.02	9.333	2.51	15.417	2.35	21.50	0.94
3.333	1.02	9.417	2.51	15.500	2.35	21.58	0.94
3.417	1.02	9.500	2.51	15.583	2.35	21.67	0.94
3.500	1.02	9.583	2.51	15.667	2.35	21.75	0.94
3.583	1.02	9.667	2.51	15.750	2.35	21.83	0.94
3.667	1.02	9.750	2.82	15.833	2.35	21.92	0.94
3.750	1.02	9.833	2.82	15.917	2.35	22.00	0.94
3.833	1.02	9.917	2.82	16.000	2.35	22.08	0.94
3.917	1.02	10.000	2.82	16.083	2.35	22.17	0.94
4.000	1.02	10.083	2.82	16.167	2.35	22.25	0.94
4.083	1.02	10.167	2.82	16.250	1.41	22.33	0.94
4.167	1.02	10.250	3.60	16.333	1.41	22.42	0.94
4.250	1.25	10.333	3.60	16.417	1.41	22.50	0.94
4.333	1.25	10.417	3.60	16.500	1.41	22.58	0.94
4.417	1.25	10.500	3.60	16.583	1.41	22.67	0.94
4.500	1.25	10.583	3.60	16.667	1.41	22.75	0.94
4.583	1.25	10.667	3.60	16.750	1.41	22.83	0.94
4.667	1.25	10.750	4.86	16.833	1.41	22.92	0.94
4.750	1.25	10.833	4.86	16.917	1.41	23.00	0.94
4.833	1.25	10.917	4.86	17.000	1.41	23.08	0.94
4.917	1.25	11.000	4.86	17.083	1.41	23.17	0.94
5.000	1.25	11.083	4.86	17.167	1.41	23.25	0.94
5.083	1.25	11.167	4.86	17.250	1.41	23.33	0.94
5.167	1.25	11.250	7.52	17.333	1.41	23.42	0.94
5.250	1.25	11.333	7.52	17.417	1.41	23.50	0.94
5.333	1.25	11.417	7.52	17.500	1.41	23.58	0.94
5.417	1.25	11.500	7.52	17.583	1.41	23.67	0.94
5.500	1.25	11.583	7.52	17.667	1.41	23.75	0.94
5.583	1.25	11.667	7.52	17.750	1.41	23.83	0.94
5.667	1.25	11.750	23.19	17.833	1.41	23.92	0.94
5.750	1.25	11.833	23.19	17.917	1.41	24.00	0.94
5.833	1.25	11.917	59.53	18.000	1.41	24.08	0.94
5.917	1.25	12.000	59.54	18.083	1.41	24.17	0.94
6.000	1.25	12.083	95.88	18.167	1.41		
6.083	1.25	12.167	95.89	18.250	1.41		

Unit Hyd Qpeak (cms)= 0.519

PEAK FLOW (cms)= 0.069 (i)
TIME TO PEAK (hrs)= 12.833
RUNOFF VOLUME (mm)= 7.680
TOTAL RAINFALL (mm)= 78.340
RUNOFF COEFFICIENT = 0.098

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0006) | Area (ha)= 1.82 Curve Number (CN)= 32.0
| ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.30

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.25	12.250	11.29	18.33	1.41
0.167	0.00	6.250	1.41	12.333	11.28	18.42	1.41
0.250	0.86	6.333	1.41	12.417	11.28	18.50	1.41
0.333	0.86	6.417	1.41	12.500	11.28	18.58	1.41
0.417	0.86	6.500	1.41	12.583	11.28	18.67	1.41
0.500	0.86	6.583	1.41	12.667	11.28	18.75	1.41
0.583	0.86	6.667	1.41	12.750	5.80	18.83	1.41
0.667	0.86	6.750	1.41	12.833	5.80	18.92	1.41
0.750	0.86	6.833	1.41	12.917	5.80	19.00	1.41
0.833	0.86	6.917	1.41	13.000	5.80	19.08	1.41
0.917	0.86	7.000	1.41	13.083	5.80	19.17	1.41
1.000	0.86	7.083	1.41	13.167	5.80	19.25	1.41
1.083	0.86	7.167	1.41	13.250	4.23	19.33	1.41
1.167	0.86	7.250	1.72	13.333	4.23	19.42	1.41
1.250	0.86	7.333	1.72	13.417	4.23	19.50	1.41
1.333	0.86	7.417	1.72	13.500	4.23	19.58	1.41
1.417	0.86	7.500	1.72	13.583	4.23	19.67	1.41
1.500	0.86	7.583	1.72	13.667	4.23	19.75	1.41
1.583	0.86	7.667	1.72	13.750	3.29	19.83	1.41
1.667	0.86	7.750	1.72	13.833	3.29	19.92	1.41
1.750	0.86	7.833	1.72	13.917	3.29	20.00	1.41
1.833	0.86	7.917	1.72	14.000	3.29	20.08	1.41
1.917	0.86	8.000	1.72	14.083	3.29	20.17	1.41
2.000	0.86	8.083	1.72	14.167	3.29	20.25	0.94
2.083	0.86	8.167	1.72	14.250	2.35	20.33	0.94
2.167	0.86	8.250	2.04	14.333	2.35	20.42	0.94
2.250	1.02	8.333	2.04	14.417	2.35	20.50	0.94
2.333	1.02	8.417	2.04	14.500	2.35	20.58	0.94
2.417	1.02	8.500	2.04	14.583	2.35	20.67	0.94
2.500	1.02	8.583	2.04	14.667	2.35	20.75	0.94
2.583	1.02	8.667	2.04	14.750	2.35	20.83	0.94
2.667	1.02	8.750	2.19	14.833	2.35	20.92	0.94
2.750	1.02	8.833	2.19	14.917	2.35	21.00	0.94
2.833	1.02	8.917	2.19	15.000	2.35	21.08	0.94
2.917	1.02	9.000	2.19	15.083	2.35	21.17	0.94
3.000	1.02	9.083	2.19	15.167	2.35	21.25	0.94
3.083	1.02	9.167	2.19	15.250	2.35	21.33	0.94
3.167	1.02	9.250	2.51	15.333	2.35	21.42	0.94
3.250	1.02	9.333	2.51	15.417	2.35	21.50	0.94
3.333	1.02	9.417	2.51	15.500	2.35	21.58	0.94
3.417	1.02	9.500	2.51	15.583	2.35	21.67	0.94
3.500	1.02	9.583	2.51	15.667	2.35	21.75	0.94
3.583	1.02	9.667	2.51	15.750	2.35	21.83	0.94
3.667	1.02	9.750	2.82	15.833	2.35	21.92	0.94
3.750	1.02	9.833	2.82	15.917	2.35	22.00	0.94
3.833	1.02	9.917	2.82	16.000	2.35	22.08	0.94
3.917	1.02	10.000	2.82	16.083	2.35	22.17	0.94
4.000	1.02	10.083	2.82	16.167	2.35	22.25	0.94
4.083	1.02	10.167	2.82	16.250	1.41	22.33	0.94
4.167	1.02	10.250	3.60	16.333	1.41	22.42	0.94

4.250	1.25	10.333	3.60	16.417	1.41	22.50	0.94
4.333	1.25	10.417	3.60	16.500	1.41	22.58	0.94
4.417	1.25	10.500	3.60	16.583	1.41	22.67	0.94
4.500	1.25	10.583	3.60	16.667	1.41	22.75	0.94
4.583	1.25	10.667	3.60	16.750	1.41	22.83	0.94
4.667	1.25	10.750	4.86	16.833	1.41	22.92	0.94
4.750	1.25	10.833	4.86	16.917	1.41	23.00	0.94
4.833	1.25	10.917	4.86	17.000	1.41	23.08	0.94
4.917	1.25	11.000	4.86	17.083	1.41	23.17	0.94
5.000	1.25	11.083	4.86	17.167	1.41	23.25	0.94
5.083	1.25	11.167	4.86	17.250	1.41	23.33	0.94
5.167	1.25	11.250	7.52	17.333	1.41	23.42	0.94
5.250	1.25	11.333	7.52	17.417	1.41	23.50	0.94
5.333	1.25	11.417	7.52	17.500	1.41	23.58	0.94
5.417	1.25	11.500	7.52	17.583	1.41	23.67	0.94
5.500	1.25	11.583	7.52	17.667	1.41	23.75	0.94
5.583	1.25	11.667	7.52	17.750	1.41	23.83	0.94
5.667	1.25	11.750	23.19	17.833	1.41	23.92	0.94
5.750	1.25	11.833	23.19	17.917	1.41	24.00	0.94
5.833	1.25	11.917	59.53	18.000	1.41	24.08	0.94
5.917	1.25	12.000	59.54	18.083	1.41	24.17	0.94
6.000	1.25	12.083	95.88	18.167	1.41		
6.083	1.25	12.167	95.89	18.250	1.41		

Unit Hyd Qpeak (cms)= 0.232

PEAK FLOW (cms)= 0.024 (i)
TIME TO PEAK (hrs)= 12.333
RUNOFF VOLUME (mm)= 7.677
TOTAL RAINFALL (mm)= 78.340
RUNOFF COEFFICIENT = 0.098

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0007)| Area (ha)= 1.70 Curve Number (CN)= 62.0
|ID= 1 DT= 5.0 min | la (mm)= 7.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.43

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.25	12.250	11.29	18.33	1.41
0.167	0.00	6.250	1.41	12.333	11.28	18.42	1.41
0.250	0.86	6.333	1.41	12.417	11.28	18.50	1.41
0.333	0.86	6.417	1.41	12.500	11.28	18.58	1.41
0.417	0.86	6.500	1.41	12.583	11.28	18.67	1.41
0.500	0.86	6.583	1.41	12.667	11.28	18.75	1.41
0.583	0.86	6.667	1.41	12.750	5.80	18.83	1.41
0.667	0.86	6.750	1.41	12.833	5.80	18.92	1.41
0.750	0.86	6.833	1.41	12.917	5.80	19.00	1.41
0.833	0.86	6.917	1.41	13.000	5.80	19.08	1.41
0.917	0.86	7.000	1.41	13.083	5.80	19.17	1.41
1.000	0.86	7.083	1.41	13.167	5.80	19.25	1.41
1.083	0.86	7.167	1.41	13.250	4.23	19.33	1.41
1.167	0.86	7.250	1.72	13.333	4.23	19.42	1.41
1.250	0.86	7.333	1.72	13.417	4.23	19.50	1.41
1.333	0.86	7.417	1.72	13.500	4.23	19.58	1.41
1.417	0.86	7.500	1.72	13.583	4.23	19.67	1.41
1.500	0.86	7.583	1.72	13.667	4.23	19.75	1.41
1.583	0.86	7.667	1.72	13.750	3.29	19.83	1.41
1.667	0.86	7.750	1.72	13.833	3.29	19.92	1.41
1.750	0.86	7.833	1.72	13.917	3.29	20.00	1.41
1.833	0.86	7.917	1.72	14.000	3.29	20.08	1.41
1.917	0.86	8.000	1.72	14.083	3.29	20.17	1.41
2.000	0.86	8.083	1.72	14.167	3.29	20.25	0.94
2.083	0.86	8.167	1.72	14.250	2.35	20.33	0.94
2.167	0.86	8.250	2.04	14.333	2.35	20.42	0.94

2.250	1.02	8.333	2.04	14.417	2.35	20.50	0.94
2.333	1.02	8.417	2.04	14.500	2.35	20.58	0.94
2.417	1.02	8.500	2.04	14.583	2.35	20.67	0.94
2.500	1.02	8.583	2.04	14.667	2.35	20.75	0.94
2.583	1.02	8.667	2.04	14.750	2.35	20.83	0.94
2.667	1.02	8.750	2.19	14.833	2.35	20.92	0.94
2.750	1.02	8.833	2.19	14.917	2.35	21.00	0.94
2.833	1.02	8.917	2.19	15.000	2.35	21.08	0.94
2.917	1.02	9.000	2.19	15.083	2.35	21.17	0.94
3.000	1.02	9.083	2.19	15.167	2.35	21.25	0.94
3.083	1.02	9.167	2.19	15.250	2.35	21.33	0.94
3.167	1.02	9.250	2.51	15.333	2.35	21.42	0.94
3.250	1.02	9.333	2.51	15.417	2.35	21.50	0.94
3.333	1.02	9.417	2.51	15.500	2.35	21.58	0.94
3.417	1.02	9.500	2.51	15.583	2.35	21.67	0.94
3.500	1.02	9.583	2.51	15.667	2.35	21.75	0.94
3.583	1.02	9.667	2.51	15.750	2.35	21.83	0.94
3.667	1.02	9.750	2.82	15.833	2.35	21.92	0.94
3.750	1.02	9.833	2.82	15.917	2.35	22.00	0.94
3.833	1.02	9.917	2.82	16.000	2.35	22.08	0.94
3.917	1.02	10.000	2.82	16.083	2.35	22.17	0.94
4.000	1.02	10.083	2.82	16.167	2.35	22.25	0.94
4.083	1.02	10.167	2.82	16.250	1.41	22.33	0.94
4.167	1.02	10.250	3.60	16.333	1.41	22.42	0.94
4.250	1.25	10.333	3.60	16.417	1.41	22.50	0.94
4.333	1.25	10.417	3.60	16.500	1.41	22.58	0.94
4.417	1.25	10.500	3.60	16.583	1.41	22.67	0.94
4.500	1.25	10.583	3.60	16.667	1.41	22.75	0.94
4.583	1.25	10.667	3.60	16.750	1.41	22.83	0.94
4.667	1.25	10.750	4.86	16.833	1.41	22.92	0.94
4.750	1.25	10.833	4.86	16.917	1.41	23.00	0.94
4.833	1.25	10.917	4.86	17.000	1.41	23.08	0.94
4.917	1.25	11.000	4.86	17.083	1.41	23.17	0.94
5.000	1.25	11.083	4.86	17.167	1.41	23.25	0.94
5.083	1.25	11.167	4.86	17.250	1.41	23.33	0.94
5.167	1.25	11.250	7.52	17.333	1.41	23.42	0.94
5.250	1.25	11.333	7.52	17.417	1.41	23.50	0.94
5.333	1.25	11.417	7.52	17.500	1.41	23.58	0.94
5.417	1.25	11.500	7.52	17.583	1.41	23.67	0.94
5.500	1.25	11.583	7.52	17.667	1.41	23.75	0.94
5.583	1.25	11.667	7.52	17.750	1.41	23.83	0.94
5.667	1.25	11.750	23.19	17.833	1.41	23.92	0.94
5.750	1.25	11.833	23.19	17.917	1.41	24.00	0.94
5.833	1.25	11.917	59.53	18.000	1.41	24.08	0.94
5.917	1.25	12.000	59.54	18.083	1.41	24.17	0.94
6.000	1.25	12.083	95.88	18.167	1.41		
6.083	1.25	12.167	95.89	18.250	1.41		

Unit Hyd Qpeak (cms)= 0.151

PEAK FLOW (cms)= 0.054 (i)

TIME TO PEAK (hrs)= 12.500

RUNOFF VOLUME (mm)= 22.416

TOTAL RAINFALL (mm)= 78.340

RUNOFF COEFFICIENT = 0.286

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0008) | Area (ha)= 0.23 Curve Number (CN)= 32.0
 | ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.33

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----
 TIME RAIN | TIME RAIN |' TIME RAIN | TIME RAIN
 hrs mm/hr | hrs mm/hr |' hrs mm/hr | hrs mm/hr
 0.083 0.00 | 6.167 1.25 |12.250 11.29 |18.33 1.41
 0.167 0.00 | 6.250 1.41 |12.333 11.28 |18.42 1.41

0.250	0.86	6.333	1.41	12.417	11.28	18.50	1.41
0.333	0.86	6.417	1.41	12.500	11.28	18.58	1.41
0.417	0.86	6.500	1.41	12.583	11.28	18.67	1.41
0.500	0.86	6.583	1.41	12.667	11.28	18.75	1.41
0.583	0.86	6.667	1.41	12.750	5.80	18.83	1.41
0.667	0.86	6.750	1.41	12.833	5.80	18.92	1.41
0.750	0.86	6.833	1.41	12.917	5.80	19.00	1.41
0.833	0.86	6.917	1.41	13.000	5.80	19.08	1.41
0.917	0.86	7.000	1.41	13.083	5.80	19.17	1.41
1.000	0.86	7.083	1.41	13.167	5.80	19.25	1.41
1.083	0.86	7.167	1.41	13.250	4.23	19.33	1.41
1.167	0.86	7.250	1.72	13.333	4.23	19.42	1.41
1.250	0.86	7.333	1.72	13.417	4.23	19.50	1.41
1.333	0.86	7.417	1.72	13.500	4.23	19.58	1.41
1.417	0.86	7.500	1.72	13.583	4.23	19.67	1.41
1.500	0.86	7.583	1.72	13.667	4.23	19.75	1.41
1.583	0.86	7.667	1.72	13.750	3.29	19.83	1.41
1.667	0.86	7.750	1.72	13.833	3.29	19.92	1.41
1.750	0.86	7.833	1.72	13.917	3.29	20.00	1.41
1.833	0.86	7.917	1.72	14.000	3.29	20.08	1.41
1.917	0.86	8.000	1.72	14.083	3.29	20.17	1.41
2.000	0.86	8.083	1.72	14.167	3.29	20.25	0.94
2.083	0.86	8.167	1.72	14.250	2.35	20.33	0.94
2.167	0.86	8.250	2.04	14.333	2.35	20.42	0.94
2.250	1.02	8.333	2.04	14.417	2.35	20.50	0.94
2.333	1.02	8.417	2.04	14.500	2.35	20.58	0.94
2.417	1.02	8.500	2.04	14.583	2.35	20.67	0.94
2.500	1.02	8.583	2.04	14.667	2.35	20.75	0.94
2.583	1.02	8.667	2.04	14.750	2.35	20.83	0.94
2.667	1.02	8.750	2.19	14.833	2.35	20.92	0.94
2.750	1.02	8.833	2.19	14.917	2.35	21.00	0.94
2.833	1.02	8.917	2.19	15.000	2.35	21.08	0.94
2.917	1.02	9.000	2.19	15.083	2.35	21.17	0.94
3.000	1.02	9.083	2.19	15.167	2.35	21.25	0.94
3.083	1.02	9.167	2.19	15.250	2.35	21.33	0.94
3.167	1.02	9.250	2.51	15.333	2.35	21.42	0.94
3.250	1.02	9.333	2.51	15.417	2.35	21.50	0.94
3.333	1.02	9.417	2.51	15.500	2.35	21.58	0.94
3.417	1.02	9.500	2.51	15.583	2.35	21.67	0.94
3.500	1.02	9.583	2.51	15.667	2.35	21.75	0.94
3.583	1.02	9.667	2.51	15.750	2.35	21.83	0.94
3.667	1.02	9.750	2.82	15.833	2.35	21.92	0.94
3.750	1.02	9.833	2.82	15.917	2.35	22.00	0.94
3.833	1.02	9.917	2.82	16.000	2.35	22.08	0.94
3.917	1.02	10.000	2.82	16.083	2.35	22.17	0.94
4.000	1.02	10.083	2.82	16.167	2.35	22.25	0.94
4.083	1.02	10.167	2.82	16.250	1.41	22.33	0.94
4.167	1.02	10.250	3.60	16.333	1.41	22.42	0.94
4.250	1.25	10.333	3.60	16.417	1.41	22.50	0.94
4.333	1.25	10.417	3.60	16.500	1.41	22.58	0.94
4.417	1.25	10.500	3.60	16.583	1.41	22.67	0.94
4.500	1.25	10.583	3.60	16.667	1.41	22.75	0.94
4.583	1.25	10.667	3.60	16.750	1.41	22.83	0.94
4.667	1.25	10.750	4.86	16.833	1.41	22.92	0.94
4.750	1.25	10.833	4.86	16.917	1.41	23.00	0.94
4.833	1.25	10.917	4.86	17.000	1.41	23.08	0.94
4.917	1.25	11.000	4.86	17.083	1.41	23.17	0.94
5.000	1.25	11.083	4.86	17.167	1.41	23.25	0.94
5.083	1.25	11.167	4.86	17.250	1.41	23.33	0.94
5.167	1.25	11.250	7.52	17.333	1.41	23.42	0.94
5.250	1.25	11.333	7.52	17.417	1.41	23.50	0.94
5.333	1.25	11.417	7.52	17.500	1.41	23.58	0.94
5.417	1.25	11.500	7.52	17.583	1.41	23.67	0.94
5.500	1.25	11.583	7.52	17.667	1.41	23.75	0.94
5.583	1.25	11.667	7.52	17.750	1.41	23.83	0.94
5.667	1.25	11.750	23.19	17.833	1.41	23.92	0.94
5.750	1.25	11.833	23.19	17.917	1.41	24.00	0.94
5.833	1.25	11.917	59.53	18.000	1.41	24.08	0.94
5.917	1.25	12.000	59.54	18.083	1.41	24.17	0.94
6.000	1.25	12.083	95.88	18.167	1.41		
6.083	1.25	12.167	95.89	18.250	1.41		

Unit Hyd Qpeak (cms)= 0.027

PEAK FLOW (cms)= 0.003 (i)
 TIME TO PEAK (hrs)= 12.417
 RUNOFF VOLUME (mm)= 7.675
 TOTAL RAINFALL (mm)= 78.340
 RUNOFF COEFFICIENT = 0.098

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0009) | Area (ha)= 1.11 Curve Number (CN)= 62.0
 | ID= 1 DT= 5.0 min | Ia (mm)= 7.00 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.34

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.25	12.250	11.29	18.33	1.41
0.167	0.00	6.250	1.41	12.333	11.28	18.42	1.41
0.250	0.86	6.333	1.41	12.417	11.28	18.50	1.41
0.333	0.86	6.417	1.41	12.500	11.28	18.58	1.41
0.417	0.86	6.500	1.41	12.583	11.28	18.67	1.41
0.500	0.86	6.583	1.41	12.667	11.28	18.75	1.41
0.583	0.86	6.667	1.41	12.750	5.80	18.83	1.41
0.667	0.86	6.750	1.41	12.833	5.80	18.92	1.41
0.750	0.86	6.833	1.41	12.917	5.80	19.00	1.41
0.833	0.86	6.917	1.41	13.000	5.80	19.08	1.41
0.917	0.86	7.000	1.41	13.083	5.80	19.17	1.41
1.000	0.86	7.083	1.41	13.167	5.80	19.25	1.41
1.083	0.86	7.167	1.41	13.250	4.23	19.33	1.41
1.167	0.86	7.250	1.72	13.333	4.23	19.42	1.41
1.250	0.86	7.333	1.72	13.417	4.23	19.50	1.41
1.333	0.86	7.417	1.72	13.500	4.23	19.58	1.41
1.417	0.86	7.500	1.72	13.583	4.23	19.67	1.41
1.500	0.86	7.583	1.72	13.667	4.23	19.75	1.41
1.583	0.86	7.667	1.72	13.750	3.29	19.83	1.41
1.667	0.86	7.750	1.72	13.833	3.29	19.92	1.41
1.750	0.86	7.833	1.72	13.917	3.29	20.00	1.41
1.833	0.86	7.917	1.72	14.000	3.29	20.08	1.41
1.917	0.86	8.000	1.72	14.083	3.29	20.17	1.41
2.000	0.86	8.083	1.72	14.167	3.29	20.25	0.94
2.083	0.86	8.167	1.72	14.250	2.35	20.33	0.94
2.167	0.86	8.250	2.04	14.333	2.35	20.42	0.94
2.250	1.02	8.333	2.04	14.417	2.35	20.50	0.94
2.333	1.02	8.417	2.04	14.500	2.35	20.58	0.94
2.417	1.02	8.500	2.04	14.583	2.35	20.67	0.94
2.500	1.02	8.583	2.04	14.667	2.35	20.75	0.94
2.583	1.02	8.667	2.04	14.750	2.35	20.83	0.94
2.667	1.02	8.750	2.19	14.833	2.35	20.92	0.94
2.750	1.02	8.833	2.19	14.917	2.35	21.00	0.94
2.833	1.02	8.917	2.19	15.000	2.35	21.08	0.94
2.917	1.02	9.000	2.19	15.083	2.35	21.17	0.94
3.000	1.02	9.083	2.19	15.167	2.35	21.25	0.94
3.083	1.02	9.167	2.19	15.250	2.35	21.33	0.94
3.167	1.02	9.250	2.51	15.333	2.35	21.42	0.94
3.250	1.02	9.333	2.51	15.417	2.35	21.50	0.94
3.333	1.02	9.417	2.51	15.500	2.35	21.58	0.94
3.417	1.02	9.500	2.51	15.583	2.35	21.67	0.94
3.500	1.02	9.583	2.51	15.667	2.35	21.75	0.94
3.583	1.02	9.667	2.51	15.750	2.35	21.83	0.94
3.667	1.02	9.750	2.82	15.833	2.35	21.92	0.94
3.750	1.02	9.833	2.82	15.917	2.35	22.00	0.94
3.833	1.02	9.917	2.82	16.000	2.35	22.08	0.94
3.917	1.02	10.000	2.82	16.083	2.35	22.17	0.94
4.000	1.02	10.083	2.82	16.167	2.35	22.25	0.94
4.083	1.02	10.167	2.82	16.250	1.41	22.33	0.94
4.167	1.02	10.250	3.60	16.333	1.41	22.42	0.94
4.250	1.25	10.333	3.60	16.417	1.41	22.50	0.94

4.333	1.25	10.417	3.60	16.500	1.41	22.58	0.94
4.417	1.25	10.500	3.60	16.583	1.41	22.67	0.94
4.500	1.25	10.583	3.60	16.667	1.41	22.75	0.94
4.583	1.25	10.667	3.60	16.750	1.41	22.83	0.94
4.667	1.25	10.750	4.86	16.833	1.41	22.92	0.94
4.750	1.25	10.833	4.86	16.917	1.41	23.00	0.94
4.833	1.25	10.917	4.86	17.000	1.41	23.08	0.94
4.917	1.25	11.000	4.86	17.083	1.41	23.17	0.94
5.000	1.25	11.083	4.86	17.167	1.41	23.25	0.94
5.083	1.25	11.167	4.86	17.250	1.41	23.33	0.94
5.167	1.25	11.250	7.52	17.333	1.41	23.42	0.94
5.250	1.25	11.333	7.52	17.417	1.41	23.50	0.94
5.333	1.25	11.417	7.52	17.500	1.41	23.58	0.94
5.417	1.25	11.500	7.52	17.583	1.41	23.67	0.94
5.500	1.25	11.583	7.52	17.667	1.41	23.75	0.94
5.583	1.25	11.667	7.52	17.750	1.41	23.83	0.94
5.667	1.25	11.750	23.19	17.833	1.41	23.92	0.94
5.750	1.25	11.833	23.19	17.917	1.41	24.00	0.94
5.833	1.25	11.917	59.53	18.000	1.41	24.08	0.94
5.917	1.25	12.000	59.54	18.083	1.41	24.17	0.94
6.000	1.25	12.083	95.88	18.167	1.41		
6.083	1.25	12.167	95.89	18.250	1.41		

Unit Hyd Qpeak (cms)= 0.125

PEAK FLOW (cms)= 0.042 (i)

TIME TO PEAK (hrs)= 12.417

RUNOFF VOLUME (mm)= 22.412

TOTAL RAINFALL (mm)= 78.340

RUNOFF COEFFICIENT = 0.286

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0010) | Area (ha)= 0.87 Curve Number (CN)= 32.0
 | ID= 1 DT= 5.0 min | Ia (mm)= 10.00 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.24

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.25	12.250	11.29	18.33	1.41
0.167	0.00	6.250	1.41	12.333	11.28	18.42	1.41
0.250	0.86	6.333	1.41	12.417	11.28	18.50	1.41
0.333	0.86	6.417	1.41	12.500	11.28	18.58	1.41
0.417	0.86	6.500	1.41	12.583	11.28	18.67	1.41
0.500	0.86	6.583	1.41	12.667	11.28	18.75	1.41
0.583	0.86	6.667	1.41	12.750	5.80	18.83	1.41
0.667	0.86	6.750	1.41	12.833	5.80	18.92	1.41
0.750	0.86	6.833	1.41	12.917	5.80	19.00	1.41
0.833	0.86	6.917	1.41	13.000	5.80	19.08	1.41
0.917	0.86	7.000	1.41	13.083	5.80	19.17	1.41
1.000	0.86	7.083	1.41	13.167	5.80	19.25	1.41
1.083	0.86	7.167	1.41	13.250	4.23	19.33	1.41
1.167	0.86	7.250	1.72	13.333	4.23	19.42	1.41
1.250	0.86	7.333	1.72	13.417	4.23	19.50	1.41
1.333	0.86	7.417	1.72	13.500	4.23	19.58	1.41
1.417	0.86	7.500	1.72	13.583	4.23	19.67	1.41
1.500	0.86	7.583	1.72	13.667	4.23	19.75	1.41
1.583	0.86	7.667	1.72	13.750	3.29	19.83	1.41
1.667	0.86	7.750	1.72	13.833	3.29	19.92	1.41
1.750	0.86	7.833	1.72	13.917	3.29	20.00	1.41
1.833	0.86	7.917	1.72	14.000	3.29	20.08	1.41
1.917	0.86	8.000	1.72	14.083	3.29	20.17	1.41
2.000	0.86	8.083	1.72	14.167	3.29	20.25	0.94
2.083	0.86	8.167	1.72	14.250	2.35	20.33	0.94
2.167	0.86	8.250	2.04	14.333	2.35	20.42	0.94
2.250	1.02	8.333	2.04	14.417	2.35	20.50	0.94

2.333	1.02	8.417	2.04	14.500	2.35	20.58	0.94
2.417	1.02	8.500	2.04	14.583	2.35	20.67	0.94
2.500	1.02	8.583	2.04	14.667	2.35	20.75	0.94
2.583	1.02	8.667	2.04	14.750	2.35	20.83	0.94
2.667	1.02	8.750	2.19	14.833	2.35	20.92	0.94
2.750	1.02	8.833	2.19	14.917	2.35	21.00	0.94
2.833	1.02	8.917	2.19	15.000	2.35	21.08	0.94
2.917	1.02	9.000	2.19	15.083	2.35	21.17	0.94
3.000	1.02	9.083	2.19	15.167	2.35	21.25	0.94
3.083	1.02	9.167	2.19	15.250	2.35	21.33	0.94
3.167	1.02	9.250	2.51	15.333	2.35	21.42	0.94
3.250	1.02	9.333	2.51	15.417	2.35	21.50	0.94
3.333	1.02	9.417	2.51	15.500	2.35	21.58	0.94
3.417	1.02	9.500	2.51	15.583	2.35	21.67	0.94
3.500	1.02	9.583	2.51	15.667	2.35	21.75	0.94
3.583	1.02	9.667	2.51	15.750	2.35	21.83	0.94
3.667	1.02	9.750	2.82	15.833	2.35	21.92	0.94
3.750	1.02	9.833	2.82	15.917	2.35	22.00	0.94
3.833	1.02	9.917	2.82	16.000	2.35	22.08	0.94
3.917	1.02	10.000	2.82	16.083	2.35	22.17	0.94
4.000	1.02	10.083	2.82	16.167	2.35	22.25	0.94
4.083	1.02	10.167	2.82	16.250	1.41	22.33	0.94
4.167	1.02	10.250	3.60	16.333	1.41	22.42	0.94
4.250	1.25	10.333	3.60	16.417	1.41	22.50	0.94
4.333	1.25	10.417	3.60	16.500	1.41	22.58	0.94
4.417	1.25	10.500	3.60	16.583	1.41	22.67	0.94
4.500	1.25	10.583	3.60	16.667	1.41	22.75	0.94
4.583	1.25	10.667	3.60	16.750	1.41	22.83	0.94
4.667	1.25	10.750	4.86	16.833	1.41	22.92	0.94
4.750	1.25	10.833	4.86	16.917	1.41	23.00	0.94
4.833	1.25	10.917	4.86	17.000	1.41	23.08	0.94
4.917	1.25	11.000	4.86	17.083	1.41	23.17	0.94
5.000	1.25	11.083	4.86	17.167	1.41	23.25	0.94
5.083	1.25	11.167	4.86	17.250	1.41	23.33	0.94
5.167	1.25	11.250	7.52	17.333	1.41	23.42	0.94
5.250	1.25	11.333	7.52	17.417	1.41	23.50	0.94
5.333	1.25	11.417	7.52	17.500	1.41	23.58	0.94
5.417	1.25	11.500	7.52	17.583	1.41	23.67	0.94
5.500	1.25	11.583	7.52	17.667	1.41	23.75	0.94
5.583	1.25	11.667	7.52	17.750	1.41	23.83	0.94
5.667	1.25	11.750	23.19	17.833	1.41	23.92	0.94
5.750	1.25	11.833	23.19	17.917	1.41	24.00	0.94
5.833	1.25	11.917	59.53	18.000	1.41	24.08	0.94
5.917	1.25	12.000	59.54	18.083	1.41	24.17	0.94
6.000	1.25	12.083	95.88	18.167	1.41		
6.083	1.25	12.167	95.89	18.250	1.41		

Unit Hyd Qpeak (cms)= 0.138

PEAK FLOW (cms)= 0.013 (i)

TIME TO PEAK (hrs)= 12.250

RUNOFF VOLUME (mm)= 7.673

TOTAL RAINFALL (mm)= 78.340

RUNOFF COEFFICIENT = 0.098

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0011) | Area (ha)= 3.37 Curve Number (CN)= 31.2
 | ID= 1 DT= 5.0 min | Ia (mm)= 7.52 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.21

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.25	12.250	11.29	18.33	1.41
0.167	0.00	6.250	1.41	12.333	11.28	18.42	1.41
0.250	0.86	6.333	1.41	12.417	11.28	18.50	1.41

0.333	0.86	6.417	1.41	12.500	11.28	18.58	1.41
0.417	0.86	6.500	1.41	12.583	11.28	18.67	1.41
0.500	0.86	6.583	1.41	12.667	11.28	18.75	1.41
0.583	0.86	6.667	1.41	12.750	5.80	18.83	1.41
0.667	0.86	6.750	1.41	12.833	5.80	18.92	1.41
0.750	0.86	6.833	1.41	12.917	5.80	19.00	1.41
0.833	0.86	6.917	1.41	13.000	5.80	19.08	1.41
0.917	0.86	7.000	1.41	13.083	5.80	19.17	1.41
1.000	0.86	7.083	1.41	13.167	5.80	19.25	1.41
1.083	0.86	7.167	1.41	13.250	4.23	19.33	1.41
1.167	0.86	7.250	1.72	13.333	4.23	19.42	1.41
1.250	0.86	7.333	1.72	13.417	4.23	19.50	1.41
1.333	0.86	7.417	1.72	13.500	4.23	19.58	1.41
1.417	0.86	7.500	1.72	13.583	4.23	19.67	1.41
1.500	0.86	7.583	1.72	13.667	4.23	19.75	1.41
1.583	0.86	7.667	1.72	13.750	3.29	19.83	1.41
1.667	0.86	7.750	1.72	13.833	3.29	19.92	1.41
1.750	0.86	7.833	1.72	13.917	3.29	20.00	1.41
1.833	0.86	7.917	1.72	14.000	3.29	20.08	1.41
1.917	0.86	8.000	1.72	14.083	3.29	20.17	1.41
2.000	0.86	8.083	1.72	14.167	3.29	20.25	0.94
2.083	0.86	8.167	1.72	14.250	2.35	20.33	0.94
2.167	0.86	8.250	2.04	14.333	2.35	20.42	0.94
2.250	1.02	8.333	2.04	14.417	2.35	20.50	0.94
2.333	1.02	8.417	2.04	14.500	2.35	20.58	0.94
2.417	1.02	8.500	2.04	14.583	2.35	20.67	0.94
2.500	1.02	8.583	2.04	14.667	2.35	20.75	0.94
2.583	1.02	8.667	2.04	14.750	2.35	20.83	0.94
2.667	1.02	8.750	2.19	14.833	2.35	20.92	0.94
2.750	1.02	8.833	2.19	14.917	2.35	21.00	0.94
2.833	1.02	8.917	2.19	15.000	2.35	21.08	0.94
2.917	1.02	9.000	2.19	15.083	2.35	21.17	0.94
3.000	1.02	9.083	2.19	15.167	2.35	21.25	0.94
3.083	1.02	9.167	2.19	15.250	2.35	21.33	0.94
3.167	1.02	9.250	2.51	15.333	2.35	21.42	0.94
3.250	1.02	9.333	2.51	15.417	2.35	21.50	0.94
3.333	1.02	9.417	2.51	15.500	2.35	21.58	0.94
3.417	1.02	9.500	2.51	15.583	2.35	21.67	0.94
3.500	1.02	9.583	2.51	15.667	2.35	21.75	0.94
3.583	1.02	9.667	2.51	15.750	2.35	21.83	0.94
3.667	1.02	9.750	2.82	15.833	2.35	21.92	0.94
3.750	1.02	9.833	2.82	15.917	2.35	22.00	0.94
3.833	1.02	9.917	2.82	16.000	2.35	22.08	0.94
3.917	1.02	10.000	2.82	16.083	2.35	22.17	0.94
4.000	1.02	10.083	2.82	16.167	2.35	22.25	0.94
4.083	1.02	10.167	2.82	16.250	1.41	22.33	0.94
4.167	1.02	10.250	3.60	16.333	1.41	22.42	0.94
4.250	1.25	10.333	3.60	16.417	1.41	22.50	0.94
4.333	1.25	10.417	3.60	16.500	1.41	22.58	0.94
4.417	1.25	10.500	3.60	16.583	1.41	22.67	0.94
4.500	1.25	10.583	3.60	16.667	1.41	22.75	0.94
4.583	1.25	10.667	3.60	16.750	1.41	22.83	0.94
4.667	1.25	10.750	4.86	16.833	1.41	22.92	0.94
4.750	1.25	10.833	4.86	16.917	1.41	23.00	0.94
4.833	1.25	10.917	4.86	17.000	1.41	23.08	0.94
4.917	1.25	11.000	4.86	17.083	1.41	23.17	0.94
5.000	1.25	11.083	4.86	17.167	1.41	23.25	0.94
5.083	1.25	11.167	4.86	17.250	1.41	23.33	0.94
5.167	1.25	11.250	7.52	17.333	1.41	23.42	0.94
5.250	1.25	11.333	7.52	17.417	1.41	23.50	0.94
5.333	1.25	11.417	7.52	17.500	1.41	23.58	0.94
5.417	1.25	11.500	7.52	17.583	1.41	23.67	0.94
5.500	1.25	11.583	7.52	17.667	1.41	23.75	0.94
5.583	1.25	11.667	7.52	17.750	1.41	23.83	0.94
5.667	1.25	11.750	23.19	17.833	1.41	23.92	0.94
5.750	1.25	11.833	23.19	17.917	1.41	24.00	0.94
5.833	1.25	11.917	59.53	18.000	1.41	24.08	0.94
5.917	1.25	12.000	59.54	18.083	1.41	24.17	0.94
6.000	1.25	12.083	95.88	18.167	1.41		
6.083	1.25	12.167	95.89	18.250	1.41		

Unit Hyd Qpeak (cms)= 0.613

PEAK FLOW (cms)= 0.060 (i)
TIME TO PEAK (hrs)= 12.250
RUNOFF VOLUME (mm)= 7.937
TOTAL RAINFALL (mm)= 78.340
RUNOFF COEFFICIENT = 0.101

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| ADD HYD (0017)|
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 1 (0010): 0.87 0.013 12.25 7.67
+ ID2= 2 (0011): 3.37 0.060 12.25 7.94
=====

ID = 3 (0017): 4.24 0.073 12.25 7.88

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0017)|
| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 3 (0017): 4.24 0.073 12.25 7.88
+ ID2= 2 (0009): 1.11 0.042 12.42 22.41
=====

ID = 1 (0017): 5.35 0.111 12.25 10.90

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| CALIB |
| NASHYD (0012)| Area (ha)= 1.60 Curve Number (CN)= 49.7
| ID= 1 DT= 5.0 min | Ia (mm)= 8.23 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.24

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.25	12.250	11.29	18.33	1.41
0.167	0.00	6.250	1.41	12.333	11.28	18.42	1.41
0.250	0.86	6.333	1.41	12.417	11.28	18.50	1.41
0.333	0.86	6.417	1.41	12.500	11.28	18.58	1.41
0.417	0.86	6.500	1.41	12.583	11.28	18.67	1.41
0.500	0.86	6.583	1.41	12.667	11.28	18.75	1.41
0.583	0.86	6.667	1.41	12.750	5.80	18.83	1.41
0.667	0.86	6.750	1.41	12.833	5.80	18.92	1.41
0.750	0.86	6.833	1.41	12.917	5.80	19.00	1.41
0.833	0.86	6.917	1.41	13.000	5.80	19.08	1.41
0.917	0.86	7.000	1.41	13.083	5.80	19.17	1.41
1.000	0.86	7.083	1.41	13.167	5.80	19.25	1.41
1.083	0.86	7.167	1.41	13.250	4.23	19.33	1.41
1.167	0.86	7.250	1.72	13.333	4.23	19.42	1.41
1.250	0.86	7.333	1.72	13.417	4.23	19.50	1.41
1.333	0.86	7.417	1.72	13.500	4.23	19.58	1.41
1.417	0.86	7.500	1.72	13.583	4.23	19.67	1.41
1.500	0.86	7.583	1.72	13.667	4.23	19.75	1.41
1.583	0.86	7.667	1.72	13.750	3.29	19.83	1.41
1.667	0.86	7.750	1.72	13.833	3.29	19.92	1.41
1.750	0.86	7.833	1.72	13.917	3.29	20.00	1.41
1.833	0.86	7.917	1.72	14.000	3.29	20.08	1.41
1.917	0.86	8.000	1.72	14.083	3.29	20.17	1.41
2.000	0.86	8.083	1.72	14.167	3.29	20.25	0.94
2.083	0.86	8.167	1.72	14.250	2.35	20.33	0.94
2.167	0.86	8.250	2.04	14.333	2.35	20.42	0.94
2.250	1.02	8.333	2.04	14.417	2.35	20.50	0.94
2.333	1.02	8.417	2.04	14.500	2.35	20.58	0.94

2.417	1.02	8.500	2.04	14.583	2.35	20.67	0.94
2.500	1.02	8.583	2.04	14.667	2.35	20.75	0.94
2.583	1.02	8.667	2.04	14.750	2.35	20.83	0.94
2.667	1.02	8.750	2.19	14.833	2.35	20.92	0.94
2.750	1.02	8.833	2.19	14.917	2.35	21.00	0.94
2.833	1.02	8.917	2.19	15.000	2.35	21.08	0.94
2.917	1.02	9.000	2.19	15.083	2.35	21.17	0.94
3.000	1.02	9.083	2.19	15.167	2.35	21.25	0.94
3.083	1.02	9.167	2.19	15.250	2.35	21.33	0.94
3.167	1.02	9.250	2.51	15.333	2.35	21.42	0.94
3.250	1.02	9.333	2.51	15.417	2.35	21.50	0.94
3.333	1.02	9.417	2.51	15.500	2.35	21.58	0.94
3.417	1.02	9.500	2.51	15.583	2.35	21.67	0.94
3.500	1.02	9.583	2.51	15.667	2.35	21.75	0.94
3.583	1.02	9.667	2.51	15.750	2.35	21.83	0.94
3.667	1.02	9.750	2.82	15.833	2.35	21.92	0.94
3.750	1.02	9.833	2.82	15.917	2.35	22.00	0.94
3.833	1.02	9.917	2.82	16.000	2.35	22.08	0.94
3.917	1.02	10.000	2.82	16.083	2.35	22.17	0.94
4.000	1.02	10.083	2.82	16.167	2.35	22.25	0.94
4.083	1.02	10.167	2.82	16.250	1.41	22.33	0.94
4.167	1.02	10.250	3.60	16.333	1.41	22.42	0.94
4.250	1.25	10.333	3.60	16.417	1.41	22.50	0.94
4.333	1.25	10.417	3.60	16.500	1.41	22.58	0.94
4.417	1.25	10.500	3.60	16.583	1.41	22.67	0.94
4.500	1.25	10.583	3.60	16.667	1.41	22.75	0.94
4.583	1.25	10.667	3.60	16.750	1.41	22.83	0.94
4.667	1.25	10.750	4.86	16.833	1.41	22.92	0.94
4.750	1.25	10.833	4.86	16.917	1.41	23.00	0.94
4.833	1.25	10.917	4.86	17.000	1.41	23.08	0.94
4.917	1.25	11.000	4.86	17.083	1.41	23.17	0.94
5.000	1.25	11.083	4.86	17.167	1.41	23.25	0.94
5.083	1.25	11.167	4.86	17.250	1.41	23.33	0.94
5.167	1.25	11.250	7.52	17.333	1.41	23.42	0.94
5.250	1.25	11.333	7.52	17.417	1.41	23.50	0.94
5.333	1.25	11.417	7.52	17.500	1.41	23.58	0.94
5.417	1.25	11.500	7.52	17.583	1.41	23.67	0.94
5.500	1.25	11.583	7.52	17.667	1.41	23.75	0.94
5.583	1.25	11.667	7.52	17.750	1.41	23.83	0.94
5.667	1.25	11.750	23.19	17.833	1.41	23.92	0.94
5.750	1.25	11.833	23.19	17.917	1.41	24.00	0.94
5.833	1.25	11.917	59.53	18.000	1.41	24.08	0.94
5.917	1.25	12.000	59.54	18.083	1.41	24.17	0.94
6.000	1.25	12.083	95.88	18.167	1.41		
6.083	1.25	12.167	95.89	18.250	1.41		

Unit Hyd Qpeak (cms)= 0.255

PEAK FLOW (cms)= 0.050 (i)

TIME TO PEAK (hrs)= 12.250

RUNOFF VOLUME (mm)= 15.009

TOTAL RAINFALL (mm)= 78.340

RUNOFF COEFFICIENT = 0.192

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0013) | Area (ha)= 12.11 Curve Number (CN)= 48.1
| ID= 1 DT= 5.0 min | Ia (mm)= 11.30 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.55

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.25	12.250	11.29	18.33	1.41
0.167	0.00	6.250	1.41	12.333	11.28	18.42	1.41
0.250	0.86	6.333	1.41	12.417	11.28	18.50	1.41
0.333	0.86	6.417	1.41	12.500	11.28	18.58	1.41

0.417	0.86	6.500	1.41	12.583	11.28	18.67	1.41
0.500	0.86	6.583	1.41	12.667	11.28	18.75	1.41
0.583	0.86	6.667	1.41	12.750	5.80	18.83	1.41
0.667	0.86	6.750	1.41	12.833	5.80	18.92	1.41
0.750	0.86	6.833	1.41	12.917	5.80	19.00	1.41
0.833	0.86	6.917	1.41	13.000	5.80	19.08	1.41
0.917	0.86	7.000	1.41	13.083	5.80	19.17	1.41
1.000	0.86	7.083	1.41	13.167	5.80	19.25	1.41
1.083	0.86	7.167	1.41	13.250	4.23	19.33	1.41
1.167	0.86	7.250	1.72	13.333	4.23	19.42	1.41
1.250	0.86	7.333	1.72	13.417	4.23	19.50	1.41
1.333	0.86	7.417	1.72	13.500	4.23	19.58	1.41
1.417	0.86	7.500	1.72	13.583	4.23	19.67	1.41
1.500	0.86	7.583	1.72	13.667	4.23	19.75	1.41
1.583	0.86	7.667	1.72	13.750	3.29	19.83	1.41
1.667	0.86	7.750	1.72	13.833	3.29	19.92	1.41
1.750	0.86	7.833	1.72	13.917	3.29	20.00	1.41
1.833	0.86	7.917	1.72	14.000	3.29	20.08	1.41
1.917	0.86	8.000	1.72	14.083	3.29	20.17	1.41
2.000	0.86	8.083	1.72	14.167	3.29	20.25	0.94
2.083	0.86	8.167	1.72	14.250	2.35	20.33	0.94
2.167	0.86	8.250	2.04	14.333	2.35	20.42	0.94
2.250	1.02	8.333	2.04	14.417	2.35	20.50	0.94
2.333	1.02	8.417	2.04	14.500	2.35	20.58	0.94
2.417	1.02	8.500	2.04	14.583	2.35	20.67	0.94
2.500	1.02	8.583	2.04	14.667	2.35	20.75	0.94
2.583	1.02	8.667	2.04	14.750	2.35	20.83	0.94
2.667	1.02	8.750	2.19	14.833	2.35	20.92	0.94
2.750	1.02	8.833	2.19	14.917	2.35	21.00	0.94
2.833	1.02	8.917	2.19	15.000	2.35	21.08	0.94
2.917	1.02	9.000	2.19	15.083	2.35	21.17	0.94
3.000	1.02	9.083	2.19	15.167	2.35	21.25	0.94
3.083	1.02	9.167	2.19	15.250	2.35	21.33	0.94
3.167	1.02	9.250	2.51	15.333	2.35	21.42	0.94
3.250	1.02	9.333	2.51	15.417	2.35	21.50	0.94
3.333	1.02	9.417	2.51	15.500	2.35	21.58	0.94
3.417	1.02	9.500	2.51	15.583	2.35	21.67	0.94
3.500	1.02	9.583	2.51	15.667	2.35	21.75	0.94
3.583	1.02	9.667	2.51	15.750	2.35	21.83	0.94
3.667	1.02	9.750	2.82	15.833	2.35	21.92	0.94
3.750	1.02	9.833	2.82	15.917	2.35	22.00	0.94
3.833	1.02	9.917	2.82	16.000	2.35	22.08	0.94
3.917	1.02	10.000	2.82	16.083	2.35	22.17	0.94
4.000	1.02	10.083	2.82	16.167	2.35	22.25	0.94
4.083	1.02	10.167	2.82	16.250	1.41	22.33	0.94
4.167	1.02	10.250	3.60	16.333	1.41	22.42	0.94
4.250	1.25	10.333	3.60	16.417	1.41	22.50	0.94
4.333	1.25	10.417	3.60	16.500	1.41	22.58	0.94
4.417	1.25	10.500	3.60	16.583	1.41	22.67	0.94
4.500	1.25	10.583	3.60	16.667	1.41	22.75	0.94
4.583	1.25	10.667	3.60	16.750	1.41	22.83	0.94
4.667	1.25	10.750	4.86	16.833	1.41	22.92	0.94
4.750	1.25	10.833	4.86	16.917	1.41	23.00	0.94
4.833	1.25	10.917	4.86	17.000	1.41	23.08	0.94
4.917	1.25	11.000	4.86	17.083	1.41	23.17	0.94
5.000	1.25	11.083	4.86	17.167	1.41	23.25	0.94
5.083	1.25	11.167	4.86	17.250	1.41	23.33	0.94
5.167	1.25	11.250	7.52	17.333	1.41	23.42	0.94
5.250	1.25	11.333	7.52	17.417	1.41	23.50	0.94
5.333	1.25	11.417	7.52	17.500	1.41	23.58	0.94
5.417	1.25	11.500	7.52	17.583	1.41	23.67	0.94
5.500	1.25	11.583	7.52	17.667	1.41	23.75	0.94
5.583	1.25	11.667	7.52	17.750	1.41	23.83	0.94
5.667	1.25	11.750	23.19	17.833	1.41	23.92	0.94
5.750	1.25	11.833	23.19	17.917	1.41	24.00	0.94
5.833	1.25	11.917	59.53	18.000	1.41	24.08	0.94
5.917	1.25	12.000	59.54	18.083	1.41	24.17	0.94
6.000	1.25	12.083	95.88	18.167	1.41		
6.083	1.25	12.167	95.89	18.250	1.41		

Unit Hyd Qpeak (cms)= 0.841

PEAK FLOW (cms)= 0.182 (i)

TIME TO PEAK (hrs)= 12.667
RUNOFF VOLUME (mm)= 13.175
TOTAL RAINFALL (mm)= 78.340
RUNOFF COEFFICIENT = 0.168

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0014) | Area (ha)= 14.45 Curve Number (CN)= 32.0
| ID= 1 DT= 5.0 min | la (mm)= 10.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.81

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	1.25	12.250	11.29	18.33	1.41
0.167	0.00	6.250	1.41	12.333	11.28	18.42	1.41
0.250	0.86	6.333	1.41	12.417	11.28	18.50	1.41
0.333	0.86	6.417	1.41	12.500	11.28	18.58	1.41
0.417	0.86	6.500	1.41	12.583	11.28	18.67	1.41
0.500	0.86	6.583	1.41	12.667	11.28	18.75	1.41
0.583	0.86	6.667	1.41	12.750	5.80	18.83	1.41
0.667	0.86	6.750	1.41	12.833	5.80	18.92	1.41
0.750	0.86	6.833	1.41	12.917	5.80	19.00	1.41
0.833	0.86	6.917	1.41	13.000	5.80	19.08	1.41
0.917	0.86	7.000	1.41	13.083	5.80	19.17	1.41
1.000	0.86	7.083	1.41	13.167	5.80	19.25	1.41
1.083	0.86	7.167	1.41	13.250	4.23	19.33	1.41
1.167	0.86	7.250	1.72	13.333	4.23	19.42	1.41
1.250	0.86	7.333	1.72	13.417	4.23	19.50	1.41
1.333	0.86	7.417	1.72	13.500	4.23	19.58	1.41
1.417	0.86	7.500	1.72	13.583	4.23	19.67	1.41
1.500	0.86	7.583	1.72	13.667	4.23	19.75	1.41
1.583	0.86	7.667	1.72	13.750	3.29	19.83	1.41
1.667	0.86	7.750	1.72	13.833	3.29	19.92	1.41
1.750	0.86	7.833	1.72	13.917	3.29	20.00	1.41
1.833	0.86	7.917	1.72	14.000	3.29	20.08	1.41
1.917	0.86	8.000	1.72	14.083	3.29	20.17	1.41
2.000	0.86	8.083	1.72	14.167	3.29	20.25	0.94
2.083	0.86	8.167	1.72	14.250	2.35	20.33	0.94
2.167	0.86	8.250	2.04	14.333	2.35	20.42	0.94
2.250	1.02	8.333	2.04	14.417	2.35	20.50	0.94
2.333	1.02	8.417	2.04	14.500	2.35	20.58	0.94
2.417	1.02	8.500	2.04	14.583	2.35	20.67	0.94
2.500	1.02	8.583	2.04	14.667	2.35	20.75	0.94
2.583	1.02	8.667	2.04	14.750	2.35	20.83	0.94
2.667	1.02	8.750	2.19	14.833	2.35	20.92	0.94
2.750	1.02	8.833	2.19	14.917	2.35	21.00	0.94
2.833	1.02	8.917	2.19	15.000	2.35	21.08	0.94
2.917	1.02	9.000	2.19	15.083	2.35	21.17	0.94
3.000	1.02	9.083	2.19	15.167	2.35	21.25	0.94
3.083	1.02	9.167	2.19	15.250	2.35	21.33	0.94
3.167	1.02	9.250	2.51	15.333	2.35	21.42	0.94
3.250	1.02	9.333	2.51	15.417	2.35	21.50	0.94
3.333	1.02	9.417	2.51	15.500	2.35	21.58	0.94
3.417	1.02	9.500	2.51	15.583	2.35	21.67	0.94
3.500	1.02	9.583	2.51	15.667	2.35	21.75	0.94
3.583	1.02	9.667	2.51	15.750	2.35	21.83	0.94
3.667	1.02	9.750	2.82	15.833	2.35	21.92	0.94
3.750	1.02	9.833	2.82	15.917	2.35	22.00	0.94
3.833	1.02	9.917	2.82	16.000	2.35	22.08	0.94
3.917	1.02	10.000	2.82	16.083	2.35	22.17	0.94
4.000	1.02	10.083	2.82	16.167	2.35	22.25	0.94
4.083	1.02	10.167	2.82	16.250	1.41	22.33	0.94
4.167	1.02	10.250	3.60	16.333	1.41	22.42	0.94
4.250	1.25	10.333	3.60	16.417	1.41	22.50	0.94
4.333	1.25	10.417	3.60	16.500	1.41	22.58	0.94
4.417	1.25	10.500	3.60	16.583	1.41	22.67	0.94

4.500	1.25	10.583	3.60	16.667	1.41	22.75	0.94
4.583	1.25	10.667	3.60	16.750	1.41	22.83	0.94
4.667	1.25	10.750	4.86	16.833	1.41	22.92	0.94
4.750	1.25	10.833	4.86	16.917	1.41	23.00	0.94
4.833	1.25	10.917	4.86	17.000	1.41	23.08	0.94
4.917	1.25	11.000	4.86	17.083	1.41	23.17	0.94
5.000	1.25	11.083	4.86	17.167	1.41	23.25	0.94
5.083	1.25	11.167	4.86	17.250	1.41	23.33	0.94
5.167	1.25	11.250	7.52	17.333	1.41	23.42	0.94
5.250	1.25	11.333	7.52	17.417	1.41	23.50	0.94
5.333	1.25	11.417	7.52	17.500	1.41	23.58	0.94
5.417	1.25	11.500	7.52	17.583	1.41	23.67	0.94
5.500	1.25	11.583	7.52	17.667	1.41	23.75	0.94
5.583	1.25	11.667	7.52	17.750	1.41	23.83	0.94
5.667	1.25	11.750	23.19	17.833	1.41	23.92	0.94
5.750	1.25	11.833	23.19	17.917	1.41	24.00	0.94
5.833	1.25	11.917	59.53	18.000	1.41	24.08	0.94
5.917	1.25	12.000	59.54	18.083	1.41	24.17	0.94
6.000	1.25	12.083	95.88	18.167	1.41		
6.083	1.25	12.167	95.89	18.250	1.41		

Unit Hyd Qpeak (cms)= 0.681

PEAK FLOW (cms)= 0.094 (i)

TIME TO PEAK (hrs)= 13.000

RUNOFF VOLUME (mm)= 7.680

TOTAL RAINFALL (mm)= 78.340

RUNOFF COEFFICIENT = 0.098

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

-----
|ADD HYD ( 0019)|
| 1 + 2 = 3 |   AREA  QPEAK  TPEAK  R.V.
-----      (ha) (cms) (hrs) (mm)
  ID1= 1 ( 0001):  2.64  0.025  12.75  9.17
+ ID2= 2 ( 0012):  1.60  0.050  12.25  15.01
=====
  ID = 3 ( 0019):  4.24  0.066  12.33  11.38

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
|ADD HYD ( 0019)|
| 3 + 2 = 1 |   AREA  QPEAK  TPEAK  R.V.
-----      (ha) (cms) (hrs) (mm)
  ID1= 3 ( 0019):  4.24  0.066  12.33  11.38
+ ID2= 2 ( 0013):  12.11  0.182  12.67  13.18
=====
  ID = 1 ( 0019):  16.35  0.234  12.58  12.71

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
|ADD HYD ( 0019)|
| 1 + 2 = 3 |   AREA  QPEAK  TPEAK  R.V.
-----      (ha) (cms) (hrs) (mm)
  ID1= 1 ( 0019):  16.35  0.234  12.58  12.71
+ ID2= 2 ( 0014):  14.45  0.094  13.00  7.68
=====
  ID = 3 ( 0019):  30.80  0.316  12.67  10.35

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
|ADD HYD ( 0019)|
| 3 + 2 = 1 |   AREA  QPEAK  TPEAK  R.V.
-----      (ha) (cms) (hrs) (mm)

```

ID1= 3 (0019): 30.80 0.316 12.67 10.35

+ ID2= 2 (0016): 3.21 0.057 12.25 12.10

=====

ID = 1 (0019): 34.01 0.357 12.67 10.51

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|

| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.

----- (ha) (cms) (hrs) (mm)

ID1= 1 (0019): 34.01 0.357 12.67 10.51

+ ID2= 2 (0017): 5.35 0.111 12.25 10.90

=====

ID = 3 (0019): 39.36 0.433 12.50 10.57

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|

| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.

----- (ha) (cms) (hrs) (mm)

ID1= 3 (0019): 39.36 0.433 12.50 10.57

+ ID2= 2 (0002): 1.25 0.027 12.25 10.04

=====

ID = 1 (0019): 40.61 0.454 12.42 10.55

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|

| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.

----- (ha) (cms) (hrs) (mm)

ID1= 1 (0019): 40.61 0.454 12.42 10.55

+ ID2= 2 (0005): 9.65 0.069 12.83 7.68

=====

ID = 3 (0019): 50.26 0.507 12.50 10.00

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|

| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.

----- (ha) (cms) (hrs) (mm)

ID1= 3 (0019): 50.26 0.507 12.50 10.00

+ ID2= 2 (0006): 1.82 0.024 12.33 7.68

=====

ID = 1 (0019): 52.08 0.529 12.50 9.92

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|

| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.

----- (ha) (cms) (hrs) (mm)

ID1= 1 (0019): 52.08 0.529 12.50 9.92

+ ID2= 2 (0007): 1.70 0.054 12.50 22.42

=====

ID = 3 (0019): 53.78 0.583 12.50 10.31

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0019)|

| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.

----- (ha) (cms) (hrs) (mm)

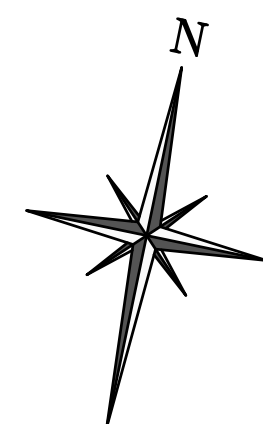
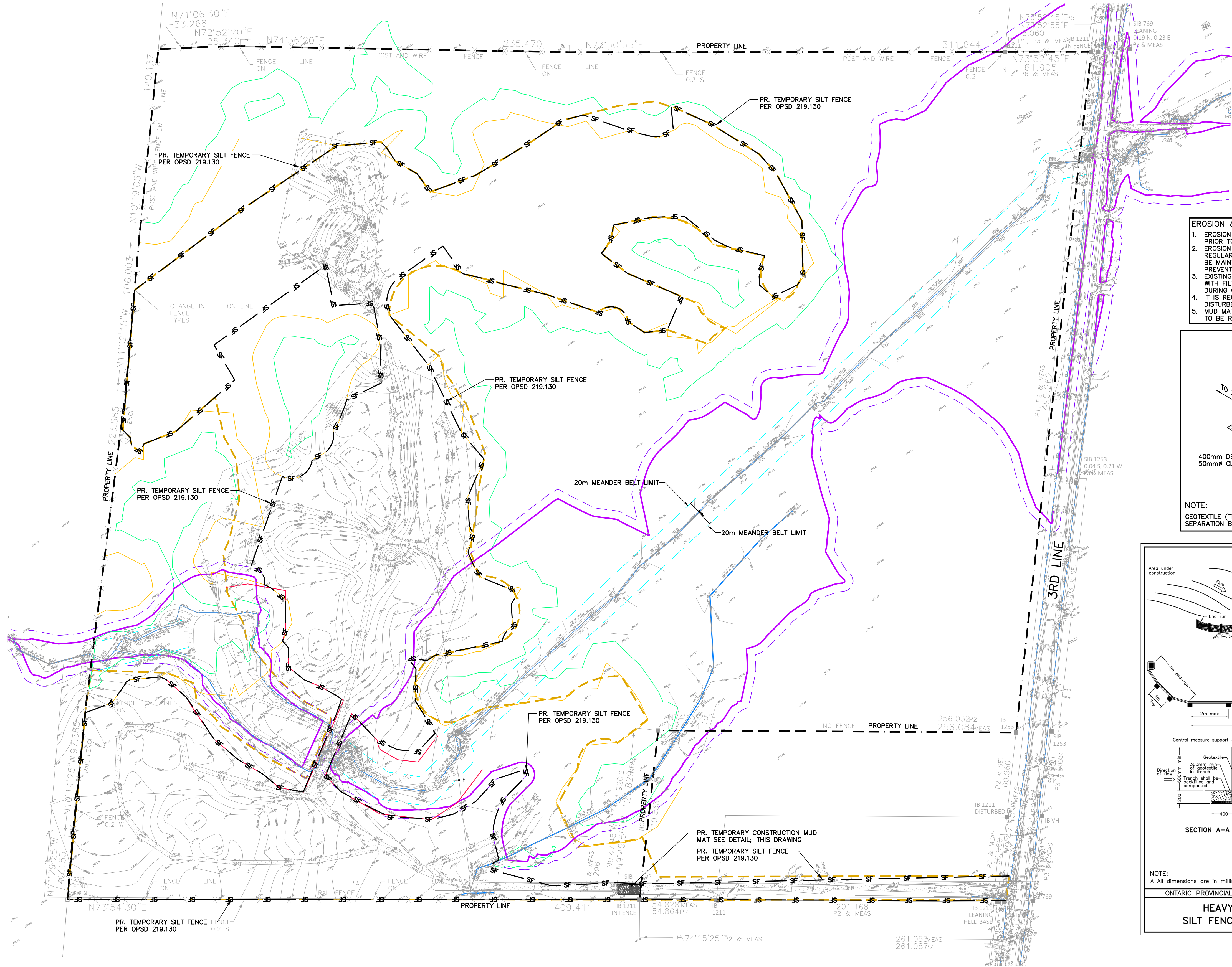
ID1= 3 (0019): 53.78 0.583 12.50 10.31

+ ID2= 2 (0008): 0.23 0.003 12.42 7.67
=====

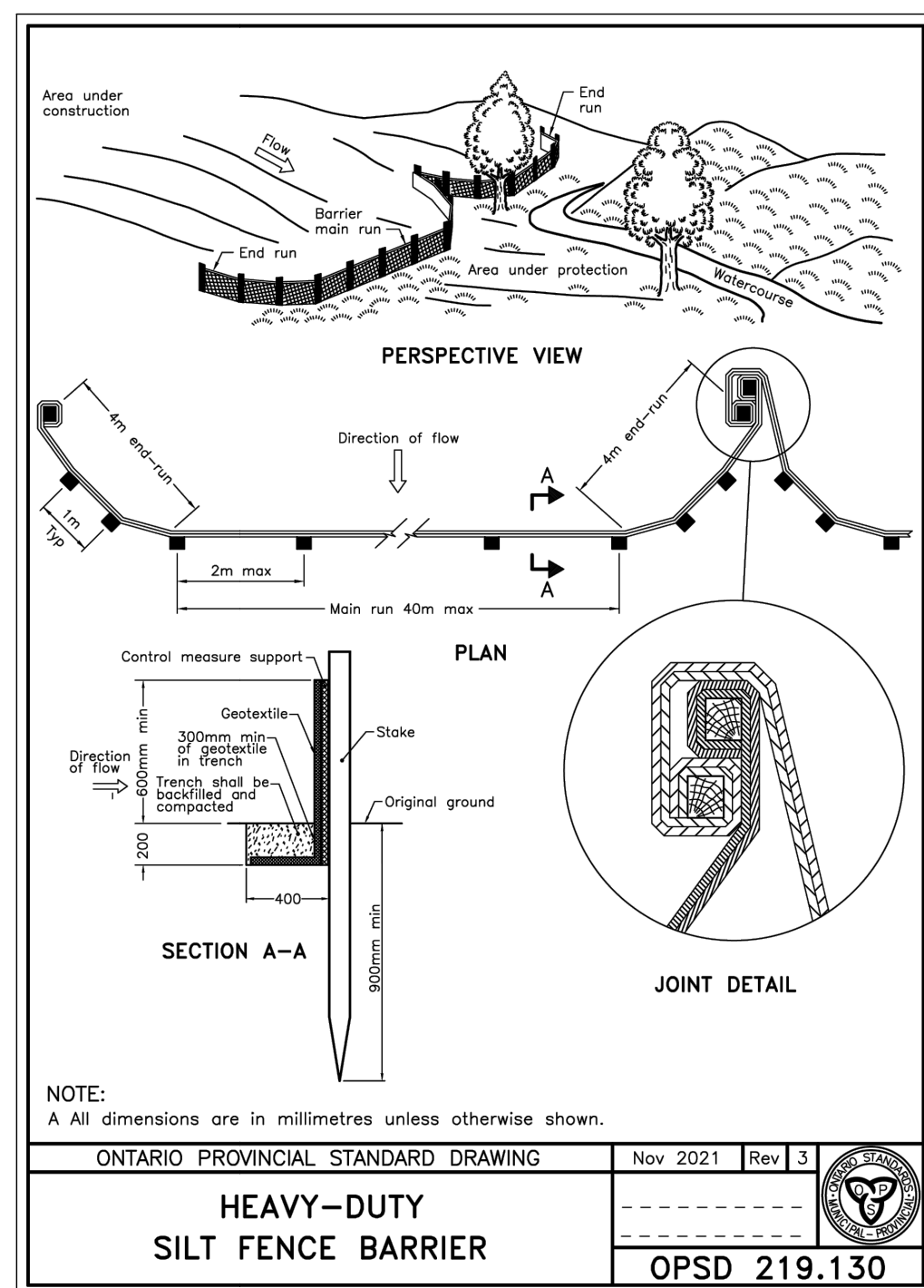
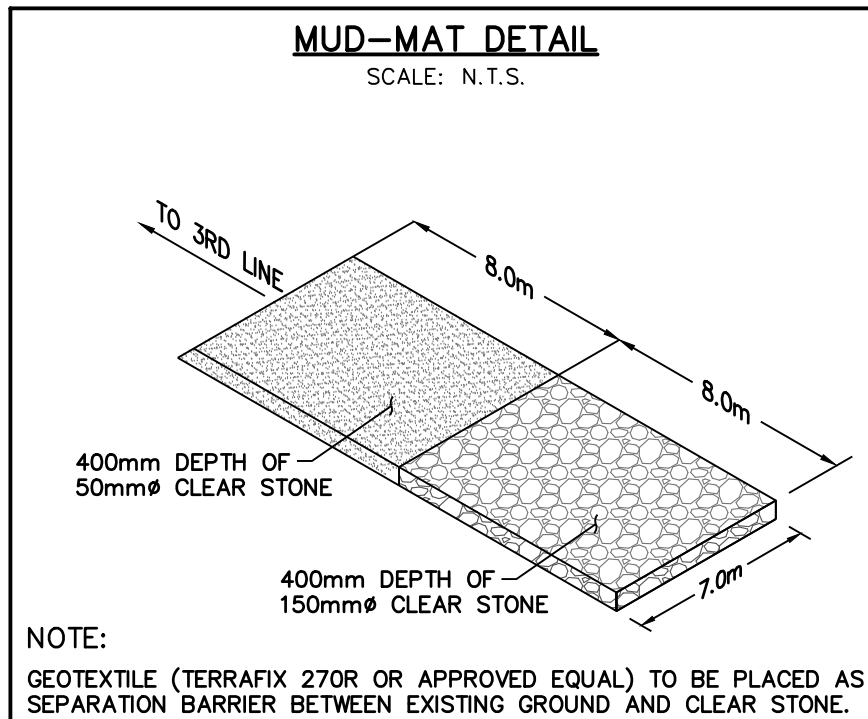
ID = 1 (0019): 54.01 0.586 12.50 10.30

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

DRAWINGS AND FIGURES



- EROSION & SEDIMENT CONTROL NOTES:**
1. EROSION & SEDIMENT CONTROL MEASURES MUST BE INSTALLED PRIOR TO THE COMMENCEMENT OF SITE WORKS.
 2. EROSION & SEDIMENT CONTROLS MUST BE INSPECTED ON A REGULAR BASIS AND AFTER EVERY RAIN FALL EVENT, AND MUST BE MAINTAINED AND REPAIRED IN A TIMELY MANNER TO PREVENT SEDIMENT FROM LEAVING THE SITE.
 3. EXISTING AND PROPOSED CATCHBASINS ARE TO BE PROTECTED WITH FILTER CLOTH AND 150mm OF 50mm STONE COVER DURING CONSTRUCTION.
 4. IT IS REQUIRED TO STABILIZE ALL AREAS THAT WILL REMAIN DISTURBED FOR MORE THAN 30 DAYS.
 5. MUD MAT, SILT FENCE, AND CATCHBASIN PROTECTION ARE NOT TO BE REMOVED UNTIL COMPLETION OF CONSTRUCTION.



- LEGEND**
- PROPERTY LINE
 - EXISTING CONTOUR (0.5m)
 - EXISTING CONTOUR (1.0m)
 - EXISTING DITCH
 - EXISTING HYDRO POLE
 - EXISTING FENCE
 - EXISTING GRADE
 - EXISTING OVERLAND FLOW DIRECTION
 - TEMPORARY MUD-MAT; SEE DETAIL
 - TEMPORARY SILT FENCE PER OPSD 219.130
 - EXISTING LIMIT OF DEVELOPMENT
 - EXISTING WETLAND LIMITS
 - WETLAND BUFFER
 - EXISTING REGIONAL FLOODLINE
 - REGIONAL FLOODLINE BUFFER
 - 20.0m MEANDER BELT LIMITS (GEOMORPHIX, 2025)

No.	ISSUE / REVISION	YYYY/MM/DD
1	ISSUED FOR 1st SUBMISSION (REVISED PER PLANNER)	2025/JUN/27
0	ISSUED FOR 1st SUBMISSION	2025/APR/25
A	ISSUED FOR COORDINATION	2025/APR/08

LOCAL BENCHMARK:
ELEVATIONS ARE BASED ON GPS OBSERVATIONS FROM PERMANENT REFERENCE STATIONS IN THE NAD83 (CSRS-2010) COORDINATE SYSTEM WITH HEIGHTS CONVERTED TO ORTHOMETRIC ELEVATIONS ON THE CGVD28 DATUM (1978 ADJUSTMENT) WITH GEOD MODEL HTv2.0, AS SUPPLIED BY NATURAL RESOURCES CANADA.
SITE TBM 1 - CUT CROSS IN CONCRETE CULVERT - ELEV. = 487.88m
SITE TBM 2 - NAIL IN HYDRO POLE - ELEV. = 485.10m

SURVEY NOTES:
SURVEY COMPLETED BY VAN HARTEN LAND SURVEYORS-ENGINEERS
PROJECT NUMBER 33316-24.

SITE PLAN NOTES:
DESIGN ELEMENTS ARE BASED ON CONCEPTUAL SITE PLAN BY GLEN SCHNARR AND ASSOCIATES INC.
DATED: MARCH 03, 2025

DRAWING NOTES:
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THIS DRAWING IS TO BE READ AND UNDERSTOOD IN CONJUNCTION WITH ALL OTHER PLANS AND DOCUMENTS APPLICABLE TO THIS PROJECT. DO NOT SCALE THIS DRAWING.
ALL EXISTING UNDERGROUND UTILITIES TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

Project
**CHIPWOODS PARK
MELANCTHON, ONTARIO**

Drawing
**EROSION AND SEDIMENT
CONTROL PLAN**

**CROZIER
CONSULTING ENGINEERS**

2800 HIGH POINT DRIVE
SUITE 100
MILTON, ON L9T 6P4
905-875-0026 T
905-875-4915 F
WWW.CFCROZIER.CA

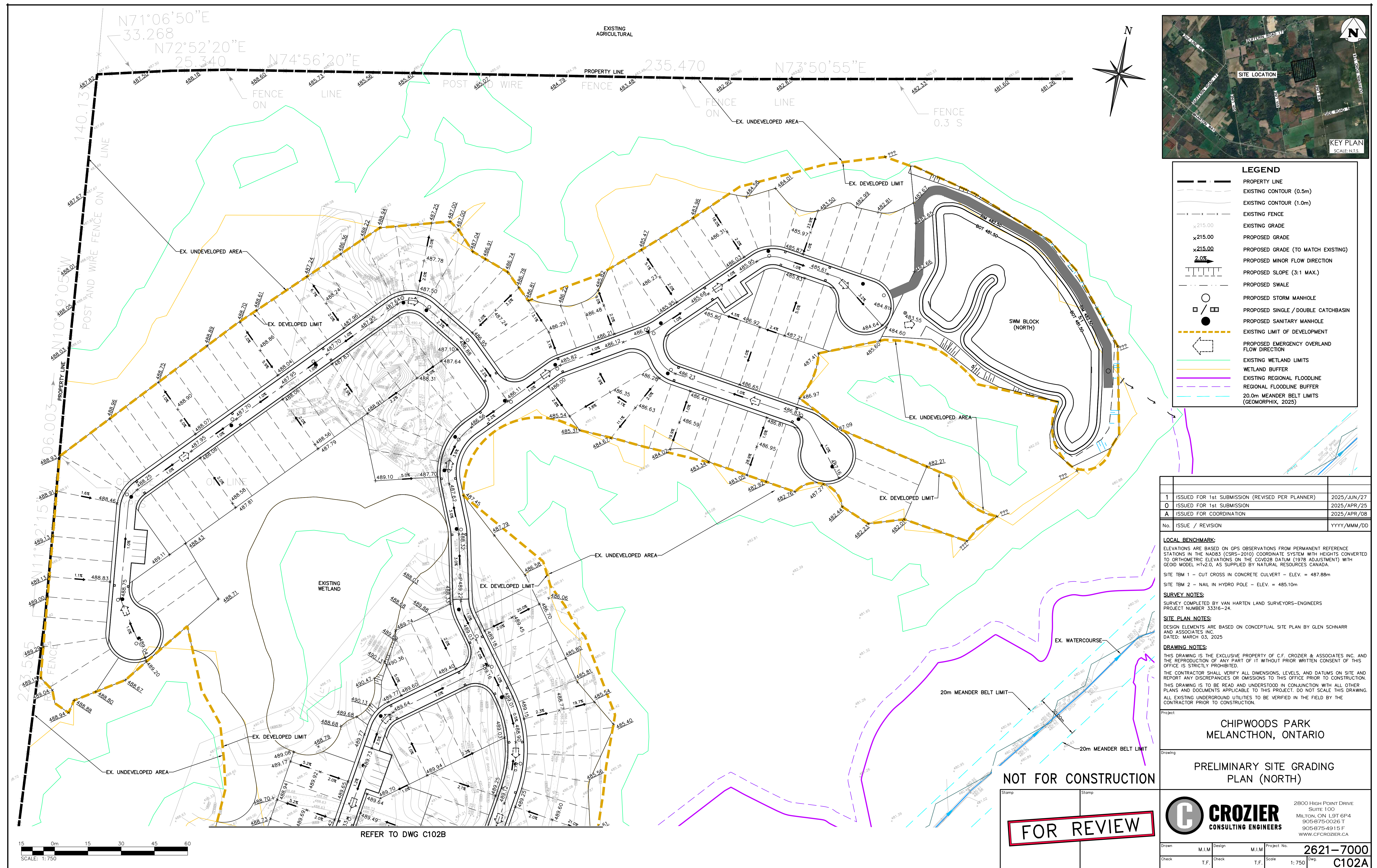
Drawn M.I.M. Design M.I.M. Project No. **2621-7000**
Check T.F. Check T.F. Scale 1:1500 Dwg. **C101**

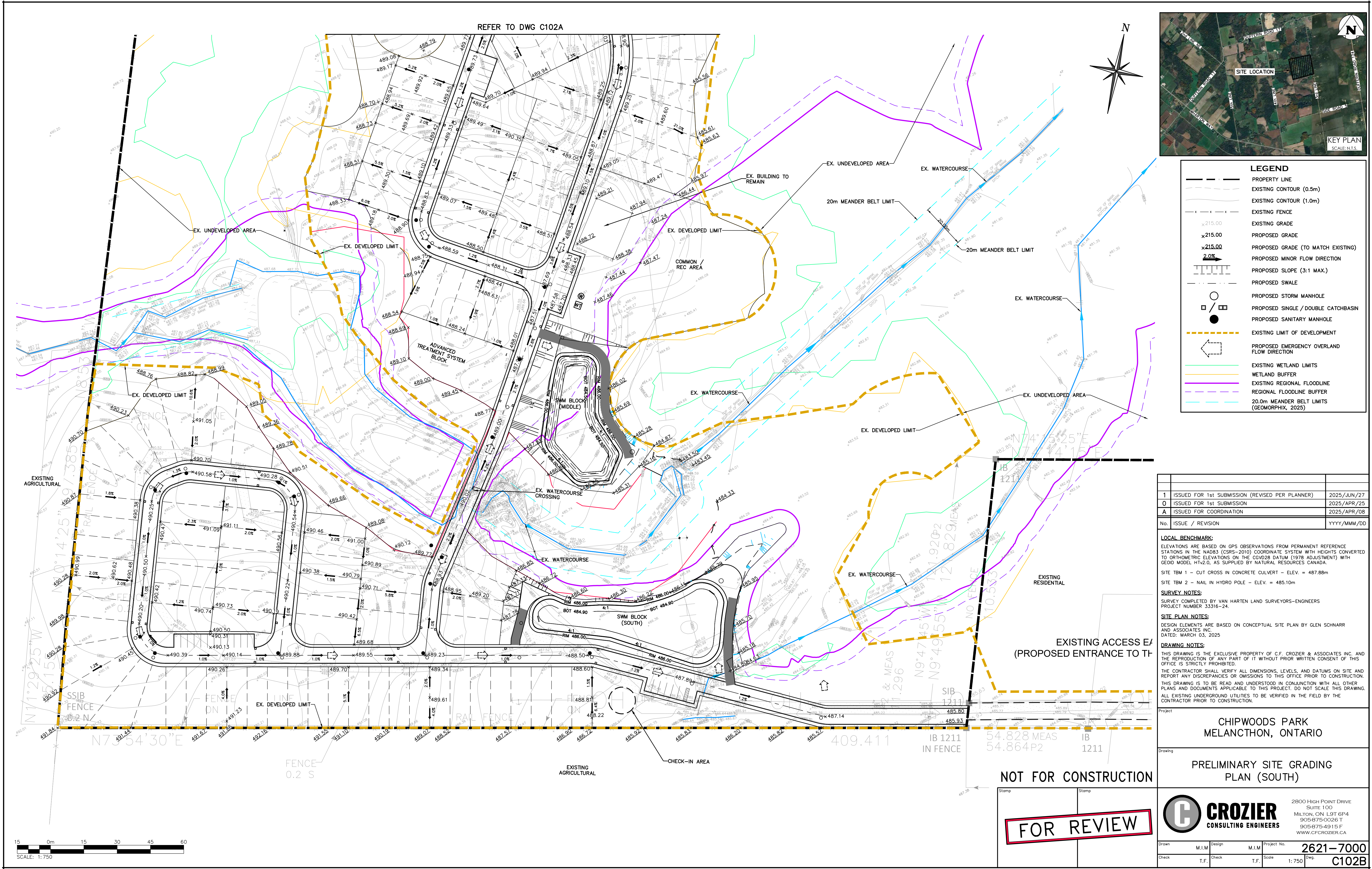
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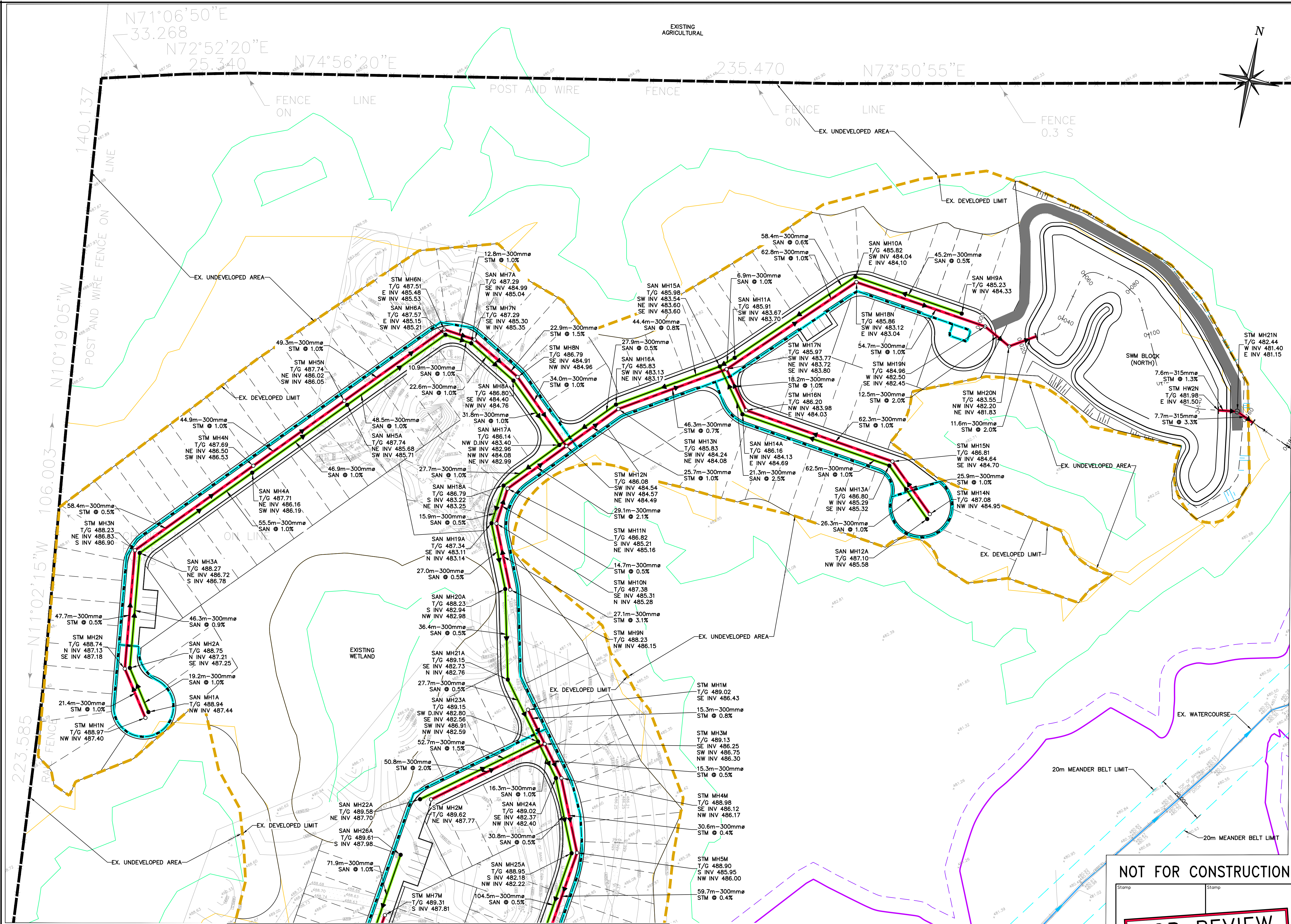
Stamp

FOR REVIEW

Stamp







LEGEND	
	PROPERTY LINE
	PROPOSED WATERMAIN & GATE VALVE
	PROPOSED STORM SEWER & MANHOLE
	PROPOSED SANITARY SEWER & MANHOLE
	PROPOSED SANITARY FORCE MAIN
	EXISTING LIMIT OF DEVELOPMENT
	EXISTING WETLAND LIMITS
	WETLAND BUFFER
	EXISTING REGIONAL FLOODLINE
	REGIONAL FLOODLINE BUFFER
	20.0m MEANDER BELT LIMITS (GEOMORPHIC, 2025)

No.	ISSUE / REVISION	DATE
1	ISSUED FOR 1st SUBMISSION (REVISED PER PLANNER)	2025/JUN/27
0	ISSUED FOR 1st SUBMISSION	2025/APR/25
A	ISSUED FOR COORDINATION	2025/APR/08

LOCAL BENCHMARK:
ELEVATIONS ARE BASED ON GPS OBSERVATIONS FROM PERMANENT REFERENCE STATIONS IN THE NAD83 (CSRS-2010) COORDINATE SYSTEM WITH HEIGHTS CONVERTED TO ORTHOMETRIC ELEVATIONS ON THE CGVD28 DATUM (1978 ADJUSTMENT) WITH GEOD MODEL HTv2.0, AS SUPPLIED BY NATURAL RESOURCES CANADA.

SITE TBM 1 - CUT CROSS IN CONCRETE CULVERT - ELEV. = 487.88m
SITE TBM 2 - NAIL IN HYDRO POLE - ELEV. = 485.10m

SURVEY NOTES:
SURVEY COMPLETED BY VAN HARTEN LAND SURVEYORS-ENGINEERS
PROJECT NUMBER 33316-24.

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DATED: MARCH 03, 2025

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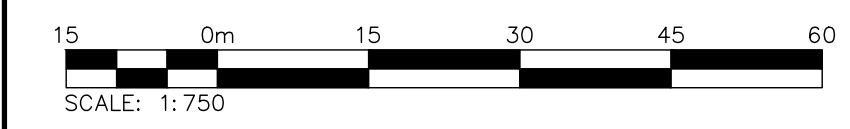
Project
**CHIPWOODS PARK
MELANCTHON, ONTARIO**

Drawing
**PRELIMINARY SITE SERVICING
PLAN (NORTH)**

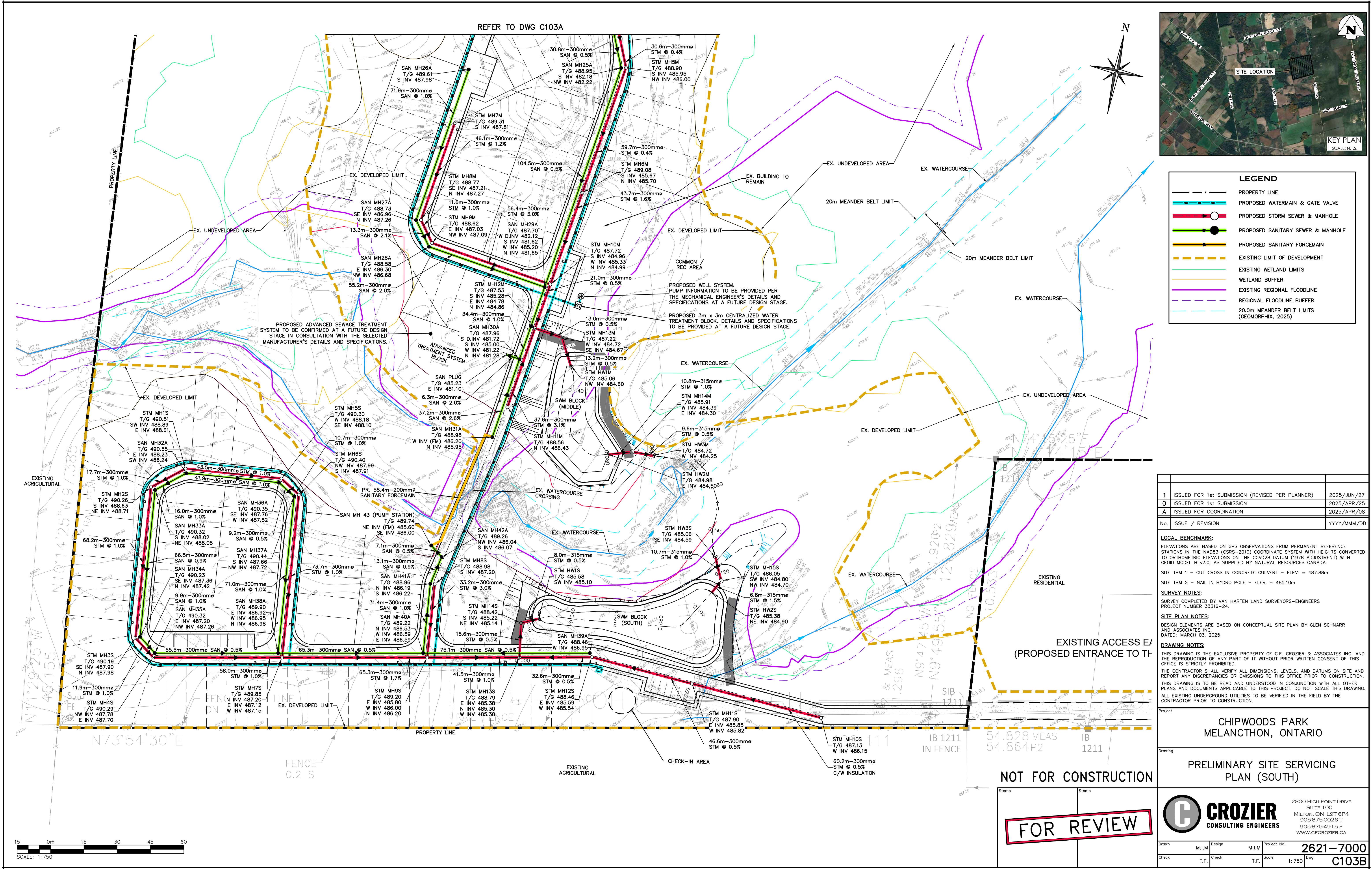
**CROZIER
CONSULTING ENGINEERS**
2800 HIGH POINT DRIVE
SUITE 100
MILTON, ON L9T 6P4
905.875.0026 T
905.875.4915 F
WWW.CFCROZIER.CA

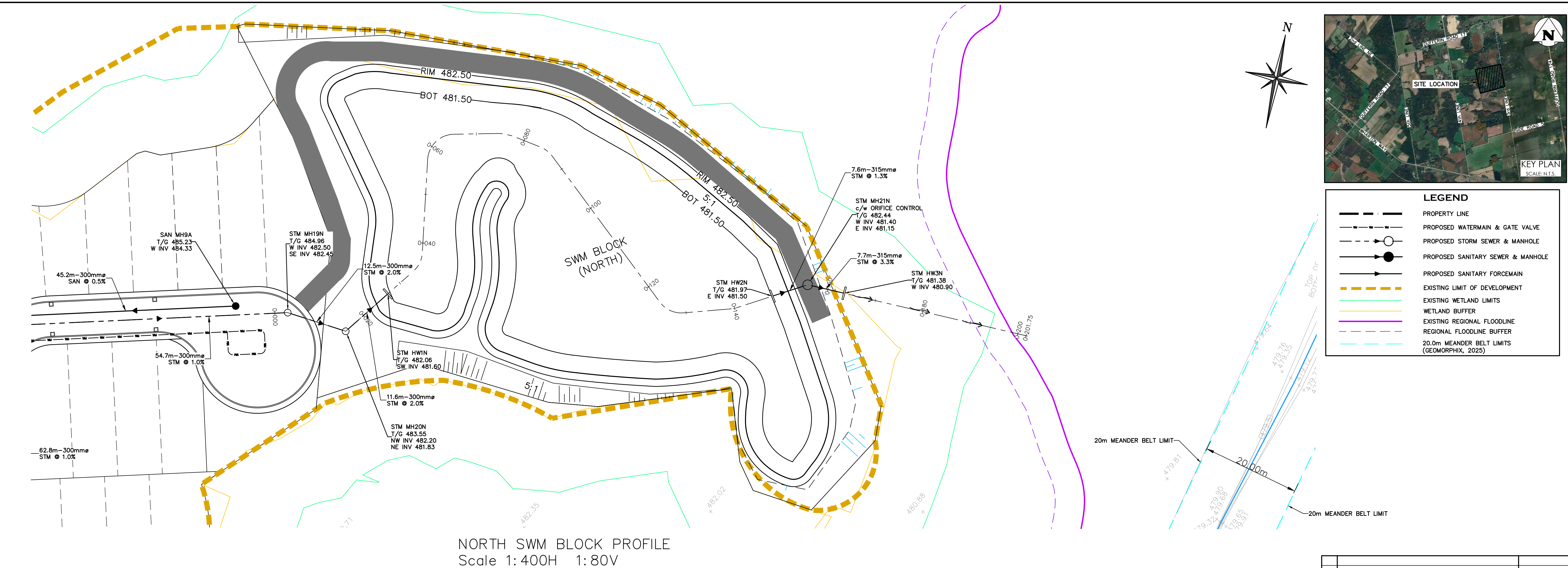
Drawn	M.I.M.	Design	M.I.M.	Project No.	2621-7000
Check	T.F.	Check	T.F.	Scale	1:750
				Dwg.	C103A

NOT FOR CONSTRUCTION
FOR REVIEW

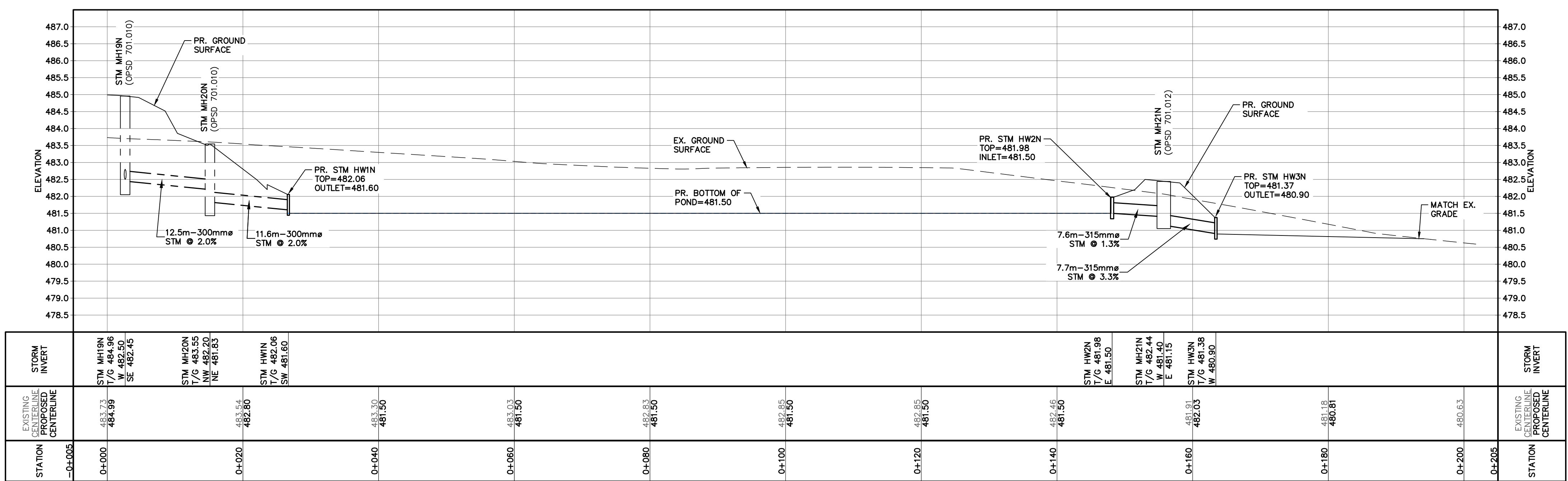


REFER TO DWG C103B





NORTH SWM BLOCK PROFILE
Scale 1:400H 1:80V



NOT FOR CONSTRUCTION

FOR REVIEW

No.	ISSUE / REVISION	DATE
1	ISSUED FOR 1st SUBMISSION (REVISED PER PLANNER)	2025/JUN/27
0	ISSUED FOR 1st SUBMISSION	2025/APR/25
A	ISSUED FOR COORDINATION	2025/APR/08

LOCAL BENCHMARK:
ELEVATIONS ARE BASED ON GPS OBSERVATIONS FROM PERMANENT REFERENCE STATIONS IN THE NAD83 (CSRS-2010) COORDINATE SYSTEM WITH HEIGHTS CONVERTED TO ORTHOMETRIC ELEVATIONS ON THE CGVD28 DATUM (1978 ADJUSTMENT) WITH GEOD MODEL HTv2.0, AS SUPPLIED BY NATURAL RESOURCES CANADA.

SITE TBM 1 - OUT CROSS IN CONCRETE CULVERT - ELEV. = 487.88m

SITE TBM 2 - NAIL IN HYDRO POLE - ELEV. = 485.10m

SURVEY NOTES:
SURVEY COMPLETED BY VAN HARTEN LAND SURVEYORS-ENGINEERS
PROJECT NUMBER 33316-24.

SITE PLAN NOTES:
DESIGN ELEMENTS ARE BASED ON CONCEPTUAL SITE PLAN BY GLEN SCHNARR AND ASSOCIATES INC.
DATED: APRIL 22, 2025

DRAWING NOTES:
THIS DRAWING IS THE EXCLUSIVE PROPERTY OF C.F. CROZIER & ASSOCIATES INC. AND THE REPRODUCTION OF ANY PART OF IT WITHOUT PRIOR WRITTEN CONSENT OF THIS OFFICE IS STRICTLY PROHIBITED.
THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, LEVELS, AND DATUMS ON SITE AND REPORT ANY DISCREPANCIES OR OMISSIONS TO THIS OFFICE PRIOR TO CONSTRUCTION.
THIS DRAWING IS TO BE READ AND UNDERSTOOD IN CONJUNCTION WITH ALL OTHER PLANS AND DOCUMENTS APPLICABLE TO THIS PROJECT. DO NOT SCALE THIS DRAWING.
ALL EXISTING UNDERGROUND UTILITIES TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

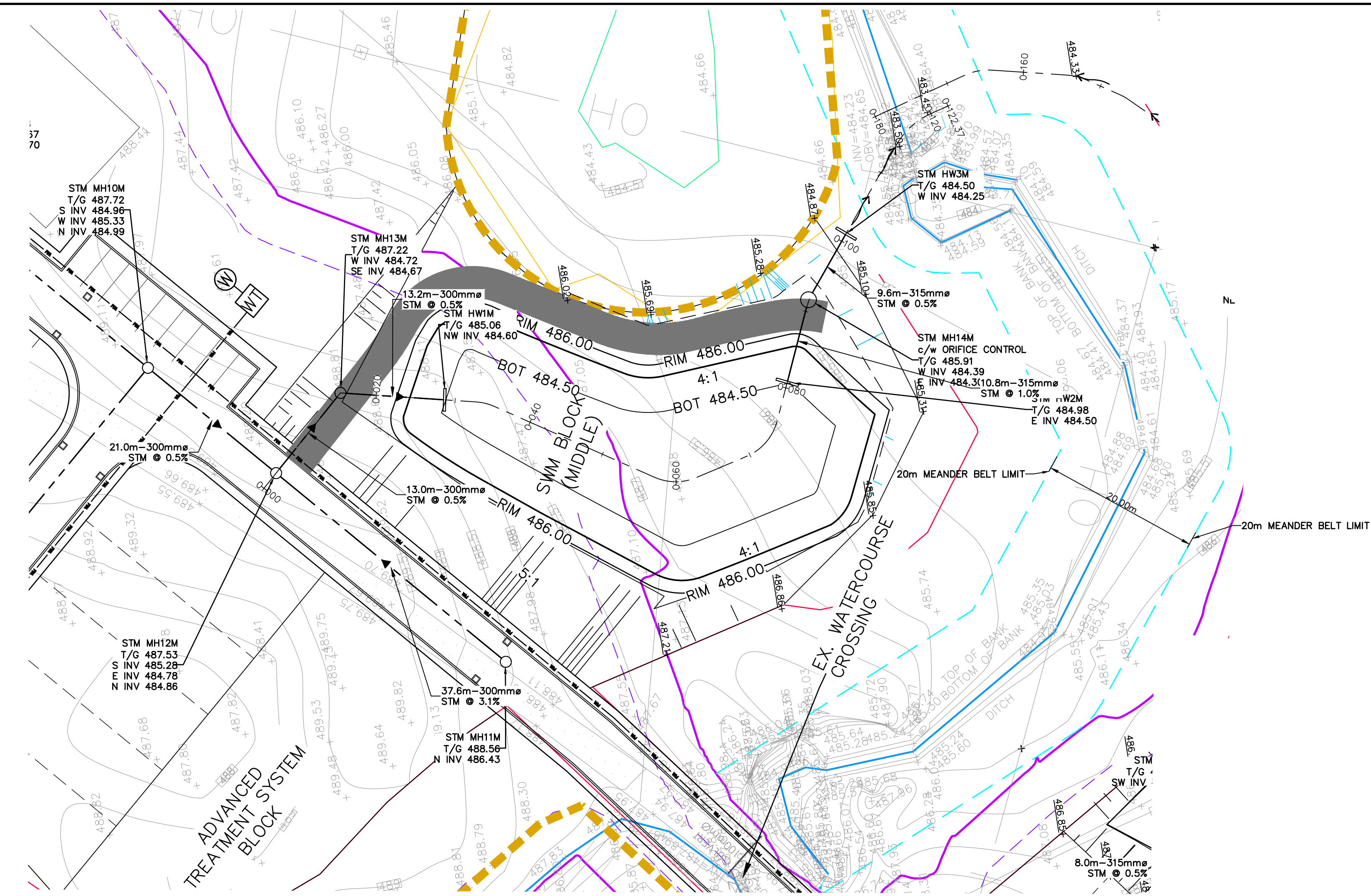
Project
**CHIPWOODS PARK
MELANCTHON, ONTARIO**

Drawing
**STORMWATER MANAGEMENT POND
PLAN AND PROFILE (NORTH BLOCK)**

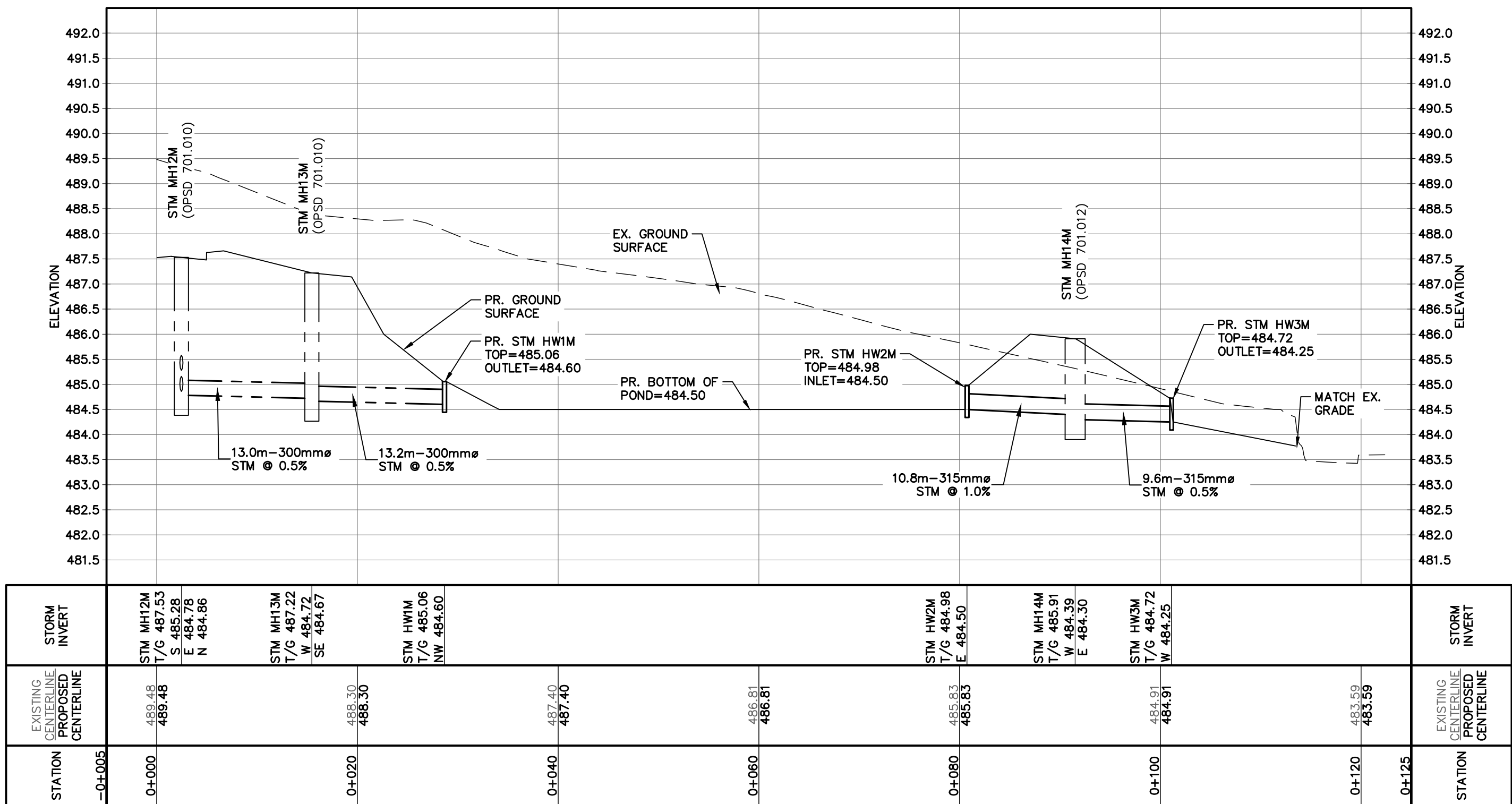
CROZIER
CONSULTING ENGINEERS

2800 HIGH POINT DRIVE
SUITE 100
MILTON, ON L9T 6P4
905-875-0026 T
905-875-4915 F
WWW.CFCROZIER.CA

Drawn	A.M.	Design	A.M.	Project No.	2621-7000
Check	T.F.	Check	T.F.	Scale	1:400
				Dwg.	C104A



MIDDLE SWM BLOCK PROFILE
Scale 1: 400H 1: 80V



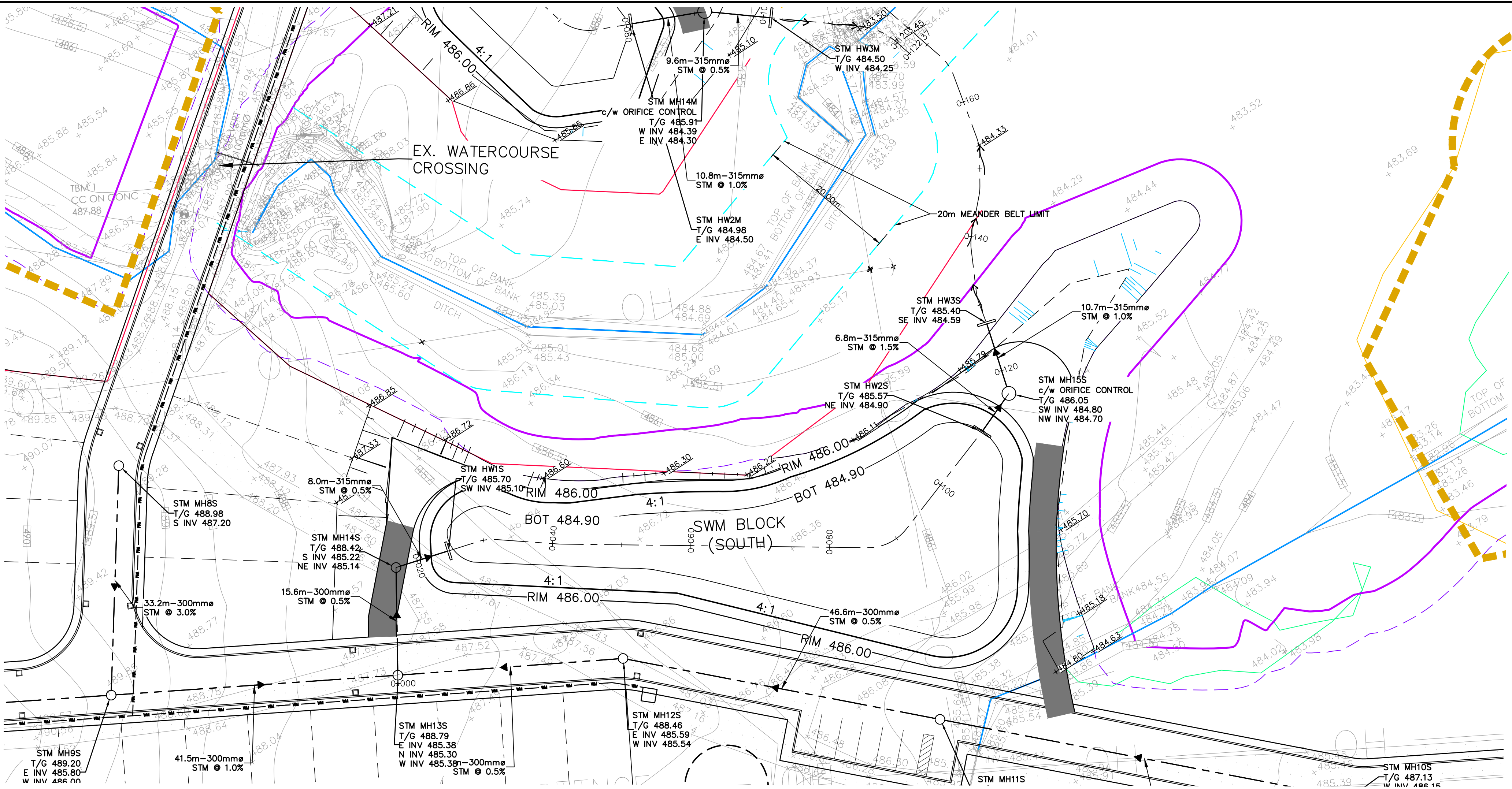
NOT FOR CONSTRUCTION

FOR REVIEW

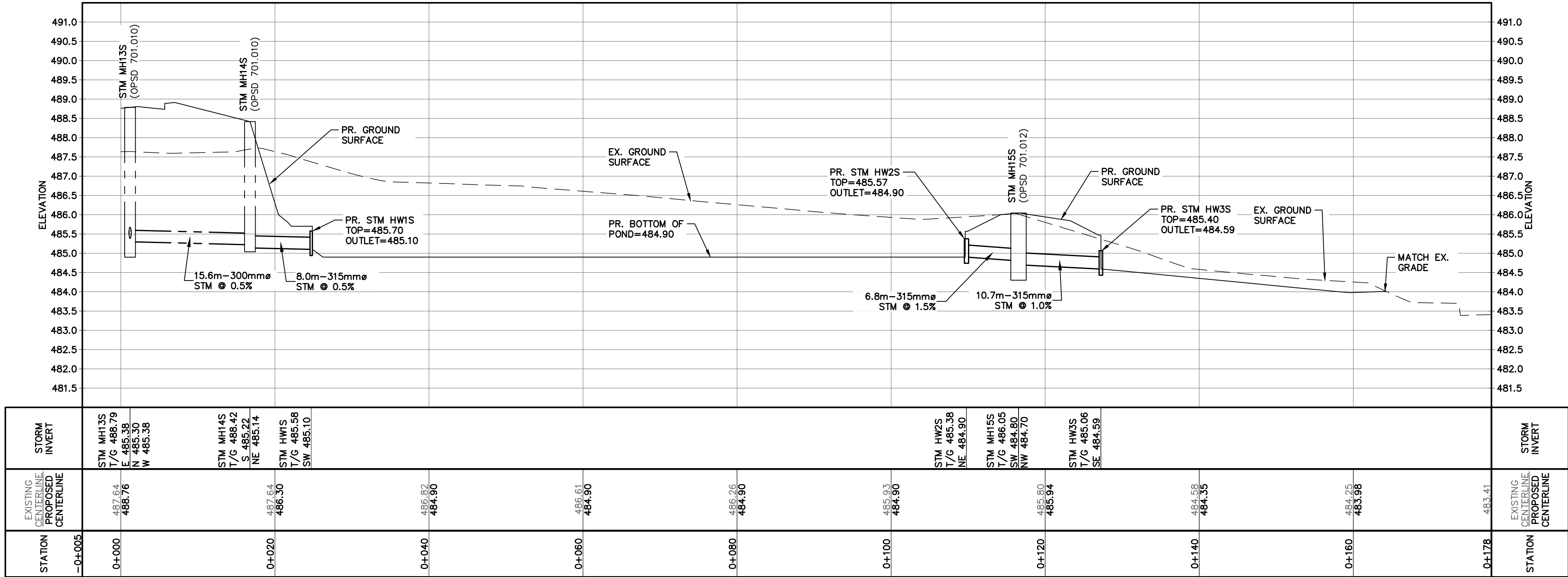


LEGEND	
	PROPERTY LINE
	PROPOSED WATERMAIN & GATE VALVE
	PROPOSED STORM SEWER & MANHOLE
	PROPOSED SANITARY SEWER & MANHOLE
	PROPOSED SANITARY FORCEMAIN
	EXISTING LIMIT OF DEVELOPMENT
	EXISTING WETLAND LIMITS
	WETLAND BUFFER
	EXISTING REGIONAL FLOODLINE
	REGIONAL FLOODLINE BUFFER
	20.0m MEANDER BELT LIMITS (GEOMORPHIX, 2025)

1	ISSUED FOR 1st SUBMISSION (REVISED PER PLANNER)		2025/JUN/27
0	ISSUED FOR 1st SUBMISSION		2025/APR/25
A	ISSUED FOR COORDINATION		2025/APR/08
No.	ISSUE / REVISION		YYYY/MM/DD
LOCAL BENCHMARK: ELEVATIONS ARE BASED ON GPS OBSERVATIONS FROM PERMANENT REFERENCE STATIONS IN THE NAD83 (CSRS-2010) COORDINATE SYSTEM WITH HEIGHTS CONVERTED TO ORTHOMETRIC ELEVATIONS ON THE CGVD28 DATUM (1978 ADJUSTMENT) WITH GEOD MODEL HTv2.0, AS SUPPLIED BY NATURAL RESOURCES CANADA. SITE TBM 1 - CUT CROSS IN CONCRETE CULVERT - ELEV. = 487.88m SITE TBM 2 - NAIL IN HYDRO POLE - ELEV. = 485.10m			
<u>SURVEY NOTES:</u> SURVEY COMPLETED BY VAN HARTEN LAND SURVEYORS-ENGINEERS PROJECT NUMBER 33316-24.			
<u>SITE PLAN NOTES:</u> DESIGN ELEMENTS ARE BASED ON CONCEPTUAL SITE PLAN BY GLEN SCHNARR AND ASSOCIATES INC. DATED: APRIL 22, 2025			
<u>DRAWING NOTES:</u> THIS DRAWING IS THE EXCLUSIVE PROPERTY OF C.F. CROZIER & ASSOCIATES INC. AND THE REPRODUCTION OF ANY PART OF IT WITHOUT PRIOR WRITTEN CONSENT OF THIS OFFICE IS STRICTLY PROHIBITED. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, LEVELS, AND DATUMS ON SITE AND REPORT ANY DISCREPANCIES OR OMISSIONS TO THIS OFFICE PRIOR TO CONSTRUCTION. THIS DRAWING IS TO BE READ AND UNDERSTOOD IN CONJUNCTION WITH ALL OTHER PLANS AND DOCUMENTS APPLICABLE TO THIS PROJECT. DO NOT SCALE THIS DRAWING. ALL EXISTING UNDERGROUND UTILITIES TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION.			
Project CHIPWOODS PARK MELANCTHON, ONTARIO			
Drawing STORMWATER MANAGEMENT POND PLAN AND PROFILE (MIDDLE BLOCK)			
		2800 HIGH POINT DRIVE SUITE 100 MILTON, ON L9T 6P4 905-875-0026 T 905-875-4915 F WWW.CFCROZIER.CA	
Drawn	A.M.	Design	A.M.
Project No.		2621-7000	
Check	T.F.	Check	T.F.
Scale		1:400	
Dwg.		C104B	



SOUTH SWM BLOCK PROFILE
Scale 1:400H 1:80V



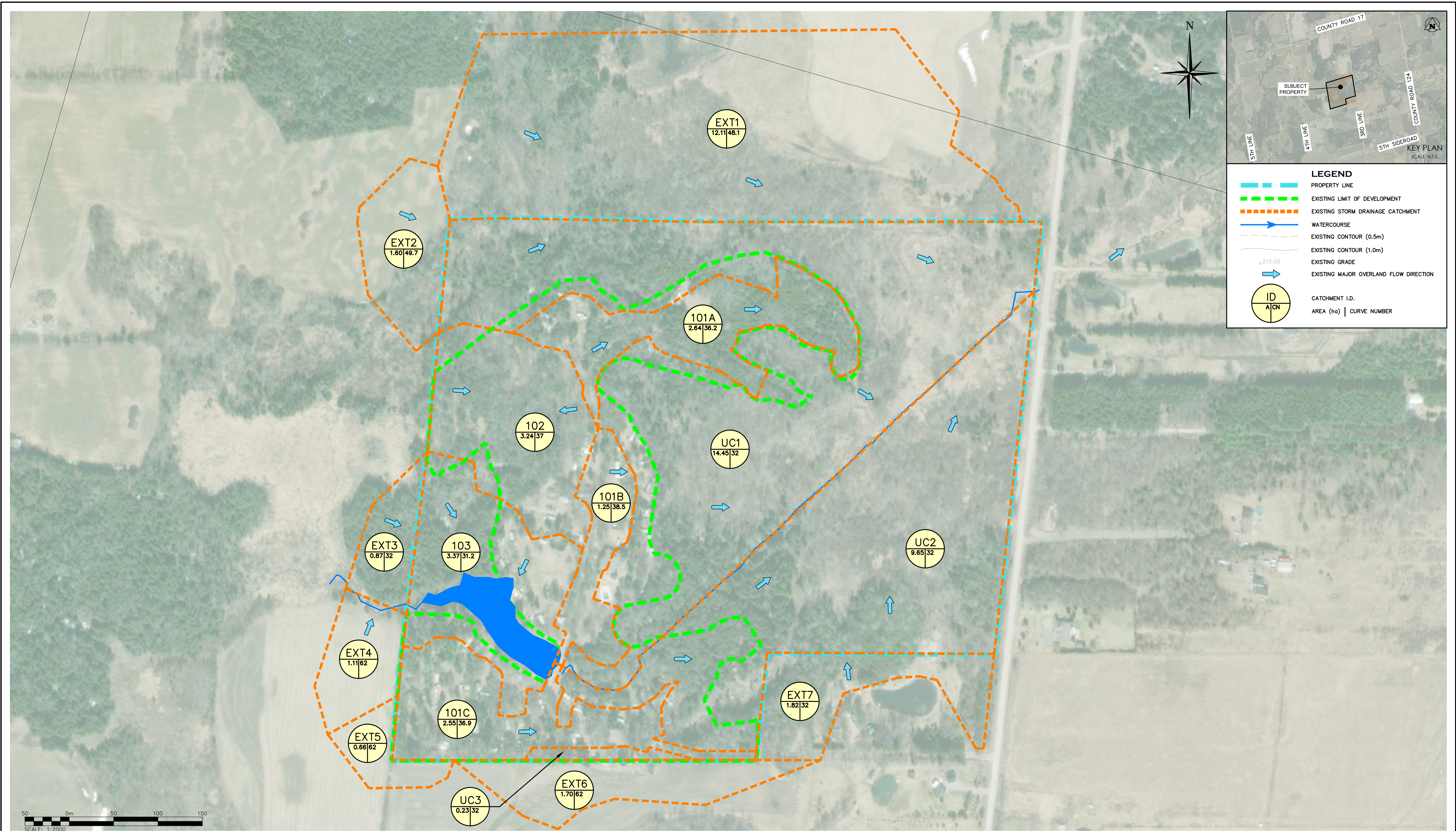
NOT FOR CONSTRUCTION

FOR REVIEW



LEGEND	
	PROPERTY LINE
	PROPOSED WATERMAIN & GATE VALVE
	PROPOSED STORM SEWER & MANHOLE
	PROPOSED SANITARY SEWER & MANHOLE
	PROPOSED SANITARY FORCE MAIN
	EXISTING LIMIT OF DEVELOPMENT
	EXISTING WETLAND LIMITS
	WETLAND BUFFER
	EXISTING REGIONAL FLOODLINE
	REGIONAL FLOODLINE BUFFER
	20.0m MEANDER BELT LIMITS (GEOMORPHIX, 2025)

1	ISSUED FOR 1st SUBMISSION (REVISED PER PLANNER)		2025/JUN/27
0	ISSUED FOR 1st SUBMISSION		2025/APR/25
A	ISSUED FOR COORDINATION		2025/APR/08
No.	ISSUE / REVISION		YYYY/MM/DD
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<u>SURVEY NOTES:</u> SURVEY COMPLETED BY VAN HARTEN LAND SURVEYORS-ENGINEERS PROJECT NUMBER 33316-24.			
<u>SITE PLAN NOTES:</u> DESIGN ELEMENTS ARE BASED ON CONCEPTUAL SITE PLAN BY GLEN SCHNARR AND ASSOCIATES INC. DATED: APRIL 22, 2025			
<u>DRAWING NOTES:</u> THIS DRAWING IS THE EXCLUSIVE PROPERTY OF C.F. CROZIER & ASSOCIATES INC. AND THE REPRODUCTION OF ANY PART OF IT WITHOUT PRIOR WRITTEN CONSENT OF THIS OFFICE IS STRICTLY PROHIBITED. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, LEVELS, AND DATUMS ON SITE AND REPORT ANY DISCREPANCIES OR OMISSIONS TO THIS OFFICE PRIOR TO CONSTRUCTION. THIS DRAWING IS TO BE READ AND UNDERSTOOD IN CONJUNCTION WITH ALL OTHER PLANS AND DOCUMENTS APPLICABLE TO THIS PROJECT. DO NOT SCALE THIS DRAWING. ALL EXISTING UNDERGROUND UTILITIES TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION.			
Project CHIPWOODS PARK MELANCTHON, ONTARIO			
Drawing STORMWATER MANAGEMENT POND PLAN AND PROFILE (SOUTH BLOCK)			
		2800 HIGH POINT DRIVE SUITE 100 MILTON, ON L9T 6P4 905-875-0026 T 905-875-4915 F WWW.CFCROZIER.CA	
Drawn A.M.	Design A.M.	Project No. 2621-7000	
Check T.F.	Check T.F.	Scale 1:400	Dwg. C104C



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4. DO NOT SCALE THE DRAWINGS.

5. ALL EXISTING UNDERGROUND UTILITIES TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

LOCAL BENCHMARK:

ELEVATIONS ARE BASED ON GPS OBSERVATIONS FROM PERMANENT REFERENCE STATIONS IN THE NAD83 (CSRS-2010) COORDINATE SYSTEM, WITH HEIGHTS CONVERTED TO ORTHOMETRIC ELEVATIONS ON THE CGVD28 DATUM (1978 ADJUSTMENT) WITH GEOID MODEL HY2.0, AS SUPPLIED BY NATURAL RESOURCES CANADA.

SITE TBM1: CUT GROSS IN CONCRETE CULVERT, 487.88m.

SITE TBM2: NAIL IN HYDRO POLE, 485.10m.

SURVEY NOTE:

SURVEY COMPLETED BY VAN HARTEN LAND SURVEYORS - ENGINEERS Proj. No. 33316-24.

Town

No.	ISSUE	DATE: MM/DD/YYYY	Engineer
0A	ISSUED FOR INTERNAL/CLIENT COORDINATION	2024/JUNE/13	
0	ISSUED FOR 1st SUBMISSION	2025/APR/25	
1	ISSUED FOR 1st SUBMISSION (REVISED PER PLANNER)	2025/JUN/27	

Engineer

Project

CHIPWOODS PARK
MELANCTHON

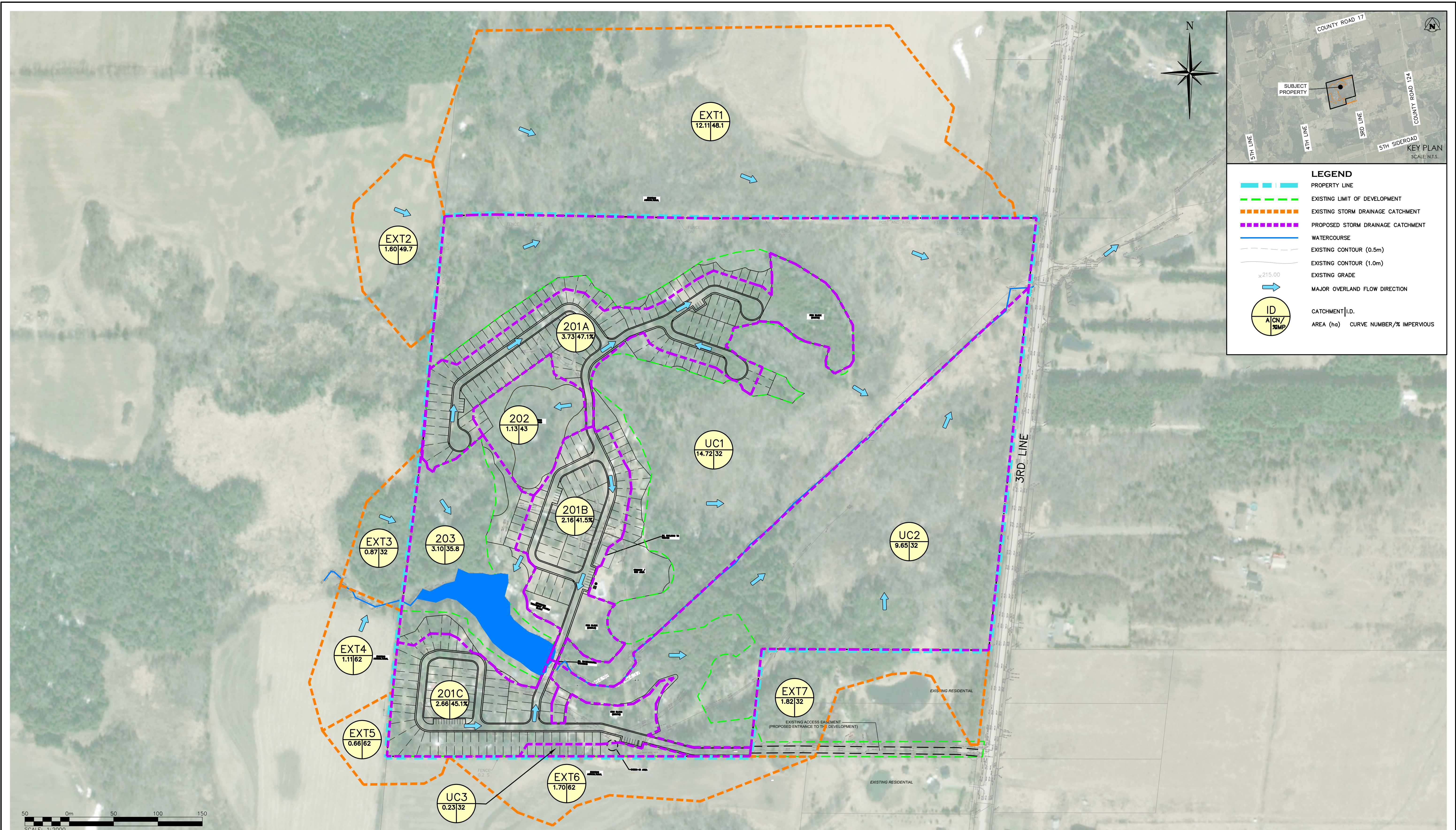
Drawing

PRE-DEVELOPMENT DRAINAGE AREA PLAN



2800 HIGH POINT DRIVE
SUITE 100
MILTON, ON L9T 6P4
905-875-0026 T
905-875-4015 F
WWW.CFCROZIER.CA

Drawn By	AJM	Design By	AJM	Project	2621-7000
Check By	TF	Check By	TF	Scale	1:2000
				Drawing	FIG 1



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SITE TBM1: CUT GROSS IN CONCRETE CULVERT, 487.88m.

SITE TBM2: NAIL IN HYDRO POLE, 485.10m.

SURVEY NOTE:

SURVEY COMPLETED BY VAN HARTEN LAND SURVEYORS - ENGINEERS Proj. No. 33316-24.

Town

No.	ISSUE	DATE: MM/DD/YYYY	Engineer
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0	ISSUED FOR 1st SUBMISSION	2025/APR/25	
1	ISSUED FOR 1st SUBMISSION (REVISED PER PLANNER)	2025/JUN/27	

Engineer

Project

CHIPWOODS PARK
MELANCTHON

POST-DEVELOPMENT DRAINAGE AREA PLAN



2800 HIGH POINT DRIVE
SUITE 100
MILTON, ON L9T 6P4
905-875-0026 T
905-875-4915 F
WWW.CFCROZIER.CA

Drawn By	AJM	Design By	AJM	Project	2621-7000
Check By	TF	Check By	TF	Scale	1:2000
				Drawing	FIG 2