

**PROPOSED TULLAMORE LANDS INDUSTRIAL DEVELOPMENT
TOWN OF CALEDON, ONTARIO**

**FUNCTIONAL SERVICING REPORT
AND
STORM WATER MANAGEMENT
DESIGN BRIEF**

Prepared For:

TULLAMORE LANDS

ORIGINAL: JULY 2022

**TOWN OF CALEDON
PLANNING
RECEIVED**

April 13, 2023

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Note: This report should be read in conjunction with the complete Site Servicing & Grading Plans prepared by The Odan/Detech Group Inc.

APPENDIX A

Aerial Photo of Site
Site Plan prepared By Stendel + Reich Architecture

APPENDIX B

Sanitary Usage & Water Demand Calculation (OBC 8.2.1.3)

APPENDIX C

Allowable SWM flows – Correspondence - C.F. Crozier & Associates Inc.
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STANDARD LIMITATIONS

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EXECUTIVE SUMMARY

It is proposed to develop the existing lands located within Block 1 and Block 4 of a proposed plan of subdivision. The site is bound by Torbram Rd to the west, existing agricultural lands to the north, future Street B to the east and a future industrial lot to the south. The proposed development will be one large industrial building with related parking and loading. This report will address the requirements for water, waste water and storm water drainage.

The proposed waste water flow from this site is **11.88 L/sec** total including an allowance for infiltration. The proposed service pipes for the Site will be a 200mm PVC service at minimum slope of 0.5% on site and 2.0% in the future ROW. The 200mm pipe has sufficient capacity and slope to self-cleanse and convey the expected flow. The site flows will discharge to a 525mm sanitary sewer proposed by C.F. Crozier & Associates Inc. on Street B.

The required water demand for the site is **3.18 L/sec** peak hour, **1.46 L/sec** peak day and **190 L/sec** fire flow demand. A separate fire and domestic service will be provided for the building extending from the property line. A 300mm PVC watermain is to be provided to the site by C.F. Crozier & Associates Inc. as part of their servicing for the Tullamore Lands.

Storm water management can be accomplished as follows:

1. Roof top storage and control flow roof drains. Maximum roof ponding of 150 mm.
Emergency overflow scuppers around the roof perimeter.
2. Parking area surface storage including piping and oversized manholes (if required).
3. Underground Cultec storage chambers

TABLE 6.1

**TOWN OF CALEDON PUBLIC WORKS AND ENGINEERING DEPARTMENT
SITE SERVICING AND GRADING CHECKLIST**

Project Name: DC Kentucky Distribution Centre
SPA File No:
Date: Planning Dept. Contact:

DESCRIPTION	YES	NO	N/A
Site Plan			
Site Services and Grading Plan stamped by a P. Eng?	√		
Site to be reviewed by Subdivision Engineer? Or Assumed?			√
Site Engineering Cost Estimate Provided/Stamped?	√		
Gen. info., legend, north arrow, metric, scale, notes, key plan etc.?	√		
Geodetic Benchmark Information provided?	√		
Road Widening's Provided?			√
Traffic issues including driveway locations identified?			√
Curb cut length, driveway width and curb radii indicated?			√
Sidewalks thickened & continuous through entrance(s)?			√
Adequate setbacks to utilities?	√		
Stamped retaining wall detail with handrail? By Structural Engineer		√	
Grading			
Match Existing Grades at Property Line?	√		
Minimum/Maximum slope adhered?	√		
FFE and TFW elevations (TFW 0.15m above grade) indicated? FFE Only	√		
Elevations and % grades indicated on drawing?	√		
Servicing			
Pipe size, length, slope, flow direction, material and invert elevations?	√		
Road restoration notes included?	√		
Frost protection on shallow sewers required?	ii		
Stormwater Management			
Stormwater Management Report stamped by P. Eng?	√		
Storm drainage self-contained?	√		
Allowance for external drainage?	√		
Correct controlled discharge rate?	√		
Overland flow route indicated and sized properly?	√		
Overland flow route and swale % grades indicated?	√		
SWM controls, ponding elevations, volumes, limits, etc. indicated?	√		
Level of SWM control (2, 5, 10, -year etc.) indicated on plan?	√		
Rooftop control data, flow rate, depth, volume, drain location, orifice plate?	√		
Floodplain/Conservation Authority issues?	√		
Silt and Sediment control measures implemented?	√		

1. BACKGROUND

The property under study is an 37.67 ha (93.08 acre) site which is part of a draft plan of subdivision for the Tullamore lands located at 12245 Torbram Road. The site is bound by Torbram Rd to the west, existing agricultural lands to the north, future Street B to the east and a future industrial lot to the south. The site is located within Block 1 and Block 4 of a proposed plan of subdivision.

The site is presently primarily an agricultural field (see aerial view). There is an existing drainage feature adjacent to the southwest property corner and a future drainage feature on the north side of the property. The site is irregular in shape and is part of a larger land parcel known as the Tullamore Lands. Based on the topographic drawing provided it is noted that side grades vary significantly and range from ~Elevation 249 to 239 m. The topography of the site generally slopes downward from northwest to southeast.

It is proposed to develop the Site with a distribution centre type of development. The Global Development Plan is shown in Appendix A. For an Aerial view of the site location refer to Appendix "A".

Refer to the Architectural Site Plan for further information regarding the proposed layout of the site including the building locations, asphalt, curb and landscape.

2. SCOPE OF WORK

THE ODAN/DETECH GROUP INC. was retained by **TULLAMORE LANDS** to review the site, collect data, evaluate the site for the proposed industrial use and present the findings in a Design Brief in support of a Site Plan Application. The scope of work in brief involves the following:

- a) Collecting existing servicing drawings from the Town of Caledon and Region of Peel in order to establish availability and feasibility of site servicing;
- b) Meetings/conversations with Town Planners & Engineers, Region of Peel and TRCA.
- c) Meetings/conversations with Consulting team and C.F. Crozier & Associates Inc. in order to coordinate. **It should be noted that we are relying on the work performed by C.F. Crozier & Associates Inc within their Servicing and Stormwater Management Report, since there are no services within the site boundaries. It is the duty of C.F. Crozier & Associates Inc. to evaluate and design the global services.**
- d) Evaluation of the data and presentation of the findings in a Design Brief that will in support of a Site Plan Application.

3. SANITARY WASTE WATER DISPOSAL

Existing Infrastructure

There are no sewers currently provided to the proposed distribution centre site. Sanitary sewers are to be provided to the site by C.F. Crozier & Associates Inc. as part of their servicing for the Tullamore Lands. The nearest existing sanitary service is a 750mm sewer on Airport Road. There is no existing sanitary infrastructure on Torbram and Mayfield Road.

Proposed system

The proposed development will drain by gravity through a proposed 200mm dia. sanitary system discharging to a 525mm sanitary sewer proposed by C.F. Crozier & Associates Inc. on Street B. The Tullamore Lands subdivision is proposed to drain to a future sanitary system as part of the Sandringham East Subdivision south of Mayfield Road. See drawings Gen-01 to Gen-06 in Servicing and Stormwater Management Report, by C.F. Crozier & Associates Inc. for further details.

Flows from the proposed distribution centre have been considered by C.F. Crozier & Associates Inc. as part of their global design.

Since the actual employee count for the site is unknown at this time, the calculated sanitary flows were based on the Region of Peel Sanitary Design Guidelines which estimates 70 persons per hectare for the proposed Light Industrial land use. See the following spread sheet below for more details of the calculations.

Proposed Sanitary Flows

The proposed sanitary usage was calculated using the Ontario Building Code, Section 8.2.1.3. The peaking factors are calculated using the Harmon Formula in accordance to the Regional Municipality of Peel Sanitary Sewer Design Criteria (March 2017). The detailed calculation has been provided in Appendix B.

The Sanitary Usage was calculated as follows:

a)	Total Volume (Average per Day excluding infiltration)	91318 L
b)	Average Daily Flow from Industrial Land Use	1.06 L/sec
c)	Development Population	250 p
c)	Peaking Factor $M = 1 + [14 / (4 + (P/1000,1/2))]$	4.1
c)	Peak Flow From Land Use	4.35 L/sec
d)	Infiltration Flow (0.20L/sec/ha)	7.53 L/sec
e)	Total Sanitary Flow	11.88 L/sec

4. WATER DISTRIBUTION

Existing Infrastructure

There are no watermains currently provided to the proposed distribution centre site. A 300mm PVC watermain is to be provided to the site by C.F. Crozier & Associates Inc. as part of their servicing for the Tullamore Lands. The nearest existing watermain is a 300mm watermain on Airport Road and a 300mm watermain on Mayfield Road.

Proposed System

The proposed development will be serviced by a proposed 300mm dia. fire line and a 150mm domestic water service. The proposed services will connect to a 300mm watermain proposed by C.F. Crozier & Associates Inc. on Street B. The 300mm watermain for the Tullamore Lands subdivision is proposed to tie into the municipal system at Airport Road and Mayfield Road. See drawings WTR-01 to WTR-02 in Servicing and Stormwater Management Report, by C.F. Crozier & Associates Inc. for further details.

Domestic & Fire Water Requirements:

The unit rate and peaking factors of water consumption, minimum pipe size and allowable pressure in line were established from the Region of Peel criteria.

The Water demands were calculated as follows:

Water consumption was determined using Ontario Building Code, Section 8.2.1.3. The detailed calculation has been provided in Appendix B.

a)	Total volume (average per day)	91318 L
b)	Average day domestic demand -	1.06 L/sec
c)	Peak day demand - 1.4 x daily demand	2.46 L/sec
d)	Peak hour demand - 3.0 daily demand	3.18 L/sec
e)	Fire flow demand - Provided by Sprinkler Consultant	190 L/sec
f)	Total Development Water Demand	193.18 L/sec

Fire Flow – All calculations to be verified by Fire Consultant at time of sprinkler design.

Condition	Allowable Pressures (kPa)	
	Min.	Max.
1) Minimum Hour	275	700
2) Peak Hour	275	700
3) Peak Day + Fire Flow	140	700

The unit rate and peaking factors of water consumption, minimum pipe size and allowable pressure in line were established from the Region Design Manual Standards.

The pressures and volumes must be sufficient for peak hour conditions and under fire conditions as established by the Ontario Building Code 2006. The minimal residual pressure under fire conditions is 140 kPa (20.3 psi).

The required firefighting flows are calculated below.

Other Design Considerations

The water mains within the proposed site shall be installed in accordance with the current Region specifications and requirements.

If there is a crossing of the water main and a sewer, the water main shall cross above the sewer with sufficient vertical separation to allow for proper bedding and structural support of the water main (0.5m minimum).

In cases where there is a conflict with the elevation of the sewer and the water main such that the water main cannot cross above the sewer, the water main has been designed to cross below the sewer subject to the following conditions.

- a) There shall be a minimum vertical separation of 0.5m between the bottom of the sewer pipe and the top of the water main,
- b) The water main shall be lowered below the sewer using vertical thrust blocks and restraining joints,
- c) The length of the water main pipe shall be centered at the point of crossing so that the joints are equidistant and as far as possible from the sewer, and
- d) The sewer shall be adequately supported to prevent joint deflection and settling.

5. WATER STORM MANAGEMENT

INTRODUCTION

This Storm Water Management (SWM) Design section has been prepared in support of the TULLAMORE LANDS site. The Site development will be a distribution centre. Storm water quantity controls are proposed in accordance with Town criteria.

This report will review the subject site and will investigate the storm conveyance system for the site to the outlet at Steet B. Refer to the XPSWMM model for further details and the existing tributary area in Appendix C.

In addition to contacting the Town and Region, as part of our background investigation, the following policies/Guidelines and studies will be reviewed/implemented for this Site:

- MOE Storm water Management Practices, Planning and Design Manual, March 2003.
- Town of Caledon Development Standards, Policies and Guidelines.
- *Servicing and Stormwater Management Report*, by C.F. Crozier & Associates Inc. for the Tullamore lands (December, 2021)

The SWM for the redeveloped TULLAMORE LANDS Site will establish the following:

1. Flows to the Street B prior to discharge to the SWM pond.
2. Evaluate the water quality requirements
3. Evaluate the water balance for the Site
4. Create drawings as to the implementation of the SWM.

SITE ALLOWANCE

The following criteria was given to Odan/Detech Group by C.F. Crozier & Associates Inc.

- **Quantity Control:**

Block-level controls are proposed to control 100-year post-development peak flows to the 5-year post-development peak flows, prior to discharging to the proposed storm sewer system within the ROWs. The following excerpt from *Servicing and Stormwater Management Report*, by C.F. Crozier & Associates Inc. is provided below which displays the target Block-level peak runoff and required storage volume to control the 100-year peak runoff rates to the 5-year runoff rates.

Table 16: Summary of Block-Level (Blocks 1-5) Peak Stormwater Flow Rates and Storage Requirements

Catchment	Block ID	6-Hour Storm			12-Hour Storm		
		5-Year Target Flow (m ³ /s)	100-Yr Controlled Flow Rate (m ³ /s)	Storage Volume Required (m ³)	5-Year Target Flow (m ³ /s)	100-Yr Controlled Flow Rate (m ³ /s)	Storage Volume Required (m ³)
202	1	2.319	1.379	8,355	1.380	1.197	7,257
204	2	3.227	2.001	12,258	2.010	1.730	10,584
206	3	1.705	1.055	6,570	1.061	0.913	5,677
207	4	1.927	1.179	7,165	1.182	1.021	6,194
209	5	0.881	0.513	3,120	0.514	0.445	2,722

The allowable flow for the subject site was provided by C.F. Crozier & Associates Inc. in the Appendix B. The allowable flow provided for the site was **2.6 m³/s**. This additional flow to the allowable flows provided in the excerpt above is due to the revision to the SWM strategy as discussed in the West Tributary Stormwater Management section below.

Emergency overland flow routes for the Blocks are designed to direct excess stormwater runoff towards the municipal ROWs proposed within the Site and convey these flows overland to the proposed SWM pond.

- **Quality Control:**

A stormwater management wet pond is proposed to provide stormwater quantity, quality, and erosion controls for the overall development. Stormwater flows will enter the proposed SWM pond primarily through the proposed internal storm sewer system (minor system) and by overland flow (major system). Therefore, no site level quality controls are required.

- **West Tributary Stormwater Management**

In accordance with the *Servicing and Stormwater Management Report*, by C.F. Crozier & Associates Inc. (December, 2021), a portion of the rooftop flows from the subject site are to be directed to the west tributary. Through discussions with C.F. Crozier & Associates Inc., it was agreed that due to the south property line location, it was much more practical to have the future development to the south discharge flows to this west tributary. Therefore, all flows from the subject site are to be directed to the storm system on Street B. Correspondence with C.F. Crozier & Associates Inc. to this effect has been provided in Appendix B while their report is being updated to reflect these changes.

POST DEVELOPMENT:

In order to control the flows from the proposed development to the target peak flow rates, the subject site will require underground storage units, at grade surface storage, and roof top storage.

It was decided to evaluate the development of the subject site with a hydrologic and hydraulic dynamic model. The model chosen was XPSWMM. XPSWMM is using the modified EPA SWMM 5 engine. SWMM 5 models can be imported and exported into XPSWMM. The Hydrodynamic models provide the most accurate, reliable and defensible representation of flows in the collection system. They account for varying inflows, non-coincident peak flows, in system storage, hydrograph attenuation, and tail and backwater effects.

The XPSWMM model is a series of node Links forming a 1D dynamic model. Flow is calculated at nodes through many hydrologic methods such as NASH unit hydrograph, EPA runoff method via a nonlinear reservoir. Both urban and rural runoff can be derived at the same node. The hydrographs created are routed dynamically through pipes, storage units, open channels and culverts. The following are the info used in the model:

- All plastic and concrete pipes Manning $n = 0.013$.
- All CSP pipes Manning $n = 0.024$.
- All open channels Manning $n = 0.040$ (considering dense vegetation growth along the channels).
- Pipe Manhole loss coefficients for entrance and exit were accounted for via drop in manhole inverts.
- Pipe obverts were more or less matched.
- XPSWMM was chosen to show the HGL in the sewer system.
- Refer to sewer profile plots for calculations of flows and other hydraulic stats.
- Horton infiltration parameters were used for soil types A and B
 $F_0 = 125 \text{ mm/hr}$, $F_c = 20 \text{ mm/hr}$, decay rate $\alpha = 5.56E-4 \text{ 1/sec}$
Depression storage 2 mm impervious 5 mm for pervious
- XPSWMM in 1D, uses a Finite difference Runge-Kutta explicit scheme. Scheme solves all terms of the St.Venant equations. 1D and 2D schemes automatically switch between upstream and downstream controlled flow regimes to represent shocks.

TIME STEP:

We have adapted the following time steps: 1D model start with 5.0 sec. Note the explicit nature of the algorithm automatically reduces the time step. In the case of this model the program has reduced the time step to 1.0 sec or less.

Refer to table 2 for the hydrologic parameters used to calculate the runoff.

Table 1 - Post Development hydrology parameters

Name (node)	Subcatchment	Area (ha)	Impervious Percentage %	Width m	Slope m/m	Hydrology Methods	Infiltration Reference
CAP 6 (STORM)	1	0.213	90.0	28.3	0.01	RUNOFF	Roof
STM MH 102 (STORM)	1	0.19	90.0	26.8	0.01	RUNOFF	Roof
STM MH 103 (STORM)	1	0.179	90.0	25.9	0.01	RUNOFF	Roof
STM MH 104 (STORM)	1	0.217	90.0	28.5	0.01	RUNOFF	Roof
STM MH 113 (STORM)	1	0.695	90.0	51.1	0.01	RUNOFF	Roof
STM MH 110 (STORM)	1	0.168	90.0	25.1	0.01	RUNOFF	Roof
STM MH 109 (STORM)	1	0.206	90.0	27.8	0.01	RUNOFF	Roof
STM MH 108 (STORM)	1	0.239	90.0	29.9	0.01	RUNOFF	Roof
STM MH 107 (STORM)	1	0.239	90.0	29.9	0.01	RUNOFF	Roof
STM MH 106 (STORM)	1	0.272	90.0	31.9	0.01	RUNOFF	Roof
STM MH 105 (STORM)	1	0.227	90.0	29.2	0.01	RUNOFF	Roof
STM MH 101 (STORM)	1	0.247	90.0	30.4	0.01	RUNOFF	Roof
STM MH 100 (STORM)	1	0.179	90.0	25.9	0.01	RUNOFF	Roof
STM MH 99 (STORM)	1	0.216	90.0	28.5	0.01	RUNOFF	Roof
STM MH 98 (STORM)	1	0.226	90.0	29.1	0.01	RUNOFF	Roof
STM MH 97 (STORM)	1	0.271	90.0	31.9	0.01	RUNOFF	Roof
STM MH 96 (STORM)	1	0.237	90.0	29.8	0.01	RUNOFF	Roof
STM MH 95 (STORM)	1	0.238	90.0	29.9	0.01	RUNOFF	Roof
STM MH 94 (STORM)	1	0.205	90.0	27.7	0.01	RUNOFF	Roof
STM MH 93 (STORM)	1	0.405	90.0	39.0	0.01	RUNOFF	Roof
STM MH 91 (STORM)	1	0.361	90.0	36.8	0.01	RUNOFF	Roof
STM MH 90 (STORM)	1	0.305	90.0	33.8	0.01	RUNOFF	Roof
STM MH 30 (STORM)	1	0.092	99.0	18.6	0.01	RUNOFF	Roof
STM MH 188 (STORM)	1	0.534	70.0	44.7	0.02	RUNOFF	Urban Soil AB
STM MH 187 (STORM)	1	0.736	90.0	52.4	0.02	RUNOFF	Urban Soil AB
STM MH 203 (STORM)	1	0.602	90.0	47.6	0.02	RUNOFF	Urban Soil AB
STM MH 236 (STORM)	1	0.448	75.0	41.0	0.02	RUNOFF	Urban Soil AB
STM MH 21 (STORM)	1	0.272	0.0	31.9	0.02	RUNOFF	Urban Soil AB
STM MH 23 (STORM)	1	0.182	0.0	26.1	0.02	RUNOFF	Urban Soil AB
STM MH 222 (STORM)	1	0.318	90.0	34.5	0.02	RUNOFF	Urban Soil AB
STM MH 227 (STORM)	1	0.354	75.0	36.4	0.02	RUNOFF	Urban Soil AB
STM MH 221 (STORM)	1	0.335	0.0	35.4	0.02	RUNOFF	Urban Soil AB
STM MH 20 (STORM)	1	0.21	90.0	28.1	0.02	RUNOFF	Urban Soil AB
STM MH 223 (STORM)	1	0.626	71.0	48.5	0.02	RUNOFF	Urban Soil AB
STM MH 220 (STORM)	1	0.614	0.0	48.0	0.02	RUNOFF	Urban Soil AB
STM MH 127 (STORM)	1	0.496	90.0	43.1	0.02	RUNOFF	Urban Soil AB
STM MH 122 (STORM)	1	0.495	90.0	43.1	0.02	RUNOFF	Urban Soil AB
STM MH 125 (STORM)	1	0.498	90.0	43.2	0.02	RUNOFF	Urban Soil AB
STM MH 129 (STORM)	1	0.30	90.0	33.4	0.02	RUNOFF	Urban Soil AB
STM MH 18 (STORM)	1	0.19	90.0	26.8	0.02	RUNOFF	Urban Soil AB
STM MH 218 (STORM)	1	1.73	43.0	80.6	0.020	RUNOFF	Urban Soil AB
STM MH 17 (STORM)	1	0.28	90.0	32.3	0.02	RUNOFF	Urban Soil AB
STM MH 153 (STORM)	1	0.557	90.0	45.7	0.02	RUNOFF	Urban Soil AB
STM MH 204 (STORM)	1	0.764	59.0	53.5	0.02	RUNOFF	Urban Soil AB
CULTEC 5	1	0.337	90.0	35.5	0.02	RUNOFF	Urban Soil AB
STM MH 27 (STORM)	1	0.645	90.0	49.2	0.02	RUNOFF	Urban Soil AB
STM MH 228 (STORM)	1	2.149	83.0	89.8	0.02	RUNOFF	Urban Soil AB
STM MH 26 (STORM)	1	0.678	90.0	50.4	0.02	RUNOFF	Urban Soil AB
STM MH 169 (STORM)	1	0.382	90.0	37.8	0.02	RUNOFF	Urban Soil AB
STM MH 28 (STORM)	1	0.427	90.0	40.0	0.02	RUNOFF	Urban Soil AB
STM MH 168 (STORM)	1	0.911	66.0	58.4	0.02	RUNOFF	Urban Soil AB
PROP CB 39 (STORM)	1	0.487	68.0	42.7	0.02	RUNOFF	Urban Soil AB
STM CBMH 250 (STORM)	1	0.226	90.0	29.0	0.02	RUNOFF	Urban Soil AB
STM MH 134 (STORM)	1	1.577	78.0	76.9	0.02	RUNOFF	Urban Soil AB
STM MH 135 (STORM)	1	0.883	90.0	57.5	0.02	RUNOFF	Urban Soil AB
STM MH 85 (STORM)	1	0.442	90.0	40.7	0.02	RUNOFF	Urban Soil AB
CULTEC 1	1	0.442	90.0	40.7	0.02	RUNOFF	Urban Soil AB
STM MH 82 (STORM)	1	1.243	90	68.3	0.02	RUNOFF	Urban Soil AB
CULTEC 2	1	0.622	90	48.3	0.02	RUNOFF	Urban Soil AB
STM MH 83 (STORM)	1	0.623	90	48.3	0.02	RUNOFF	Urban Soil AB
STM MH 142 (STORM)	1	1.222	90	67.7	0.02	RUNOFF	Urban Soil AB
STM MH 141 (STORM)	1	1.244	90	68.3	0.02	RUNOFF	Urban Soil AB
STM MH 42 (STORM)	1	0.886	90	57.6	0.02	RUNOFF	Urban Soil AB
STM MH 43 (STORM)	1	0.76	90	53.4	0.02	RUNOFF	Urban Soil AB
STM MH 238 (STORM)	1	0.535	90	44.8	0.02	RUNOFF	Urban Soil AB
STM MH 237 (STORM)	1	0.115	90	20.8	0.01	RUNOFF	Urban Soil AB
STM MH 30 (STORM)	2	0.109	90	20.2	0.02	RUNOFF	Urban Soil AB
Roof 1	1	2.133	99	89.4	0.01	RUNOFF	Urban Soil AB
Roof 2	1	2.131	99	89.4	0.01	RUNOFF	Urban Soil AB
Node118	1	0.496	90	43.1	0.02	RUNOFF	Urban Soil AB
Node119	1	0.498	90	43.2	0.02	RUNOFF	Urban Soil AB
Node120	1	0.495	90	43.1	0.02	RUNOFF	Urban Soil AB
Node121	1	0.309	71	34.0	0.02	RUNOFF	Urban Soil AB

Figure 1 – XPSWMM Global model



Figure 2 – XPSWMM north half model with node labels

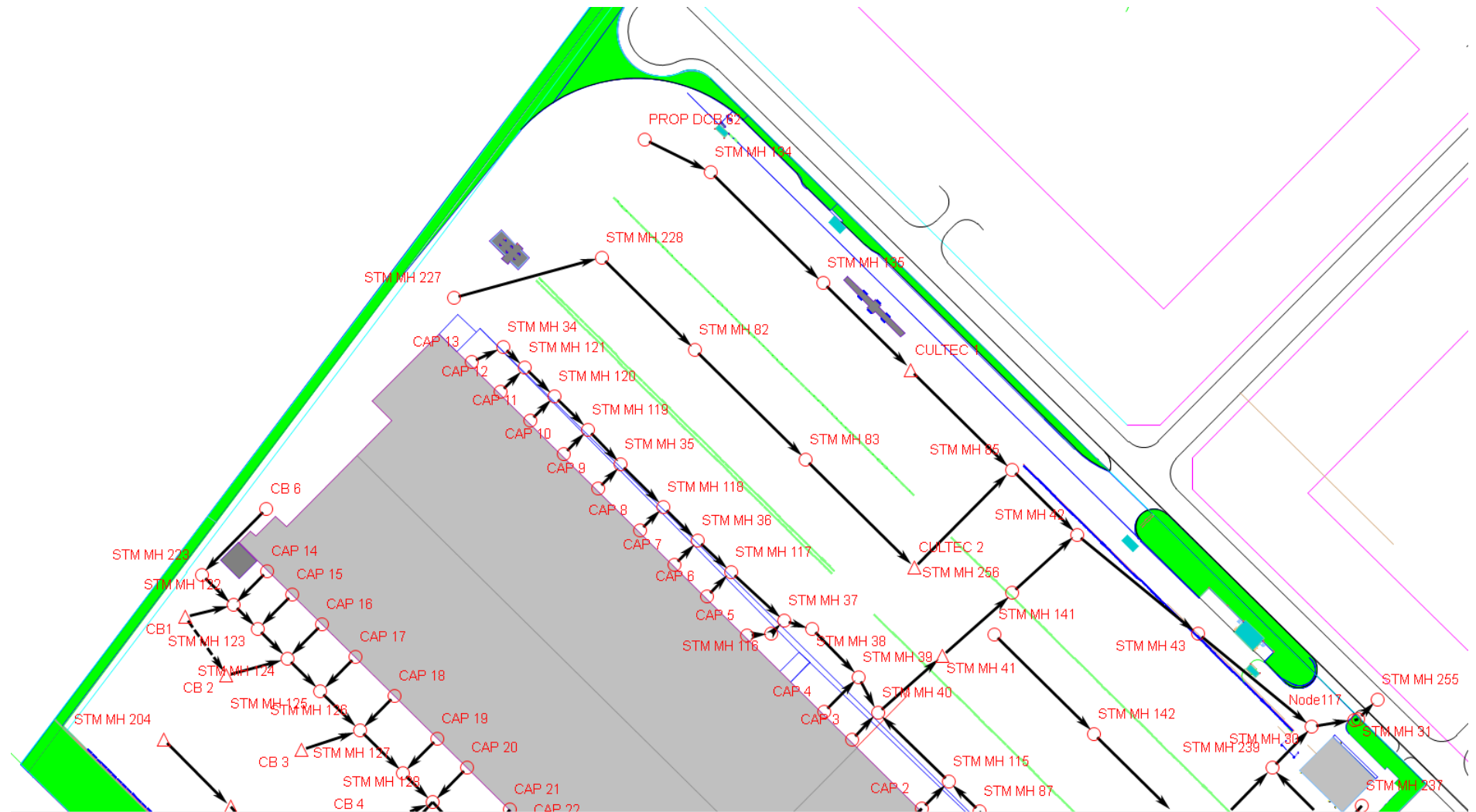
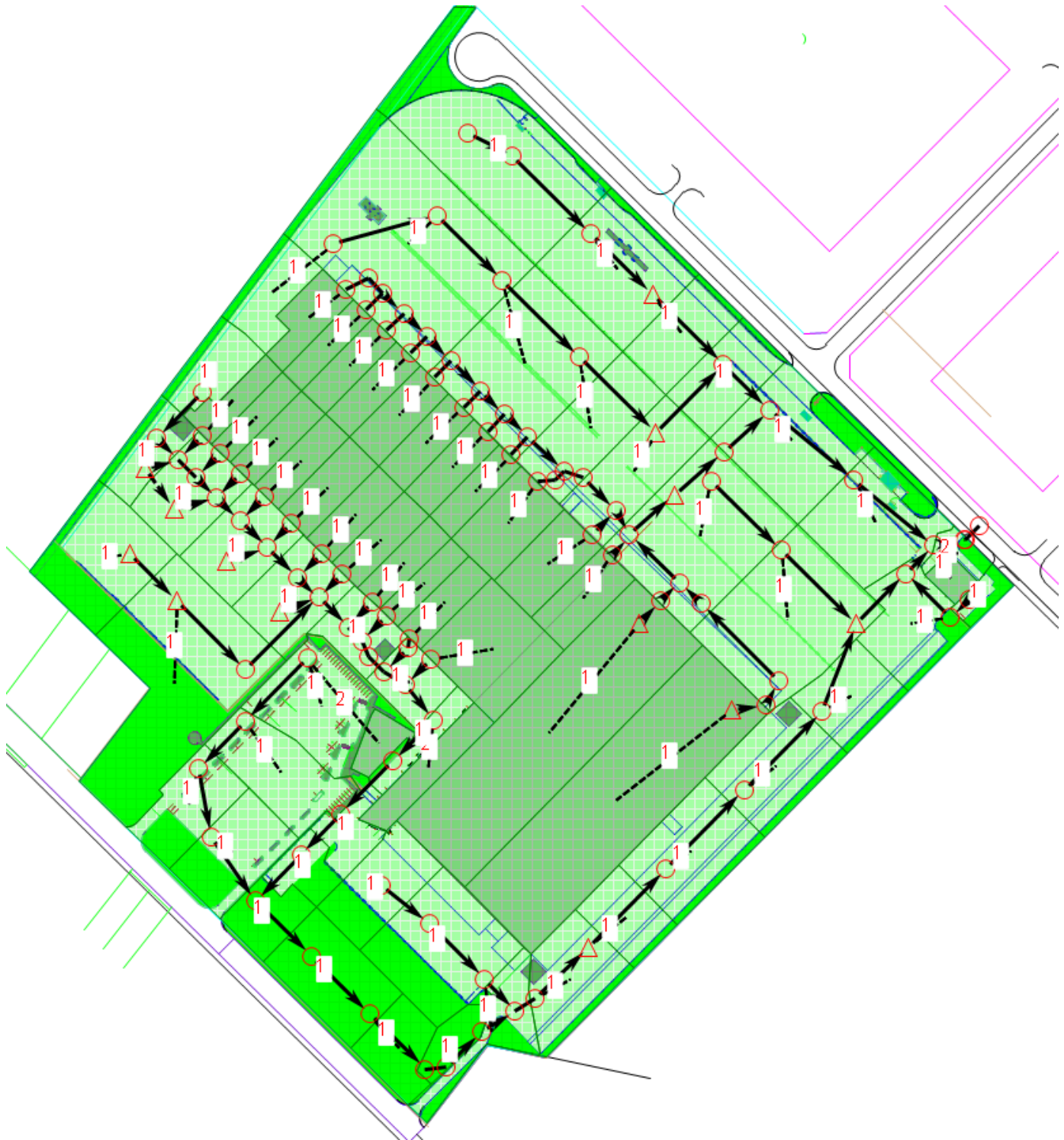


Figure 3 – XPSWMM south half model with node labels



Figure 4 – XPSWMM showing Tributary areas and node links



SUMMARY OF SWM Quantity Control Features:

Refer to Table 3 which summarizes the SWM used for quantity control on the redeveloped Site.

Table 2 – Summary Table of SWMM Quantity Features for Redevelopment Site

NODE OR BLOCK DESCRIPTION	SWMM FEATURE DESCRIPTION	VOLUME REQUIRED 100 year flow (m3)	ORIFICE CONTROL	ORIFICE max head (mm)	PROVIDED STORAGE (m3)
CULTEC 1	Cultec Storage units	919	D/S pipes	N/A	965
CULTEC 2	Cultec Storage units	919	D/S pipes	N/A	965
CULTEC 3	Cultec Storage units	710	D/S pipes	N/A	821
CULTEC 4	Cultec Storage units	1385	D/S pipes	N/A	1494
CULTEC 5	Cultec Storage units	997	D/S pipes	N/A	1016
Roof-1	Roof Control flow	1032	42 L/sec/ha	150	1600
Roof-2	Roof Control flow	1032	42 L/sec/ha	150	1600
CB 1	Surface storage	32	D/S pipes	300	33
CB 2	Surface storage	159	D/S pipes	300	159
CB 3	Surface storage	117	D/S pipes	300	155
CB 4	Surface storage	75	D/S pipes	300	157
STM MH 204	Surface storage	115	D/S pipes	300	335
STM MH 218	Surface storage	196	D/S pipes	300	646

Notes: roof top storage calculated as area of roof/2 x depth to account for slope in a flat roof.
 Maximum depth of storage is 150 mm as per OBC.

Cultic units- volume calculated as per MFG.

Surface volume calculated as per 1/3 area x depth. Area of ponding calculated by Civil 3D.

Table 3 – Outlet flow vs Target Flow

Storm Event	Target Flow from site (L/sec)	Outflow from Site (L/sec)	Target Achieved Yes or No
2 Year, 6 Hour AES	2600	1899	Yes
2 Year, 12 Hour AES	2600	1428	Yes
5 Year, 6 Hour AES	2600	2121	Yes
5 Year, 12 Hour AES	2600	1827	Yes
10 Year, 6 Hour AES	2600	2224	Yes
10 Year, 12 Hour AES	2600	1977	Yes
25 Year, 6 Hour AES	2600	2356	Yes
25 Year, 12 Hour AES	2600	2151	Yes
50 Year, 6 Hour AES	2600	2473	Yes
50 Year, 12 Hour AES	2600	2239	Yes
100 Year, 6 Hour AES	2600	2593	Yes
100 Year, 12 Hour AES	2600	2328	Yes

Refer to the XPSWMM output file in appendix B for full details of the input. In addition to pipe sizes, slopes etc, the output file contains full echo of the input plus output and error continuity.

WATER BALANCE:

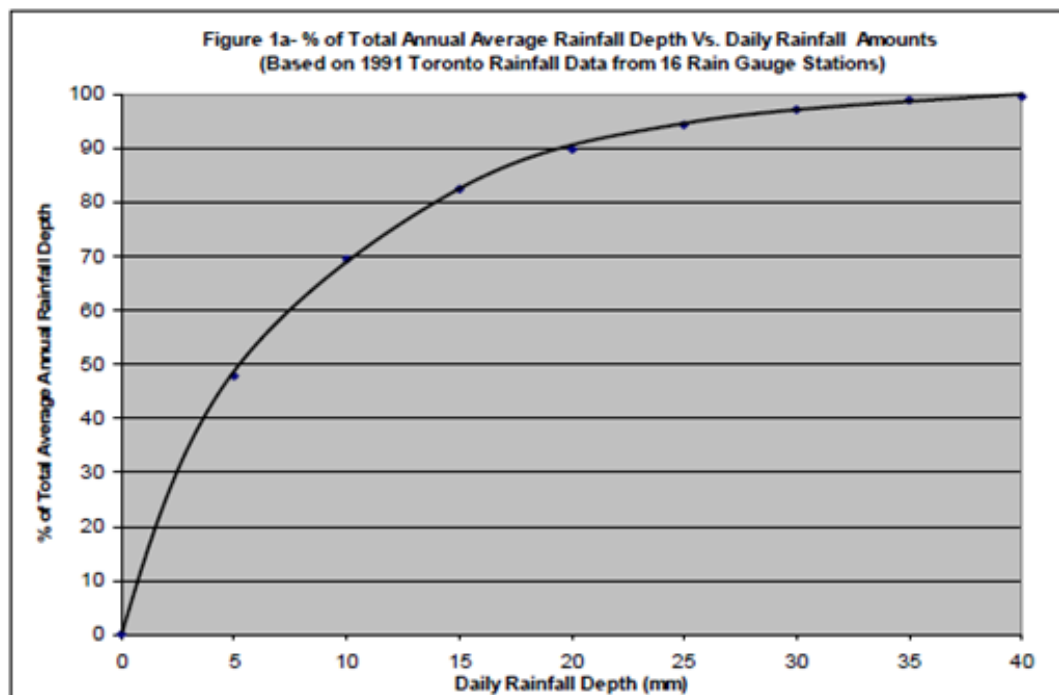
The water balance for the site was provided by Crozier Consulting Engineers in consultation with Toronto Inspections Inc. for the Tullamore Lands subdivision work. The deficit provided is 40,732 m³/year. Correspondence providing this deficit is provided in Appendix C.

To mitigate the site water balance deficit, an underground soak away pit will be provided to infiltrate a portion of the clean roof runoff. The soak away pit has been designed with a volume of 1462 m³ which meets the required volume to meet the water balance requirements.

The total average annual roof capture will be 0.895m. Using the City of Toronto graph in Figure 5 below, it is assumed that 63.4% of precipitation events for the area result in a precipitation of 8mm or less. Using this relationship, the total annual roof runoff which is infiltrated through the soak away pit can be calculated. As shown below, the infiltration of the first 8mm of runoff for a roof area of 71,882m² will provide a recharge rate greater than the pre-development recharge level. A sample calculation of the annual infiltration volume to be infiltrated through the soak away pits is given below.

$$71,882 \text{ m}^2 \times 0.895 \text{ m/a} \times 63.4\% = \mathbf{40,788 \text{ m}^3/\text{a}} \geq 40,732 \text{ m}^3/\text{a} \text{ (deficit)}$$

Figure 5 - City of Toronto – Rainfall Depth Graph



The location and footprint available for infiltration gallery have been identified. See the servicing and grading plans for the soak away pit. The footprint has additionally been sized such that there is a minimum 5m setback from the potential location of any buildings (above- or below-ground) on the adjacent development blocks. The design criteria for infiltration galleries comprises the following factors. The province of Ontario's *Stormwater Management Planning & Design Manual* (2003) provides design criteria for infiltration galleries. The criteria are identified and addressed as follows:

- Underlying groundwater table elevation
- Criteria: the MECP states that the groundwater table elevation should be 1.0m below the bottom of infiltration galleries.
- Design: A Hydrogeological Investigation has been prepared by Toronto Inspection Limited. Groundwater Levels were provided in a series of Monitoring Wells. The well in the closest proximity to the proposed soak away pit is 21BH-18 (MW). The highest recorded groundwater level at this location was 236.67m. The soak away pit has been designed with a bottom elevation of 238.38m. The existing finished grade in this area is 243.75m-242m. Therefore, adequate separation from groundwater has been provided.
- Percolation rate of underlying soils. The MECP states that infiltration galleries should only be proposed where the percolation rate of receiving soils is greater than 15mm/hr. Infiltration gallery footprints are to be designed considering percolation rates. An in-situ percolation test must be performed prior to the soak away pit installation to confirm this.
- Drain down time of infiltration galleries. Criteria: The MECP and TRCA manuals state that infiltration galleries should drain-down in 48 hours following the design storm event.

Refer to the following Soak-away pit template for design details.

SOAK-AWAY PIT CALCULATION TEMPLATE

PROJECT: Tullamore Lands - Caledon ON

PROJECT No. : 21264

Location of soak-away pit: East Parking Lot

		UNIT		DESCRIPTION
				$A = 1,000V / (Pn\Delta t)$
	$d = P\Delta t / 1000$			Where:
d =	0.72 m	P = 15 mm/hr		A = Filter bed surface area (m ²)
		$\Delta t = 48$ hr		V = Water volume (m ³)
		n = 0.40	-	Δt = time to drain (hr)
V =	575 m ³	Atrib runoff = 71882	m ²	n = void space ratio for aggregate used (note: void space ratio of 0.4 to be used)
		8	mm	$d = P\Delta t / 1000$
A =	$1,000V / (Pn\Delta t)$			Where:
Af =	1997 m ² N/A			d = maximum soak-away depth (m)
Af provided =	2030 m ²			P = infiltration rate for native soils (mm/hr)
Vpit req'd =	1438 m ³			Δt = time to drain (hr)
Vpit provided =	1461.6 m ³	L = 58 m		Vpit req'd = V/n
Vwater provided =	585 m ³	W = 35 m		Vpit provided = L x W x d
		d = 0.72 m		L = length of pit (m)
				W = width of pit (m)
				d = depth of pit (m)

The value of 15 mm/hr will be used to evaluate the Site LIDs. See section 6.0 on Soils Report And Hydrogeology.

6. SOILS REPORT

A geotechnical study has been conducted by EXP Services Inc.. The report is titled **“Geotechnical Investigation Project Kentucky Torbram Road Caledon, Ontario”** dated Feb 8, 2022.

A Hydrogeological study has been conducted by Toronto Inspection Ltd.. The Report is titled **“Preliminary Hydrogeological Investigation, Tullamore Lands, 0 & 12245 Torbram Road Caledon, Ontario”** dated June 30, 2021.

7. EROSION AND SEDIMENT CONTROL

Since the new construction will utilize excavation, erosion control must be utilized. Silt fence, multiple silt ponds, interception swales and rock check dams will be incorporated around the site. In order to prevent erosion use of erosion blankets, silt sacks, scarification of exposed soil and use of turbidity curtains within the sediment pond can be utilized. In addition, a mud mat will be utilized at the construction entrance. A plan for erosion and sediment control has been prepared in accordance with Town and current Erosion and Sediment Control Guidelines for Urban Development. See servicing drawings for ESC plan and details.

8. CONCLUSIONS

From our investigation the site is serviceable with sanitary and storm sewers & water supply for domestic and firefighting purposes. There is adequate access from Street B. The site is favourable for the proposed development as shown on the Site Plan.

SUMMARY OF SERVICING

The foregoing report has demonstrated that there are existing mains available to provide sanitary, storm and water service to the subject development.

<i>Table 4 – Summary OF Servicing Information</i>		
Stormwater Management		
	5-Year Storm	100-Year Storm
Allowable Discharge Rate (Stormwater Quantity)	2600	2600
Proposed Discharge Rate (Stormwater Quantity)	2121	2593
Sanitary & Water Servicing		
Total Fire-Domestic Flow Required Site A	193.18 L/s (3061 USgpm)	
Peak Sanitary Discharge Rate (Combined)	11.88 L/sec	

10. REFERENCES:

1. Storm water Management Planning and Design Manual, Ontario Ministry of the Environment, March 2003.
2. **“Town Of Caledon Development Standards, Policies and Guidelines”**, Version 4, January 2009.
3. New Jersey Storm Water Best Management Practices Manual, April 2004.
4. EPA SWMM 5, Build 5.0.022, Manual.
5. **LOW IMPACT DEVELOPMENT STORMWATER MANAGEMENT MANUAL**, 2008, by Credit Valley Conservation Authority and Toronto Region Conservation Authority.
6. **THE EROSION AND SEDIMENTATION CONTROL GUIDELINES FOR URBAN CONSTRUCTION** prepared by the Greater Golden Horseshoe Area Conservation Authorities.
7. **SERVICING AND STORMWATER MANAGEMENT REPORT, DECEMBER 2021**, by C.F. Croziers & Associates Inc.

Respectfully Submitted;
The Odan Detech Group Inc.



John Krpan

John Krpan, M.S.C.E., P.Eng.

Mitch Hillmer

Mitch Hillmer, EIT

July 15, 2022

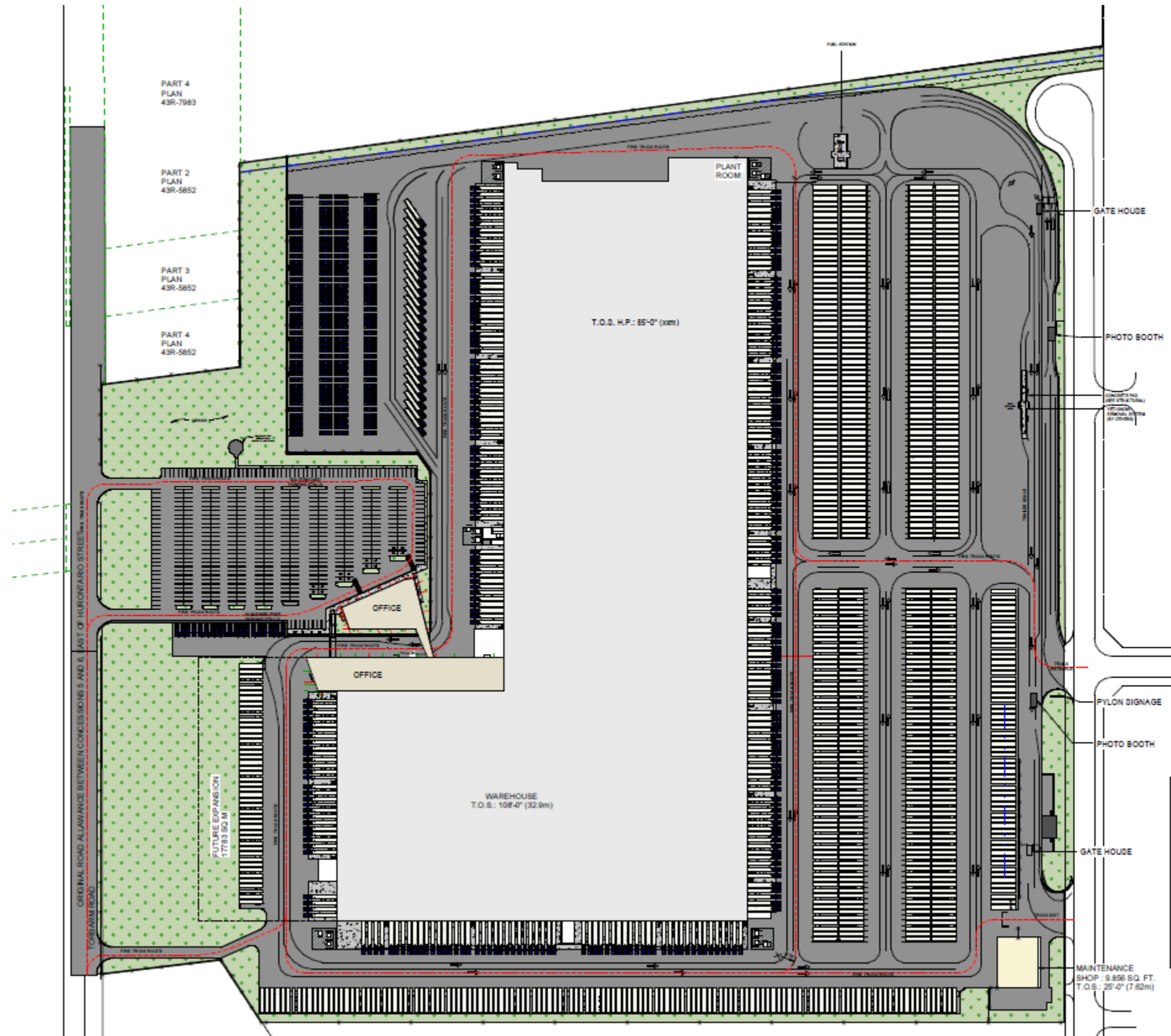
DATE

APPENDIX A

Aerial Photo of Site

Site Plan prepared By Stendel + Reich Architecture





APPENDIX B

Sanitary Usage & Water Demand Calculation (OBC 8.2.1.3)



ODAN-DETECH
CONSULTING ENGINEERS

The Odan/Detech Group Inc.
P: (905) 632-3811
F: (905) 632-3363
5230 SOUTH SERVICE ROAD UNIT 107
BURLINGTON, ONTARIO, L7L 5K2
www.odandetech.com

Sewage System Design Flows (OBC 8.2.1.3)

PROJECT: Tullamore Lands
Caledon, ON

CLIENT: Tullamore Lands
DATE: 7/12/2022
PROJECT No.: 21249
DRAWING REF.:

	A	B	C	D	E	F	G	H	I	J	K
	Floor Area (sq.ft.)	Floor Area (sq.m.)	Establishment Type (OBC 8.2.1.3.B.)	Based on Floor Area	Volume (litres)	Total Volume (litres)	Number of Units (G)	Establishment Type (OBC 8.2.1.3.B.)	Based on Employees/Service Chairs/Patrons (ea.)	Volume (litres) (J)	Volume (litres) (G x I x J)
Office	67993	6320	Office	per 9.3m ² floor area	75	50968					
Warehouse	1176237	109332	Warehouse	per 1.0m ² floor area	0	0	269	Per loading Bay		150	40350
Total Floor Area	1244230	115652	Total Based on Floor Area			50968	Total Based on Person/Hours/Service Chairs				40350
Total Volume (Average per day)											91318
Total Average Flow (L/sec)											1.06

APPENDIX C

Allowable SWM flows – Correspondence - C.F. Crozier & Associates Inc.
West SWM Tributary - Correspondence - C.F. Crozier & Associates Inc.
Water Balance Deficit - Correspondence - C.F. Crozier & Associates Inc.
SWM Analysis – XPSWMM model Output Files
Civil Plans

Mitchell Hillmer - Odan Detech Group

From: Julie Scott <jscott@cfcrozier.ca>
Sent: Wednesday, April 20, 2022 11:00 AM
To: mitchell@odandetech.com; 'Michael Mendes'
Cc: mark@odandetech.com; 'Joe Mucci'; Richard.Gagnier@loblaw.ca; 'Dean Valentinuzzi (LCL)'; 'John McGovern'
Subject: RE: Tullamore Lands - West Tributary

Hi Mitchell,

The allowable release rate for your block, which is 37.5 ha in size, is 2.6 m³/s.

Please let me know if you require anything further. Thanks,

Julie Scott, P.Eng. | Project Manager
211 Yonge Street, Suite 600 | Toronto, ON M5B 1M4
T: 416.477.3392



Crozier Connections: [f](#) [t](#) [in](#) [@](#)

Read our latest news and announcements [here](#).

From: Julie Scott <jscott@cfcrozier.ca>
Sent: Wednesday, March 23, 2022 3:06 PM
To: mitchell@odandetech.com; 'Michael Mendes'
Cc: mark@odandetech.com; 'Joe Mucci'; Richard.Gagnier@loblaw.ca; 'Dean Valentinuzzi (LCL)'
Subject: RE: Tullamore Lands - West Tributary

Hi Mitchell,

We have reviewed the modeling and can confirm that we do not need the rooftop from your Block / building to be directed to the Greenbelt. We only require the smaller Block south of your Block to direct it's rooftops to the Greenbelt.

@'Michael Mendes', it's an obvious question, but I'd like to be 100% sure that your intention is to have the area outlined in red below be developed as a block with an industrial building? We will need this rooftop to be directed to the Greenbelt.



Thanks,

Julie Scott, P.Eng. | Project Manager
211 Yonge Street, Suite 301 | Toronto, ON M5B 1M4
T: 416.477.3392



Mitchell Hillmer - Odan Detech Group

From: Julie Scott <jscott@cfcrozier.ca>
Sent: Tuesday, July 5, 2022 3:56 PM
To: mitchell@odandetech.com
Cc: Isabelle Cleroux
Subject: RE: Tullamore Lands - West Tributary

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Mitchell,

The water balance requirement (infiltration deficit) for the [REDACTED] block = 40,732 m³/year.

Thank you,

Julie Scott, P.Eng. | Project Manager
211 Yonge Street, Suite 600 | Toronto, ON M5B 1M4
T: 416.477.3392



Crozier Connections: [f](#) [t](#) [in](#) [@](#)

Read our latest news and announcements [here](#).

XPSWMM OUTPUT

Current Directory: P:\2021\21264\Design and Reports\Computer Analysis\XPSWMM\1D\DC Kentucky - Caledon_50YR 12HR AES
 Engine Name: C:\PROGRA~1\Innovyze\XPSWMM-2.3_X\engine\SWMMEN~2.EXE
 Input File: P:\2021\21264\Design and Reports\Computer Analysis\XPSWMM\1D\DC Kentucky - Caledon_100YR 6HR AES\DC Kentucky - Caledon_100YR 6HR AES.XP

```

*=====
|                               |
|           xpswmm              |
|   Storm and Wastewater Management Model   |
|           Developed by Innovyze.          |
|=====|
| Last Update      : Sep 09 2021          |
| Interface Version: 2021.3              |
| Engine Version   : 12.0                 |
| Data File Version: 12.62                |
|=====|
  
```

Engine Name: C:\PROGRA~1\Innovyze\XPSWMM-2.3_X\engine\SWMMEN~2.EXE

```

*=====
|           Input and Output file names by Layer           |
|=====|
  
```

```

Input File to Layer #    1 JOT.US
Output File to Layer #   1 JOT.US
Input File to Layer #    2 JOT.US
Output File to Layer #   2 JOT.US
  
```

```

*=====
|           Configuration Parameters                       |
| Configuration Parameters, both those that are hardwired |
| and those added to the simulation are listed below.     |
| Configuration Parameters that start with a $ are set in |
| the engine as defaults. The remaining in UPPERCASE     |
| have been added to the simulation in the Configuration-> |
| Configuration Parameters dialog or as Engine Defaults in |
| the SWMXP.INI file.                                    |
|                                                         |
| Consult the Help File for the specific meaning/purpose   |
| of any particular parameter.                            |
|                                                         |
| Note:                                                    |
| The second column denotes the value of the parameter.  |
|=====|
  
```

\$powerstation	0.0000	1	2
\$perv	0.0000	0	4
\$oldegg	0.0000	0	7
\$as	0.0000	0	11
\$noflat	0.0000	0	21
\$oldomega	0.0000	0	24
\$oldvol	0.0000	1	28
\$implicit	0.0000	1	29
\$oldhot	0.0000	1	31
\$oldscs	0.0000	0	33
\$flood	0.0000	1	40
\$nokeys	0.0000	0	42
\$pzero	0.0000	0	55
\$oldvol2	0.0000	2	59
\$storage2	0.0000	3	62
\$oldhot1	0.0000	1	63
\$pumpwt	0.0000	1	70
\$ecloss	0.0000	1	77
\$sexout	0.0000	0	97
\$spatial = 0.90	0.9000	5	124
\$djref = -1.0	-0.1000	3	143
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\$oldbnd	0.0000	1	154
\$nogrelev	0.0000	1	161
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\$new_n1_97	0.0000	2	290
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\$newbound	0.0000	1	295
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\$zero_value=1.e-05	0.0000	1	415
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```

$channel_geometry=1          0.0000      1      456
PROJUNITS == METRIC        0.0000      0      462

```

```

*-----*
| The XPSWMM/XPSTORM engine internally uses object IDs |
| instead of full object names to represent objects.  |
| Included below is a table of these IDs along with the |
| name of the object that ID corresponds to.          |
*-----*

```

Object ID Number	Object Name
203	STM MH 188
207	STM MH 187
208	STM MH 203
209	STM MH 236
210	STM MH 21
211	STM MH 23
212	STM MH 154
213	STM MH 22
214	CB 6
215	STM MH 227
216	STM MH 132
217	STM MH 116
218	STM MH 221
219	STM MH 35
220	STM MH 36
221	STM MH 118
222	STM MH 34
223	STM MH 121
224	STM MH 120
225	STM MH 117
226	STM MH 119
227	STM MH 20
228	STM MH 37
229	STM MH 40
230	STM MH 86
231	STM MH 115
232	STM MH 87
233	STM MH 223
234	STM MH 220
235	STM MH 205
236	STM MH 128
237	STM MH 127
238	STM MH 122
239	STM MH 123
240	STM MH 126
241	STM MH 125
242	STM MH 124
243	STM MH 129
244	STM MH 133
245	STM MH 170
246	STM MH 38
247	STM MH 18
248	STM MH 218
249	STM MH 131
250	STM MH 219
251	STM MH 17
252	STM MH 39
253	STM MH 153
254	STM MH 204
255	CULTEC 5
256	STM MH 27
257	STM MH 228
258	STM MH 26
259	STM MH 169
260	STM MH 28
261	STM MH 168
262	STM MH 41
263	PROP CB 39
264	STM CBMH 19
265	STM CBMH 250
266	STM MH 134
267	STM MH 135
268	PROP DCB 62
269	STM MH 256
270	STM MH 85
271	CULTEC 1
272	STM MH 82
273	CULTEC 2
274	STM MH 83
275	CAP 23
276	STM MH 142
277	CAP 14
278	CAP 15
279	CAP 16
281	CAP 24
282	CAP 22
283	CAP 21
284	CAP 20
285	CAP 19
286	CAP 18
287	CAP 17
288	CAP 13
289	CAP 12

290 CAP 11
291 CAP 10
292 CAP 9
293 CAP 8
294 CAP 7
295 CAP 6
296 CAP 5
297 CAP 4
298 CAP 3
299 CAP 2
300 CAP 1
301 STM MH 141
302 STM MH 42
303 CULTEC 4
306 STM MH 43
307 STM MH 238
308 STM MH 237
309 STM MH 31
310 STM MH 239
311 STM MH 30
312 STM MH 255
428 Roof 1
429 Roof 2
432 Node117
434 CB 4
435 CB 3
436 CB 2
437 CB1
318 STM - (14) (STORM)
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439 Link117
440 Link118
441 Link119
445 Link122
C(442.2) spill
O(433.1) Orifice 1
D(430.1) Roof Control
D(431.1) Roof Control12

```

```

*****
| Parameter Values on the Tapes Common Block,These are the |
| values read from the data file and dynamically allocated |
| by the model for this simulation. |
*****

```

```

Number of Subcatchments in the Runoff Block (NW).... 69
Number of Channel/Pipes in the Runoff Block (NG).... 0
Runoff Water quality constituents (NRQ)..... 0
Runoff Land Uses per Subcatchment (NLU)..... 0
Number of Elements in the Transport Block (NET)..... 0
Number of Storage Junctions in Transport (NTSE)..... 0
Number of Input Hydrographs in Transport (NTH)..... 0
Number of Elements in the Extran Block (NEE)..... 112
Number of Groundwater Subcatchments in Runoff (NGW).. 0
Number of Interface locations for all Blocks (NIE).. 112
Number of Pumps in Extran (NEP)..... 0
Number of Orifices in Extran (NEO)..... 1
Number of Tide Gates/Free Outfalls in Extran (NTG).. 1
Number of Extran Weirs (NEW)..... 0
Number of scs hydrograph points..... 385
Number of Extran printout locations (NPO)..... 0
Number of Tide elements in Extran (NTE)..... 1
Number of Natural channels (NNC)..... 0
Number of Storage junctions in Extran (NVSE)..... 13
Number of Time history data points in Extran(NTVAL).. 0
Number of Variable storage elements in Extran (NVST) 51
Number of Input Hydrographs in Extran (NEH)..... 0
Number of Particle sizes in Transport Block (NPS)... 0
Number of User defined conduits (NHW)..... 69
Number of Connecting conduits in Extran (NECC)..... 20
Number of Upstream elements in Transport (NTCC)..... 10
Number of Storage/treatment plants (NSTU)..... 1
Number of Values for R1 lines in Transport (NR1).... 0
Number of Nodes to be allowed for (NNOD)..... 112
Number of Plugs in a Storage Treatment Unit..... 1

```

```

#####
# Entry made to the Runoff Layer(Block) of SWMM #
# Last Updated June, 2014 by Innovyze #
#####

```

```

*****
| RUNOFF TABLES IN THE OUTPUT FILE. |
| These are the more important tables in the output file. |
| You can use your editor to find the table numbers, |
| for example: search for Table R3 to check continuity. |
| This output file can be imported into a Word Processor |
| and printed on US letter or A4 paper using portrait |

```

```

| mode, courier font, a size of 8 pt. and margins of 0.75 |
|
| Table R1 - Physical Hydrology Data
| Table R2 - Infiltration data
| Table R3 - Raingage and Infiltration Database Names
| Table R4 - Groundwater Data
| Table R5 - Continuity Check for Surface Water
| Table R6 - Continuity Check for Channels/Pipes
| Table R7 - Continuity Check for Subsurface Water
| Table R8 - Infiltration/Inflow Continuity Check
| Table R9 - Summary Statistics for Subcatchments
| Table R10 - Sensitivity analysis for Subcatchments
|
|*****

```

A1

```

#####
#          RUNOFF JOB CONTROL          #
#####

```

```

Snowmelt parameter - ISNOW..... 0
Number of rain gages - NRGAG..... 1
Quality is not simulated - KWALTY..... 0
Default evaporation rate used - IVAP..... 0
Hour of day at start of storm - NHR..... 0
Minute of hour at start of storm - NMN..... 0
Time TZERO at start of storm (hours)..... 0.000
Use Metric units for I/O - METRIC..... 1
==> Ft-sec units used in all internal computations
Runoff input print control... 0
Runoff graph plot control... 0
Runoff output print control.. 0
Limit number of groundwater convergence messages to 10000

Print headers every 50 lines - NOHEAD (0=yes, 1=no) 0

Print land use load percentages -LANDUPR (0=no, 1=yes) 0
Month, day, year of start of storm is: 1/ 1/2022
Wet time step length (seconds)..... 60.0
Dry time step length (seconds)..... 8600.0
Wet/Dry time step length (seconds)... 60.0
Simulation length is..... 6.0 Hours

```

```

If Horton infiltration model is being used
A mixture of infiltration options may be used in
XP-SWMM as a watershed specific option.
Rate for regeneration of infiltration = REGEN * DECAY
Decay is read in for each subcatchment
REGEN = ..... 0.01000

```

```

Raingage #..... 1
KTYPE - Rainfall input type..... 0
NHISTO - Total number of rainfall values.. 25
KINC - Rainfall values(pairs) per line.. 10
KPRINT - Print rainfall(0=Yes,1-No)..... 0
KTIME - Precipitation time units
0 --> Minutes 1 --> Hours..... 0
KPREP - Precipitation unit type
0 --> Intensity 1 --> Volume..... 0
KTHIS - Variable rainfall intervals
0 --> No, >= 1 --> Yes..... 0
THISTO - Rainfall time interval..... 15.00
TZRAIN - Starting time(KTIME units)..... 0.00

```

```

#####
# Rainfall input summary from Runoff #
#####

```

Total rainfall for gage # 1 is 80.3100 mm

```

#####
#          Data Group Fl          #
# Evaporation Rate (mm/day) #
#####

```

```

JAN. FEB. MAR. APR. MAY JUN. JUL. AUG. SEP. OCT. NOV. DEC.
--- --- --- --- --- --- --- --- --- --- --- ---
3.000 3.000 3.000 3.000 3.000 3.000 3.000 3.000 3.000 3.000 3.000 3.000

```

```

#####
# Table R1. S U B C A T C H M E N T D A T A #
#          Physical Hydrology Data          #
#####

```

Subcatchment Number	Name	Channel or inlet	Width (m)	Area (Ha)	Per- cent Imprv	Slope m/m	"n" Imprv	"n" Perv	Deprs -sion Imprv	Deprs -sion Perv	Prct Zero Deten -tion
1	STM MH 187#1	STM MH 187	52.400	0.73600	90.00	0.020	0.013	0.410	1.000	5.000	25.000
2	STM MH 203#1	STM MH 203	47.600	0.60200	90.00	0.020	0.013	0.410	1.000	5.000	25.000
3	STM MH 236#1	STM MH 236	41.000	0.44800	75.00	0.020	0.013	0.410	1.000	5.000	25.000

4	STM MH 188#1	STM MH 188	44.700	0.53400	70.00	0.020	0.013	0.410	1.000	5.000	25.000
5	CAP 23#1	CAP 23	28.300	0.21300	90.00	0.010	0.013	0.410	1.000	5.000	25.000
6	CAP 14#1	CAP 14	26.800	0.19000	90.00	0.010	0.013	0.410	1.000	5.000	25.000
7	CB 6#1	CB 6	34.500	0.31800	90.00	0.020	0.013	0.410	1.000	5.000	25.000
8	CB1#1	CB1	34.000	0.30900	71.00	0.020	0.013	0.410	1.000	5.000	25.000
9	CB 2#1	CB 2	43.100	0.49500	90.00	0.020	0.013	0.410	1.000	5.000	25.000
10	CAP 15#1	CAP 15	25.900	0.17900	90.00	0.010	0.013	0.410	1.000	5.000	25.000
11	CAP 16#1	CAP 16	28.500	0.21700	90.00	0.010	0.013	0.410	1.000	5.000	25.000
12	CAP 17#1	CAP 17	29.200	0.22700	90.00	0.010	0.013	0.410	1.000	5.000	25.000
13	CAP 18#1	CAP 18	31.900	0.27200	90.00	0.010	0.013	0.410	1.000	5.000	25.000
14	CB 3#1	CB 3	43.200	0.49800	90.00	0.020	0.013	0.410	1.000	5.000	25.000
15	CAP 19#1	CAP 19	29.900	0.23900	90.00	0.010	0.013	0.410	1.000	5.000	25.000
16	CAP 20#1	CAP 20	29.900	0.23900	90.00	0.010	0.013	0.410	1.000	5.000	25.000
17	STM MH 204#1	STM MH 204	53.500	0.76400	59.00	0.020	0.013	0.410	1.000	5.000	25.000
18	STM MH 218#1	STM MH 218	80.600	1.7310	43.00	0.020	0.013	0.410	1.000	5.000	25.000
19	CB 4#1	CB 4	43.100	0.49600	90.00	0.020	0.013	0.410	1.000	5.000	25.000
20	CAP 21#1	CAP 21	27.800	0.20600	90.00	0.010	0.013	0.410	1.000	5.000	25.000
21	STM MH 129#1	STM MH 129	33.400	0.29700	90.00	0.020	0.013	0.410	1.000	5.000	25.000
22	CAP 22#1	CAP 22	25.100	0.16800	90.00	0.010	0.013	0.410	1.000	5.000	25.000
23	STM MH 17#1	STM MH 17	32.300	0.27800	90.00	0.020	0.013	0.410	1.000	5.000	25.000
24	CAP 24#1	CAP 24	51.100	0.69500	90.00	0.010	0.013	0.410	1.000	5.000	25.000
25	STM MH 18#1	STM MH 18	26.800	0.19200	90.00	0.020	0.013	0.410	1.000	5.000	25.000
26	STM CBMH 250#1	STM CBMH 250	29.000	0.22600	90.00	0.020	0.013	0.410	1.000	5.000	25.000
27	STM MH 20#1	STM MH 20	28.100	0.21000	90.00	0.020	0.013	0.410	1.000	5.000	25.000
28	STM MH 21#1	STM MH 21	31.900	0.27200	0.00	0.020	0.013	0.410	1.000	5.000	25.000
29	STM MH 220#1	STM MH 220	48.000	0.61400	0.00	0.020	0.013	0.410	1.000	5.000	25.000
30	STM MH 221#1	STM MH 221	35.400	0.33500	0.00	0.020	0.013	0.410	1.000	5.000	25.000
31	STM MH 23#1	STM MH 23	26.100	0.18200	0.00	0.020	0.013	0.410	1.000	5.000	25.000
32	PROP CB 39#1	PROP CB 39	42.700	0.48700	68.00	0.020	0.013	0.410	1.000	5.000	25.000
33	STM MH 168#1	STM MH 168	58.400	0.91100	66.00	0.020	0.013	0.410	1.000	5.000	25.000
34	STM MH 169#1	STM MH 169	37.800	0.38200	90.00	0.020	0.013	0.410	1.000	5.000	25.000
35	STM MH 153#1	STM MH 153	45.700	0.55700	90.00	0.020	0.013	0.410	1.000	5.000	25.000
36	CULTEC 5#1	CULTEC 5	35.500	0.33700	90.00	0.020	0.013	0.410	1.000	5.000	25.000
37	STM MH 26#1	STM MH 26	50.400	0.67800	90.00	0.020	0.013	0.410	1.000	5.000	25.000
38	STM MH 27#1	STM MH 27	49.200	0.64500	90.00	0.020	0.013	0.410	1.000	5.000	25.000
39	STM MH 28#1	STM MH 28	40.000	0.42700	90.00	0.020	0.013	0.410	1.000	5.000	25.000
40	STM MH 141#1	STM MH 141	68.300	1.2440	90.00	0.020	0.013	0.410	1.000	5.000	25.000
41	STM MH 142#1	STM MH 142	67.700	1.2220	90.00	0.020	0.013	0.410	1.000	5.000	25.000
42	STM MH 237#1	STM MH 237	20.800	0.11500	90.00	0.010	0.013	0.410	1.000	5.000	25.000
43	STM MH 238#1	STM MH 238	44.800	0.53500	90.00	0.020	0.013	0.410	1.000	5.000	25.000
44	STM MH 227#1	STM MH 227	36.400	0.35400	75.00	0.020	0.013	0.410	1.000	5.000	25.000
45	STM MH 228#1	STM MH 228	89.800	2.1490	83.00	0.020	0.013	0.410	1.000	5.000	25.000
46	STM MH 82#1	STM MH 82	68.300	1.2430	90.00	0.020	0.013	0.410	1.000	5.000	25.000
47	STM MH 83#1	STM MH 83	48.300	0.62300	90.00	0.020	0.013	0.410	1.000	5.000	25.000
48	CULTEC 2#1	CULTEC 2	48.300	0.62200	90.00	0.020	0.013	0.410	1.000	5.000	25.000
49	STM MH 134#1	STM MH 134	76.900	1.5770	78.00	0.020	0.013	0.410	1.000	5.000	25.000
50	STM MH 135#1	STM MH 135	57.500	0.88300	90.00	0.020	0.013	0.410	1.000	5.000	25.000
51	CULTEC 1#1	CULTEC 1	40.700	0.44200	90.00	0.020	0.013	0.410	1.000	5.000	25.000
52	STM MH 85#1	STM MH 85	40.700	0.44200	90.00	0.020	0.013	0.410	1.000	5.000	25.000
53	CAP 5#1	CAP 5	39.000	0.40500	90.00	0.010	0.013	0.410	1.000	5.000	25.000
54	CAP 7#1	CAP 7	29.900	0.23800	90.00	0.010	0.013	0.410	1.000	5.000	25.000
55	CAP 9#1	CAP 9	31.900	0.27100	90.00	0.010	0.013	0.410	1.000	5.000	25.000
56	CAP 10#1	CAP 10	29.100	0.22600	90.00	0.010	0.013	0.410	1.000	5.000	25.000
57	CAP 11#1	CAP 11	28.500	0.21600	90.00	0.010	0.013	0.410	1.000	5.000	25.000
58	CAP 13#1	CAP 13	30.400	0.24700	90.00	0.010	0.013	0.410	1.000	5.000	25.000
59	CAP 12#1	CAP 12	25.900	0.17900	90.00	0.010	0.013	0.410	1.000	5.000	25.000
60	CAP 8#1	CAP 8	29.800	0.23700	90.00	0.010	0.013	0.410	1.000	5.000	25.000
61	CAP 6#1	CAP 6	27.700	0.20500	90.00	0.010	0.013	0.410	1.000	5.000	25.000
62	CAP 4#1	CAP 4	36.800	0.36100	90.00	0.010	0.013	0.410	1.000	5.000	25.000
63	Roof 2#1	Roof 2	89.400	2.1310	99.00	0.010	0.013	0.410	1.000	5.000	25.000
64	Roof 1#1	Roof 1	89.400	2.1330	99.00	0.010	0.013	0.410	1.000	5.000	25.000
65	CAP 3#1	CAP 3	33.800	0.30500	90.00	0.010	0.013	0.410	1.000	5.000	25.000
66	STM MH 42#1	STM MH 42	57.600	0.88600	90.00	0.020	0.013	0.410	1.000	5.000	25.000
67	STM MH 43#1	STM MH 43	53.400	0.76000	90.00	0.020	0.013	0.410	1.000	5.000	25.000
68	STM MH 30#1	STM MH 30	18.600	0.92000E-01	99.00	0.010	0.013	0.410	1.000	5.000	25.000
69	STM MH 30#2	STM MH 30	20.200	0.10900	90.00	0.020	0.013	0.410	1.000	5.000	25.000

```

#####
# Table R2. SUBCATCHMENT DATA #
# Infiltration or Time of Concentration Data #
# #
# Infiltration Type Infl #1(#5) Infl #2(#6) Infl #3(#7) Infl #4(#8) #
# SCS -> Comp CN Time Conc Shape Factor Depth or Fraction #
# SBUH -> Comp CN Time Conc N/A N/A #
# Green Ampt -> Suction Hydr Cond Initial MD N/A #
# Horton -> Max Rate Min Rate Decay Rate (1/sec) Max. Infiltr. Volume #
# Proportional -> Constant N/A N/A N/A #
# Initial/Cont Loss -> Initial Continuing N/A N/A #
# Initial/Proportional -> Initial Constant N/A N/A #
# Laurenson Parameters -> B Value Pervious "n" Impervious Cont Exponent #
# Rational Formula -> Tc Method Flow Path Length Flow Path Slope Roughness or Retardance #
# (#1 - #4 is Impervious Data / #5 - #8 is Pervious Data) #
# Rational Formula Tc Method: 1 = Constant #
# 2 = Friend's Equation #
# 3 = Kinematic Wave #
# 4 = Alameda Method #
# 5 = Izzard's Formula #
# 6 = Kerby's Equation #
# 7 = Kirpich's Equation #
# 8 = Bransby Williams Equation #
# 9 = Federal Aviation Authority Equation #
#####

```

Subcatchment	Infl	Infl	Infl	Infl	Infl	Infl	Infl	Infl
--------------	------	------	------	------	------	------	------	------

Number	Name	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8
1	STM MH 187#1	125.000	20.000	0.001					
2	STM MH 203#1	125.000	20.000	0.001					
3	STM MH 236#1	125.000	20.000	0.001					
4	STM MH 188#1	125.000	20.000	0.001					
5	CAP 23#1	75.000	5.000	0.001					
6	CAP 14#1	75.000	5.000	0.001					
7	CB 6#1	125.000	20.000	0.001					
8	CB1#1	125.000	20.000	0.001					
9	CB 2#1	125.000	20.000	0.001					
10	CAP 15#1	75.000	5.000	0.001					
11	CAP 16#1	75.000	5.000	0.001					
12	CAP 17#1	75.000	5.000	0.001					
13	CAP 18#1	75.000	5.000	0.001					
14	CB 3#1	125.000	20.000	0.001					
15	CAP 19#1	75.000	5.000	0.001					
16	CAP 20#1	75.000	5.000	0.001					
17	STM MH 204#1	125.000	20.000	0.001					
18	STM MH 210#1	125.000	20.000	0.001					
19	CB 4#1	125.000	20.000	0.001					
20	CAP 21#1	75.000	5.000	0.001					
21	STM MH 129#1	125.000	20.000	0.001					
22	CAP 22#1	75.000	5.000	0.001					
23	STM MH 17#1	125.000	20.000	0.001					
24	CAP 24#1	75.000	5.000	0.001					
25	STM MH 18#1	125.000	20.000	0.001					
26	STM CBMH 250#1	125.000	20.000	0.001					
27	STM MH 20#1	125.000	20.000	0.001					
28	STM MH 21#1	125.000	20.000	0.001					
29	STM MH 220#1	125.000	20.000	0.001					
30	STM MH 221#1	125.000	20.000	0.001					
31	STM MH 23#1	125.000	20.000	0.001					
32	PROP CB 39#1	125.000	20.000	0.001					
33	STM MH 160#1	125.000	20.000	0.001					
34	STM MH 169#1	125.000	20.000	0.001					
35	STM MH 153#1	125.000	20.000	0.001					
36	CULTEC 5#1	125.000	20.000	0.001					
37	STM MH 26#1	125.000	20.000	0.001					
38	STM MH 27#1	125.000	20.000	0.001					
39	STM MH 28#1	125.000	20.000	0.001					
40	STM MH 141#1	125.000	20.000	0.001					
41	STM MH 142#1	125.000	20.000	0.001					
42	STM MH 237#1	125.000	20.000	0.001					
43	STM MH 238#1	125.000	20.000	0.001					
44	STM MH 227#1	125.000	20.000	0.001					
45	STM MH 228#1	125.000	20.000	0.001					
46	STM MH 82#1	125.000	20.000	0.001					
47	STM MH 83#1	125.000	20.000	0.001					
48	CULTEC 2#1	125.000	20.000	0.001					
49	STM MH 134#1	125.000	20.000	0.001					
50	STM MH 135#1	125.000	20.000	0.001					
51	CULTEC 1#1	125.000	20.000	0.001					
52	STM MH 85#1	125.000	20.000	0.001					
53	CAP 5#1	75.000	5.000	0.001					
54	CAP 7#1	75.000	5.000	0.001					
55	CAP 9#1	75.000	5.000	0.001					
56	CAP 10#1	75.000	5.000	0.001					
57	CAP 11#1	75.000	5.000	0.001					
58	CAP 13#1	75.000	5.000	0.001					
59	CAP 12#1	75.000	5.000	0.001					
60	CAP 8#1	75.000	5.000	0.001					
61	CAP 6#1	75.000	5.000	0.001					
62	CAP 4#1	75.000	5.000	0.001					
63	Roof 2#1	125.000	20.000	0.001					
64	Roof 1#1	125.000	20.000	0.001					
65	CAP 3#1	75.000	5.000	0.001					
66	STM MH 42#1	125.000	20.000	0.001					
67	STM MH 43#1	125.000	20.000	0.001					
68	STM MH 30#1	75.000	5.000	0.001					
69	STM MH 30#2	125.000	20.000	0.001					

Table R3. SUBCATCHMENT DATA #
Rainfall and Infiltration Database Names #
#####

Number	Subcatchment Name	Gage No	Infiltration Type	Routing Type
1	STM MH 187#1	1	Horton	Non-linear reservoir
2	STM MH 203#1	1	Horton	Non-linear reservoir
3	STM MH 236#1	1	Horton	Non-linear reservoir
4	STM MH 188#1	1	Horton	Non-linear reservoir
5	CAP 23#1	1	Horton	Non-linear reservoir
6	CAP 14#1	1	Horton	Non-linear reservoir
7	CB 6#1	1	Horton	Non-linear reservoir
8	CB1#1	1	Horton	Non-linear reservoir
9	CB 2#1	1	Horton	Non-linear reservoir
10	CAP 15#1	1	Horton	Non-linear reservoir
11	CAP 16#1	1	Horton	Non-linear reservoir
12	CAP 17#1	1	Horton	Non-linear reservoir
13	CAP 18#1	1	Horton	Non-linear reservoir
14	CB 3#1	1	Horton	Non-linear reservoir

15	CAP 19#1	1	Horton	Non-linear	reservoir
16	CAP 20#1	1	Horton	Non-linear	reservoir
17	STM MH 204#1	1	Horton	Non-linear	reservoir
18	STM MH 218#1	1	Horton	Non-linear	reservoir
19	CB 4#1	1	Horton	Non-linear	reservoir
20	CAP 21#1	1	Horton	Non-linear	reservoir
21	STM MH 129#1	1	Horton	Non-linear	reservoir
22	CAP 22#1	1	Horton	Non-linear	reservoir
23	STM MH 17#1	1	Horton	Non-linear	reservoir
24	CAP 24#1	1	Horton	Non-linear	reservoir
25	STM MH 18#1	1	Horton	Non-linear	reservoir
26	STM CBMH 250#1	1	Horton	Non-linear	reservoir
27	STM MH 20#1	1	Horton	Non-linear	reservoir
28	STM MH 21#1	1	Horton	Non-linear	reservoir
29	STM MH 220#1	1	Horton	Non-linear	reservoir
30	STM MH 221#1	1	Horton	Non-linear	reservoir
31	STM MH 23#1	1	Horton	Non-linear	reservoir
32	PROP CB 39#1	1	Horton	Non-linear	reservoir
33	STM MH 168#1	1	Horton	Non-linear	reservoir
34	STM MH 169#1	1	Horton	Non-linear	reservoir
35	STM MH 153#1	1	Horton	Non-linear	reservoir
36	CULTEC 5#1	1	Horton	Non-linear	reservoir
37	STM MH 26#1	1	Horton	Non-linear	reservoir
38	STM MH 27#1	1	Horton	Non-linear	reservoir
39	STM MH 28#1	1	Horton	Non-linear	reservoir
40	STM MH 141#1	1	Horton	Non-linear	reservoir
41	STM MH 142#1	1	Horton	Non-linear	reservoir
42	STM MH 237#1	1	Horton	Non-linear	reservoir
43	STM MH 238#1	1	Horton	Non-linear	reservoir
44	STM MH 227#1	1	Horton	Non-linear	reservoir
45	STM MH 228#1	1	Horton	Non-linear	reservoir
46	STM MH 82#1	1	Horton	Non-linear	reservoir
47	STM MH 83#1	1	Horton	Non-linear	reservoir
48	CULTEC 2#1	1	Horton	Non-linear	reservoir
49	STM MH 134#1	1	Horton	Non-linear	reservoir
50	STM MH 135#1	1	Horton	Non-linear	reservoir
51	CULTEC 1#1	1	Horton	Non-linear	reservoir
52	STM MH 85#1	1	Horton	Non-linear	reservoir
53	CAP 5#1	1	Horton	Non-linear	reservoir
54	CAP 7#1	1	Horton	Non-linear	reservoir
55	CAP 9#1	1	Horton	Non-linear	reservoir
56	CAP 10#1	1	Horton	Non-linear	reservoir
57	CAP 11#1	1	Horton	Non-linear	reservoir
58	CAP 13#1	1	Horton	Non-linear	reservoir
59	CAP 12#1	1	Horton	Non-linear	reservoir
60	CAP 8#1	1	Horton	Non-linear	reservoir
61	CAP 6#1	1	Horton	Non-linear	reservoir
62	CAP 4#1	1	Horton	Non-linear	reservoir
63	Roof 2#1	1	Horton	Non-linear	reservoir
64	Roof 1#1	1	Horton	Non-linear	reservoir
65	CAP 3#1	1	Horton	Non-linear	reservoir
66	STM MH 42#1	1	Horton	Non-linear	reservoir
67	STM MH 43#1	1	Horton	Non-linear	reservoir
68	STM MH 30#1	1	Horton	Non-linear	reservoir
69	STM MH 30#2	1	Horton	Non-linear	reservoir

Total Number of Subcatchments... 69
Total Tributary Area (hectares)... 37.26
Impervious Area (hectares)..... 30.66
Pervious Area (hectares)..... 6.60
Total Width (metres)..... 2882.70
Impervious Area (%)..... 82.29

```
#####
# S U B C A T C H M E N T D A T A #
# Default, Ratio values for subcatchment data #
# Used with the calibrate node in the runoff. #
# 1 - width 2 - area 3 - impervious % #
# 4 - slope 5 - imp "n" 6 - perv "n" #
# 7 - imp ds 8 - perv ds 9 - 1st infil #
# 10 - 2nd infil 11 - 3rd infil #
#####
```

Column	1	2	3	4	5	6	7	8	9	10	11
Default	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Ratio	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

```
*****
* Arrangement of Subcatchments and Channel/Pipes *
*****
```

```
Inlet
STM MH 187      No Tributary Channel/Pipes
                Tributary Subareas..... STM MH 187#1
STM MH 203      No Tributary Channel/Pipes
                Tributary Subareas..... STM MH 203#1
STM MH 236      No Tributary Channel/Pipes
                Tributary Subareas..... STM MH 236#1
STM MH 188      No Tributary Channel/Pipes
                Tributary Subareas..... STM MH 188#1
CAP 23          No Tributary Channel/Pipes
                Tributary Subareas..... CAP 23#1
CAP 14          No Tributary Channel/Pipes
```

CB 6 Tributary Subareas..... CAP 14#1
 No Tributary Channel/Pipes
 CB1 Tributary Subareas..... CB 6#1
 No Tributary Channel/Pipes
 CB 2 Tributary Subareas..... CB1#1
 No Tributary Channel/Pipes
 CAP 15 Tributary Subareas..... CB 2#1
 No Tributary Channel/Pipes
 CAP 16 Tributary Subareas..... CAP 15#1
 No Tributary Channel/Pipes
 CAP 17 Tributary Subareas..... CAP 16#1
 No Tributary Channel/Pipes
 CAP 18 Tributary Subareas..... CAP 17#1
 No Tributary Channel/Pipes
 CB 3 Tributary Subareas..... CAP 18#1
 No Tributary Channel/Pipes
 CAP 19 Tributary Subareas..... CB 3#1
 No Tributary Channel/Pipes
 CAP 20 Tributary Subareas..... CAP 19#1
 No Tributary Channel/Pipes
 STM MH 204 Tributary Subareas..... CAP 20#1
 No Tributary Channel/Pipes
 STM MH 218 Tributary Subareas..... STM MH 204#1
 No Tributary Channel/Pipes
 CB 4 Tributary Subareas..... STM MH 218#1
 No Tributary Channel/Pipes
 CAP 21 Tributary Subareas..... CB 4#1
 No Tributary Channel/Pipes
 STM MH 129 Tributary Subareas..... CAP 21#1
 No Tributary Channel/Pipes
 CAP 22 Tributary Subareas..... STM MH 129#1
 No Tributary Channel/Pipes
 STM MH 17 Tributary Subareas..... CAP 22#1
 No Tributary Channel/Pipes
 CAP 24 Tributary Subareas..... STM MH 17#1
 No Tributary Channel/Pipes
 STM MH 18 Tributary Subareas..... CAP 24#1
 No Tributary Channel/Pipes
 STM CBMH 250 Tributary Subareas..... STM MH 18#1
 No Tributary Channel/Pipes
 STM MH 20 Tributary Subareas..... STM CBMH 250#1
 No Tributary Channel/Pipes
 STM MH 21 Tributary Subareas..... STM MH 20#1
 No Tributary Channel/Pipes
 STM MH 220 Tributary Subareas..... STM MH 21#1
 No Tributary Channel/Pipes
 STM MH 221 Tributary Subareas..... STM MH 220#1
 No Tributary Channel/Pipes
 STM MH 23 Tributary Subareas..... STM MH 221#1
 No Tributary Channel/Pipes
 PROP CB 39 Tributary Subareas..... STM MH 23#1
 No Tributary Channel/Pipes
 STM MH 168 Tributary Subareas..... PROP CB 39#1
 No Tributary Channel/Pipes
 STM MH 169 Tributary Subareas..... STM MH 168#1
 No Tributary Channel/Pipes
 STM MH 153 Tributary Subareas..... STM MH 169#1
 No Tributary Channel/Pipes
 CULTEC 5 Tributary Subareas..... STM MH 153#1
 No Tributary Channel/Pipes
 STM MH 26 Tributary Subareas..... CULTEC 5#1
 No Tributary Channel/Pipes
 STM MH 27 Tributary Subareas..... STM MH 26#1
 No Tributary Channel/Pipes
 STM MH 28 Tributary Subareas..... STM MH 27#1
 No Tributary Channel/Pipes
 STM MH 141 Tributary Subareas..... STM MH 28#1
 No Tributary Channel/Pipes
 STM MH 142 Tributary Subareas..... STM MH 141#1
 No Tributary Channel/Pipes
 STM MH 237 Tributary Subareas..... STM MH 142#1
 No Tributary Channel/Pipes
 STM MH 238 Tributary Subareas..... STM MH 237#1
 No Tributary Channel/Pipes
 STM MH 227 Tributary Subareas..... STM MH 238#1
 No Tributary Channel/Pipes
 STM MH 228 Tributary Subareas..... STM MH 227#1
 No Tributary Channel/Pipes
 STM MH 82 Tributary Subareas..... STM MH 228#1
 No Tributary Channel/Pipes
 STM MH 83 Tributary Subareas..... STM MH 82#1
 No Tributary Channel/Pipes
 CULTEC 2 Tributary Subareas..... STM MH 83#1
 No Tributary Channel/Pipes
 STM MH 134 Tributary Subareas..... CULTEC 2#1
 No Tributary Channel/Pipes
 STM MH 135 Tributary Subareas..... STM MH 134#1
 No Tributary Channel/Pipes
 CULTEC 1 Tributary Subareas..... STM MH 135#1
 No Tributary Channel/Pipes
 STM MH 85 Tributary Subareas..... CULTEC 1#1
 No Tributary Channel/Pipes
 CAP 5 Tributary Subareas..... STM MH 85#1
 No Tributary Channel/Pipes
 Tributary Subareas..... CAP 5#1

```

CAP 7      No Tributary Channel/Pipes
           Tributary Subareas..... CAP 7#1
CAP 9      No Tributary Channel/Pipes
           Tributary Subareas..... CAP 9#1
CAP 10     No Tributary Channel/Pipes
           Tributary Subareas..... CAP 10#1
CAP 11     No Tributary Channel/Pipes
           Tributary Subareas..... CAP 11#1
CAP 13     No Tributary Channel/Pipes
           Tributary Subareas..... CAP 13#1
CAP 12     No Tributary Channel/Pipes
           Tributary Subareas..... CAP 12#1
CAP 8      No Tributary Channel/Pipes
           Tributary Subareas..... CAP 8#1
CAP 6      No Tributary Channel/Pipes
           Tributary Subareas..... CAP 6#1
CAP 4      No Tributary Channel/Pipes
           Tributary Subareas..... CAP 4#1
Roof 2     No Tributary Channel/Pipes
           Tributary Subareas..... Roof 2#1
Roof 1     No Tributary Channel/Pipes
           Tributary Subareas..... Roof 1#1
CAP 3      No Tributary Channel/Pipes
           Tributary Subareas..... CAP 3#1
STM MH 42  No Tributary Channel/Pipes
           Tributary Subareas..... STM MH 42#1
STM MH 43  No Tributary Channel/Pipes
           Tributary Subareas..... STM MH 43#1
STM MH 30  No Tributary Channel/Pipes
           Tributary Subareas..... STM MH 30#1 STM MH 30#2

```

```

*****
* Hydrographs will be stored for the following 68 INLETS *
*****

```

```

STM MH 187      STM MH 203      STM MH 236
STM MH 188      CAP 23          CAP 14
CB 6            CB1            CB 2
CAP 15          CAP 16          CAP 17
CAP 18          CB 3            CAP 19
CAP 20          STM MH 204      STM MH 218
CB 4            CAP 21          STM MH 129
CAP 22          STM MH 17       CAP 24
STM MH 18       STM CBMH 250    STM MH 20
STM MH 21       STM MH 220      STM MH 221
STM MH 23       PROP CB 39      STM MH 168
STM MH 169      STM MH 153      CULTEC 5
STM MH 26       STM MH 27       STM MH 28
STM MH 141      STM MH 142      STM MH 237
STM MH 238      STM MH 227      STM MH 228
STM MH 82       STM MH 83       CULTEC 2
STM MH 134      STM MH 135      CULTEC 1
STM MH 85       CAP 5            CAP 7
CAP 9           CAP 10          CAP 11
CAP 13          CAP 12          CAP 8
CAP 6           CAP 4            Roof 2
Roof 1          CAP 3            STM MH 42
STM MH 43       STM MH 30

```

```

*****
* Quality Simulation not included in this run *
*****

```

```

*****
* Precipitation Interface File Summary *
* Number of precipitation station.... 1 *
*****

```

```

Location Station Number
-----
1.          1

```

XXX End of Header Section XXX

```

#####
# Entry made to the HYDRAULIC Layer of XP-SWMM #
# Last Updated in June, 2014 by Innovyze #
#####

#####
# Entry made to the Runoff Layer(Block) of SWMM #
# Last Updated June, 2014 by Innovyze #
#####

```

```

*=====
|          RUNOFF TABLES IN THE OUTPUT FILE.          |
| These are the more important tables in the output file. |
| You can use your editor to find the table numbers, |
| for example: search for Table R3 to check continuity. |
| This output file can be imported into a Word Processor |
| and printed on US letter or A4 paper using portrait |
|

```

```

| mode, courier font, a size of 8 pt. and margins of 0.75 |
|
| Table R1 - Physical Hydrology Data
| Table R2 - Infiltration data
| Table R3 - Raingage and Infiltration Database Names
| Table R4 - Groundwater Data
| Table R5 - Continuity Check for Surface Water
| Table R6 - Continuity Check for Channels/Pipes
| Table R7 - Continuity Check for Subsurface Water
| Table R8 - Infiltration/Inflow Continuity Check
| Table R9 - Summary Statistics for Subcatchments
| Table R10 - Sensitivity analysis for Subcatchments
|
|*****

```

A1

```

#####
#          RUNOFF JOB CONTROL          #
#####

Snowmelt parameter - ISNOW..... 0
Number of rain gages - NRGAG..... 1
Quality is not simulated - KWALTY..... 0
Default evaporation rate used - IVAP..... 0
Hour of day at start of storm - NHR..... 0
Minute of hour at start of storm - NMN..... 0
Time TZERO at start of storm (hours)..... 0.000
Use Metric units for I/O - METRIC..... 1
==> Ft-sec units used in all internal computations
Runoff input print control... 0
Runoff graph plot control... 0
Runoff output print control.. 0
Limit number of groundwater convergence messages to 10000

Print headers every 50 lines - NOHEAD (0=yes, 1=no) 0

Print land use load percentages -LANDUPR (0=no, 1=yes) 0
Month, day, year of start of storm is: 1/ 1/2022
Wet time step length (seconds)..... 60.0
Dry time step length (seconds)..... 8600.0
Wet/Dry time step length (seconds)... 60.0
Simulation length is..... 6.0 Hours

If Horton infiltration model is being used
A mixture of infiltration options may be used in
XP-SWMM as a watershed specific option.
Rate for regeneration of infiltration = REGEN * DECAY
Decay is read in for each subcatchment
REGEN = ..... 0.01000

Raingage #..... 1
KTYPE - Rainfall input type..... 0
NHISTO - Total number of rainfall values.. 25
KINC - Rainfall values(pairs) per line.. 10
KPRINT - Print rainfall(0=Yes,1-No)..... 0
KTIME - Precipitation time units
0 --> Minutes 1 --> Hours..... 0
KPREP - Precipitation unit type
0 --> Intensity 1 --> Volume..... 0
KTHIS - Variable rainfall intervals
0 --> No, >= 1 --> Yes..... 0
THISTO - Rainfall time interval..... 15.00
TZRAIN - Starting time(KTIME units)..... 0.00

```

```

#####
# Rainfall input summary from Runoff #
#####

Total rainfall for gage # 1 is 80.3100 mm

#####
#          Data Group Fl          #
# Evaporation Rate (mm/day) #
#####

JAN. FEB. MAR. APR. MAY JUN. JUL. AUG. SEP. OCT. NOV. DEC.
--- --- --- --- --- --- --- --- --- --- --- ---
3.000 3.000 3.000 3.000 3.000 3.000 3.000 3.000 3.000 3.000 3.000 3.000

```

```

#####
# Table R1. S U B C A T C H M E N T D A T A #
#          Physical Hydrology Data          #
#####

```

Subcatchment Number	Name	Channel or inlet	Width (m)	Area (Ha)	Per-cent Imprv	Slope m/m	"n" Imprv	"n" Perv	Deprs -sion Imprv	Deprs -sion Perv	Prctn Zero Deten -tion
1	STM MH 187#1	STM MH 187	52.400	0.73600	90.00	0.020	0.013	0.410	1.000	5.000	25.000
2	STM MH 203#1	STM MH 203	47.600	0.60200	90.00	0.020	0.013	0.410	1.000	5.000	25.000
3	STM MH 236#1	STM MH 236	41.000	0.44800	75.00	0.020	0.013	0.410	1.000	5.000	25.000

4	STM MH 188#1	STM MH 188	44.700	0.53400	70.00	0.020	0.013	0.410	1.000	5.000	25.000
5	CAP 23#1	CAP 23	28.300	0.21300	90.00	0.010	0.013	0.410	1.000	5.000	25.000
6	CAP 14#1	CAP 14	26.800	0.19000	90.00	0.010	0.013	0.410	1.000	5.000	25.000
7	CB 6#1	CB 6	34.500	0.31800	90.00	0.020	0.013	0.410	1.000	5.000	25.000
8	CB1#1	CB1	34.000	0.30900	71.00	0.020	0.013	0.410	1.000	5.000	25.000
9	CB 2#1	CB 2	43.100	0.49500	90.00	0.020	0.013	0.410	1.000	5.000	25.000
10	CAP 15#1	CAP 15	25.900	0.17900	90.00	0.010	0.013	0.410	1.000	5.000	25.000
11	CAP 16#1	CAP 16	28.500	0.21700	90.00	0.010	0.013	0.410	1.000	5.000	25.000
12	CAP 17#1	CAP 17	29.200	0.22700	90.00	0.010	0.013	0.410	1.000	5.000	25.000
13	CAP 18#1	CAP 18	31.900	0.27200	90.00	0.010	0.013	0.410	1.000	5.000	25.000
14	CB 3#1	CB 3	43.200	0.49800	90.00	0.020	0.013	0.410	1.000	5.000	25.000
15	CAP 19#1	CAP 19	29.900	0.23900	90.00	0.010	0.013	0.410	1.000	5.000	25.000
16	CAP 20#1	CAP 20	29.900	0.23900	90.00	0.010	0.013	0.410	1.000	5.000	25.000
17	STM MH 204#1	STM MH 204	53.500	0.76400	59.00	0.020	0.013	0.410	1.000	5.000	25.000
18	STM MH 218#1	STM MH 218	80.600	1.7310	43.00	0.020	0.013	0.410	1.000	5.000	25.000
19	CB 4#1	CB 4	43.100	0.49600	90.00	0.020	0.013	0.410	1.000	5.000	25.000
20	CAP 21#1	CAP 21	27.800	0.20600	90.00	0.010	0.013	0.410	1.000	5.000	25.000
21	STM MH 129#1	STM MH 129	33.400	0.29700	90.00	0.020	0.013	0.410	1.000	5.000	25.000
22	CAP 22#1	CAP 22	25.100	0.16800	90.00	0.010	0.013	0.410	1.000	5.000	25.000
23	STM MH 17#1	STM MH 17	32.300	0.27800	90.00	0.020	0.013	0.410	1.000	5.000	25.000
24	CAP 24#1	CAP 24	51.100	0.69500	90.00	0.010	0.013	0.410	1.000	5.000	25.000
25	STM MH 18#1	STM MH 18	26.800	0.19200	90.00	0.020	0.013	0.410	1.000	5.000	25.000
26	STM CBMH 250#1	STM CBMH 250	29.000	0.22600	90.00	0.020	0.013	0.410	1.000	5.000	25.000
27	STM MH 20#1	STM MH 20	28.100	0.21000	90.00	0.020	0.013	0.410	1.000	5.000	25.000
28	STM MH 21#1	STM MH 21	31.900	0.27200	0.00	0.020	0.013	0.410	1.000	5.000	25.000
29	STM MH 220#1	STM MH 220	48.000	0.61400	0.00	0.020	0.013	0.410	1.000	5.000	25.000
30	STM MH 221#1	STM MH 221	35.400	0.33500	0.00	0.020	0.013	0.410	1.000	5.000	25.000
31	STM MH 23#1	STM MH 23	26.100	0.18200	0.00	0.020	0.013	0.410	1.000	5.000	25.000
32	PROP CB 39#1	PROP CB 39	42.700	0.48700	68.00	0.020	0.013	0.410	1.000	5.000	25.000
33	STM MH 168#1	STM MH 168	58.400	0.91100	66.00	0.020	0.013	0.410	1.000	5.000	25.000
34	STM MH 169#1	STM MH 169	37.800	0.38200	90.00	0.020	0.013	0.410	1.000	5.000	25.000
35	STM MH 153#1	STM MH 153	45.700	0.55700	90.00	0.020	0.013	0.410	1.000	5.000	25.000
36	CULTEC 5#1	CULTEC 5	35.500	0.33700	90.00	0.020	0.013	0.410	1.000	5.000	25.000
37	STM MH 26#1	STM MH 26	50.400	0.67800	90.00	0.020	0.013	0.410	1.000	5.000	25.000
38	STM MH 27#1	STM MH 27	49.200	0.64500	90.00	0.020	0.013	0.410	1.000	5.000	25.000
39	STM MH 28#1	STM MH 28	40.000	0.42700	90.00	0.020	0.013	0.410	1.000	5.000	25.000
40	STM MH 141#1	STM MH 141	68.300	1.2440	90.00	0.020	0.013	0.410	1.000	5.000	25.000
41	STM MH 142#1	STM MH 142	67.700	1.2220	90.00	0.020	0.013	0.410	1.000	5.000	25.000
42	STM MH 237#1	STM MH 237	20.800	0.11500	90.00	0.010	0.013	0.410	1.000	5.000	25.000
43	STM MH 238#1	STM MH 238	44.800	0.53500	90.00	0.020	0.013	0.410	1.000	5.000	25.000
44	STM MH 227#1	STM MH 227	36.400	0.35400	75.00	0.020	0.013	0.410	1.000	5.000	25.000
45	STM MH 228#1	STM MH 228	89.800	2.1490	83.00	0.020	0.013	0.410	1.000	5.000	25.000
46	STM MH 82#1	STM MH 82	68.300	1.2430	90.00	0.020	0.013	0.410	1.000	5.000	25.000
47	STM MH 83#1	STM MH 83	48.300	0.62300	90.00	0.020	0.013	0.410	1.000	5.000	25.000
48	CULTEC 2#1	CULTEC 2	48.300	0.62200	90.00	0.020	0.013	0.410	1.000	5.000	25.000
49	STM MH 134#1	STM MH 134	76.900	1.5770	78.00	0.020	0.013	0.410	1.000	5.000	25.000
50	STM MH 135#1	STM MH 135	57.500	0.88300	90.00	0.020	0.013	0.410	1.000	5.000	25.000
51	CULTEC 1#1	CULTEC 1	40.700	0.44200	90.00	0.020	0.013	0.410	1.000	5.000	25.000
52	STM MH 85#1	STM MH 85	40.700	0.44200	90.00	0.020	0.013	0.410	1.000	5.000	25.000
53	CAP 5#1	CAP 5	39.000	0.40500	90.00	0.010	0.013	0.410	1.000	5.000	25.000
54	CAP 7#1	CAP 7	29.900	0.23800	90.00	0.010	0.013	0.410	1.000	5.000	25.000
55	CAP 9#1	CAP 9	31.900	0.27100	90.00	0.010	0.013	0.410	1.000	5.000	25.000
56	CAP 10#1	CAP 10	29.100	0.22600	90.00	0.010	0.013	0.410	1.000	5.000	25.000
57	CAP 11#1	CAP 11	28.500	0.21600	90.00	0.010	0.013	0.410	1.000	5.000	25.000
58	CAP 13#1	CAP 13	30.400	0.24700	90.00	0.010	0.013	0.410	1.000	5.000	25.000
59	CAP 12#1	CAP 12	25.900	0.17900	90.00	0.010	0.013	0.410	1.000	5.000	25.000
60	CAP 8#1	CAP 8	29.800	0.23700	90.00	0.010	0.013	0.410	1.000	5.000	25.000
61	CAP 6#1	CAP 6	27.700	0.20500	90.00	0.010	0.013	0.410	1.000	5.000	25.000
62	CAP 4#1	CAP 4	36.800	0.36100	90.00	0.010	0.013	0.410	1.000	5.000	25.000
63	Roof 2#1	Roof 2	89.400	2.1310	99.00	0.010	0.013	0.410	1.000	5.000	25.000
64	Roof 1#1	Roof 1	89.400	2.1330	99.00	0.010	0.013	0.410	1.000	5.000	25.000
65	CAP 3#1	CAP 3	33.800	0.30500	90.00	0.010	0.013	0.410	1.000	5.000	25.000
66	STM MH 42#1	STM MH 42	57.600	0.88600	90.00	0.020	0.013	0.410	1.000	5.000	25.000
67	STM MH 43#1	STM MH 43	53.400	0.76000	90.00	0.020	0.013	0.410	1.000	5.000	25.000
68	STM MH 30#1	STM MH 30	18.600	0.92000E-01	99.00	0.010	0.013	0.410	1.000	5.000	25.000
69	STM MH 30#2	STM MH 30	20.200	0.10900	90.00	0.020	0.013	0.410	1.000	5.000	25.000

```

#####
# Table R2. SUBCATCHMENT DATA #
# Infiltration or Time of Concentration Data #
# #
# Infiltration Type Infl #1(#5) Infl #2(#6) Infl #3(#7) Infl #4(#8) #
# SCS -> Comp CN Time Conc Shape Factor Depth or Fraction #
# SBUH -> Comp CN Time Conc N/A N/A #
# Green Ampt -> Suction Hydr Cond Initial MD N/A #
# Horton -> Max Rate Min Rate Decay Rate (1/sec) Max. Infiltr. Volume #
# Proportional -> Constant N/A N/A N/A #
# Initial/Cont Loss -> Initial Continuing N/A N/A #
# Initial/Proportional -> Initial Constant N/A N/A #
# Laurenson Parameters -> B Value Pervious "n" Impervious Cont Exponent #
# Rational Formula -> Tc Method Flow Path Length Flow Path Slope Roughness or Retardance #
# (#1 - #4 is Impervious Data / #5 - #8 is Pervious Data) #
# Rational Formula Tc Method: 1 = Constant #
# 2 = Friend's Equation #
# 3 = Kinematic Wave #
# 4 = Alameda Method #
# 5 = Izzard's Formula #
# 6 = Kerby's Equation #
# 7 = Kirpich's Equation #
# 8 = Bransby Williams Equation #
# 9 = Federal Aviation Authority Equation #
#####

```

Subcatchment	Infl	Infl	Infl	Infl	Infl	Infl	Infl	Infl
--------------	------	------	------	------	------	------	------	------

Number	Name	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8
1	STM MH 187#1	125.000	20.000	0.001					
2	STM MH 203#1	125.000	20.000	0.001					
3	STM MH 236#1	125.000	20.000	0.001					
4	STM MH 188#1	125.000	20.000	0.001					
5	CAP 23#1	75.000	5.000	0.001					
6	CAP 14#1	75.000	5.000	0.001					
7	CB 6#1	125.000	20.000	0.001					
8	CB1#1	125.000	20.000	0.001					
9	CB 2#1	125.000	20.000	0.001					
10	CAP 15#1	75.000	5.000	0.001					
11	CAP 16#1	75.000	5.000	0.001					
12	CAP 17#1	75.000	5.000	0.001					
13	CAP 18#1	75.000	5.000	0.001					
14	CB 3#1	125.000	20.000	0.001					
15	CAP 19#1	75.000	5.000	0.001					
16	CAP 20#1	75.000	5.000	0.001					
17	STM MH 204#1	125.000	20.000	0.001					
18	STM MH 210#1	125.000	20.000	0.001					
19	CB 4#1	125.000	20.000	0.001					
20	CAP 21#1	75.000	5.000	0.001					
21	STM MH 129#1	125.000	20.000	0.001					
22	CAP 22#1	75.000	5.000	0.001					
23	STM MH 17#1	125.000	20.000	0.001					
24	CAP 24#1	75.000	5.000	0.001					
25	STM MH 18#1	125.000	20.000	0.001					
26	STM CBMH 250#1	125.000	20.000	0.001					
27	STM MH 20#1	125.000	20.000	0.001					
28	STM MH 21#1	125.000	20.000	0.001					
29	STM MH 220#1	125.000	20.000	0.001					
30	STM MH 221#1	125.000	20.000	0.001					
31	STM MH 23#1	125.000	20.000	0.001					
32	PROP CB 39#1	125.000	20.000	0.001					
33	STM MH 160#1	125.000	20.000	0.001					
34	STM MH 169#1	125.000	20.000	0.001					
35	STM MH 153#1	125.000	20.000	0.001					
36	CULTEC 5#1	125.000	20.000	0.001					
37	STM MH 26#1	125.000	20.000	0.001					
38	STM MH 27#1	125.000	20.000	0.001					
39	STM MH 28#1	125.000	20.000	0.001					
40	STM MH 141#1	125.000	20.000	0.001					
41	STM MH 142#1	125.000	20.000	0.001					
42	STM MH 237#1	125.000	20.000	0.001					
43	STM MH 238#1	125.000	20.000	0.001					
44	STM MH 227#1	125.000	20.000	0.001					
45	STM MH 228#1	125.000	20.000	0.001					
46	STM MH 82#1	125.000	20.000	0.001					
47	STM MH 83#1	125.000	20.000	0.001					
48	CULTEC 2#1	125.000	20.000	0.001					
49	STM MH 134#1	125.000	20.000	0.001					
50	STM MH 135#1	125.000	20.000	0.001					
51	CULTEC 1#1	125.000	20.000	0.001					
52	STM MH 85#1	125.000	20.000	0.001					
53	CAP 5#1	75.000	5.000	0.001					
54	CAP 7#1	75.000	5.000	0.001					
55	CAP 9#1	75.000	5.000	0.001					
56	CAP 10#1	75.000	5.000	0.001					
57	CAP 11#1	75.000	5.000	0.001					
58	CAP 13#1	75.000	5.000	0.001					
59	CAP 12#1	75.000	5.000	0.001					
60	CAP 8#1	75.000	5.000	0.001					
61	CAP 6#1	75.000	5.000	0.001					
62	CAP 4#1	75.000	5.000	0.001					
63	Roof 2#1	125.000	20.000	0.001					
64	Roof 1#1	125.000	20.000	0.001					
65	CAP 3#1	75.000	5.000	0.001					
66	STM MH 42#1	125.000	20.000	0.001					
67	STM MH 43#1	125.000	20.000	0.001					
68	STM MH 30#1	75.000	5.000	0.001					
69	STM MH 30#2	125.000	20.000	0.001					

Table R3. SUBCATCHMENT DATA #
Rainfall and Infiltration Database Names #
#####

Number	Subcatchment Name	Gage No	Infiltration Type	Routing Type
1	STM MH 187#1	1	Horton	Non-linear reservoir
2	STM MH 203#1	1	Horton	Non-linear reservoir
3	STM MH 236#1	1	Horton	Non-linear reservoir
4	STM MH 188#1	1	Horton	Non-linear reservoir
5	CAP 23#1	1	Horton	Non-linear reservoir
6	CAP 14#1	1	Horton	Non-linear reservoir
7	CB 6#1	1	Horton	Non-linear reservoir
8	CB1#1	1	Horton	Non-linear reservoir
9	CB 2#1	1	Horton	Non-linear reservoir
10	CAP 15#1	1	Horton	Non-linear reservoir
11	CAP 16#1	1	Horton	Non-linear reservoir
12	CAP 17#1	1	Horton	Non-linear reservoir
13	CAP 18#1	1	Horton	Non-linear reservoir
14	CB 3#1	1	Horton	Non-linear reservoir

15	CAP 19#1	1	Horton	Non-linear	reservoir
16	CAP 20#1	1	Horton	Non-linear	reservoir
17	STM MH 204#1	1	Horton	Non-linear	reservoir
18	STM MH 218#1	1	Horton	Non-linear	reservoir
19	CB 4#1	1	Horton	Non-linear	reservoir
20	CAP 21#1	1	Horton	Non-linear	reservoir
21	STM MH 129#1	1	Horton	Non-linear	reservoir
22	CAP 22#1	1	Horton	Non-linear	reservoir
23	STM MH 17#1	1	Horton	Non-linear	reservoir
24	CAP 24#1	1	Horton	Non-linear	reservoir
25	STM MH 18#1	1	Horton	Non-linear	reservoir
26	STM CBMH 250#1	1	Horton	Non-linear	reservoir
27	STM MH 20#1	1	Horton	Non-linear	reservoir
28	STM MH 21#1	1	Horton	Non-linear	reservoir
29	STM MH 220#1	1	Horton	Non-linear	reservoir
30	STM MH 221#1	1	Horton	Non-linear	reservoir
31	STM MH 23#1	1	Horton	Non-linear	reservoir
32	PROP CB 39#1	1	Horton	Non-linear	reservoir
33	STM MH 168#1	1	Horton	Non-linear	reservoir
34	STM MH 169#1	1	Horton	Non-linear	reservoir
35	STM MH 153#1	1	Horton	Non-linear	reservoir
36	CULTEC 5#1	1	Horton	Non-linear	reservoir
37	STM MH 26#1	1	Horton	Non-linear	reservoir
38	STM MH 27#1	1	Horton	Non-linear	reservoir
39	STM MH 28#1	1	Horton	Non-linear	reservoir
40	STM MH 141#1	1	Horton	Non-linear	reservoir
41	STM MH 142#1	1	Horton	Non-linear	reservoir
42	STM MH 237#1	1	Horton	Non-linear	reservoir
43	STM MH 238#1	1	Horton	Non-linear	reservoir
44	STM MH 227#1	1	Horton	Non-linear	reservoir
45	STM MH 228#1	1	Horton	Non-linear	reservoir
46	STM MH 82#1	1	Horton	Non-linear	reservoir
47	STM MH 83#1	1	Horton	Non-linear	reservoir
48	CULTEC 2#1	1	Horton	Non-linear	reservoir
49	STM MH 134#1	1	Horton	Non-linear	reservoir
50	STM MH 135#1	1	Horton	Non-linear	reservoir
51	CULTEC 1#1	1	Horton	Non-linear	reservoir
52	STM MH 85#1	1	Horton	Non-linear	reservoir
53	CAP 5#1	1	Horton	Non-linear	reservoir
54	CAP 7#1	1	Horton	Non-linear	reservoir
55	CAP 9#1	1	Horton	Non-linear	reservoir
56	CAP 10#1	1	Horton	Non-linear	reservoir
57	CAP 11#1	1	Horton	Non-linear	reservoir
58	CAP 13#1	1	Horton	Non-linear	reservoir
59	CAP 12#1	1	Horton	Non-linear	reservoir
60	CAP 8#1	1	Horton	Non-linear	reservoir
61	CAP 6#1	1	Horton	Non-linear	reservoir
62	CAP 4#1	1	Horton	Non-linear	reservoir
63	Roof 2#1	1	Horton	Non-linear	reservoir
64	Roof 1#1	1	Horton	Non-linear	reservoir
65	CAP 3#1	1	Horton	Non-linear	reservoir
66	STM MH 42#1	1	Horton	Non-linear	reservoir
67	STM MH 43#1	1	Horton	Non-linear	reservoir
68	STM MH 30#1	1	Horton	Non-linear	reservoir
69	STM MH 30#2	1	Horton	Non-linear	reservoir

Total Number of Subcatchments... 69
Total Tributary Area (hectares)... 37.26
Impervious Area (hectares)..... 30.66
Pervious Area (hectares)..... 6.60
Total Width (metres)..... 2882.70
Impervious Area (%)..... 82.29

```
#####
# S U B C A T C H M E N T D A T A #
# Default, Ratio values for subcatchment data #
# Used with the calibrate node in the runoff. #
# 1 - width 2 - area 3 - impervious % #
# 4 - slope 5 - imp "n" 6 - perv "n" #
# 7 - imp ds 8 - perv ds 9 - 1st infil #
# 10 - 2nd infil 11 - 3rd infil #
#####
```

Column	1	2	3	4	5	6	7	8	9	10	11
Default	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Ratio	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

```
*****
* Arrangement of Subcatchments and Channel/Pipes *
*****
```

```
Inlet
STM MH 187      No Tributary Channel/Pipes
                Tributary Subareas..... STM MH 187#1
STM MH 203      No Tributary Channel/Pipes
                Tributary Subareas..... STM MH 203#1
STM MH 236      No Tributary Channel/Pipes
                Tributary Subareas..... STM MH 236#1
STM MH 188      No Tributary Channel/Pipes
                Tributary Subareas..... STM MH 188#1
CAP 23          No Tributary Channel/Pipes
                Tributary Subareas..... CAP 23#1
CAP 14          No Tributary Channel/Pipes
```

CB 6 Tributary Subareas..... CAP 14#1
 No Tributary Channel/Pipes
 CB1 Tributary Subareas..... CB 6#1
 No Tributary Channel/Pipes
 CB 2 Tributary Subareas..... CB1#1
 No Tributary Channel/Pipes
 CAP 15 Tributary Subareas..... CB 2#1
 No Tributary Channel/Pipes
 CAP 16 Tributary Subareas..... CAP 15#1
 No Tributary Channel/Pipes
 CAP 17 Tributary Subareas..... CAP 16#1
 No Tributary Channel/Pipes
 CAP 18 Tributary Subareas..... CAP 17#1
 No Tributary Channel/Pipes
 CB 3 Tributary Subareas..... CAP 18#1
 No Tributary Channel/Pipes
 CAP 19 Tributary Subareas..... CB 3#1
 No Tributary Channel/Pipes
 CAP 20 Tributary Subareas..... CAP 19#1
 No Tributary Channel/Pipes
 STM MH 204 Tributary Subareas..... CAP 20#1
 No Tributary Channel/Pipes
 STM MH 218 Tributary Subareas..... STM MH 204#1
 No Tributary Channel/Pipes
 CB 4 Tributary Subareas..... STM MH 218#1
 No Tributary Channel/Pipes
 CAP 21 Tributary Subareas..... CB 4#1
 No Tributary Channel/Pipes
 STM MH 129 Tributary Subareas..... CAP 21#1
 No Tributary Channel/Pipes
 CAP 22 Tributary Subareas..... STM MH 129#1
 No Tributary Channel/Pipes
 STM MH 17 Tributary Subareas..... CAP 22#1
 No Tributary Channel/Pipes
 CAP 24 Tributary Subareas..... STM MH 17#1
 No Tributary Channel/Pipes
 STM MH 18 Tributary Subareas..... CAP 24#1
 No Tributary Channel/Pipes
 STM CBMH 250 Tributary Subareas..... STM MH 18#1
 No Tributary Channel/Pipes
 STM MH 20 Tributary Subareas..... STM CBMH 250#1
 No Tributary Channel/Pipes
 STM MH 21 Tributary Subareas..... STM MH 20#1
 No Tributary Channel/Pipes
 STM MH 220 Tributary Subareas..... STM MH 21#1
 No Tributary Channel/Pipes
 STM MH 221 Tributary Subareas..... STM MH 220#1
 No Tributary Channel/Pipes
 STM MH 23 Tributary Subareas..... STM MH 221#1
 No Tributary Channel/Pipes
 PROP CB 39 Tributary Subareas..... STM MH 23#1
 No Tributary Channel/Pipes
 STM MH 168 Tributary Subareas..... PROP CB 39#1
 No Tributary Channel/Pipes
 STM MH 169 Tributary Subareas..... STM MH 168#1
 No Tributary Channel/Pipes
 STM MH 153 Tributary Subareas..... STM MH 169#1
 No Tributary Channel/Pipes
 CULTEC 5 Tributary Subareas..... STM MH 153#1
 No Tributary Channel/Pipes
 STM MH 26 Tributary Subareas..... CULTEC 5#1
 No Tributary Channel/Pipes
 STM MH 27 Tributary Subareas..... STM MH 26#1
 No Tributary Channel/Pipes
 STM MH 28 Tributary Subareas..... STM MH 27#1
 No Tributary Channel/Pipes
 STM MH 141 Tributary Subareas..... STM MH 28#1
 No Tributary Channel/Pipes
 STM MH 142 Tributary Subareas..... STM MH 141#1
 No Tributary Channel/Pipes
 STM MH 237 Tributary Subareas..... STM MH 142#1
 No Tributary Channel/Pipes
 STM MH 238 Tributary Subareas..... STM MH 237#1
 No Tributary Channel/Pipes
 STM MH 227 Tributary Subareas..... STM MH 238#1
 No Tributary Channel/Pipes
 STM MH 228 Tributary Subareas..... STM MH 227#1
 No Tributary Channel/Pipes
 STM MH 82 Tributary Subareas..... STM MH 228#1
 No Tributary Channel/Pipes
 STM MH 83 Tributary Subareas..... STM MH 82#1
 No Tributary Channel/Pipes
 CULTEC 2 Tributary Subareas..... STM MH 83#1
 No Tributary Channel/Pipes
 STM MH 134 Tributary Subareas..... CULTEC 2#1
 No Tributary Channel/Pipes
 STM MH 135 Tributary Subareas..... STM MH 134#1
 No Tributary Channel/Pipes
 CULTEC 1 Tributary Subareas..... STM MH 135#1
 No Tributary Channel/Pipes
 STM MH 85 Tributary Subareas..... CULTEC 1#1
 No Tributary Channel/Pipes
 CAP 5 Tributary Subareas..... STM MH 85#1
 No Tributary Channel/Pipes
 Tributary Subareas..... CAP 5#1

CAP 7 No Tributary Channel/Pipes
 Tributary Subareas..... CAP 7#1
 CAP 9 No Tributary Channel/Pipes
 Tributary Subareas..... CAP 9#1
 CAP 10 No Tributary Channel/Pipes
 Tributary Subareas..... CAP 10#1
 CAP 11 No Tributary Channel/Pipes
 Tributary Subareas..... CAP 11#1
 CAP 13 No Tributary Channel/Pipes
 Tributary Subareas..... CAP 13#1
 CAP 12 No Tributary Channel/Pipes
 Tributary Subareas..... CAP 12#1
 CAP 8 No Tributary Channel/Pipes
 Tributary Subareas..... CAP 8#1
 CAP 6 No Tributary Channel/Pipes
 Tributary Subareas..... CAP 6#1
 CAP 4 No Tributary Channel/Pipes
 Tributary Subareas..... CAP 4#1
 Roof 2 No Tributary Channel/Pipes
 Tributary Subareas..... Roof 2#1
 Roof 1 No Tributary Channel/Pipes
 Tributary Subareas..... Roof 1#1
 CAP 3 No Tributary Channel/Pipes
 Tributary Subareas..... CAP 3#1
 STM MH 42 No Tributary Channel/Pipes
 Tributary Subareas..... STM MH 42#1
 STM MH 43 No Tributary Channel/Pipes
 Tributary Subareas..... STM MH 43#1
 STM MH 30 No Tributary Channel/Pipes
 Tributary Subareas..... STM MH 30#1 STM MH 30#2

 * Hydrographs will be stored for the following 68 INLETS *

STM MH 187	STM MH 203	STM MH 236
STM MH 188	CAP 23	CAP 14
CB 6	CB1	CB 2
CAP 15	CAP 16	CAP 17
CAP 18	CB 3	CAP 19
CAP 20	STM MH 204	STM MH 218
CB 4	CAP 21	STM MH 129
CAP 22	STM MH 17	CAP 24
STM MH 18	STM CBMH 250	STM MH 20
STM MH 21	STM MH 220	STM MH 221
STM MH 23	PROP CB 39	STM MH 168
STM MH 169	STM MH 153	CULTEC 5
STM MH 26	STM MH 27	STM MH 28
STM MH 141	STM MH 142	STM MH 237
STM MH 238	STM MH 227	STM MH 228
STM MH 82	STM MH 83	CULTEC 2
STM MH 134	STM MH 135	CULTEC 1
STM MH 85	CAP 5	CAP 7
CAP 9	CAP 10	CAP 11
CAP 13	CAP 12	CAP 8
CAP 6	CAP 4	Roof 2
Roof 1	CAP 3	STM MH 42
STM MH 43	STM MH 30	

 * Quality Simulation not included in this run *

 * Precipitation Interface File Summary *
 * Number of precipitation station.... 1 *

Location Station Number

 1. 1

A1

=====
 | HYDRAULICS TABLES IN THE OUTPUT FILE |
 | These are the more important tables in the output file. |
 | You can use your editor to find the table numbers, |
 | for example: search for Table E20 to check continuity. |
 | This output file can be imported into a Word Processor |
 | and printed on US letter or A4 paper using portrait |
 | mode, courier font, a size of 8 pt. and margins of 0.75 |
 | | | | | |
 | Table E1 - Basic Conduit Data |
 | Table E2 - Conduit Factor Data |
 | Table E3a - Junction Data |
 | Table E3b - Junction Data |
 | Table E4 - Conduit Connectivity Data |

Table E4a	- Dry Weather Flow Data	
Table E4b	- Real Time Control Data	
Table E5	- Junction Time Step Limitation Summary	
Table E5a	- Conduit Explicit Condition Summary	
Table E6	- Final Model Condition	
Table E7	- Iteration Summary	
Table E8	- Junction Time Step Limitation Summary	
Table E9	- Junction Summary Statistics	
Table E10	- Conduit Summary Statistics	
Table E11	- Area assumptions used in the analysis	
Table E12	- Mean conduit information	
Table E13	- Channel losses(H) and culvert info	
Table E13a	- Culvert Analysis Classification	
Table E14	- Natural Channel Overbank Flow Information	
Table E14a	- Natural Channel Encroachment Information	
Table E14b	- Floodplain Mapping	
Table E15	- Spreadsheet Info List	
Table E15a	- Spreadsheet Reach List	
Table E16	- New Conduit Output Section	
Table E17	- Pump Operation	
Table E18	- Junction Continuity Error	
Table E19	- Junction Inflow & Outflow Listing	
Table E20	- Junction Flooding and Volume List	
Table E21	- Continuity balance at simulation end	
Table E22	- Model Judgement Section	

Time Control from Hydraulics Job Control
Year..... 2022 Month..... 1
Day..... 1 Hour..... 0
Minute..... 0 Second..... 0

Control information for simulation

Integration cycles..... 21600
Length of integration step is..... 5.00 seconds
Simulation length..... 30.00 hours
Do not create equiv. pipes (NEQUAL).. 0
Use metric units for I/O..... 1
Printing starts in cycle..... 1
Intermediate printout intervals of. 500 cycles
Intermediate printout intervals of. 41.67 minutes
Summary printout intervals of..... 500 cycles
Summary printout time interval of.. 41.67 minutes
Hot start file parameter (REDO).... 0
Initial time..... 0.00 hours

Iteration variables: Flow Tolerance. 0.00010
Head Tolerance. 0.00005
Minimum depth (m or ft)..... 0.00001
Underrelaxation parameter..... 0.85000
Time weighting parameter..... 0.85000
Conduit roughness factor..... 1.00000
Flow adjustment factor..... 1.00000
Initial Condition Smoothing..... 0
Courant Time Step Factor..... 1.00000
Default Expansion/Contraction K. 0.00000
Default Entrance/Exit K..... 0.00000
Routing Method..... Dynamic Wave
Default surface area of junctions... 1.22 square meters.
Minimum Junction/Conduit Depth..... 0.00001 meter.
Ponding Area Coefficient..... 5000.00
Ponding Area Exponent..... 1.0000
Minimum Orifice Length..... 1.00 meters.
NJSW input hydrograph junctions.... 0
or user defined hydrographs....

=====
Input Information from Internal Rating Curve Roof Control
=====

Point No.	Data Column # 1	Data Column # 2	Data Column # 3	Data Column # 4
1	0.000	0.000	0.000	0.000
2	0.050	0.046	0.000	0.000
3	0.100	0.091	0.000	0.000
4	0.150	0.137	0.000	0.000

=====
Input Information from Internal Rating Curve Roof Control2
=====

Point No.	Data Column # 1	Data Column # 2	Data Column # 3	Data Column # 4
1	0.000	0.000	0.000	0.000
2	0.050	0.046	0.000	0.000
3	0.100	0.091	0.000	0.000
4	0.150	0.137	0.000	0.000

| Table E1 - Conduit Data |

Inp Num	Conduit Name	Length (m)	Conduit Class	Area (m^2)	Manning Coef.	Max Width (m)	Depth (m)	Trapezoid Side Slopes	Hazen Williams c-factor
1	STM - (14) (STORM)	34.4400	Circular	0.3578	0.0130	0.6750	0.6750		
2	STM - (15) (STORM)	34.3010	Circular	0.5346	0.0130	0.8250	0.8250		
3	STM - (16) (STORM)	20.2390	Circular	0.6362	0.0130	0.9000	0.9000		
4	STM - (17) (STORM)	46.6920	Circular	0.6362	0.0130	0.9000	0.9000		
5	STM - (18) (STORM)	60.0000	Circular	0.6362	0.0130	0.9000	0.9000		
6	STM - (19) (STORM)	52.6070	Circular	0.6362	0.0130	0.9000	0.9000		
7	STM - (20) (STORM)	63.5810	Circular	0.6362	0.0130	0.9000	0.9000		
8	STM - (21) (STORM)	16.7870	Circular	0.6362	0.0130	0.9000	0.9000		
9	STM - (22) (STORM)	40.9110	Circular	0.6362	0.0130	0.9000	0.9000		
10	STM - (24) (STORM)	89.7480	Circular	0.7466	0.0130	0.9750	0.9750		
11	STM - (25) (STORM)	89.9950	Circular	0.7466	0.0130	0.9750	0.9750		
12	STM - (26) (STORM)	89.7910	Circular	0.7466	0.0130	0.9750	0.9750		
13	STM - (27) (STORM)	76.6500	Circular	0.7466	0.0130	0.9750	0.9750		
14	STM - (28) (STORM)	57.6470	Circular	0.6362	0.0130	0.9000	0.9000		
15	STM - (29) (STORM)	26.5730	Circular	0.8659	0.0130	1.0500	1.0500		
16	STM - (30) (STORM)	7.1590	Circular	0.1590	0.0130	0.4500	0.4500		
17	STM - (32) (STORM)	16.7260	Circular	0.2165	0.0130	0.5250	0.5250		
18	STM - (33) (STORM)	34.3830	Circular	0.2827	0.0130	0.6000	0.6000		
19	STM - (34) (STORM)	26.0760	Circular	0.2827	0.0130	0.6000	0.6000		
20	STM - (35) (STORM)	16.4410	Circular	0.3578	0.0130	0.6750	0.6750		
21	STM - (36) (STORM)	38.0730	Circular	0.3578	0.0130	0.6750	0.6750		
22	STM - (37) (STORM)	22.7400	Circular	0.3578	0.0130	0.6750	0.6750		
23	STM - (38) (STORM)	48.7890	Circular	0.3578	0.0130	0.6750	0.6750		
24	STM - (39) (STORM)	53.5530	Circular	0.3578	0.0130	0.6750	0.6750		
25	STM - (40) (STORM)	89.3290	Circular	0.4418	0.0130	0.7500	0.7500		
26	STM - (41) (STORM)	83.5710	Circular	0.4418	0.0130	0.7500	0.7500		
27	STM - (53) (STORM)	88.6860	Circular	0.3578	0.0130	0.6750	0.6750		
28	STM - (54) (STORM)	87.4930	Circular	0.3578	0.0130	0.6750	0.6750		
29	STM - (55) (STORM)	78.2000	Circular	0.3578	0.0130	0.6750	0.6750		
30	STM - (56) (STORM)	52.4310	Circular	0.4418	0.0130	0.7500	0.7500		
31	STM - (57) (STORM)	88.9580	Circular	0.1590	0.0130	0.4500	0.4500		
32	STM - (58) (STORM)	24.4660	Circular	0.1590	0.0130	0.4500	0.4500		
33	STM - (59) (STORM)	22.3890	Circular	0.1104	0.0130	0.3750	0.3750		
34	ID*352	56.1650	Circular	0.1590	0.0130	0.4500	0.4500		
35	STM - (61) (STORM)	21.7290	Circular	0.1590	0.0130	0.4500	0.4500		
36	STM - (62) (STORM)	21.2450	Circular	0.1590	0.0130	0.4500	0.4500		
37	STM - (63) (STORM)	28.0620	Circular	0.1590	0.0130	0.4500	0.4500		
38	STM - (65) (STORM)	10.6650	Circular	0.2165	0.0130	0.5250	0.5250		
39	STM - (66) (STORM)	13.8960	Circular	0.1590	0.0130	0.4500	0.4500		
40	ID*359	41.1890	Circular	0.2827	0.0130	0.6000	0.6000		
41	STM - (67) (STORM)	19.7240	Circular	0.1590	0.0130	0.4500	0.4500		
42	STM - (68) (STORM)	19.1230	Circular	0.1590	0.0130	0.4500	0.4500		
43	ID*362	27.4530	Circular	0.2827	0.0130	0.6000	0.6000		
44	STM - (69) (STORM)	19.1480	Circular	0.1590	0.0130	0.4500	0.4500		
45	STM - (70) (STORM)	19.1510	Circular	0.1590	0.0130	0.4500	0.4500		
46	ID*365	27.6490	Circular	0.2165	0.0130	0.5250	0.5250		
47	STM - (71) (STORM)	19.8480	Circular	0.1590	0.0130	0.4500	0.4500		
48	STM - (72) (STORM)	20.0020	Circular	0.1590	0.0130	0.4500	0.4500		
49	ID*368	26.8320	Circular	0.2165	0.0130	0.5250	0.5250		
50	STM - (73) (STORM)	19.6900	Circular	0.1590	0.0130	0.4500	0.4500		
51	ID*370	23.4780	Circular	0.2165	0.0130	0.5250	0.5250		
52	STM - (74) (STORM)	19.5780	Circular	0.1590	0.0130	0.4500	0.4500		
53	STM - (75) (STORM)	27.7480	Circular	0.1590	0.0130	0.4500	0.4500		
54	STM - (76) (STORM)	19.7060	Circular	0.2165	0.0130	0.5250	0.5250		
55	ID*374	23.7860	Circular	0.2165	0.0130	0.5250	0.5250		
56	STM - (77) (STORM)	27.7600	Circular	0.1590	0.0130	0.4500	0.4500		
57	ID*376	26.4540	Circular	0.2827	0.0130	0.6000	0.6000		
58	STM - (78) (STORM)	27.8880	Circular	0.1590	0.0130	0.4500	0.4500		
59	ID*378	31.5150	Circular	0.2827	0.0130	0.6000	0.6000		
60	STM - (79) (STORM)	27.9980	Circular	0.1590	0.0130	0.4500	0.4500		
61	STM - (80) (STORM)	27.7450	Circular	0.1590	0.0130	0.4500	0.4500		
62	ID*381	23.7700	Circular	0.3578	0.0130	0.6750	0.6750		
63	STM - (81) (STORM)	27.8160	Circular	0.1590	0.0130	0.4500	0.4500		
64	STM - (82) (STORM)	27.5810	Circular	0.1590	0.0130	0.4500	0.4500		
65	ID*384	15.8630	Circular	0.5346	0.0130	0.8250	0.8250		
66	STM - (83) (STORM)	28.3010	Circular	0.1590	0.0130	0.4500	0.4500		
67	STM - (84) (STORM)	28.6480	Circular	0.1590	0.0130	0.4500	0.4500		
68	ID*387	13.8240	Circular	0.5346	0.0130	0.8250	0.8250		
69	ID*388	27.7700	Circular	0.1590	0.0130	0.4500	0.4500		
70	ID*390	36.2920	Circular	0.6362	0.0130	0.9000	0.9000		
71	STM - (86) (STORM)	29.0240	Circular	0.1590	0.0130	0.4500	0.4500		
72	STM - (87) (STORM)	89.7770	Circular	0.2165	0.0130	0.5250	0.5250		
73	STM - (88) (STORM)	70.2560	Circular	0.2827	0.0130	0.6000	0.6000		
74	STM - (89) (STORM)	80.7970	Circular	0.3578	0.0130	0.6750	0.6750		
75	STM - (95) (STORM)	80.1580	Circular	0.1590	0.0130	0.4500	0.4500		
76	STM - (96) (STORM)	85.7450	Circular	0.2165	0.0130	0.5250	0.5250		
77	ID*397	60.7190	Circular	0.7466	0.0130	0.9750	0.9750		
78	ID*398	32.5840	Circular	0.7466	0.0130	0.9750	0.9750		
79	STM - (119) (STORM)	50.2840	Circular	0.1590	0.0130	0.4500	0.4500		
80	STM - (120) (STORM)	63.0310	Circular	0.2165	0.0130	0.5250	0.5250		
81	ID*401	18.7950	Circular	0.7466	0.0130	0.9750	0.9750		
82	STM - (121) (STORM)	36.5160	Circular	0.2165	0.0130	0.5250	0.5250		
83	STM - (130) (STORM)	72.2090	Circular	0.1104	0.0130	0.3750	0.3750		
84	ID*409	53.9580	Circular	0.1590	0.0130	0.4500	0.4500		
85	STM - (142) (STORM)	54.1550	Circular	0.2165	0.0130	0.5250	0.5250		
86	STM - (143) (STORM)	83.5660	Circular	0.2827	0.0130	0.6000	0.6000		
87	ID*412	79.3960	Circular	0.2827	0.0130	0.6000	0.6000		
88	ID*413	17.7650	Circular	0.6362	0.0130	0.9000	0.9000		
89	ID*414	66.8190	Circular	0.6362	0.0130	0.9000	0.9000		

90		ID*415	63.4710	Circular	0.6362	0.0130	0.9000	0.9000		
91	STM - (151)	(STORM)	52.4360	Circular	0.1590	0.0130	0.4500	0.4500		
92	STM - (152)	(STORM)	25.3030	Circular	0.1590	0.0130	0.4500	0.4500		
93		ID*418	74.6380	Circular	0.2827	0.0130	0.6000	0.6000		
94	STM - (155)	(STORM)	87.1570	Circular	0.1590	0.0130	0.4500	0.4500		
95	STM - (158)	(STORM)	42.1530	Circular	0.0707	0.0130	0.3000	0.3000		
96		ID*421	55.7110	Circular	0.1590	0.0130	0.4500	0.4500		
97	STM - (160)	(STORM)	20.7160	Circular	0.1104	0.0130	0.3750	0.3750		
98		ID*423	32.2950	Circular	0.6362	0.0130	0.9000	0.9000		
99	STM - (161)	(STORM)	51.4520	Circular	0.1104	0.0130	0.3750	0.3750		
100		ID*425	46.7900	Circular	0.6362	0.0130	0.9000	0.9000		
101	STM - (170)	(STORM)	15.8790	Circular	0.8659	0.0130	1.0500	1.0500		
102		ID*427	49.9020	Circular	0.3578	0.0130	0.6750	0.6750		
103		Link116	24.0000	Circular	0.1104	0.0130	0.3750	0.3750		
104		Link117	31.0000	Circular	0.1104	0.0130	0.3750	0.3750		
105		Link118	31.0000	Circular	0.1104	0.0130	0.3750	0.3750		
106		Link119	31.0000	Circular	0.1104	0.0130	0.3750	0.3750		
107		Link122	63.6500	Circular	0.1590	0.0130	0.4500	0.4500		
108		spill	30.0000	Trapezoid	3.3000	0.0150	2.0000	0.3000	30.0000	30.0000
109		Roof Control	300.0000	Closd Cnd	0.0000	0.0140	0.1500	0.1500		
110		Roof Control2	300.0000	Closd Cnd	0.0000	0.0140	0.1500	0.1500		
Total length of all conduits ...			5158.6240 meters							

| Table E2 - Conduit Factor Data |

Conduit	Number	Entrance	Exit	Time	Low	Flow	Depth	at			
Name of	Barrels	Loss Coef	Loss Coef	Exp/Contc	Weighting	Roughness	Factor	Which	Sediment	Flow	
				Coefficient	Parameter			n Changes	Depth	Routing	
STM - (14)	(STORM)	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
STM - (15)	(STORM)	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
STM - (16)	(STORM)	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
STM - (17)	(STORM)	1.0000	0.7000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
STM - (18)	(STORM)	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
STM - (19)	(STORM)	1.0000	0.5000	0.7000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
STM - (20)	(STORM)	1.0000	0.7000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
STM - (21)	(STORM)	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
STM - (22)	(STORM)	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
STM - (24)	(STORM)	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
STM - (25)	(STORM)	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
STM - (26)	(STORM)	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
STM - (27)	(STORM)	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
STM - (28)	(STORM)	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
STM - (29)	(STORM)	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
STM - (32)	(STORM)	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
STM - (33)	(STORM)	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
STM - (34)	(STORM)	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
STM - (35)	(STORM)	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
STM - (36)	(STORM)	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
STM - (37)	(STORM)	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
STM - (38)	(STORM)	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
STM - (39)	(STORM)	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
STM - (40)	(STORM)	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
STM - (41)	(STORM)	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
STM - (53)	(STORM)	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
STM - (54)	(STORM)	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
STM - (55)	(STORM)	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
STM - (56)	(STORM)	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
STM - (57)	(STORM)	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
STM - (58)	(STORM)	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
	ID*352	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
	ID*359	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
	ID*362	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
	ID*365	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
	ID*368	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
	ID*370	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
STM - (76)	(STORM)	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
	ID*374	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
	ID*376	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
	ID*378	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
	ID*381	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
	ID*384	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
	ID*387	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
	ID*390	1.0000	0.5000	0.7000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
STM - (87)	(STORM)	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
STM - (88)	(STORM)	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
STM - (89)	(STORM)	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
STM - (95)	(STORM)	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
STM - (96)	(STORM)	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
	ID*397	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
	ID*398	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
	ID*401	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
STM - (130)	(STORM)	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
	ID*409	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
STM - (142)	(STORM)	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
STM - (143)	(STORM)	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
	ID*412	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
	ID*413	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
	ID*414	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
	ID*415	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
STM - (152)	(STORM)	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
	ID*418	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave
STM - (155)	(STORM)	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard	- Dynamic Wave

STM - (158)	(STORM)	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard - Dynamic Wave
	ID*421	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard - Dynamic Wave
	ID*423	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard - Dynamic Wave
	ID*425	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard - Dynamic Wave
STM - (170)	(STORM)	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard - Dynamic Wave
	ID*427	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard - Dynamic Wave
	Link122	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	0.0000	Standard - Dynamic Wave

```

*****
| If there are messages about (sqrt(g*d)*dt/dx), or |
| the sqrt(wave celerity)*time step/conduit length |
| in the output file all it means is that the      |
| program will lower the internal time step to     |
| satisfy this condition (explicit condition).      |
| You control the actual internal time step by     |
| using the minimum courant time step factor in the|
| HYDRAULICS job control. The message put in words|
| states that the smallest conduit with the fastest|
| velocity will control the time step selection.   |
| You have further control by using the modify     |
| conduit option in the HYDRAULICS Job Control.    |
*****

```

Conduit Name	Courant Ratio	
STM - (14) (STORM)	0.37	
STM - (15) (STORM)	0.41	
STM - (16) (STORM)	0.73	
STM - (17) (STORM)	0.32	
STM - (18) (STORM)	0.25	
STM - (19) (STORM)	0.28	
STM - (20) (STORM)	0.23	
STM - (21) (STORM)	0.88	
STM - (22) (STORM)	0.36	
STM - (24) (STORM)	0.17	
STM - (25) (STORM)	0.17	
STM - (26) (STORM)	0.17	
STM - (27) (STORM)	0.20	
STM - (28) (STORM)	0.26	
STM - (29) (STORM)	0.60	
STM - (30) (STORM)	1.47	====> Warning ! (sqrt(wave celerity)*time step/conduit length)
STM - (32) (STORM)	0.68	
STM - (33) (STORM)	0.35	
STM - (34) (STORM)	0.47	
STM - (35) (STORM)	0.78	
STM - (36) (STORM)	0.34	
STM - (37) (STORM)	0.57	
STM - (38) (STORM)	0.26	
STM - (39) (STORM)	0.24	
STM - (40) (STORM)	0.15	
STM - (41) (STORM)	0.16	
STM - (53) (STORM)	0.15	
STM - (54) (STORM)	0.15	
STM - (55) (STORM)	0.16	
STM - (56) (STORM)	0.26	
STM - (57) (STORM)	0.12	
STM - (58) (STORM)	0.43	
STM - (59) (STORM)	0.43	
ID*352	0.19	
STM - (61) (STORM)	0.48	
STM - (62) (STORM)	0.49	
STM - (63) (STORM)	0.37	
STM - (65) (STORM)	1.06	====> Warning ! (sqrt(wave celerity)*time step/conduit length)
STM - (66) (STORM)	0.76	
ID*359	0.29	
STM - (67) (STORM)	0.53	
STM - (68) (STORM)	0.55	
ID*362	0.44	
STM - (69) (STORM)	0.55	
STM - (70) (STORM)	0.55	
ID*365	0.41	
STM - (71) (STORM)	0.53	
STM - (72) (STORM)	0.53	
ID*368	0.42	
STM - (73) (STORM)	0.53	
ID*370	0.48	
STM - (74) (STORM)	0.54	
STM - (75) (STORM)	0.38	
STM - (76) (STORM)	0.58	
ID*374	0.48	
STM - (77) (STORM)	0.38	
ID*376	0.46	
STM - (78) (STORM)	0.38	
ID*378	0.38	
STM - (79) (STORM)	0.38	
STM - (80) (STORM)	0.38	
ID*381	0.54	
STM - (81) (STORM)	0.38	
STM - (82) (STORM)	0.38	
ID*384	0.90	
STM - (83) (STORM)	0.37	
STM - (84) (STORM)	0.37	
ID*387	1.03	====> Warning ! (sqrt(wave celerity)*time step/conduit length)

```

ID*388      0.38
ID*390      0.41
STM - (86) (STORM) 0.36
STM - (87) (STORM) 0.13
STM - (88) (STORM) 0.17
STM - (89) (STORM) 0.16
STM - (95) (STORM) 0.13
STM - (96) (STORM) 0.13
ID*397      0.25
ID*398      0.47
STM - (119) (STORM) 0.21
STM - (120) (STORM) 0.18
ID*401      0.82
STM - (121) (STORM) 0.31
STM - (130) (STORM) 0.13
ID*409      0.19
STM - (142) (STORM) 0.21
STM - (143) (STORM) 0.15
ID*412      0.15
ID*413      0.84
ID*414      0.22
ID*415      0.23
STM - (151) (STORM) 0.20
STM - (152) (STORM) 0.42
ID*418      0.16
STM - (155) (STORM) 0.12
STM - (158) (STORM) 0.20
ID*421      0.19
STM - (160) (STORM) 0.46
ID*423      0.46
STM - (161) (STORM) 0.19
ID*425      0.32
STM - (170) (STORM) 1.01 ==> Warning ! (sqrt(wave celerity)*time step/conduit length)
ID*427      0.26
Link116     0.40
Link117     0.31
Link118     0.31
Link119     0.31
Link122     0.17
spill       0.21
Roof Control 0.00
Roof Control2 0.00

```

```

*=====
| Conduit Volume |
*=====

```

Full pipe or full open conduit volume
Input full depth volume..... 1.6980E+03 cubic meters

```

*=====
| Table E3a - Junction Data |
*=====

```

Inp Num	Junction Name	Ground Elevation	Crown Elevation	Invert Elevation	Qinst cms	Initial Depth-m	Interface Flow (%)
1	STM MH 188	248.8926	245.1030	244.6200	0.0000	0.0000	100.0000
2	STM MH 187	248.3788	247.0550	246.6800	0.0000	0.0000	100.0000
3	STM MH 203	248.0697	246.3800	245.9300	0.0000	0.0000	100.0000
4	STM MH 236	247.8540	245.8400	245.3200	0.0000	0.0000	100.0000
5	STM MH 21	246.6194	244.4400	238.1200	0.0000	0.0000	100.0000
6	STM MH 23	244.2541	238.2360	237.2600	0.0000	0.0000	100.0000
7	STM MH 154	243.4386	237.9750	237.0000	0.0000	0.0000	100.0000
8	STM MH 22	243.1649	238.3800	237.4200	0.0000	0.0000	100.0000
9	CB 6	243.1497	241.8370	241.3870	0.0000	0.0000	100.0000
10	STM MH 227	243.1430	241.2200	240.7700	0.0000	0.0000	100.0000
11	STM MH 132	242.9638	241.6670	241.1800	0.0000	0.0000	100.0000
12	STM MH 116	242.9168	241.5320	240.9800	0.0000	0.0000	100.0000
13	STM MH 221	242.8547	238.6000	237.6700	0.0000	0.0000	100.0000
14	STM MH 35	242.8307	241.4270	240.4400	0.0000	0.0000	100.0000
15	STM MH 36	242.8306	241.4280	240.1700	0.0000	0.0000	100.0000
16	STM MH 118	242.8305	241.4270	240.2800	0.0000	0.0000	100.0000
17	STM MH 34	242.8238	241.4250	240.9000	0.0000	0.0000	100.0000
18	STM MH 121	242.8222	241.4190	240.8000	0.0000	0.0000	100.0000
19	STM MH 120	242.8199	241.4160	240.7000	0.0000	0.0000	100.0000
20	STM MH 117	242.8196	241.4150	240.0200	0.0000	0.0000	100.0000
21	STM MH 119	242.8172	241.4130	240.5500	0.0000	0.0000	100.0000
22	STM MH 20	242.7996	239.2700	238.3400	0.0000	0.0000	100.0000
23	STM MH 37	242.7908	241.1850	239.8700	0.0000	0.0000	100.0000
24	STM MH 40	242.7892	241.3850	239.4800	0.0000	0.0000	100.0000
25	STM MH 86	242.7856	241.3300	240.8800	0.0000	0.0000	100.0000
26	STM MH 115	242.7801	241.3750	240.0300	0.0000	0.0000	100.0000
27	STM MH 87	242.7761	240.7070	240.2300	0.0000	0.0000	100.0000
28	STM MH 223	242.7400	241.7000	240.9100	0.0000	0.0000	100.0000
29	STM MH 220	242.7689	238.8290	237.9000	0.0000	0.0000	100.0000
30	STM MH 205	242.5400	240.6420	239.9800	0.0000	0.0000	100.0000
31	STM MH 128	242.7400	240.9100	239.5050	0.0000	0.0000	100.0000
32	STM MH 127	242.7400	241.0100	240.0800	0.0000	0.0000	100.0000
33	STM MH 122	242.7448	241.5330	240.7250	0.0000	0.0000	100.0000
34	STM MH 123	242.7400	241.5050	240.6400	0.0000	0.0000	100.0000
35	STM MH 126	242.7441	241.1500	240.2150	0.0000	0.0000	100.0000
36	STM MH 125	242.7400	241.2800	240.3800	0.0000	0.0000	100.0000
37	STM MH 124	242.7433	241.3800	240.5000	0.0000	0.0000	100.0000

38	STM MH 129	242.7375	240.8000	239.3700	0.0000	0.0000	100.0000
39	STM MH 133	242.7319	240.6500	239.0600	0.0000	0.0000	100.0000
40	STM MH 170	242.7290	240.2120	236.8000	0.0000	0.0000	100.0000
41	STM MH 38	242.7261	240.4960	239.7900	0.0000	0.0000	100.0000
42	STM MH 18	242.7161	239.8510	238.8900	0.0000	0.0000	100.0000
43	STM MH 218	242.5600	240.8830	240.2800	0.0000	0.0000	100.0000
44	STM MH 131	242.6925	240.7300	239.2900	0.0000	0.0000	100.0000
45	STM MH 219	242.6873	240.1300	239.2300	0.0000	0.0000	100.0000
46	STM MH 17	242.6829	241.3520	239.1500	0.0000	0.0000	100.0000
47	STM MH 39	242.6544	241.2490	239.6100	0.0000	0.0000	100.0000
48	STM MH 153	242.6442	237.6810	236.6800	0.0000	0.0000	100.0000
49	STM MH 204	242.5600	241.0450	240.5200	0.0000	0.0000	100.0000
50	CULTEC 5	242.5404	237.4730	236.4700	0.0000	0.0000	100.0000
51	STM MH 27	242.5292	236.5849	235.5789	0.0000	0.0000	100.0000
52	STM MH 228	242.5260	240.6000	240.0000	0.0000	0.0000	100.0000
53	STM MH 26	242.5031	237.0649	236.0599	0.0000	0.0000	100.0000
54	STM MH 169	242.4872	240.4400	239.8700	0.0000	0.0000	100.0000
55	STM MH 28	242.4647	236.1050	235.1000	0.0000	0.0000	100.0000
56	STM MH 168	242.3903	240.7550	240.2300	0.0000	0.0000	100.0000
57	STM MH 41	242.3812	240.0090	239.3000	0.0000	0.0000	100.0000
58	PROP CB 39	242.3090	241.2100	240.7600	0.0000	0.0000	100.0000
59	STM CBMH 19	242.2755	239.6500	238.7200	0.0000	0.0000	100.0000
60	STM CBMH 250	242.2746	239.4400	238.5100	0.0000	0.0000	100.0000
61	STM MH 134	242.1918	241.0400	239.7000	0.0000	0.0000	100.0000
62	STM MH 135	242.1691	239.8100	239.2100	0.0000	0.0000	100.0000
63	PROP DCB 62	242.1541	241.5800	241.2800	0.0000	0.0000	100.0000
64	STM MH 256	242.1150	239.8140	239.1000	0.0000	0.0000	100.0000
65	STM MH 85	242.0684	239.5500	238.4000	0.0000	0.0000	100.0000
66	CULTEC 1	242.0677	239.5050	238.8300	0.0000	0.0000	100.0000
67	STM MH 82	242.0537	240.4050	239.7300	0.0000	0.0000	100.0000
68	CULTEC 2	241.9920	239.8420	239.1100	0.0000	0.0000	100.0000
69	STM MH 83	241.9256	240.1390	239.4300	0.0000	0.0000	100.0000
70	CAP 23	243.0300	241.8100	241.3600	0.0000	0.0000	100.0000
71	STM MH 142	241.8540	239.5750	239.0500	0.0000	0.0000	100.0000
72	CAP 14	243.0300	241.8100	241.3600	0.0000	0.0000	100.0000
73	CAP 15	243.0300	241.8100	241.3600	0.0000	0.0000	100.0000
74	CAP 16	243.0300	241.8100	241.3600	0.0000	0.0000	100.0000
75	CAP 24	243.0300	241.8100	241.3600	0.0000	0.0000	100.0000
76	CAP 22	243.0300	241.8100	241.3600	0.0000	0.0000	100.0000
77	CAP 21	243.0300	241.8100	241.3600	0.0000	0.0000	100.0000
78	CAP 20	243.0300	241.8100	241.3600	0.0000	0.0000	100.0000
79	CAP 19	243.0300	241.8100	241.3600	0.0000	0.0000	100.0000
80	CAP 18	243.0300	241.8100	241.3600	0.0000	0.0000	100.0000
81	CAP 17	243.0300	241.8100	241.3600	0.0000	0.0000	100.0000
82	CAP 13	243.0300	241.8100	241.3600	0.0000	0.0000	100.0000
83	CAP 12	243.0300	241.8100	241.3600	0.0000	0.0000	100.0000
84	CAP 11	243.0300	241.8100	241.3600	0.0000	0.0000	100.0000
85	CAP 10	243.0300	241.8100	241.3600	0.0000	0.0000	100.0000
86	CAP 9	243.0300	241.8100	241.3600	0.0000	0.0000	100.0000
87	CAP 8	243.0300	241.8100	241.3600	0.0000	0.0000	100.0000
88	CAP 7	243.0300	241.8100	241.3600	0.0000	0.0000	100.0000
89	CAP 6	243.0300	241.8100	241.3600	0.0000	0.0000	100.0000
90	CAP 5	243.0300	241.8100	241.3600	0.0000	0.0000	100.0000
91	CAP 4	243.0300	241.8100	241.3600	0.0000	0.0000	100.0000
92	CAP 3	243.0300	241.8100	241.3600	0.0000	0.0000	100.0000
93	CAP 2	243.0300	252.1500	241.3600	0.0000	0.0000	100.0000
94	CAP 1	243.0300	252.1500	241.3600	0.0000	0.0000	100.0000
95	STM MH 141	241.8399	240.3750	239.9250	0.0000	0.0000	100.0000
96	STM MH 42	241.6433	239.2760	238.0500	0.0000	0.0000	100.0000
97	CULTEC 4	241.6385	238.7170	234.8400	0.0000	0.0000	100.0000
98	STM MH 43	241.1073	236.8500	235.5010	0.0000	0.0000	100.0000
99	STM MH 238	240.9459	238.3680	237.9300	0.0000	0.0000	100.0000
100	STM MH 237	240.9220	238.5750	238.2000	0.0000	0.0000	100.0000
101	STM MH 31	240.7666	233.5475	232.4975	0.0000	0.0000	100.0000
102	STM MH 239	240.7286	237.9449	234.1529	0.0000	0.0000	100.0000
103	STM MH 30	240.6901	234.7298	233.2328	0.0000	0.0000	100.0000
104	STM MH 255	240.5974	233.2300	232.1800	0.0000	0.0000	100.0000
105	Roof 1	252.1500	252.1500	252.0000	0.0000	0.0000	100.0000
106	Roof 2	252.1500	252.1500	252.0000	0.0000	0.0000	100.0000
107	Node117	240.7670	234.1500	232.4980	0.0000	0.0000	100.0000
108	CB 4	242.5600	240.8350	240.4600	0.0000	0.0000	100.0000
109	CB 3	242.5600	241.3350	240.9600	0.0000	0.0000	100.0000
110	CB 2	242.5600	242.5600	241.1600	0.0000	0.0000	100.0000
111	CB1	242.5600	242.5600	241.1700	0.0000	0.0000	100.0000

| Table E3b - Junction Data |

Inp Num	Junction Name	X Coord.	Y Coord.	Type of Manhole	Type of Inlet	Maximum Capacity	Pavement Shape	Slope
1	STM MH 188	0.0000	0.0000	No Ponding	Normal		0	0.00
2	STM MH 187	0.0000	0.0000	No Ponding	Normal		0	0.00
3	STM MH 203	0.0000	0.0000	No Ponding	Normal		0	0.00
4	STM MH 236	0.0000	0.0000	No Ponding	Normal		0	0.00
5	STM MH 21	0.0000	0.0000	No Ponding	Normal		0	0.00
6	STM MH 23	0.0000	0.0000	No Ponding	Normal		0	0.00
7	STM MH 154	0.0000	0.0000	No Ponding	Normal		0	0.00
8	STM MH 22	0.0000	0.0000	No Ponding	Normal		0	0.00
9	CB 6	0.0000	0.0000	No Ponding	Normal		0	0.00
10	STM MH 227	0.0000	0.0000	No Ponding	Normal		0	0.00
11	STM MH 132	0.0000	0.0000	No Ponding	Normal		0	0.00
12	STM MH 116	0.0000	0.0000	No Ponding	Normal		0	0.00

13	STM MH 221	0.0000	0.0000	No	Pending	Normal	0	0.00
14	STM MH 35	0.0000	0.0000	No	Pending	Normal	0	0.00
15	STM MH 36	0.0000	0.0000	No	Pending	Normal	0	0.00
16	STM MH 118	0.0000	0.0000	No	Pending	Normal	0	0.00
17	STM MH 34	0.0000	0.0000	No	Pending	Normal	0	0.00
18	STM MH 121	0.0000	0.0000	No	Pending	Normal	0	0.00
19	STM MH 120	0.0000	0.0000	No	Pending	Normal	0	0.00
20	STM MH 117	0.0000	0.0000	No	Pending	Normal	0	0.00
21	STM MH 119	0.0000	0.0000	No	Pending	Normal	0	0.00
22	STM MH 20	0.0000	0.0000	No	Pending	Normal	0	0.00
23	STM MH 37	0.0000	0.0000	No	Pending	Normal	0	0.00
24	STM MH 40	0.0000	0.0000	No	Pending	Normal	0	0.00
25	STM MH 86	0.0000	0.0000	No	Pending	Normal	0	0.00
26	STM MH 115	0.0000	0.0000	No	Pending	Normal	0	0.00
27	STM MH 87	0.0000	0.0000	No	Pending	Normal	0	0.00
28	STM MH 223	0.0000	0.0000	No	Pending	Normal	0	0.00
29	STM MH 220	0.0000	0.0000	No	Pending	Normal	0	0.00
30	STM MH 205	0.0000	0.0000	No	Pending	Normal	0	0.00
31	STM MH 128	0.0000	0.0000	No	Pending	Normal	0	0.00
32	STM MH 127	0.0000	0.0000	No	Pending	Normal	0	0.00
33	STM MH 122	0.0000	0.0000	No	Pending	Normal	0	0.00
34	STM MH 123	0.0000	0.0000	No	Pending	Normal	0	0.00
35	STM MH 126	0.0000	0.0000	No	Pending	Normal	0	0.00
36	STM MH 125	0.0000	0.0000	No	Pending	Normal	0	0.00
37	STM MH 124	0.0000	0.0000	No	Pending	Normal	0	0.00
38	STM MH 129	0.0000	0.0000	No	Pending	Normal	0	0.00
39	STM MH 133	0.0000	0.0000	No	Pending	Normal	0	0.00
40	STM MH 170	0.0000	0.0000	No	Pending	Normal	0	0.00
41	STM MH 38	0.0000	0.0000	No	Pending	Normal	0	0.00
42	STM MH 18	0.0000	0.0000	No	Pending	Normal	0	0.00
43	STM MH 218	0.0000	0.0000	No	Pending	Normal	0	0.00
44	STM MH 131	0.0000	0.0000	No	Pending	Normal	0	0.00
45	STM MH 219	0.0000	0.0000	No	Pending	Normal	0	0.00
46	STM MH 17	0.0000	0.0000	No	Pending	Normal	0	0.00
47	STM MH 39	0.0000	0.0000	No	Pending	Normal	0	0.00
48	STM MH 153	0.0000	0.0000	No	Pending	Normal	0	0.00
49	STM MH 204	0.0000	0.0000	No	Pending	Normal	0	0.00
50	CULTEC 5	0.0000	0.0000	No	Pending	Normal	0	0.00
51	STM MH 27	0.0000	0.0000	No	Pending	Normal	0	0.00
52	STM MH 228	0.0000	0.0000	No	Pending	Normal	0	0.00
53	STM MH 26	0.0000	0.0000	No	Pending	Normal	0	0.00
54	STM MH 169	0.0000	0.0000	No	Pending	Normal	0	0.00
55	STM MH 28	0.0000	0.0000	No	Pending	Normal	0	0.00
56	STM MH 168	0.0000	0.0000	No	Pending	Normal	0	0.00
57	STM MH 41	0.0000	0.0000	No	Pending	Normal	0	0.00
58	PROP CB 39	0.0000	0.0000	No	Pending	Normal	0	0.00
59	STM CBMH 19	0.0000	0.0000	No	Pending	Normal	0	0.00
60	STM CBMH 250	0.0000	0.0000	No	Pending	Normal	0	0.00
61	STM MH 134	0.0000	0.0000	No	Pending	Normal	0	0.00
62	STM MH 135	0.0000	0.0000	No	Pending	Normal	0	0.00
63	PROP DCB 62	0.0000	0.0000	No	Pending	Normal	0	0.00
64	STM MH 256	0.0000	0.0000	No	Pending	Normal	0	0.00
65	STM MH 85	0.0000	0.0000	No	Pending	Normal	0	0.00
66	CULTEC 1	0.0000	0.0000	No	Pending	Normal	0	0.00
67	STM MH 82	0.0000	0.0000	No	Pending	Normal	0	0.00
68	CULTEC 2	0.0000	0.0000	No	Pending	Normal	0	0.00
69	STM MH 83	0.0000	0.0000	No	Pending	Normal	0	0.00
70	CAP 23	0.0000	0.0000	No	Pending	Normal	0	0.00
71	STM MH 142	0.0000	0.0000	No	Pending	Normal	0	0.00
72	CAP 14	0.0000	0.0000	No	Pending	Normal	0	0.00
73	CAP 15	0.0000	0.0000	No	Pending	Normal	0	0.00
74	CAP 16	0.0000	0.0000	No	Pending	Normal	0	0.00
75	CAP 24	0.0000	0.0000	No	Pending	Normal	0	0.00
76	CAP 22	0.0000	0.0000	No	Pending	Normal	0	0.00
77	CAP 21	0.0000	0.0000	No	Pending	Normal	0	0.00
78	CAP 20	0.0000	0.0000	No	Pending	Normal	0	0.00
79	CAP 19	0.0000	0.0000	No	Pending	Normal	0	0.00
80	CAP 18	0.0000	0.0000	No	Pending	Normal	0	0.00
81	CAP 17	0.0000	0.0000	No	Pending	Normal	0	0.00
82	CAP 13	0.0000	0.0000	No	Pending	Normal	0	0.00
83	CAP 12	0.0000	0.0000	No	Pending	Normal	0	0.00
84	CAP 11	0.0000	0.0000	No	Pending	Normal	0	0.00
85	CAP 10	0.0000	0.0000	No	Pending	Normal	0	0.00
86	CAP 9	0.0000	0.0000	No	Pending	Normal	0	0.00
87	CAP 8	0.0000	0.0000	No	Pending	Normal	0	0.00
88	CAP 7	0.0000	0.0000	No	Pending	Normal	0	0.00
89	CAP 6	0.0000	0.0000	No	Pending	Normal	0	0.00
90	CAP 5	0.0000	0.0000	No	Pending	Normal	0	0.00
91	CAP 4	0.0000	0.0000	No	Pending	Normal	0	0.00
92	CAP 3	0.0000	0.0000	No	Pending	Normal	0	0.00
93	CAP 2	0.0000	0.0000	No	Pending	Normal	0	0.00
94	CAP 1	0.0000	0.0000	No	Pending	Normal	0	0.00
95	STM MH 141	0.0000	0.0000	No	Pending	Normal	0	0.00
96	STM MH 42	0.0000	0.0000	No	Pending	Normal	0	0.00
97	CULTEC 4	0.0000	0.0000	No	Pending	Normal	0	0.00
98	STM MH 43	0.0000	0.0000	No	Pending	Normal	0	0.00
99	STM MH 238	0.0000	0.0000	No	Pending	Normal	0	0.00
100	STM MH 237	0.0000	0.0000	No	Pending	Normal	0	0.00
101	STM MH 31	0.0000	0.0000	No	Pending	Normal	0	0.00
102	STM MH 239	0.0000	0.0000	No	Pending	Normal	0	0.00
103	STM MH 30	0.0000	0.0000	No	Pending	Normal	0	0.00
104	STM MH 255	0.0000	0.0000	No	Pending	Normal	0	0.00
105	Roof 1	0.0000	0.0000	No	Pending	Normal	0	0.00
106	Roof 2	0.0000	0.0000	No	Pending	Normal	0	0.00
107	Node117	0.0000	0.0000	No	Pending	Normal	0	0.00

108	CB 4	0.0000	0.0000	No Ponding	Normal	0	0.00
109	CB 3	0.0000	0.0000	No Ponding	Normal	0	0.00
110	CB 2	0.0000	0.0000	No Ponding	Normal	0	0.00
111	CB1	0.0000	0.0000	No Ponding	Normal	0	0.00

| Table E4 - Conduit Connectivity |

Input Number	Conduit Name	Upstream Node	Downstream Node	Upstream Elevation	Downstream Elevation	
1	STM - (14) (STORM)	STM MH 126	STM MH 127	240.2150	240.1120	No Design
2	STM - (15) (STORM)	STM MH 128	STM MH 129	239.5050	239.4020	No Design
3	STM - (16) (STORM)	STM MH 17	STM MH 133	239.1500	239.0890	No Design
4	STM - (17) (STORM)	STM MH 18	STM CBMH 19	238.8900	238.7500	No Design
5	STM - (18) (STORM)	STM CBMH 19	STM CBMH 250	238.7200	238.5400	No Design
6	STM - (19) (STORM)	STM MH 20	STM MH 21	238.3400	238.1820	No Design
7	STM - (20) (STORM)	STM MH 21	STM MH 220	238.1200	237.9290	No Design
8	STM - (21) (STORM)	STM MH 22	STM MH 23	237.4200	237.3360	No Design
9	STM - (22) (STORM)	STM MH 23	STM MH 154	237.2600	237.0550	No Design
10	STM - (24) (STORM)	CULTEC 5	STM MH 26	236.4700	236.0899	No Design
11	STM - (25) (STORM)	STM MH 26	STM MH 27	236.0599	235.6099	No Design
12	STM - (26) (STORM)	STM MH 27	STM MH 28	235.5789	235.1300	No Design
13	STM - (27) (STORM)	STM MH 28	CULTEC 4	235.1000	234.8700	No Design
14	STM - (28) (STORM)	CULTEC 4	STM MH 239	234.8400	234.5519	No Design
15	STM - (29) (STORM)	STM MH 30	Node117	233.2328	233.1000	No Design
16	STM - (30) (STORM)	CAP 23	STM MH 132	241.3600	241.2170	No Design
17	STM - (32) (STORM)	STM MH 34	STM MH 121	240.9000	240.8500	No Design
18	STM - (33) (STORM)	STM MH 35	STM MH 118	240.4400	240.3370	No Design
19	STM - (34) (STORM)	STM MH 36	STM MH 117	240.1700	240.0920	No Design
20	STM - (35) (STORM)	STM MH 37	STM MH 38	239.8700	239.8210	No Design
21	STM - (36) (STORM)	STM MH 38	STM MH 39	239.7900	239.6760	No Design
22	STM - (37) (STORM)	STM MH 39	STM MH 40	239.6100	239.5420	No Design
23	STM - (38) (STORM)	STM MH 40	STM MH 41	239.4800	239.3340	No Design
24	STM - (39) (STORM)	STM MH 41	STM MH 256	239.3000	239.1390	No Design
25	STM - (40) (STORM)	STM MH 42	STM MH 43	238.0500	236.1000	No Design
26	STM - (41) (STORM)	STM MH 43	STM MH 30	235.5010	233.8298	No Design
27	STM - (53) (STORM)	STM MH 82	STM MH 83	239.7300	239.4640	No Design
28	STM - (54) (STORM)	STM MH 83	CULTEC 2	239.4300	239.1670	No Design
29	STM - (55) (STORM)	CULTEC 2	STM MH 85	239.1100	238.8750	No Design
30	STM - (56) (STORM)	STM MH 85	STM MH 42	238.4000	238.0800	No Design
31	STM - (57) (STORM)	STM MH 86	STM MH 87	240.8800	240.2570	No Design
32	STM - (58) (STORM)	STM MH 87	STM MH 115	240.2300	240.0590	No Design
33	STM - (59) (STORM)	CAP 1	STM MH 86	241.3600	240.9120	No Design
34	ID*352	STM MH 115	STM MH 40	240.0300	239.6370	No Design
35	STM - (61) (STORM)	CAP 2	STM MH 115	241.3600	240.9250	No Design
36	STM - (62) (STORM)	CAP 3	STM MH 40	241.3600	240.9350	No Design
37	STM - (63) (STORM)	CAP 4	STM MH 39	241.3600	240.7990	No Design
38	STM - (65) (STORM)	STM MH 116	STM MH 37	240.9800	240.6600	No Design
39	STM - (66) (STORM)	CAP 5	STM MH 116	241.3600	241.0820	No Design
40	ID*359	STM MH 117	STM MH 37	240.0200	239.8960	No Design
41	STM - (67) (STORM)	CAP 6	STM MH 117	241.3600	240.9650	No Design
42	STM - (68) (STORM)	CAP 7	STM MH 36	241.3600	240.9780	No Design
43	ID*362	STM MH 118	STM MH 36	240.2800	240.1980	No Design
44	STM - (69) (STORM)	CAP 8	STM MH 118	241.3600	240.9770	No Design
45	STM - (70) (STORM)	CAP 9	STM MH 35	241.3600	240.9770	No Design
46	ID*365	STM MH 119	STM MH 35	240.5500	240.4670	No Design
47	STM - (71) (STORM)	CAP 10	STM MH 119	241.3600	240.9630	No Design
48	STM - (72) (STORM)	CAP 13	STM MH 34	241.3600	240.9600	No Design
49	ID*368	STM MH 120	STM MH 119	240.7000	240.6190	No Design
50	STM - (73) (STORM)	CAP 11	STM MH 120	241.3600	240.9660	No Design
51	ID*370	STM MH 121	STM MH 120	240.8000	240.7300	No Design
52	STM - (74) (STORM)	CAP 12	STM MH 121	241.3600	240.9690	No Design
53	STM - (75) (STORM)	CAP 14	STM MH 122	241.3600	241.0830	No Design
54	STM - (76) (STORM)	STM MH 122	STM MH 123	240.7250	240.6660	No Design
55	ID*374	STM MH 123	STM MH 124	240.6400	240.5690	No Design
56	STM - (77) (STORM)	CAP 15	STM MH 123	241.3600	241.0550	No Design
57	ID*376	STM MH 124	STM MH 125	240.5000	240.4210	No Design
58	STM - (78) (STORM)	CAP 16	STM MH 124	241.3600	240.9300	No Design
59	ID*378	STM MH 125	STM MH 126	240.3800	240.2850	No Design
60	STM - (79) (STORM)	CAP 17	STM MH 125	241.3600	240.8300	No Design
61	STM - (80) (STORM)	CAP 18	STM MH 126	241.3600	240.7000	No Design
62	ID*381	STM MH 127	STM MH 128	240.0800	240.0000	No Design
63	STM - (81) (STORM)	CAP 19	STM MH 127	241.3600	240.5600	No Design
64	STM - (82) (STORM)	CAP 20	STM MH 128	241.3600	240.4600	No Design
65	ID*384	STM MH 129	STM MH 131	239.3700	239.3220	No Design
66	STM - (83) (STORM)	CAP 21	STM MH 129	241.3600	240.3500	No Design
67	STM - (84) (STORM)	CAP 22	STM MH 131	241.3600	240.2800	No Design
68	ID*387	STM MH 131	STM MH 219	239.2900	239.2490	No Design
69	ID*388	STM MH 132	STM MH 17	241.1800	240.9020	No Design
70	ID*390	STM MH 133	STM MH 18	239.0600	238.9510	No Design
71	STM - (86) (STORM)	CAP 24	STM MH 133	241.3600	240.2000	No Design
72	STM - (87) (STORM)	STM MH 134	STM MH 135	239.7000	239.2510	No Design
73	STM - (88) (STORM)	STM MH 135	CULTEC 1	239.2100	238.8590	No Design
74	STM - (89) (STORM)	CULTEC 1	STM MH 85	238.8300	238.4260	No Design
75	STM - (95) (STORM)	STM MH 141	STM MH 142	239.9250	239.1230	No Design
76	STM - (96) (STORM)	STM MH 142	CULTEC 4	239.0500	238.1920	No Design
77	ID*397	STM MH 153	CULTEC 5	236.6800	236.4980	No Design
78	ID*398	STM MH 154	STM MH 170	237.0000	236.8370	No Design
79	STM - (119) (STORM)	PROP CB 39	STM MH 168	240.7600	240.2570	No Design
80	STM - (120) (STORM)	STM MH 168	STM MH 169	240.2300	239.9150	No Design
81	ID*401	STM MH 170	STM MH 153	236.8000	236.7060	No Design
82	STM - (121) (STORM)	STM MH 169	STM MH 170	239.8700	239.6870	No Design

83	STM - (130)	(STORM)	STM MH 187	STM MH 203	246.6800	245.9580	No Design
84		ID*409	STM MH 203	STM MH 236	245.9300	245.3900	No Design
85	STM - (142)	(STORM)	STM MH 204	STM MH 218	240.5200	240.3580	No Design
86	STM - (143)	(STORM)	STM MH 205	STM MH 128	239.9800	239.7290	No Design
87		ID*412	STM MH 218	STM MH 205	240.2800	240.0420	No Design
88		ID*413	STM MH 219	STM MH 17	239.2300	239.1770	No Design
89		ID*414	STM MH 220	STM MH 221	237.9000	237.7000	No Design
90		ID*415	STM MH 221	STM MH 22	237.6700	237.4800	No Design
91	STM - (151)	(STORM)	CB 6	STM MH 223	241.3870	241.2500	No Design
92	STM - (152)	(STORM)	STM MH 223	STM MH 122	240.9100	240.7990	No Design
93		ID*418	STM MH 228	STM MH 82	240.0000	239.7720	No Design
94	STM - (155)	(STORM)	STM MH 227	STM MH 228	240.7700	240.0600	No Design
95	STM - (158)	(STORM)	PROP DCB 62	STM MH 134	241.2800	240.7400	No Design
96		ID*421	STM MH 236	STM MH 188	245.3200	244.6530	No Design
97	STM - (160)	(STORM)	STM MH 237	STM MH 238	238.2000	237.9930	No Design
98		ID*423	STM MH 239	STM MH 30	234.1529	233.8298	No Design
99	STM - (161)	(STORM)	STM MH 238	STM MH 239	237.9300	237.5699	No Design
100		ID*425	STM CBMH 250	STM MH 20	238.5100	238.3700	No Design
101	STM - (170)	(STORM)	STM MH 31	STM MH 255	232.4975	232.1800	No Design
102		ID*427	STM MH 256	STM MH 42	239.1000	238.6010	No Design
103	Link116		CB1	STM MH 122	241.1700	241.0500	No Design
104	Link117		CB 2	STM MH 124	241.1600	240.8500	No Design
105	Link118		CB 3	STM MH 126	240.9600	240.6500	No Design
106	Link119		CB 4	STM MH 128	240.4600	240.1500	No Design
107	Link122		STM MH 188	STM MH 21	244.6200	243.9900	No Design
108	spill		CB1	CB 2	242.2600	242.2600	No Design
109	Roof Control		Roof 1	CAP 2	252.0000	252.0000	No Design
110	Roof Control2		Roof 2	CAP 1	252.0000	252.0000	No Design

```

====> Warning !!! Node: 255      Area decreases between stages      1.550 and      1.700
====> Warning !!! Node: 255      Area decreases between stages      1.700 and      1.880
====> Warning !!! Node: 255      Area decreases between stages      1.880 and      2.060
====> Warning !!! Node: 255      Area decreases between stages      2.060 and      2.260
====> Warning !!! Node: 255      Area decreases between stages      2.260 and      2.440
====> Warning !!! Node: 255      Area decreases between stages      2.440 and      2.610
====> Warning !!! Node: 255      Area decreases between stages      2.610 and      2.770
====> Warning !!! Node: 255      Area decreases between stages      3.070 and      3.080
====> Warning !!! Node: 262      Area decreases between stages      0.560 and      0.670
====> Warning !!! Node: 262      Area decreases between stages      0.980 and      0.990
====> Warning !!! Node: 271      Area decreases between stages      0.000 and      0.025
====> Warning !!! Node: 271      Area decreases between stages      0.025 and      0.051
====> Warning !!! Node: 271      Area decreases between stages      0.051 and      0.076
====> Warning !!! Node: 271      Area decreases between stages      0.076 and      0.102
====> Warning !!! Node: 271      Area decreases between stages      0.102 and      0.127
====> Warning !!! Node: 271      Area decreases between stages      0.127 and      0.152
====> Warning !!! Node: 271      Area decreases between stages      0.152 and      0.178
====> Warning !!! Node: 271      Area decreases between stages      0.178 and      0.203
====> Warning !!! Node: 271      Area decreases between stages      0.203 and      0.229
====> Warning !!! Node: 271      Area decreases between stages      0.229 and      0.254
====> Warning !!! Node: 271      Area decreases between stages      0.254 and      0.279
====> Warning !!! Node: 271      Area decreases between stages      0.279 and      0.305
====> Warning !!! Node: 271      Area decreases between stages      0.305 and      0.330
====> Warning !!! Node: 271      Area decreases between stages      0.330 and      0.356
====> Warning !!! Node: 271      Area decreases between stages      0.356 and      0.381
====> Warning !!! Node: 271      Area decreases between stages      0.381 and      0.406
====> Warning !!! Node: 271      Area decreases between stages      0.406 and      0.432
====> Warning !!! Node: 271      Area decreases between stages      0.432 and      0.457
====> Warning !!! Node: 271      Area decreases between stages      0.457 and      0.483
====> Warning !!! Node: 271      Area decreases between stages      0.483 and      0.508
====> Warning !!! Node: 271      Area decreases between stages      0.508 and      0.533
====> Warning !!! Node: 271      Area decreases between stages      0.533 and      0.559
====> Warning !!! Node: 271      Area decreases between stages      0.559 and      0.584

```

====> Warning !!! Node: 271	Area decreases between stages	0.584 and	0.610
====> Warning !!! Node: 271	Area decreases between stages	0.610 and	0.635
====> Warning !!! Node: 271	Area decreases between stages	0.635 and	0.660
====> Warning !!! Node: 271	Area decreases between stages	0.660 and	0.686
====> Warning !!! Node: 271	Area decreases between stages	0.686 and	0.711
====> Warning !!! Node: 271	Area decreases between stages	0.711 and	0.737
====> Warning !!! Node: 271	Area decreases between stages	0.737 and	0.762
====> Warning !!! Node: 271	Area decreases between stages	0.762 and	0.787
====> Warning !!! Node: 271	Area decreases between stages	0.787 and	0.813
====> Warning !!! Node: 271	Area decreases between stages	0.813 and	0.838
====> Warning !!! Node: 271	Area decreases between stages	0.838 and	0.864
====> Warning !!! Node: 271	Area decreases between stages	0.864 and	0.889
====> Warning !!! Node: 271	Area decreases between stages	0.889 and	0.914
====> Warning !!! Node: 271	Area decreases between stages	1.219 and	1.220
====> Warning !!! Node: 273	Area decreases between stages	0.000 and	0.025
====> Warning !!! Node: 273	Area decreases between stages	0.025 and	0.051
====> Warning !!! Node: 273	Area decreases between stages	0.051 and	0.076
====> Warning !!! Node: 273	Area decreases between stages	0.076 and	0.102
====> Warning !!! Node: 273	Area decreases between stages	0.102 and	0.127
====> Warning !!! Node: 273	Area decreases between stages	0.127 and	0.152
====> Warning !!! Node: 273	Area decreases between stages	0.152 and	0.178
====> Warning !!! Node: 273	Area decreases between stages	0.178 and	0.203
====> Warning !!! Node: 273	Area decreases between stages	0.203 and	0.229
====> Warning !!! Node: 273	Area decreases between stages	0.229 and	0.254
====> Warning !!! Node: 273	Area decreases between stages	0.254 and	0.279
====> Warning !!! Node: 273	Area decreases between stages	0.279 and	0.305
====> Warning !!! Node: 273	Area decreases between stages	0.305 and	0.330
====> Warning !!! Node: 273	Area decreases between stages	0.330 and	0.356
====> Warning !!! Node: 273	Area decreases between stages	0.356 and	0.381
====> Warning !!! Node: 273	Area decreases between stages	0.381 and	0.406
====> Warning !!! Node: 273	Area decreases between stages	0.406 and	0.432
====> Warning !!! Node: 273	Area decreases between stages	0.432 and	0.457
====> Warning !!! Node: 273	Area decreases between stages	0.457 and	0.483
====> Warning !!! Node: 273	Area decreases between stages	0.483 and	0.508
====> Warning !!! Node: 273	Area decreases between stages	0.508 and	0.533
====> Warning !!! Node: 273	Area decreases between stages	0.533 and	0.559
====> Warning !!! Node: 273	Area decreases between stages	0.559 and	0.584
====> Warning !!! Node: 273	Area decreases between stages	0.584 and	0.610
====> Warning !!! Node: 273	Area decreases between stages	0.610 and	0.635
====> Warning !!! Node: 273	Area decreases between stages	0.635 and	0.660
====> Warning !!! Node: 273	Area decreases between stages	0.660 and	0.686
====> Warning !!! Node: 273	Area decreases between stages	0.686 and	0.711
====> Warning !!! Node: 273	Area decreases between stages	0.711 and	0.737
====> Warning !!! Node: 273	Area decreases between stages	0.737 and	0.762
====> Warning !!! Node: 273	Area decreases between stages	0.762 and	0.787
====> Warning !!! Node: 273	Area decreases between stages	0.787 and	0.813
====> Warning !!! Node: 273	Area decreases between stages	0.813 and	0.838
====> Warning !!! Node: 273	Area decreases between stages	0.838 and	0.864

```

====> Warning !!! Node: 273           Area decreases between stages    0.864 and    0.889
====> Warning !!! Node: 273           Area decreases between stages    0.889 and    0.914
====> Warning !!! Node: 273           Area decreases between stages    1.219 and    1.220
====> Warning !!! Node: 303           Area decreases between stages    1.970 and    2.180
====> Warning !!! Node: 303           Area decreases between stages    2.180 and    2.300
====> Warning !!! Node: 303           Area decreases between stages    2.300 and    2.470
====> Warning !!! Node: 303           Area decreases between stages    2.470 and    2.680
====> Warning !!! Node: 303           Area decreases between stages    2.680 and    2.860
====> Warning !!! Node: 303           Area decreases between stages    2.860 and    3.030
====> Warning !!! Node: 303           Area decreases between stages    3.030 and    3.190
====> Warning !!! Node: 303           Area decreases between stages    3.490 and    3.500

```

```

*=====
|           Storage Junction Data           |
*=====

```

STORAGE JUNCTION NUMBER OR NAME	JUNCTION TYPE	MAXIMUM OR CONSTANT SURFACE AREA (M2)	PEAK OR CONSTANT VOLUME (CUBIC MET.)	CROWN ELEVATION (M)	DEPTH STARTS FROM
STM MH 218	Stage/Area	6460.	667.5	242.6	Node Invert
STM MH 204	Stage/Area	3350.	345.8	242.6	Node Invert
CULTEC 5	Stage/Area	10.00	1070.	242.5	Node Invert
STM MH 41	Stage/Area	10.00	800.7	242.4	Node Invert
CULTEC 1	Stage/Area	1.000	920.0	242.1	Node Invert
CULTEC 2	Stage/Area	1.000	919.7	242.0	Node Invert
CULTEC 4	Stage/Area	10.00	1566.	241.6	Node Invert
Roof 1	Constant	1.0665E+04	1600.	252.2	Node Invert
Roof 2	Constant	1.0665E+04	1600.	252.2	Node Invert
CB 4	Stage/Area	1560.	177.6	242.6	Node Invert
CB 3	Stage/Area	1540.	167.1	242.6	Node Invert
CB 2	Stage/Area	1513.	163.9	242.6	Node Invert
CB1	Stage/Area	330.0	32.83	242.6	Node Invert

```

*=====
| Variable storage data for node |STM MH 218
*=====

```

Data Point	Elevation meters	Depth meters	Area m^2	Volume m^3
1	240.2800	0.0000	10.0000	0.0000
2	242.2600	1.9800	10.0000	19.8000
3	242.3600	2.0800	732.0000	47.3850
4	242.4600	2.1800	2842.0000	214.5946
5	242.5600	2.2800	6460.0000	667.4827
6	242.5600	2.2800	6460.0000	667.4827

```

*=====
| Variable storage data for node |STM MH 204
*=====

```

Data Point	Elevation meters	Depth meters	Area m^2	Volume m^3
1	240.5200	0.0000	10.0000	0.0000
2	242.2600	1.7400	10.0000	17.4000
3	242.3600	1.8400	372.0000	32.1662
4	242.4600	1.9400	1400.0000	115.2876
5	242.5600	2.0400	3350.0000	345.8066

```

*=====
| Variable storage data for node |CULTEC 5
*=====

```

Data Point	Elevation meters	Depth meters	Area m^2	Volume m^3
1	236.4700	0.0000	10.0000	0.0000
2	237.7800	1.3100	10.0000	13.1000
3	237.7900	1.3200	370.0000	14.5694
4	237.9200	1.4500	370.0000	62.6694
5	238.0200	1.5500	770.0000	118.4609
6	238.1700	1.7000	760.0000	233.2089
7	238.3500	1.8800	750.0000	369.1065
8	238.5300	2.0600	720.0000	501.3960
9	238.7300	2.2600	690.0000	642.3840
10	238.9100	2.4400	620.0000	760.2267
11	239.0800	2.6100	540.0000	858.7474
12	239.2400	2.7700	360.0000	930.2618
13	239.3900	2.9200	360.0000	984.2618
14	239.5400	3.0700	370.0000	1039.0095
15	239.5500	3.0800	10.0000	1040.4790
16	242.5400	6.0700	10.0000	1070.3790

```

*=====

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```

| Variable storage data for node |STM MH 41
*=====
Data      Elevation  Depth      Area      Volume
Point     meters     meters     m^2       m^3
=====
1         239.3000   0.0000    10.0000   0.0000
2         239.3510   0.0510    600.0000  11.6867
3         239.4520   0.1520    700.0000  77.2712
4         239.5800   0.2800    1000.0000 185.5009
5         239.7100   0.4100    1100.0000 321.9480
6         239.8600   0.5600    1200.0000 494.3919
7         239.9700   0.6700    600.0000  591.5036
8         240.1300   0.8300    600.0000  687.5036
9         240.2800   0.9800    600.0000  777.5036
10        240.2900   0.9900    10.0000   779.7951
11        242.3800   3.0800    10.0000   800.6951
12        242.3810   3.0810    10.0000   800.7051

```

```

*=====
| Variable storage data for node |CULTEC 1
*=====
Data      Elevation  Depth      Area      Volume
Point     meters     meters     m^2       m^3
=====
1         238.8300   0.0000    834.0000   0.0000
2         238.8550   0.0250    832.0000  20.8248
3         238.8810   0.0510    831.0000  42.4436
4         238.9060   0.0760    830.0000  63.2059
5         238.9320   0.1020    828.0000  84.7596
6         238.9570   0.1270    827.0000 105.4469
7         238.9820   0.1520    825.0000 126.0967
8         239.0080   0.1780    824.0000 147.5335
9         239.0330   0.2030    822.0000 168.1083
10        239.0590   0.2290    820.0000 189.4541
11        239.0840   0.2540    818.0000 209.9289
12        239.1090   0.2790    816.0000 230.3537
13        239.1350   0.3050    814.0000 251.5434
14        239.1600   0.3300    812.0000 271.8682
15        239.1860   0.3560    809.0000 292.9410
16        239.2110   0.3810    807.0000 313.1408
17        239.2360   0.4060    804.0000 333.2781
18        239.2620   0.4320    801.0000 354.1429
19        239.2870   0.4570    798.0000 374.1302
20        239.3130   0.4830    795.0000 394.8389
21        239.3380   0.5080    792.0000 414.6762
22        239.3630   0.5330    788.0000 434.4260
23        239.3890   0.5590    784.0000 454.8618
24        239.4140   0.5840    780.0000 474.4116
25        239.4400   0.6100    775.0000 494.6263
26        239.4650   0.6350    770.0000 513.9386
27        239.4900   0.6600    765.0000 533.1259
28        239.5160   0.6860    759.0000 552.9376
29        239.5410   0.7110    753.0000 571.8374
30        239.5670   0.7370    745.0000 591.3111
31        239.5920   0.7620    737.0000 609.8358
32        239.6170   0.7870    727.0000 628.1355
33        239.6430   0.8130    713.0000 646.8550
34        239.6680   0.8380    692.0000 664.4167
35        239.6940   0.8640    682.0000 682.2783
36        239.7190   0.8890    671.0000 699.1905
37        239.7440   0.9140    662.0000 715.8527
38        239.7700   0.9400    662.0000 733.0647
39        239.7950   0.9650    662.0000 749.6147
40        239.8210   0.9910    662.0000 766.8267
41        239.8460   1.0160    662.0000 783.3767
42        239.8710   1.0410    662.0000 799.9267
43        239.8970   1.0670    662.0000 817.1387
44        239.9220   1.0920    662.0000 833.6887
45        239.9480   1.1180    662.0000 850.9007
46        239.9730   1.1430    662.0000 867.4507
47        239.9980   1.1680    662.0000 884.0007
48        240.0240   1.1940    662.0000 901.2127
49        240.0490   1.2190    662.0000 917.7627
50        240.0500   1.2200     1.0000   917.9923
51        242.0670   3.2370     1.0000   920.0093
52        242.0680   3.2380     1.0000   920.0103

```

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*=====
| Variable storage data for node |CULTEC 2
*=====
Data      Elevation  Depth      Area      Volume
Point     meters     meters     m^2       m^3
=====
1         239.1100   0.0000    834.0000   0.0000
2         239.1350   0.0250    832.0000  20.8248
3         239.1610   0.0510    831.0000  42.4436
4         239.1860   0.0760    830.0000  63.2059
5         239.2120   0.1020    828.0000  84.7596
6         239.2370   0.1270    827.0000 105.4469
7         239.2620   0.1520    825.0000 126.0967
8         239.2880   0.1780    824.0000 147.5335
9         239.3130   0.2030    822.0000 168.1083
10        239.3390   0.2290    820.0000 189.4541
11        239.3640   0.2540    818.0000 209.9289
12        239.3890   0.2790    816.0000 230.3537

```

13	239.4150	0.3050	814.0000	251.5434
14	239.4400	0.3300	812.0000	271.8682
15	239.4660	0.3560	809.0000	292.9410
16	239.4910	0.3810	807.0000	313.1408
17	239.5160	0.4060	804.0000	333.2781
18	239.5420	0.4320	801.0000	354.1429
19	239.5670	0.4570	798.0000	374.1302
20	239.5930	0.4830	795.0000	394.8389
21	239.6180	0.5080	792.0000	414.6762
22	239.6430	0.5330	788.0000	434.4260
23	239.6690	0.5590	784.0000	454.8618
24	239.6940	0.5840	780.0000	474.4116
25	239.7200	0.6100	775.0000	494.6263
26	239.7450	0.6350	770.0000	513.9386
27	239.7700	0.6600	765.0000	533.1259
28	239.7960	0.6860	759.0000	552.9376
29	239.8210	0.7110	753.0000	571.8374
30	239.8470	0.7370	745.0000	591.3111
31	239.8720	0.7620	737.0000	609.8358
32	239.8970	0.7870	727.0000	628.1355
33	239.9230	0.8130	713.0000	646.8550
34	239.9480	0.8380	692.0000	664.4167
35	239.9740	0.8640	682.0000	682.2783
36	239.9990	0.8890	671.0000	699.1905
37	240.0240	0.9140	662.0000	715.8527
38	240.0500	0.9400	662.0000	733.0647
39	240.0750	0.9650	662.0000	749.6147
40	240.1010	0.9910	662.0000	766.8267
41	240.1260	1.0160	662.0000	783.3767
42	240.1510	1.0410	662.0000	799.9267
43	240.1770	1.0670	662.0000	817.1387
44	240.2020	1.0920	662.0000	833.6887
45	240.2280	1.1180	662.0000	850.9007
46	240.2530	1.1430	662.0000	867.4507
47	240.2780	1.1680	662.0000	884.0007
48	240.3040	1.1940	662.0000	901.2127
49	240.3290	1.2190	662.0000	917.7627
50	240.3300	1.2200	1.0000	917.9923
51	241.9920	2.8820	1.0000	919.6543

| Variable storage data for node |CULTEC 4

Data Point	Elevation meters	Depth meters	Area m^2	Volume m^3
1	234.8400	0.0000	10.0000	0.0000
2	236.5770	1.7370	10.0000	17.3700
3	236.5780	1.7380	540.0000	17.5778
4	236.7040	1.8640	540.0000	85.6178
5	236.8100	1.9700	1140.0000	172.6996
6	237.0200	2.1800	1110.0000	408.9402
7	237.1400	2.3000	1099.0000	541.4783
8	237.3100	2.4700	1060.0000	724.9815
9	237.5200	2.6800	1010.0000	942.3082
10	237.7000	2.8600	930.0000	1116.8569
11	237.8700	3.0300	790.0000	1262.8938
12	238.0300	3.1900	540.0000	1368.6605
13	238.1800	3.3400	540.0000	1449.6605
14	238.3300	3.4900	540.0000	1530.6605
15	238.3400	3.5000	10.0000	1532.7388
16	241.6380	6.7980	10.0000	1565.7188
17	241.6380	6.7980	10.0000	1565.7188

| Variable storage data for node |CB 4

Data Point	Elevation meters	Depth meters	Area m^2	Volume m^3
1	240.4600	0.0000	10.0000	0.0000
2	242.2600	1.8000	10.0000	18.0000
3	242.3600	1.9000	185.0000	25.9336
4	242.4600	2.0000	700.0000	67.4286
5	242.5600	2.1000	1560.0000	177.5938

| Variable storage data for node |CB 3

Data Point	Elevation meters	Depth meters	Area m^2	Volume m^3
1	240.9600	0.0000	10.0000	0.0000
2	242.2600	1.3000	10.0000	13.0000
3	242.3600	1.4000	160.0000	19.9999
4	242.4600	1.5000	680.0000	58.9945
5	242.5600	1.6000	1540.0000	167.1043

| Variable storage data for node |CB 2

Data Point	Elevation meters	Depth meters	Area m^2	Volume m^3
1	241.1600	0.0000	10.0000	0.0000

2	242.2600	1.1000	10.0000	11.0000
3	242.3600	1.2000	168.0000	18.2995
4	242.4600	1.3000	672.0000	57.4991
5	242.5600	1.4000	1513.0000	163.9425
6	242.5600	1.4000	1513.0000	163.9425

```

*=====
| Variable storage data for node |CB1
*=====
Data      Elevation  Depth      Area      Volume
Point    meters      meters      m^2       m^3
-----
1         241.1700   0.0000    10.0000   0.0000
2         242.3800   1.2100    10.0000   12.1000
3         242.4600   1.2900    65.0000   14.7798
4         242.5600   1.3900    330.0000  32.8283
5         242.5600   1.3900    330.0000  32.8283

```

```

*=====
| Orifice Data
*=====

```

Conduit Name	From Junction	To Junction	Type	Area (m2)	Depth (m)	Discharge Coefficient	Height Above Junction (m)
Orifice 1	Nodel17	STM MH 31	Circ Side	0.44	0.00	0.820	0.602

```

====> EQUIVALENT PIPE INFORMATION FOR ORIFICE
CONDUIT NAME..... 1
Upstream node..... Orifice 1
Downstream node.... Nodel17
PIPE DIAMETER..... STM MH 31
PIPE LENGTH..... 0.75
MANNINGS ROUGHNESS..... 300.00
INVERT ELEVATION AT UPSTREAM END.... 0.0052
INVERT ELEVATION AT DOWNSTREAM END... 233.1000

```

Note: For a Bottom-outlet orifice the invert elevation of the downstream node will be adjusted to accommodate the equivalent conduit. Conduit grades are not affected.

```

*=====
| FREE OUTFALL DATA (DATA GROUP I1) |
| BOUNDARY CONDITION ON DATA GROUP J1 |
*=====

```

Outfall at Junction....STM MH 255 has boundary condition number... 1

```

*=====
| INTERNAL CONNECTIVITY INFORMATION |
*=====

```

CONDUIT	JUNCTION	JUNCTION
Orifice 1	Nodel17	STM MH 31
FREE# 1	STM MH 255	BOUNDARY

```

*=====
| Boundary Condition Information |
| Data Groups J1-J4 |
*=====

```

BC NUMBER.. 1 has no control water surface.

```

*=====
| XP Note Field Summary |
*=====

```

```

*=====
| Conduit Convergence Criteria |
*=====

```

Conduit Name	Full Flow	Conduit Slope
STM - (14) (STORM)	0.4597	0.0030
STM - (15) (STORM)	0.7866	0.0030
STM - (16) (STORM)	0.9939	0.0030
STM - (17) (STORM)	0.9913	0.0030
STM - (18) (STORM)	0.9915	0.0030
STM - (19) (STORM)	0.9921	0.0030
STM - (20) (STORM)	0.9922	0.0030
STM - (21) (STORM)	1.2806	0.0050
STM - (22) (STORM)	1.2815	0.0050
STM - (24) (STORM)	1.4584	0.0042
STM - (25) (STORM)	1.5847	0.0050
STM - (26) (STORM)	1.5846	0.0050
STM - (27) (STORM)	1.2276	0.0030
STM - (28) (STORM)	1.2798	0.0050

STM - (29)	(STORM)	1.9304	0.0050
STM - (30)	(STORM)	0.4029	0.0200
STM - (32)	(STORM)	0.2351	0.0030
STM - (33)	(STORM)	0.3361	0.0030
STM - (34)	(STORM)	0.3358	0.0030
STM - (35)	(STORM)	0.4589	0.0030
STM - (36)	(STORM)	0.4600	0.0030
STM - (37)	(STORM)	0.4597	0.0030
STM - (38)	(STORM)	0.4598	0.0030
STM - (39)	(STORM)	0.4609	0.0030
STM - (40)	(STORM)	1.6448	0.0218
STM - (41)	(STORM)	1.5743	0.0200
STM - (53)	(STORM)	0.4604	0.0030
STM - (54)	(STORM)	0.4609	0.0030
STM - (55)	(STORM)	0.4608	0.0030
STM - (56)	(STORM)	0.8697	0.0061
STM - (57)	(STORM)	0.2386	0.0070
STM - (58)	(STORM)	0.2384	0.0070
STM - (59)	(STORM)	0.2480	0.0200
	ID*352	0.2385	0.0070
STM - (61)	(STORM)	0.4034	0.0200
STM - (62)	(STORM)	0.4032	0.0200
STM - (63)	(STORM)	0.4031	0.0200
STM - (65)	(STORM)	0.7449	0.0300
STM - (66)	(STORM)	0.4033	0.0200
	ID*359	0.3369	0.0030
STM - (67)	(STORM)	0.4035	0.0200
STM - (68)	(STORM)	0.4030	0.0200
	ID*362	0.3356	0.0030
STM - (69)	(STORM)	0.4032	0.0200
STM - (70)	(STORM)	0.4032	0.0200
	ID*365	0.2356	0.0030
STM - (71)	(STORM)	0.4032	0.0200
STM - (72)	(STORM)	0.4032	0.0200
	ID*368	0.2363	0.0030
STM - (73)	(STORM)	0.4033	0.0200
	ID*370	0.2348	0.0030
STM - (74)	(STORM)	0.4029	0.0200
STM - (75)	(STORM)	0.2849	0.0100
STM - (76)	(STORM)	0.2353	0.0030
	ID*374	0.2350	0.0030
STM - (77)	(STORM)	0.2988	0.0110
	ID*376	0.3355	0.0030
STM - (78)	(STORM)	0.3540	0.0154
	ID*378	0.3371	0.0030
STM - (79)	(STORM)	0.3923	0.0189
STM - (80)	(STORM)	0.4397	0.0238
	ID*381	0.4877	0.0034
STM - (81)	(STORM)	0.4835	0.0288
STM - (82)	(STORM)	0.5150	0.0326
	ID*384	0.7896	0.0030
STM - (83)	(STORM)	0.5386	0.0357
STM - (84)	(STORM)	0.5536	0.0377
	ID*387	0.7817	0.0030
	ID*388	0.2853	0.0100
	ID*390	0.9921	0.0030
STM - (86)	(STORM)	0.5700	0.0400
STM - (87)	(STORM)	0.3041	0.0050
STM - (88)	(STORM)	0.4340	0.0050
STM - (89)	(STORM)	0.5944	0.0050
STM - (95)	(STORM)	0.2852	0.0100
STM - (96)	(STORM)	0.4302	0.0100
	ID*397	1.2269	0.0030
	ID*398	1.5851	0.0050
STM - (119)	(STORM)	0.2852	0.0100
STM - (120)	(STORM)	0.3040	0.0050
	ID*401	1.5849	0.0050
STM - (121)	(STORM)	0.3044	0.0050
STM - (130)	(STORM)	0.1753	0.0100
	ID*409	0.2852	0.0100
STM - (142)	(STORM)	0.2352	0.0030
STM - (143)	(STORM)	0.3365	0.0030
	ID*412	0.3362	0.0030
	ID*413	0.9888	0.0030
	ID*414	0.9904	0.0030
	ID*415	0.9905	0.0030
STM - (151)	(STORM)	0.1457	0.0026
STM - (152)	(STORM)	0.1888	0.0044
	ID*418	0.3394	0.0031
STM - (155)	(STORM)	0.2573	0.0081
STM - (158)	(STORM)	0.1094	0.0128
	ID*421	0.3120	0.0120
STM - (160)	(STORM)	0.1753	0.0100
	ID*423	1.8107	0.0100
STM - (161)	(STORM)	0.1467	0.0070
	ID*425	0.9902	0.0030
STM - (170)	(STORM)	3.8613	0.0200
	ID*427	0.8406	0.0100
	Link116	0.1240	0.0050
	Link117	0.1753	0.0100
	Link118	0.1753	0.0100
	Link119	0.1753	0.0100
	Link122	0.2836	0.0099
	spill	0.2092	0.0000
Roof Control		0.0000	0.0000

Roof Control2 0.0000 0.0000
 Orifice 1 1.3894 0.0000

```

*****
| Initial Model Condition |
| Initial Time = 0.00 hours |
*****

```

Junction / Depth / Elevation	====>	"*" Junction is Surcharged.			
STM MH 188/ 0.00 / 244.62		STM MH 187/ 0.00 / 246.68		STM MH 203/ 0.00 / 245.93	
STM MH 236/ 0.00 / 245.32		STM MH 21/ 0.00 / 238.12		STM MH 23/ 0.00 / 237.26	
STM MH 154/ 0.00 / 237.00		STM MH 22/ 0.00 / 237.42		CB 6/ 0.00 / 241.39	
STM MH 227/ 0.00 / 240.77		STM MH 132/ 0.00 / 241.18		STM MH 116/ 0.00 / 240.98	
STM MH 221/ 0.00 / 237.67		STM MH 35/ 0.00 / 240.44		STM MH 36/ 0.00 / 240.17	
STM MH 118/ 0.00 / 240.28		STM MH 34/ 0.00 / 240.90		STM MH 121/ 0.00 / 240.80	
STM MH 120/ 0.00 / 240.70		STM MH 117/ 0.00 / 240.02		STM MH 119/ 0.00 / 240.55	
STM MH 20/ 0.00 / 238.34		STM MH 37/ 0.00 / 239.87		STM MH 40/ 0.00 / 239.48	
STM MH 86/ 0.00 / 240.88		STM MH 115/ 0.00 / 240.03		STM MH 87/ 0.00 / 240.23	
STM MH 223/ 0.00 / 240.91		STM MH 220/ 0.00 / 237.90		STM MH 205/ 0.00 / 239.98	
STM MH 128/ 0.00 / 239.50		STM MH 127/ 0.00 / 240.08		STM MH 122/ 0.00 / 240.72	
STM MH 123/ 0.00 / 240.64		STM MH 126/ 0.00 / 240.22		STM MH 125/ 0.00 / 240.38	
STM MH 124/ 0.00 / 240.50		STM MH 129/ 0.00 / 239.37		STM MH 133/ 0.00 / 239.06	
STM MH 170/ 0.00 / 236.80		STM MH 38/ 0.00 / 239.79		STM MH 18/ 0.00 / 238.89	
STM MH 218/ 0.00 / 240.28		STM MH 131/ 0.00 / 239.29		STM MH 219/ 0.00 / 239.23	
STM MH 17/ 0.00 / 239.15		STM MH 39/ 0.00 / 239.61		STM MH 153/ 0.00 / 236.68	
STM MH 204/ 0.00 / 240.52		CULTEC 5/ 0.00 / 236.47		STM MH 27/ 0.00 / 235.58	
STM MH 228/ 0.00 / 240.00		STM MH 26/ 0.00 / 236.06		STM MH 169/ 0.00 / 239.87	
STM MH 28/ 0.00 / 235.10		STM MH 168/ 0.00 / 240.23		STM MH 41/ 0.00 / 239.30	
PROP CB 39/ 0.00 / 240.76		STM CBMH 19/ 0.00 / 238.72		STM CBMH 250/ 0.00 / 238.51	
STM MH 134/ 0.00 / 239.70		STM MH 135/ 0.00 / 239.21		PROP DCB 62/ 0.00 / 241.28	
STM MH 256/ 0.00 / 239.10		STM MH 85/ 0.00 / 238.40		CULTEC 1/ 0.00 / 238.83	
STM MH 82/ 0.00 / 239.73		CULTEC 2/ 0.00 / 239.11		STM MH 83/ 0.00 / 239.43	
CAP 23/ 0.00 / 241.36		STM MH 142/ 0.00 / 239.05		CAP 14/ 0.00 / 241.36	
CAP 15/ 0.00 / 241.36		CAP 16/ 0.00 / 241.36		CAP 24/ 0.00 / 241.36	
CAP 22/ 0.00 / 241.36		CAP 21/ 0.00 / 241.36		CAP 20/ 0.00 / 241.36	
CAP 19/ 0.00 / 241.36		CAP 18/ 0.00 / 241.36		CAP 17/ 0.00 / 241.36	
CAP 13/ 0.00 / 241.36		CAP 12/ 0.00 / 241.36		CAP 11/ 0.00 / 241.36	
CAP 10/ 0.00 / 241.36		CAP 9/ 0.00 / 241.36		CAP 8/ 0.00 / 241.36	
CAP 7/ 0.00 / 241.36		CAP 6/ 0.00 / 241.36		CAP 5/ 0.00 / 241.36	
CAP 4/ 0.00 / 241.36		CAP 3/ 0.00 / 241.36		CAP 2/ 0.00 / 241.36	
CAP 1/ 0.00 / 241.36		STM MH 141/ 0.00 / 239.93		STM MH 42/ 0.00 / 238.05	
CULTEC 4/ 0.00 / 234.84		STM MH 43/ 0.00 / 235.50		STM MH 238/ 0.00 / 237.93	
STM MH 237/ 0.00 / 238.20		STM MH 31/ 0.00 / 232.50		STM MH 239/ 0.00 / 234.15	
STM MH 30/ 0.00 / 233.23		STM MH 255/ 0.00 / 232.18		Roof 1/ 0.00 / 252.00	
Roof 2/ 0.00 / 252.00		Node117/ 0.00 / 232.50		CB 4/ 0.00 / 240.46	
CB 3/ 0.00 / 240.96		CB 2/ 0.00 / 241.16		CB1/ 0.00 / 241.17	

Conduit/ FLOW	====>	"*" Conduit uses the normal flow option.			
STM - (14) (STORM) / 0.00		STM - (15) (STORM) / 0.00		STM - (16) (STORM) / 0.00	
STM - (17) (STORM) / 0.00		STM - (18) (STORM) / 0.00		STM - (19) (STORM) / 0.00	
STM - (20) (STORM) / 0.00		STM - (21) (STORM) / 0.00		STM - (22) (STORM) / 0.00	
STM - (24) (STORM) / 0.00		STM - (25) (STORM) / 0.00		STM - (26) (STORM) / 0.00	
STM - (27) (STORM) / 0.00		STM - (28) (STORM) / 0.00		STM - (29) (STORM) / 0.00	
STM - (30) (STORM) / 0.00		STM - (32) (STORM) / 0.00		STM - (33) (STORM) / 0.00	
STM - (34) (STORM) / 0.00		STM - (35) (STORM) / 0.00		STM - (36) (STORM) / 0.00	
STM - (37) (STORM) / 0.00		STM - (38) (STORM) / 0.00		STM - (39) (STORM) / 0.00	
STM - (40) (STORM) / 0.00		STM - (41) (STORM) / 0.00		STM - (53) (STORM) / 0.00	
STM - (54) (STORM) / 0.00		STM - (55) (STORM) / 0.00		STM - (56) (STORM) / 0.00	
STM - (57) (STORM) / 0.00		STM - (58) (STORM) / 0.00		STM - (59) (STORM) / 0.00	
ID*352/ 0.00		STM - (61) (STORM) / 0.00		STM - (62) (STORM) / 0.00	
STM - (63) (STORM) / 0.00		STM - (65) (STORM) / 0.00		STM - (66) (STORM) / 0.00	
ID*359/ 0.00		STM - (67) (STORM) / 0.00		STM - (68) (STORM) / 0.00	
ID*362/ 0.00		STM - (69) (STORM) / 0.00		STM - (70) (STORM) / 0.00	
ID*365/ 0.00		STM - (71) (STORM) / 0.00		STM - (72) (STORM) / 0.00	
ID*368/ 0.00		STM - (73) (STORM) / 0.00		ID*370/ 0.00	
STM - (74) (STORM) / 0.00		STM - (75) (STORM) / 0.00		STM - (76) (STORM) / 0.00	
ID*374/ 0.00		STM - (77) (STORM) / 0.00		ID*376/ 0.00	
STM - (78) (STORM) / 0.00		ID*378/ 0.00		STM - (79) (STORM) / 0.00	
STM - (80) (STORM) / 0.00		ID*381/ 0.00		STM - (81) (STORM) / 0.00	
STM - (82) (STORM) / 0.00		ID*384/ 0.00		STM - (83) (STORM) / 0.00	
STM - (84) (STORM) / 0.00		ID*387/ 0.00		ID*388/ 0.00	
ID*390/ 0.00		STM - (86) (STORM) / 0.00		STM - (87) (STORM) / 0.00	
STM - (88) (STORM) / 0.00		STM - (89) (STORM) / 0.00		STM - (95) (STORM) / 0.00	
STM - (96) (STORM) / 0.00		ID*397/ 0.00		ID*398/ 0.00	
STM - (119) (STORM) / 0.00		STM - (120) (STORM) / 0.00		ID*401/ 0.00	
STM - (121) (STORM) / 0.00		STM - (130) (STORM) / 0.00		ID*409/ 0.00	
STM - (142) (STORM) / 0.00		STM - (143) (STORM) / 0.00		ID*412/ 0.00	
ID*413/ 0.00		ID*414/ 0.00		ID*415/ 0.00	
STM - (151) (STORM) / 0.00		STM - (152) (STORM) / 0.00		ID*418/ 0.00	
STM - (155) (STORM) / 0.00		STM - (158) (STORM) / 0.00		ID*421/ 0.00	
STM - (160) (STORM) / 0.00		ID*423/ 0.00		STM - (161) (STORM) / 0.00	
ID*425/ 0.00		STM - (170) (STORM) / 0.00		ID*427/ 0.00	
Link116/ 0.00		Link117/ 0.00		Link118/ 0.00	
Link119/ 0.00		Link122/ 0.00		spill/ 0.00	
Roof Control/ 0.00		Roof Control2/ 0.00		Orifice 1/ 0.00	
FREE# 1/ 0.00					

Conduit/ Velocity					
STM - (14) (STORM) / 0.00		STM - (15) (STORM) / 0.00		STM - (16) (STORM) / 0.00	
STM - (17) (STORM) / 0.00		STM - (18) (STORM) / 0.00		STM - (19) (STORM) / 0.00	
STM - (20) (STORM) / 0.00		STM - (21) (STORM) / 0.00		STM - (22) (STORM) / 0.00	
STM - (24) (STORM) / 0.00		STM - (25) (STORM) / 0.00		STM - (26) (STORM) / 0.00	
STM - (27) (STORM) / 0.00		STM - (28) (STORM) / 0.00		STM - (29) (STORM) / 0.00	
STM - (30) (STORM) / 0.00		STM - (32) (STORM) / 0.00		STM - (33) (STORM) / 0.00	
STM - (34) (STORM) / 0.00		STM - (35) (STORM) / 0.00		STM - (36) (STORM) / 0.00	

STM - (88) (STORM) /	0.00	STM - (89) (STORM) /	0.00	STM - (95) (STORM) /	0.00
STM - (96) (STORM) /	0.00	ID*397/	0.00	ID*398/	0.00
STM - (119) (STORM) /	0.00	STM - (120) (STORM) /	0.00	ID*401/	0.00
STM - (121) (STORM) /	0.00	STM - (130) (STORM) /	0.00	ID*409/	0.00
STM - (142) (STORM) /	0.00	STM - (143) (STORM) /	0.00	ID*412/	0.00
		ID*413/	0.00	ID*415/	0.00
STM - (151) (STORM) /	0.00	STM - (152) (STORM) /	0.00	ID*418/	0.00
STM - (155) (STORM) /	0.00	STM - (158) (STORM) /	0.00	ID*421/	0.00
STM - (160) (STORM) /	0.00	ID*423/	0.00	STM - (161) (STORM) /	0.00
		ID*425/	0.00	ID*427/	0.00
		Link116/	0.00	Link117/	0.00
		Link119/	0.00	Link118/	0.00
Roof Control1/	0.00	Link122/	0.00	spill/	0.00
		Roof Control2/	0.00	Orifice 1/	0.00

Conduit/	Upstream/	Downstream	Elevation						
STM - (14) (STORM) /	240.08/	240.08	STM - (15) (STORM) /	239.37/	239.37	STM - (16) (STORM) /	239.06/	239.06	
STM - (17) (STORM) /	238.72/	238.72	STM - (18) (STORM) /	238.51/	238.51	STM - (19) (STORM) /	238.12/	238.12	
STM - (20) (STORM) /	237.90/	237.90	STM - (21) (STORM) /	237.26/	237.26	STM - (22) (STORM) /	237.00/	237.00	
STM - (24) (STORM) /	236.06/	236.06	STM - (25) (STORM) /	235.58/	235.58	STM - (26) (STORM) /	235.10/	235.10	
STM - (27) (STORM) /	234.84/	234.84	STM - (28) (STORM) /	234.15/	234.15	STM - (29) (STORM) /	232.50/	232.50	
STM - (30) (STORM) /	241.18/	241.18	STM - (32) (STORM) /	240.80/	240.80	STM - (33) (STORM) /	240.28/	240.28	
STM - (34) (STORM) /	240.02/	240.02	STM - (35) (STORM) /	239.79/	239.79	STM - (36) (STORM) /	239.61/	239.61	
STM - (37) (STORM) /	239.48/	239.48	STM - (38) (STORM) /	239.30/	239.30	STM - (39) (STORM) /	239.10/	239.10	
STM - (40) (STORM) /	235.50/	235.50	STM - (41) (STORM) /	233.23/	233.23	STM - (53) (STORM) /	239.43/	239.43	
STM - (54) (STORM) /	239.11/	239.11	STM - (55) (STORM) /	238.40/	238.40	STM - (56) (STORM) /	238.05/	238.05	
STM - (57) (STORM) /	240.23/	240.23	STM - (58) (STORM) /	240.03/	240.03	STM - (59) (STORM) /	240.88/	240.88	
		ID*352/	239.48/	239.48	STM - (61) (STORM) /	240.03/	240.03	STM - (62) (STORM) /	239.48/
STM - (63) (STORM) /	239.61/	239.61	STM - (65) (STORM) /	239.87/	239.87	STM - (66) (STORM) /	240.98/	240.98	
		ID*359/	239.87/	239.87	STM - (67) (STORM) /	240.02/	240.02	STM - (68) (STORM) /	240.17/
		ID*362/	240.17/	240.17	STM - (69) (STORM) /	240.28/	240.28	STM - (70) (STORM) /	240.44/
		ID*365/	240.44/	240.44	STM - (71) (STORM) /	240.55/	240.55	STM - (72) (STORM) /	240.90/
		ID*368/	240.55/	240.55	STM - (73) (STORM) /	240.70/	240.70	ID*370/	240.70/
STM - (74) (STORM) /	240.80/	240.80	STM - (75) (STORM) /	240.72/	240.72	STM - (76) (STORM) /	240.64/	240.64	
		ID*374/	240.50/	240.50	STM - (77) (STORM) /	240.64/	240.64	ID*376/	240.38/
STM - (78) (STORM) /	240.50/	240.50	ID*378/	240.22/	240.22	STM - (79) (STORM) /	240.38/	240.38	
STM - (80) (STORM) /	240.22/	240.22	ID*381/	239.50/	239.50	STM - (81) (STORM) /	240.08/	240.08	
STM - (82) (STORM) /	239.50/	239.50	ID*384/	239.29/	239.29	STM - (83) (STORM) /	239.37/	239.37	
STM - (84) (STORM) /	239.29/	239.29	ID*387/	239.23/	239.23	ID*388/	239.15/	239.15	
		ID*390/	238.89/	238.89	STM - (86) (STORM) /	239.06/	239.06	STM - (87) (STORM) /	239.21/
STM - (88) (STORM) /	238.83/	238.83	STM - (89) (STORM) /	238.40/	238.40	STM - (95) (STORM) /	239.05/	239.05	
STM - (96) (STORM) /	234.84/	234.84	ID*397/	236.47/	236.47	ID*398/	236.80/	236.80	
STM - (119) (STORM) /	240.23/	240.23	STM - (120) (STORM) /	239.87/	239.87	ID*401/	236.68/	236.68	
STM - (121) (STORM) /	236.80/	236.80	STM - (130) (STORM) /	245.93/	245.93	ID*409/	245.32/	245.32	
STM - (142) (STORM) /	240.28/	240.28	STM - (143) (STORM) /	239.50/	239.50	ID*412/	239.98/	239.98	
		ID*413/	239.15/	239.15	ID*414/	237.67/	237.67	ID*415/	237.42/
STM - (151) (STORM) /	240.91/	240.91	STM - (152) (STORM) /	240.72/	240.72	ID*418/	239.73/	239.73	
STM - (155) (STORM) /	240.00/	240.00	STM - (158) (STORM) /	239.70/	239.70	ID*421/	244.62/	244.62	
STM - (160) (STORM) /	237.93/	237.93	ID*423/	233.23/	233.23	STM - (161) (STORM) /	234.15/	234.15	
		ID*425/	238.34/	238.34	STM - (170) (STORM) /	232.18/	232.18	ID*427/	238.05/
		Link116/	240.72/	240.72	Link117/	240.50/	240.50	Link118/	240.22/
		Link119/	239.50/	239.50	Link122/	238.12/	238.12	spill/	241.16/
Roof Control1/	241.36/	241.36	Roof Control2/	241.36/	241.36	Orifice 1/	232.50/	232.50	

Cycle 500 Time 0 Hrs - 41.67 Min

Junction /	Depth /	Elevation	====>	** Junction is	Surcharged.			
STM MH 188/	0.02 /	244.64		STM MH 187/	0.01 /	246.69	STM MH 203/	0.01 /
STM MH 236/	0.02 /	245.34		STM MH 21/	0.01 /	238.13	STM MH 23/	0.00 /
STM MH 154/	0.00 /	237.00		STM MH 22/	0.00 /	237.42	CB 6/	0.01 /
STM MH 227/	0.01 /	240.78		STM MH 132/	0.01 /	241.19	STM MH 116/	0.01 /
STM MH 221/	0.00 /	237.67		STM MH 35/	0.01 /	240.45	STM MH 36/	0.01 /
STM MH 118/	0.01 /	240.29		STM MH 34/	0.01 /	240.91	STM MH 121/	0.01 /
STM MH 120/	0.01 /	240.71		STM MH 117/	0.01 /	240.03	STM MH 119/	0.01 /
STM MH 20/	0.01 /	238.35		STM MH 37/	0.01 /	239.88	STM MH 40/	0.01 /
STM MH 86/	0.00 /	240.88		STM MH 115/	0.00 /	240.03	STM MH 87/	0.00 /
STM MH 223/	0.01 /	240.92		STM MH 220/	0.00 /	237.90	STM MH 205/	0.00 /
STM MH 128/	0.01 /	239.52		STM MH 127/	0.01 /	240.09	STM MH 122/	0.01 /
STM MH 123/	0.01 /	240.65		STM MH 126/	0.01 /	240.23	STM MH 125/	0.01 /
STM MH 124/	0.01 /	240.51		STM MH 129/	0.02 /	239.39	STM MH 133/	0.01 /
STM MH 170/	0.01 /	236.81		STM MH 38/	0.00 /	239.79	STM MH 18/	0.01 /
STM MH 218/	0.01 /	240.29		STM MH 131/	0.01 /	239.30	STM MH 219/	0.01 /
STM MH 17/	0.01 /	239.16		STM MH 39/	0.01 /	239.62	STM MH 153/	0.01 /
STM MH 204/	0.01 /	240.53		CULTEC 5/	0.01 /	236.48	STM MH 27/	0.01 /
STM MH 228/	0.02 /	240.02		STM MH 26/	0.01 /	236.07	STM MH 169/	0.02 /
STM MH 28/	0.01 /	235.11		STM MH 168/	0.02 /	240.25	STM MH 41/	0.00 /
PROP CB 39/	0.01 /	240.77		STM CBMH 19/	0.00 /	238.72	STM CBMH 250/	0.00 /
STM MH 134/	0.01 /	239.71		STM MH 135/	0.02 /	239.23	PROP DCB 62/	0.00 /
STM MH 256/	0.00 /	239.10		STM MH 85/	0.01 /	238.41	CULTEC 1/	0.00 /
STM MH 82/	0.02 /	239.75		CULTEC 2/	0.00 /	239.11	STM MH 83/	0.01 /
CAP 23/	0.01 /	241.37		STM MH 142/	0.02 /	239.07	CAP 14/	0.01 /
CAP 15/	0.01 /	241.37		CAP 16/	0.01 /	241.37	CAP 24/	0.01 /
CAP 22/	0.00 /	241.36		CAP 21/	0.00 /	241.36	CAP 20/	0.00 /
CAP 19/	0.00 /	241.36		CAP 18/	0.01 /	241.37	CAP 17/	0.01 /
CAP 13/	0.01 /	241.37		CAP 12/	0.00 /	241.36	CAP 11/	0.01 /
CAP 10/	0.01 /	241.37		CAP 9/	0.01 /	241.37	CAP 8/	0.01 /
CAP 7/	0.01 /	241.37		CAP 6/	0.01 /	241.37	CAP 5/	0.01 /
CAP 4/	0.01 /	241.37		CAP 3/	0.01 /	241.37	CAP 2/	0.00 /
CAP 1/	0.00 /	241.36		STM MH 141/	0.01 /	239.94	STM MH 42/	0.01 /
CULTEC 4/	0.01 /	234.85		STM MH 43/	0.01 /	235.51	STM MH 238/	0.01 /
STM MH 237/	0.01 /	238.21		STM MH 31/	0.00 /	232.50	STM MH 239/	0.01 /
STM MH 30/	0.01 /	233.25		STM MH 255/	0.00 /	232.18	Roof 1/	0.00 /
Roof 2/	0.00 /	252.00		Node117/	0.18 /	232.68	CB 4/	0.01 /
CB 3/	0.01 /	240.97		CB 2/	0.01 /	241.17	CB1/	0.01 /

Conduit/ FLOW ==> ** Conduit uses the normal flow option.

STM - (14) (STORM) /	0.00	STM - (15) (STORM) /	0.00	STM - (16) (STORM) /	0.00	STM - (17) (STORM) /	0.00
STM - (18) (STORM) /	0.00	STM - (19) (STORM) /	0.00	STM - (20) (STORM) /	0.00	STM - (21) (STORM) /	0.00
STM - (22) (STORM) /	0.00	STM - (24) (STORM) /	0.00	STM - (25) (STORM) /	0.00	STM - (26) (STORM) /	0.00
STM - (27) (STORM) /	0.00	STM - (28) (STORM) /	0.00	STM - (29) (STORM) /	0.00	STM - (30) (STORM) /	0.00
STM - (32) (STORM) /	0.00	STM - (33) (STORM) /	0.00	STM - (34) (STORM) /	0.00	STM - (35) (STORM) /	0.00
STM - (36) (STORM) /	0.00	STM - (37) (STORM) /	0.00	STM - (38) (STORM) /	0.00	STM - (39) (STORM) /	0.00
STM - (40) (STORM) /	0.00	STM - (41) (STORM) /	0.00	STM - (53) (STORM) /	0.00	STM - (54) (STORM) /	0.00
STM - (55) (STORM) /	0.00	STM - (56) (STORM) /	0.00	STM - (57) (STORM) /	0.00	STM - (58) (STORM) /	0.00
STM - (59) (STORM) /	0.00	ID*352/	0.00	STM - (61) (STORM) /	0.00	STM - (62) (STORM) /	0.00
STM - (63) (STORM) /	0.00	STM - (65) (STORM) /	0.00	STM - (66) (STORM) /	0.00	ID*359/	0.00
STM - (67) (STORM) /	0.00	STM - (68) (STORM) /	0.00	ID*362/	0.00	STM - (69) (STORM) /	0.00
STM - (70) (STORM) /	0.00	ID*365/	0.00	STM - (71) (STORM) /	0.00	STM - (72) (STORM) /	0.00
ID*368/	0.00	STM - (73) (STORM) /	0.00	ID*370/	0.00	STM - (74) (STORM) /	0.00
STM - (75) (STORM) /	0.00	STM - (76) (STORM) /	0.00	ID*374/	0.00	STM - (77) (STORM) /	0.00
ID*376/	0.00	STM - (78) (STORM) /	0.00	ID*378/	0.00	STM - (79) (STORM) /	0.00
STM - (80) (STORM) /	0.00	ID*381/	0.00	STM - (81) (STORM) /	0.00	STM - (82) (STORM) /	0.00
ID*384/	0.00	STM - (83) (STORM) /	0.00	STM - (84) (STORM) /	0.00	ID*387/	0.00
ID*388/	0.00	ID*390/	0.00	STM - (86) (STORM) /	0.00	STM - (87) (STORM) /	0.00
STM - (88) (STORM) /	0.00	STM - (89) (STORM) /	0.00	STM - (95) (STORM) /	0.00	STM - (96) (STORM) /	0.00
ID*397/	0.00	ID*398/	0.00	STM - (119) (STORM) /	0.00	STM - (120) (STORM) /	0.00
ID*401/	0.00	STM - (121) (STORM) /	0.00	STM - (130) (STORM) /	0.00	ID*409/	0.00
STM - (142) (STORM) /	0.00	STM - (143) (STORM) /	0.00	ID*412/	0.00	ID*413/	0.00
ID*414/	0.00	ID*415/	0.00	STM - (151) (STORM) /	0.00	STM - (152) (STORM) /	0.00
ID*418/	0.00	STM - (155) (STORM) /	0.00	STM - (158) (STORM) /	0.00	ID*421/	0.00
STM - (160) (STORM) /	0.00	ID*423/	0.00	STM - (161) (STORM) /	0.00	ID*425/	0.00
STM - (170) (STORM) /	0.00	ID*427/	0.00	Link116/	0.00	Link117/	0.00
Link118/	0.00	Link119/	0.00	Link122/	0.00	spill/	0.00
Roof Control1/	0.00	Roof Control2/	0.00	Orifice 1/	0.00	FREE# 1/	0.00

Cycle 1000 Time 1 Hrs - 23.33 Min

Junction / Depth / Elevation	====>	"*" Junction is Surcharged.			
STM MH 188/ 0.09 / 244.71		STM MH 187/ 0.06 / 246.74		STM MH 203/ 0.07 / 246.00	
STM MH 236/ 0.08 / 245.40		STM MH 21/ 0.13 / 238.25		STM MH 23/ 0.08 / 237.34	
STM MH 154/ 0.07 / 237.07		STM MH 22/ 0.09 / 237.51		CB 6/ 0.05 / 241.44	
STM MH 227/ 0.04 / 240.81		STM MH 132/ 0.03 / 241.21		STM MH 116/ 0.03 / 241.01	
STM MH 221/ 0.10 / 237.77		STM MH 35/ 0.08 / 240.52		STM MH 36/ 0.09 / 240.26	
STM MH 118/ 0.09 / 240.37		STM MH 34/ 0.05 / 240.95		STM MH 121/ 0.06 / 240.86	
STM MH 120/ 0.07 / 240.77		STM MH 117/ 0.09 / 240.11		STM MH 119/ 0.08 / 240.63	
STM MH 20/ 0.11 / 238.45		STM MH 37/ 0.10 / 239.97		STM MH 40/ 0.09 / 239.57	
STM MH 86/ 0.00 / 240.88		STM MH 115/ 0.00 / 240.03		STM MH 87/ 0.00 / 240.23	
STM MH 223/ 0.05 / 240.96		STM MH 220/ 0.12 / 238.02		STM MH 205/ 0.07 / 240.05	
STM MH 128/ 0.14 / 239.64		STM MH 127/ 0.12 / 240.20		STM MH 122/ 0.08 / 240.80	
STM MH 123/ 0.08 / 240.72		STM MH 126/ 0.12 / 240.33		STM MH 125/ 0.10 / 240.48	
STM MH 124/ 0.10 / 240.60		STM MH 129/ 0.14 / 239.51		STM MH 133/ 0.14 / 239.20	
STM MH 170/ 0.11 / 236.91		STM MH 38/ 0.09 / 239.88		STM MH 18/ 0.13 / 239.02	
STM MH 218/ 0.09 / 240.37		STM MH 131/ 0.15 / 239.44		STM MH 219/ 0.14 / 239.37	
STM MH 17/ 0.14 / 239.29		STM MH 39/ 0.09 / 239.70		STM MH 153/ 0.12 / 236.80	
STM MH 204/ 0.06 / 240.58		CULTEC 5/ 0.10 / 236.57		STM MH 27/ 0.09 / 235.67	
STM MH 228/ 0.10 / 240.10		STM MH 26/ 0.09 / 236.15		STM MH 169/ 0.09 / 239.96	
STM MH 28/ 0.10 / 235.20		STM MH 168/ 0.08 / 240.31		STM MH 41/ 0.04 / 239.34	
PROP CB 39/ 0.04 / 240.80		STM CBMH 19/ 0.12 / 238.84		STM CBMH 250/ 0.11 / 238.62	
STM MH 134/ 0.07 / 239.77		STM MH 135/ 0.09 / 239.30		PROP DCB 62/ 0.00 / 241.28	
STM MH 256/ 0.02 / 239.12		STM MH 85/ 0.05 / 238.45		CULTEC 1/ 0.01 / 238.84	
STM MH 82/ 0.12 / 239.85		CULTEC 2/ 0.02 / 239.13		STM MH 83/ 0.12 / 239.55	
CAP 23/ 0.03 / 241.39		STM MH 142/ 0.08 / 239.13		CAP 14/ 0.03 / 241.39	
CAP 15/ 0.03 / 241.39		CAP 16/ 0.03 / 241.39		CAP 24/ 0.04 / 241.40	
CAP 22/ 0.02 / 241.38		CAP 21/ 0.02 / 241.38		CAP 20/ 0.03 / 241.39	
CAP 19/ 0.03 / 241.39		CAP 18/ 0.03 / 241.39		CAP 17/ 0.03 / 241.39	
CAP 13/ 0.03 / 241.39		CAP 12/ 0.03 / 241.39		CAP 11/ 0.03 / 241.39	
CAP 10/ 0.03 / 241.39		CAP 9/ 0.03 / 241.39		CAP 8/ 0.03 / 241.39	
CAP 7/ 0.03 / 241.39		CAP 6/ 0.03 / 241.39		CAP 5/ 0.04 / 241.40	
CAP 4/ 0.03 / 241.39		CAP 3/ 0.03 / 241.39		CAP 2/ 0.00 / 241.36	
CAP 1/ 0.00 / 241.36		STM MH 141/ 0.06 / 239.99		STM MH 42/ 0.05 / 238.10	
CULTEC 4/ 0.11 / 234.95		STM MH 43/ 0.07 / 235.57		STM MH 238/ 0.06 / 237.99	
STM MH 237/ 0.03 / 238.23		STM MH 31/ 0.05 / 232.55		STM MH 239/ 0.10 / 234.25	
STM MH 30/ 0.15 / 233.38		STM MH 255/ 0.05 / 232.23		Roof 1/ 0.00 / 252.00	

Roof 2/ CB 3/	0.00 / 0.05 /	252.00 241.01	Node117/ CB 2/	0.74 / 0.05 /	233.24 241.21	CB 4/ CB1/	0.05 / 0.05 /	240.51 241.22
Conduit/ FLOW ==> "*" Conduit uses the normal flow option.								
STM - (14)	(STORM)/	0.02	STM - (15)	(STORM)/	0.04	STM - (16)	(STORM)/	0.04
STM - (18)	(STORM)/	0.03	STM - (19)	(STORM)/	0.03	STM - (20)	(STORM)/	0.04
STM - (22)	(STORM)/	0.02	STM - (24)	(STORM)/	0.03	STM - (25)	(STORM)/	0.03
STM - (27)	(STORM)/	0.02	STM - (28)	(STORM)/	0.04	STM - (29)	(STORM)/	0.07
STM - (32)	(STORM)/	0.00	STM - (33)	(STORM)/	0.01	STM - (34)	(STORM)/	0.01
STM - (36)	(STORM)/	0.01	STM - (37)	(STORM)/	0.02	STM - (38)	(STORM)/	0.02
STM - (40)	(STORM)/	0.02	STM - (41)	(STORM)/	0.02	STM - (53)	(STORM)/	0.03
STM - (55)	(STORM)/	0.00	STM - (56)	(STORM)/	0.01	STM - (57)	(STORM)/	0.00
STM - (59)	(STORM)/	0.00	ID*352/		0.00	STM - (61)	(STORM)/	0.00
STM - (63)	(STORM)/	0.00	STM - (65)	(STORM)/	0.00	STM - (66)	(STORM)/	ID*359/
STM - (67)	(STORM)/	0.00	STM - (68)	(STORM)/	0.00	ID*362/		0.01
STM - (70)	(STORM)/	0.00	ID*365/		0.01	STM - (71)	(STORM)/	0.00
ID*368/		0.01	STM - (73)	(STORM)/	0.00	ID*370/		0.01
STM - (75)	(STORM)/	0.00	STM - (76)	(STORM)/	0.01	ID*374/		0.01
ID*376/		0.02	STM - (78)	(STORM)/	0.00	ID*378/		0.02
STM - (80)	(STORM)/	0.00	ID*381/		0.03	STM - (81)	(STORM)/	0.00
ID*384/		0.04	STM - (83)	(STORM)/	0.00	STM - (84)	(STORM)/	ID*387/
ID*388/		0.00	ID*390/		0.04	STM - (86)	(STORM)/	0.01
STM - (88)	(STORM)/	0.02	STM - (89)	(STORM)/	0.00*	STM - (95)	(STORM)/	0.01
ID*397/		0.03	ID*398/		0.02	STM - (119)	(STORM)/	0.01*
ID*401/		0.03	STM - (121)	(STORM)/	0.02	STM - (130)	(STORM)/	ID*409/
STM - (142)	(STORM)/	0.01	STM - (143)	(STORM)/	0.01	ID*412/		ID*413/
ID*414/		0.03	ID*415/		0.02	STM - (151)	(STORM)/	0.00
ID*418/		0.02	STM - (155)	(STORM)/	0.00	STM - (158)	(STORM)/	ID*421/
STM - (160)	(STORM)/	0.00	ID*423/		0.04	STM - (161)	(STORM)/	ID*425/
STM - (170)	(STORM)/	0.02	ID*427/		0.00	Link116/		Link117/
Link118/		0.01	Link119/		0.01	Link122/		spill/
Roof Control1/		0.00	Roof Control2/		0.00	Orifice 1/		FREE# 1/
Cycle	1500	Time	2 Hrs - 5.00 Min					
Junction / Depth / Elevation ==> "*" Junction is Surcharged.								
STM MH 188/	0.25 /	244.87	STM MH 187/	0.14 /	246.82	STM MH 203/	0.19 /	246.12
STM MH 236/	0.20 /	245.52	STM MH 21/	0.62 /	238.74	STM MH 23/	0.54 /	237.80
STM MH 154/	0.57 /	237.57	STM MH 22/	0.57 /	237.99	CB 6/	0.12 /	241.51
STM MH 227/	0.08 /	240.85	STM MH 132/	0.07 /	241.25	STM MH 116/	0.07 /	241.05
STM MH 221/	0.59 /	238.26	STM MH 35/	0.22 /	240.66	STM MH 36/	0.26 /	240.43
STM MH 118/	0.25 /	240.53	STM MH 34/	0.10 /	241.00	STM MH 121/	0.14 /	240.94
STM MH 120/	0.17 /	240.87	STM MH 117/	0.28 /	240.30	STM MH 119/	0.20 /	240.75
STM MH 20/	0.56 /	238.90	STM MH 37/	0.31 /	240.18	STM MH 40/	0.36 /	239.84
STM MH 86/	0.07 /	240.95	STM MH 115/	0.10 /	240.13	STM MH 87/	0.07 /	240.30
STM MH 223/	0.11 /	241.02	STM MH 220/	0.60 /	238.50	STM MH 205/	0.22 /	240.20
STM MH 128/	0.49 /	239.99	STM MH 127/	0.34 /	240.42	STM MH 122/	0.19 /	240.92
STM MH 123/	0.21 /	240.85	STM MH 126/	0.34 /	240.55	STM MH 125/	0.29 /	240.67
STM MH 124/	0.27 /	240.77	STM MH 129/	0.53 /	239.90	STM MH 133/	0.52 /	239.58
STM MH 170/	0.64 /	237.44	STM MH 38/	0.30 /	240.09	STM MH 18/	0.52 /	239.41
STM MH 218/	0.23 /	240.51	STM MH 131/	0.54 /	239.83	STM MH 219/	0.52 /	239.75
STM MH 17/	0.53 /	239.68	STM MH 39/	0.34 /	239.95	STM MH 153/	0.63 /	237.31
STM MH 204/	0.14 /	240.66	CULTEC 5/	0.57 /	237.04	STM MH 27/	0.58 /	236.16
STM MH 228/	0.30 /	240.30	STM MH 26/	0.55 /	236.61	STM MH 169/	0.20 /	240.07
STM MH 28/	0.70 /	235.80	STM MH 168/	0.17 /	240.40	STM MH 41/	0.25 /	239.55
PROP CB 39/	0.09 /	240.85	STM CBMH 19/	0.51 /	239.23	STM CBMH 250/	0.54 /	239.05
STM MH 134/	0.20 /	239.90	STM MH 135/	0.26 /	239.47	PROP DCB 62/	0.00 /	241.28
STM MH 256/	0.18 /	239.28	STM MH 85/	0.35 /	238.75	CULTEC 1/	0.20 /	239.03
STM MH 82/	0.37 /	240.10	CULTEC 2/	0.32 /	239.43	STM MH 83/	0.41 /	239.84
CAP 23/	0.06 /	241.42	STM MH 142/	0.24 /	239.29	CAP 14/	0.07 /	241.43
CAP 15/	0.06 /	241.42	CAP 16/	0.06 /	241.42	CAP 24/	0.09 /	241.45
CAP 22/	0.04 /	241.40	CAP 21/	0.05 /	241.41	CAP 20/	0.05 /	241.41
CAP 19/	0.06 /	241.42	CAP 18/	0.06 /	241.42	CAP 17/	0.06 /	241.42
CAP 13/	0.06 /	241.42	CAP 12/	0.05 /	241.41	CAP 11/	0.06 /	241.42
CAP 10/	0.06 /	241.42	CAP 9/	0.07 /	241.43	CAP 8/	0.06 /	241.42
CAP 7/	0.06 /	241.42	CAP 6/	0.06 /	241.42	CAP 5/	0.08 /	241.44
CAP 4/	0.07 /	241.43	CAP 3/	0.07 /	241.43	CAP 2/	0.06 /	241.42

CAP 1/	0.06 /	241.42	STM MH 141/	0.17 /	240.10	STM MH 42/	0.30 /	238.35
CULTEC 4/	0.72 /	235.56	STM MH 43/	0.36 /	235.86	STM MH 238/	0.14 /	238.07
STM MH 237/	0.05 /	238.25	STM MH 31/	0.66 /	233.16	STM MH 239/	1.11 /	235.26
STM MH 30/	1.83*/	235.07	STM MH 255/	0.43 /	232.61	Roof 1/	0.01 /	252.01
Roof 2/	0.01 /	252.01	Nodel17/	2.36*/	234.86	CB 4/	0.11 /	240.57
CB 3/	0.11 /	241.07	CB 2/	0.11 /	241.27	CB1/	0.09 /	241.26

	Conduit/	FLOW	====>	"*" Conduit uses the	normal flow option.			
0.46	STM - (14) (STORM)/	0.18		STM - (15) (STORM)/	0.33	STM - (16) (STORM)/	0.41	STM - (17) (STORM)/
0.61	STM - (18) (STORM)/	0.46		STM - (19) (STORM)/	0.48	STM - (20) (STORM)/	0.62	STM - (21) (STORM)/
0.80	STM - (22) (STORM)/	0.60		STM - (24) (STORM)/	0.74	STM - (25) (STORM)/	0.77	STM - (26) (STORM)/
0.01	STM - (27) (STORM)/	0.81		STM - (28) (STORM)/	0.92	STM - (29) (STORM)/	1.42	STM - (30) (STORM)/
0.15	STM - (32) (STORM)/	0.02		STM - (33) (STORM)/	0.08	STM - (34) (STORM)/	0.11	STM - (35) (STORM)/
0.11	STM - (36) (STORM)/	0.15		STM - (37) (STORM)/	0.17	STM - (38) (STORM)/	0.21	STM - (39) (STORM)/
0.27	STM - (40) (STORM)/	0.45		STM - (41) (STORM)/	0.49	STM - (53) (STORM)/	0.23	STM - (54) (STORM)/
0.01	STM - (55) (STORM)/	0.17		STM - (56) (STORM)/	0.29	STM - (57) (STORM)/	0.01	STM - (58) (STORM)/
0.02	STM - (59) (STORM)/	0.01		ID*352/	0.02*	STM - (61) (STORM)/	0.01	STM - (62) (STORM)/
0.12	STM - (63) (STORM)/	0.02		STM - (65) (STORM)/	0.03	STM - (66) (STORM)/	0.03	ID*359/
0.02	STM - (67) (STORM)/	0.01		STM - (68) (STORM)/	0.02	ID*362/	0.09	STM - (69) (STORM)/
0.02	STM - (70) (STORM)/	0.02		ID*365/	0.06	STM - (71) (STORM)/	0.02	STM - (72) (STORM)/
0.01	ID*368/	0.04		STM - (73) (STORM)/	0.01	ID*370/	0.03	STM - (74) (STORM)/
0.01	STM - (75) (STORM)/	0.01		STM - (76) (STORM)/	0.05	ID*374/	0.06	STM - (77) (STORM)/
0.02	ID*376/	0.11		STM - (78) (STORM)/	0.01	ID*378/	0.13	STM - (79) (STORM)/
0.02	STM - (80) (STORM)/	0.02		ID*381/	0.19	STM - (81) (STORM)/	0.02	STM - (82) (STORM)/
0.37	ID*384/	0.36		STM - (83) (STORM)/	0.01	STM - (84) (STORM)/	0.01	ID*387/
0.09	ID*388/	0.01		ID*390/	0.45	STM - (86) (STORM)/	0.05	STM - (87) (STORM)/
0.16	STM - (88) (STORM)/	0.15		STM - (89) (STORM)/	0.10	STM - (95) (STORM)/	0.08	STM - (96) (STORM)/
0.07	ID*397/	0.72		ID*398/	0.60	STM - (119) (STORM)/	0.02*	STM - (120) (STORM)/
0.09	ID*401/	0.69		STM - (121) (STORM)/	0.10	STM - (130) (STORM)/	0.05	ID*409/
0.37	STM - (142) (STORM)/	0.03		STM - (143) (STORM)/	0.09	ID*412/	0.09	ID*413/
0.02	ID*414/	0.62		ID*415/	0.61	STM - (151) (STORM)/	0.02	STM - (152) (STORM)/
0.11	ID*418/	0.15		STM - (155) (STORM)/	0.02*	STM - (158) (STORM)/	0.00	ID*421/
0.47	STM - (160) (STORM)/	0.01		ID*423/	0.92	STM - (161) (STORM)/	0.04	ID*425/
0.03	STM - (170) (STORM)/	1.39		ID*427/	0.11	Link116/	0.02	Link117/
0.00	Link118/	0.03		Link119/	0.03	Link122/	0.14	spill/
1.39	Roof Control1/	0.01		Roof Control2/	0.01	Orifice 1/	1.40	FREE# 1/

Cycle 2000 Time 2 Hrs - 46.67 Min

	Junction / Depth / Elevation	====>	"*" Junction is	Surcharged.			
	STM MH 188/ 0.85*/ 245.47		STM MH 187/ 0.33 / 247.01		STM MH 203/ 0.61*/ 246.54		
	STM MH 236/ 0.81*/ 246.13		STM MH 21/ 3.43 / 241.55		STM MH 23/ 3.05*/ 240.31		
	STM MH 154/ 3.04*/ 240.04		STM MH 22/ 3.08*/ 240.50		CB 6/ 1.18*/ 242.57		
	STM MH 227/ 0.84*/ 241.61		STM MH 132/ 1.05*/ 242.23		STM MH 116/ 0.10 / 241.08		
	STM MH 221/ 3.17*/ 240.84		STM MH 35/ 0.86 / 241.30		STM MH 36/ 0.98 / 241.15		
	STM MH 118/ 0.95 / 241.23		STM MH 34/ 0.53*/ 241.43		STM MH 121/ 0.63*/ 241.43		
	STM MH 120/ 0.71*/ 241.41		STM MH 117/ 1.01 / 241.03		STM MH 119/ 0.83 / 241.38		
	STM MH 20/ 3.36*/ 241.70		STM MH 37/ 0.98 / 240.85		STM MH 40/ 0.99 / 240.47		
	STM MH 86/ 0.17 / 241.05		STM MH 115/ 0.62 / 240.65		STM MH 87/ 0.45 / 240.68		
	STM MH 223/ 1.65*/ 242.56		STM MH 220/ 3.29*/ 241.19		STM MH 205/ 2.45*/ 242.43		
	STM MH 128/ 2.91*/ 242.41		STM MH 127/ 2.38*/ 242.46		STM MH 122/ 1.83*/ 242.56		
	STM MH 123/ 1.91*/ 242.55		STM MH 126/ 2.28*/ 242.50		STM MH 125/ 2.15*/ 242.53		
	STM MH 124/ 2.04*/ 242.54		STM MH 129/ 2.99*/ 242.36		STM MH 133/ 3.12*/ 242.18		
	STM MH 170/ 3.07 / 239.87		STM MH 38/ 0.97*/ 240.76		STM MH 18/ 3.19*/ 242.08		
	STM MH 218/ 2.17 / 242.45		STM MH 131/ 3.03*/ 242.32		STM MH 219/ 3.04*/ 242.27		
	STM MH 17/ 3.08*/ 242.23		STM MH 39/ 1.00 / 240.61		STM MH 153/ 2.99*/ 239.67		
	STM MH 204/ 1.93 / 242.45		CULTEC 5/ 2.83 / 239.30		STM MH 27/ 3.08*/ 238.65		
	STM MH 228/ 1.60*/ 241.60		STM MH 26/ 2.94*/ 239.00		STM MH 169/ 0.33 / 240.20		
	STM MH 28/ 3.16*/ 238.26		STM MH 168/ 0.26 / 240.49		STM MH 41/ 0.74 / 240.04		
	PROP CB 39/ 0.13 / 240.89		STM CBMH 19/ 3.24*/ 241.96		STM CBMH 250/ 3.32*/ 241.83		
	STM MH 134/ 0.76 / 240.46		STM MH 135/ 1.04*/ 240.25		PROP DCB 62/ 0.00 / 241.28		
	STM MH 256/ 0.78*/ 239.88		STM MH 85/ 1.59*/ 239.99		CULTEC 1/ 1.19 / 240.02		
	STM MH 82/ 1.59*/ 241.32		CULTEC 2/ 1.22 / 240.33		STM MH 83/ 1.47*/ 240.90		
	CAP 23/ 0.87*/ 242.23		STM MH 142/ 0.57*/ 239.62		CAP 14/ 1.20*/ 242.56		
	CAP 15/ 1.19*/ 242.55		CAP 16/ 1.18*/ 242.54		CAP 24/ 0.85*/ 242.21		
	CAP 22/ 0.96*/ 242.32		CAP 21/ 1.00*/ 242.36		CAP 20/ 1.05*/ 242.41		
	CAP 19/ 1.10*/ 242.46		CAP 18/ 1.14*/ 242.50		CAP 17/ 1.17*/ 242.53		

CAP 13/	0.10 /	241.46	CAP 12/	0.08 /	241.44	CAP 11/	0.09 /	241.45
CAP 10/	0.09 /	241.45	CAP 9/	0.10 /	241.46	CAP 8/	0.09 /	241.45
CAP 7/	0.09 /	241.45	CAP 6/	0.08 /	241.44	CAP 5/	0.12 /	241.48
CAP 4/	0.11 /	241.47	CAP 3/	0.10 /	241.46	CAP 2/	0.13 /	241.49
CAP 1/	0.14 /	241.50	STM MH 141/	0.30 /	240.23	STM MH 42/	1.67*/	239.72
CULTEC 4/	3.03 /	237.87	STM MH 43/	2.98*/	238.48	STM MH 238/	0.22 /	238.15
STM MH 237/	0.07 /	238.27	STM MH 31/	1.06*/	233.56	STM MH 239/	3.30 /	237.46
STM MH 30/	3.87*/	237.10	STM MH 255/	0.62 /	232.80	Roof 1/	0.08 /	252.08
Roof 2/	0.08 /	252.08	Node117/	3.95*/	236.45	CB 4/	2.01 /	242.47
CB 3/	1.56 /	242.52	CB 2/	1.39 /	242.55	CB1/	1.38 /	242.55

Conduit/ FLOW ==> "*" Conduit uses the normal flow option.								
STM - (14) (STORM)/	0.21	STM - (15) (STORM)/	0.34	STM - (16) (STORM)/	0.51	STM - (17) (STORM)/		
0.65		STM - (18) (STORM)/	0.65	STM - (19) (STORM)/	0.71	STM - (20) (STORM)/	1.05	STM - (21) (STORM)/
1.06		STM - (22) (STORM)/	1.06	STM - (24) (STORM)/	1.05	STM - (25) (STORM)/	1.14	STM - (26) (STORM)/
1.22		STM - (27) (STORM)/	1.28	STM - (28) (STORM)/	1.18	STM - (29) (STORM)/	2.54	STM - (30) (STORM)/
0.03		STM - (32) (STORM)/	0.05	STM - (33) (STORM)/	0.21	STM - (34) (STORM)/	0.30	STM - (35) (STORM)/
0.39		STM - (36) (STORM)/	0.40	STM - (37) (STORM)/	0.45	STM - (38) (STORM)/	0.64	STM - (39) (STORM)/
0.38		STM - (40) (STORM)/	1.13	STM - (41) (STORM)/	1.24	STM - (53) (STORM)/	0.53	STM - (54) (STORM)/
0.62		STM - (55) (STORM)/	0.47	STM - (56) (STORM)/	0.63	STM - (57) (STORM)/	0.07	STM - (58) (STORM)/
0.07		STM - (59) (STORM)/	0.07	ID*352/	0.14	STM - (61) (STORM)/	0.07	STM - (62) (STORM)/
0.05		STM - (63) (STORM)/	0.05*	STM - (65) (STORM)/	0.06*	STM - (66) (STORM)/	0.06	ID*359/
0.33		STM - (67) (STORM)/	0.03	STM - (68) (STORM)/	0.03*	ID*362/	0.26	STM - (69) (STORM)/
0.03*		STM - (70) (STORM)/	0.04	ID*365/	0.16	STM - (71) (STORM)/	0.03	STM - (72) (STORM)/
0.04		ID*368/	0.12	STM - (73) (STORM)/	0.03	ID*370/	0.08	STM - (74) (STORM)/
0.03		STM - (75) (STORM)/	0.03	STM - (76) (STORM)/	0.04	ID*374/	0.07	STM - (77) (STORM)/
0.02		ID*376/	0.10	STM - (78) (STORM)/	0.03	ID*378/	0.13	STM - (79) (STORM)/
0.03		STM - (80) (STORM)/	0.04	ID*381/	0.24	STM - (81) (STORM)/	0.03	STM - (82) (STORM)/
0.03		ID*384/	0.41	STM - (83) (STORM)/	0.03	STM - (84) (STORM)/	0.02	ID*387/
0.44		ID*388/	0.03	ID*390/	0.62	STM - (86) (STORM)/	0.11	STM - (87) (STORM)/
0.20		STM - (88) (STORM)/	0.32	STM - (89) (STORM)/	0.10	STM - (95) (STORM)/	0.20	STM - (96) (STORM)/
0.43		ID*397/	1.36	ID*398/	1.06	STM - (119) (STORM)/	0.05*	STM - (120) (STORM)/
0.15*		ID*401/	1.29	STM - (121) (STORM)/	0.23	STM - (130) (STORM)/	0.13	ID*409/
0.22		STM - (142) (STORM)/	-0.01	STM - (143) (STORM)/	-0.01	ID*412/	-0.01	ID*413/
0.44		ID*414/	1.05	ID*415/	1.06	STM - (151) (STORM)/	0.04	STM - (152) (STORM)/
0.04		ID*418/	0.35	STM - (155) (STORM)/	0.05	STM - (158) (STORM)/	0.00	ID*421/
0.28		STM - (160) (STORM)/	0.01*	ID*423/	1.28	STM - (161) (STORM)/	0.10	ID*425/
0.68		STM - (170) (STORM)/	2.53	ID*427/	0.38	Link116/	-0.03	Link117/
0.01		Link118/	0.03	Link119/	0.07	Link122/	0.34	spill/
0.02		Roof Control1/	0.07	Roof Control2/	0.07	Orifice 1/	2.54	FREE# 1/
2.53								

Cycle 2500 Time 3 Hrs - 28.33 Min

Junction / Depth / Elevation ==> "*" Junction is Surcharged.								
STM MH 188/	0.16 /	244.78	STM MH 187/	0.09 /	246.77	STM MH 203/	0.12 /	246.05
STM MH 236/	0.13 /	245.45	STM MH 21/	1.85 /	239.97	STM MH 23/	2.14*/	239.40
STM MH 154/	2.28*/	239.28	STM MH 22/	2.07*/	239.49	CB 6/	0.12 /	241.51
STM MH 227/	0.06 /	240.83	STM MH 132/	0.05 /	241.23	STM MH 116/	0.05 /	241.03
STM MH 221/	1.97*/	239.64	STM MH 35/	0.15 /	240.59	STM MH 36/	0.18 /	240.35
STM MH 118/	0.16 /	240.44	STM MH 34/	0.07 /	240.97	STM MH 121/	0.09 /	240.89
STM MH 120/	0.11 /	240.81	STM MH 117/	0.19 /	240.21	STM MH 119/	0.13 /	240.68
STM MH 20/	1.75*/	240.09	STM MH 37/	0.22 /	240.09	STM MH 40/	0.50 /	239.98
STM MH 86/	0.20 /	241.08	STM MH 115/	0.33 /	240.36	STM MH 87/	0.23 /	240.46
STM MH 223/	0.50 /	241.41	STM MH 220/	1.90*/	239.80	STM MH 205/	0.92*/	240.90
STM MH 128/	1.36*/	240.87	STM MH 127/	0.88 /	240.96	STM MH 122/	0.67 /	241.39
STM MH 123/	0.70 /	241.34	STM MH 126/	0.85 /	241.07	STM MH 125/	0.80 /	241.18
STM MH 124/	0.77 /	241.27	STM MH 129/	1.41*/	240.78	STM MH 133/	1.45 /	240.51
STM MH 170/	2.40 /	239.20	STM MH 38/	0.25 /	240.04	STM MH 18/	1.53*/	240.42
STM MH 218/	0.66 /	240.94	STM MH 131/	1.41*/	240.70	STM MH 219/	1.40*/	240.63
STM MH 17/	1.42 /	240.57	STM MH 39/	0.38 /	239.99	STM MH 153/	2.45*/	239.13
STM MH 204/	0.43 /	240.95	CULTEC 5/	2.54 /	239.01	STM MH 27/	2.86*/	238.44
STM MH 228/	0.20 /	240.20	STM MH 26/	2.67*/	238.73	STM MH 169/	0.13 /	240.00
STM MH 28/	3.04*/	238.14	STM MH 168/	0.11 /	240.34	STM MH 41/	0.57 /	239.87
PROP CB 39/	0.06 /	240.82	STM CBMH 19/	1.59*/	240.31	STM CBMH 250/	1.68*/	240.19
STM MH 134/	0.17 /	239.87	STM MH 135/	0.58*/	239.79	PROP DCB 62/	0.00 /	241.28
STM MH 256/	0.50 /	239.60	STM MH 85/	1.28*/	239.68	CULTEC 1/	0.95 /	239.78
STM MH 82/	0.29 /	240.02	CULTEC 2/	0.78 /	239.89	STM MH 83/	0.50 /	239.93

CAP 23/	0.04 /	241.40	STM MH 142/	0.16 /	239.21	CAP 14/	0.06 /	241.42
CAP 15/	0.05 /	241.41	CAP 16/	0.04 /	241.40	CAP 24/	0.06 /	241.42
CAP 22/	0.03 /	241.39	CAP 21/	0.03 /	241.39	CAP 20/	0.04 /	241.40
CAP 19/	0.04 /	241.40	CAP 18/	0.04 /	241.40	CAP 17/	0.04 /	241.40
CAP 13/	0.04 /	241.40	CAP 12/	0.04 /	241.40	CAP 11/	0.04 /	241.40
CAP 10/	0.04 /	241.40	CAP 9/	0.05 /	241.41	CAP 8/	0.04 /	241.40
CAP 7/	0.04 /	241.40	CAP 6/	0.04 /	241.40	CAP 5/	0.06 /	241.42
CAP 4/	0.05 /	241.41	CAP 3/	0.05 /	241.41	CAP 2/	0.14 /	241.50
CAP 1/	0.15 /	241.51	STM MH 141/	0.12 /	240.04	STM MH 42/	1.34*/	239.39
CULTEC 4/	3.03 /	237.87	STM MH 43/	2.68*/	238.18	STM MH 238/	0.09 /	238.02
STM MH 237/	0.04 /	238.24	STM MH 31/	1.03*/	233.52	STM MH 239/	3.22 /	237.38
STM MH 30/	3.77*/	237.00	STM MH 255/	0.61 /	232.79	Roof 1/	0.10 /	252.10
Roof 2/	0.10 /	252.10	Node117/	3.89*/	236.39	CB 4/	0.42 /	240.88
CB 3/	0.13 /	241.09	CB 2/	0.14 /	241.30	CB1/	0.25 /	241.42

Conduit/ FLOW ==> "*" Conduit uses the normal flow option.								
STM - (14) (STORM)/	0.35	STM - (15) (STORM)/	0.52	STM - (16) (STORM)/	0.58	STM - (17) (STORM)/	0.62	0.62
STM - (18) (STORM)/	0.71	STM - (19) (STORM)/	0.64	STM - (20) (STORM)/	0.70	STM - (21) (STORM)/	0.71	0.71
STM - (22) (STORM)/	1.07	STM - (24) (STORM)/	1.03	STM - (25) (STORM)/	1.05	STM - (26) (STORM)/	1.07	1.07
STM - (27) (STORM)/	0.01	STM - (28) (STORM)/	1.29	STM - (29) (STORM)/	2.46	STM - (30) (STORM)/	0.01	0.01
STM - (32) (STORM)/	0.08	STM - (33) (STORM)/	0.04	STM - (34) (STORM)/	0.05	STM - (35) (STORM)/	0.08	0.08
STM - (36) (STORM)/	0.43	STM - (37) (STORM)/	0.09	STM - (38) (STORM)/	0.28	STM - (39) (STORM)/	0.43	0.43
STM - (40) (STORM)/	0.16	STM - (41) (STORM)/	1.14	STM - (53) (STORM)/	0.12	STM - (54) (STORM)/	0.16	0.16
STM - (55) (STORM)/	0.09	STM - (56) (STORM)/	0.65	STM - (57) (STORM)/	0.09	STM - (58) (STORM)/	0.09	0.09
STM - (59) (STORM)/	0.01	ID*352/	0.18	STM - (61) (STORM)/	0.09	STM - (62) (STORM)/	0.01	0.01
STM - (63) (STORM)/	0.06	STM - (65) (STORM)/	0.01	STM - (66) (STORM)/	0.01	ID*359/	0.06	0.06
STM - (67) (STORM)/	0.01	STM - (68) (STORM)/	0.01	ID*362/	0.05	STM - (69) (STORM)/	0.01	0.01
STM - (70) (STORM)/	0.01	ID*365/	0.03	STM - (71) (STORM)/	0.01	STM - (72) (STORM)/	0.01	0.01
ID*368/	0.01	STM - (73) (STORM)/	0.01	ID*370/	0.01	STM - (74) (STORM)/	0.01	0.01
STM - (75) (STORM)/	0.01*	STM - (76) (STORM)/	0.15	ID*374/	0.18	STM - (77) (STORM)/	0.01*	0.01*
ID*376/	0.01*	STM - (78) (STORM)/	0.01*	ID*378/	0.28	STM - (79) (STORM)/	0.01*	0.01*
STM - (80) (STORM)/	0.01*	ID*381/	0.36	STM - (81) (STORM)/	0.01*	STM - (82) (STORM)/	0.01*	0.01*
ID*384/	0.55	STM - (83) (STORM)/	0.01*	STM - (84) (STORM)/	0.01*	ID*387/	0.55	0.55
ID*388/	0.05	ID*390/	0.61	STM - (86) (STORM)/	0.02*	STM - (87) (STORM)/	0.05	0.05
STM - (88) (STORM)/	0.08	STM - (89) (STORM)/	0.25	STM - (95) (STORM)/	0.04	STM - (96) (STORM)/	0.08	0.08
ID*397/	0.03	ID*398/	0.71	STM - (119) (STORM)/	0.01*	STM - (120) (STORM)/	0.03	0.03
ID*401/	0.04	STM - (121) (STORM)/	0.04	STM - (130) (STORM)/	0.02	ID*409/	0.04	0.04
STM - (142) (STORM)/	0.56	STM - (143) (STORM)/	0.11	ID*412/	0.11	ID*413/	0.56	0.56
ID*414/	0.07	ID*415/	0.71	STM - (151) (STORM)/	0.02	STM - (152) (STORM)/	0.07	0.07
ID*418/	0.05	STM - (155) (STORM)/	0.01*	STM - (158) (STORM)/	0.00	ID*421/	0.05	0.05
STM - (160) (STORM)/	0.63	ID*423/	1.31	STM - (161) (STORM)/	0.02	ID*425/	0.63	0.63
STM - (170) (STORM)/	0.05	ID*427/	0.44	Link116/	0.04	Link117/	0.05	0.05
Link118/	0.00	Link119/	0.03	Link122/	0.07	spill/	0.00	0.00
Roof Control/	2.47	Roof Control2/	0.09	Orifice 1/	2.46	FREE# 1/	2.47	2.47

Cycle 3000 Time 4 Hrs - 10.00 Min

Junction / Depth / Elevation ==> "*" Junction is Surcharged.								
STM MH 188/	0.11 /	244.73	STM MH 187/	0.07 /	246.75	STM MH 203/	0.09 /	246.02
STM MH 236/	0.09 /	245.41	STM MH 21/	0.27 /	238.39	STM MH 23/	0.25 /	237.51
STM MH 154/	0.34 /	237.34	STM MH 22/	0.27 /	237.69	CB 6/	0.06 /	241.45
STM MH 227/	0.04 /	240.81	STM MH 132/	0.04 /	241.22	STM MH 116/	0.04 /	241.02
STM MH 221/	0.27 /	237.94	STM MH 35/	0.11 /	240.55	STM MH 36/	0.13 /	240.30
STM MH 118/	0.12 /	240.40	STM MH 34/	0.05 /	240.95	STM MH 121/	0.07 /	240.87
STM MH 120/	0.08 /	240.78	STM MH 117/	0.13 /	240.15	STM MH 119/	0.10 /	240.65
STM MH 20/	0.24 /	238.58	STM MH 37/	0.15 /	240.02	STM MH 40/	0.37 /	239.85
STM MH 86/	0.19 /	241.07	STM MH 115/	0.31 /	240.34	STM MH 87/	0.22 /	240.45
STM MH 223/	0.05 /	240.96	STM MH 220/	0.27 /	238.17	STM MH 205/	0.11 /	240.09
STM MH 128/	0.20 /	239.70	STM MH 127/	0.16 /	240.24	STM MH 122/	0.09 /	240.81
STM MH 123/	0.10 /	240.74	STM MH 126/	0.15 /	240.37	STM MH 125/	0.13 /	240.51
STM MH 124/	0.13 /	240.63	STM MH 129/	0.22 /	239.59	STM MH 133/	0.23 /	239.29
STM MH 170/	0.50 /	237.30	STM MH 38/	0.15 /	239.94	STM MH 18/	0.23 /	239.12
STM MH 218/	0.11 /	240.39	STM MH 131/	0.22 /	239.51	STM MH 219/	0.22 /	239.45
STM MH 17/	0.22 /	239.37	STM MH 39/	0.25 /	239.86	STM MH 153/	0.60 /	237.28
STM MH 204/	0.07 /	240.59	CULTEC 5/	0.78 /	237.25	STM MH 27/	1.60*/	237.18
STM MH 228/	0.14 /	240.14	STM MH 26/	1.16*/	237.22	STM MH 169/	0.10 /	239.97
STM MH 28/	2.04*/	237.14	STM MH 168/	0.08 /	240.31	STM MH 41/	0.40 /	239.70

PROP CB 39/	0.04 /	240.80	STM CBMH 19/	0.23 /	238.95	STM CBMH 250/	0.24 /	238.75
STM MH 134/	0.10 /	239.80	STM MH 135/	0.12 /	239.33	PROP DCB 62/	0.00 /	241.28
STM MH 256/	0.29 /	239.39	STM MH 85/	0.36 /	238.76	CULTEC 1/	0.25 /	239.08
STM MH 82/	0.17 /	239.90	CULTEC 2/	0.28 /	239.39	STM MH 83/	0.19 /	239.62
CAP 23/	0.03 /	241.39	STM MH 142/	0.11 /	239.16	CAP 14/	0.03 /	241.39
CAP 15/	0.03 /	241.39	CAP 16/	0.03 /	241.39	CAP 24/	0.05 /	241.41
CAP 22/	0.02 /	241.38	CAP 21/	0.03 /	241.39	CAP 20/	0.03 /	241.39
CAP 19/	0.03 /	241.39	CAP 18/	0.03 /	241.39	CAP 17/	0.03 /	241.39
CAP 13/	0.03 /	241.39	CAP 12/	0.03 /	241.39	CAP 11/	0.03 /	241.39
CAP 10/	0.03 /	241.39	CAP 9/	0.03 /	241.39	CAP 8/	0.03 /	241.39
CAP 7/	0.03 /	241.39	CAP 6/	0.03 /	241.39	CAP 5/	0.04 /	241.40
CAP 4/	0.04 /	241.40	CAP 3/	0.04 /	241.40	CAP 2/	0.14 /	241.50
CAP 1/	0.15 /	241.51	STM MH 141/	0.08 /	240.01	STM MH 42/	0.33 /	238.38
CULTEC 4/	2.27 /	237.11	STM MH 43/	1.10 /	236.61	STM MH 238/	0.07 /	238.00
STM MH 237/	0.03 /	238.23	STM MH 31/	0.82 /	233.32	STM MH 239/	2.47 /	236.62
STM MH 30/	3.02*/	236.26	STM MH 255/	0.52 /	232.70	Roof 1/	0.09 /	252.09
Roof 2/	0.09 /	252.09	Node117/	3.39*/	235.89	CB 4/	0.05 /	240.51
CB 3/	0.05 /	241.01	CB 2/	0.05 /	241.21	CB1/	0.05 /	241.22

	Conduit/	FLOW	====>	"**" Conduit uses the normal flow option.				
0.12	STM - (14) (STORM) /	0.04	STM - (15) (STORM) /	0.08	STM - (16) (STORM) /	0.10	STM - (17) (STORM) /	
0.17	STM - (18) (STORM) /	0.12	STM - (19) (STORM) /	0.13	STM - (20) (STORM) /	0.16	STM - (21) (STORM) /	
0.42	STM - (22) (STORM) /	0.17	STM - (24) (STORM) /	0.38	STM - (25) (STORM) /	0.41	STM - (26) (STORM) /	
0.00	STM - (27) (STORM) /	0.43	STM - (28) (STORM) /	1.28	STM - (29) (STORM) /	1.91	STM - (30) (STORM) /	
0.04	STM - (32) (STORM) /	0.00	STM - (33) (STORM) /	0.02	STM - (34) (STORM) /	0.03	STM - (35) (STORM) /	
0.26	STM - (36) (STORM) /	0.04	STM - (37) (STORM) /	0.04	STM - (38) (STORM) /	0.22	STM - (39) (STORM) /	
0.07	STM - (40) (STORM) /	0.60	STM - (41) (STORM) /	0.62	STM - (53) (STORM) /	0.06	STM - (54) (STORM) /	
0.08	STM - (55) (STORM) /	0.14	STM - (56) (STORM) /	0.32	STM - (57) (STORM) /	0.08	STM - (58) (STORM) /	
0.01	STM - (59) (STORM) /	0.08*	ID*352/	0.17	STM - (61) (STORM) /	0.08	STM - (62) (STORM) /	
0.03	STM - (63) (STORM) /	0.01	STM - (65) (STORM) /	0.01	STM - (66) (STORM) /	0.01	ID*359/	
0.00	STM - (67) (STORM) /	0.00	STM - (68) (STORM) /	0.00	ID*362/	0.02	STM - (69) (STORM) /	
0.00	STM - (70) (STORM) /	0.00	ID*365/	0.01	STM - (71) (STORM) /	0.00	STM - (72) (STORM) /	
0.00	ID*368/	0.01	STM - (73) (STORM) /	0.00	ID*370/	0.01	STM - (74) (STORM) /	
0.00	STM - (75) (STORM) /	0.00	STM - (76) (STORM) /	0.01	ID*374/	0.02	STM - (77) (STORM) /	
0.00	ID*376/	0.03	STM - (78) (STORM) /	0.00	ID*378/	0.03	STM - (79) (STORM) /	
0.00	STM - (80) (STORM) /	0.00	ID*381/	0.05	STM - (81) (STORM) /	0.00	STM - (82) (STORM) /	
0.09	ID*384/	0.09	STM - (83) (STORM) /	0.00	STM - (84) (STORM) /	0.00	ID*387/	
0.02	ID*388/	0.00	ID*390/	0.11	STM - (86) (STORM) /	0.01	STM - (87) (STORM) /	
0.04	STM - (88) (STORM) /	0.04*	STM - (89) (STORM) /	0.16	STM - (95) (STORM) /	0.02	STM - (96) (STORM) /	
0.02	ID*397/	0.30	ID*398/	0.20	STM - (119) (STORM) /	0.01*	STM - (120) (STORM) /	
0.02	ID*401/	0.25	STM - (121) (STORM) /	0.02	STM - (130) (STORM) /	0.01	ID*409/	
0.09	STM - (142) (STORM) /	0.01	STM - (143) (STORM) /	0.02	ID*412/	0.02	ID*413/	
0.01	ID*414/	0.16	ID*415/	0.17	STM - (151) (STORM) /	0.01	STM - (152) (STORM) /	
0.03	ID*418/	0.04	STM - (155) (STORM) /	0.00*	STM - (158) (STORM) /	0.00	ID*421/	
0.12	STM - (160) (STORM) /	0.00	ID*423/	1.29	STM - (161) (STORM) /	0.01	ID*425/	
0.01	STM - (170) (STORM) /	1.92	ID*427/	0.26	Link116/	0.00	Link117/	
0.00	Link118/	0.01	Link119/	0.01	Link122/	0.03	spill/	
1.92	Roof Control/	0.08	Roof Control2/	0.08	Orifice 1/	1.91	FREE# 1/	
Cycle	3500	Time	4 Hrs - 51.67 Min					

	Junction / Depth / Elevation	====>	"**" Junction is Surcharged.						
0.07	STM MH 188/	0.07 /	244.69	STM MH 187/	0.04 /	246.72	STM MH 203/	0.06 /	245.99
0.06	STM MH 236/	0.06 /	245.38	STM MH 21/	0.18 /	238.30	STM MH 23/	0.17 /	237.43
0.16	STM MH 154/	0.16 /	237.16	STM MH 22/	0.18 /	237.60	CB 6/	0.04 /	241.43
0.03	STM MH 227/	0.03 /	240.80	STM MH 132/	0.02 /	241.20	STM MH 116/	0.02 /	241.00
0.18	STM MH 221/	0.18 /	237.85	STM MH 35/	0.07 /	240.51	STM MH 36/	0.08 /	240.25
0.08	STM MH 118/	0.08 /	240.36	STM MH 34/	0.03 /	240.93	STM MH 121/	0.04 /	240.84
0.05	STM MH 120/	0.05 /	240.75	STM MH 117/	0.09 /	240.11	STM MH 119/	0.06 /	240.61
0.16	STM MH 20/	0.16 /	238.50	STM MH 37/	0.09 /	239.96	STM MH 40/	0.32 /	239.80
0.18	STM MH 86/	0.18 /	241.06	STM MH 115/	0.28 /	240.31	STM MH 87/	0.20 /	240.43
0.04	STM MH 223/	0.04 /	240.95	STM MH 220/	0.18 /	238.08	STM MH 205/	0.07 /	240.05
0.13	STM MH 128/	0.13 /	239.63	STM MH 127/	0.10 /	240.18	STM MH 122/	0.06 /	240.78
0.06	STM MH 123/	0.06 /	240.70	STM MH 126/	0.10 /	240.31	STM MH 125/	0.09 /	240.47
0.08	STM MH 124/	0.08 /	240.58	STM MH 129/	0.14 /	239.51	STM MH 133/	0.15 /	239.21
0.18	STM MH 170/	0.18 /	236.98	STM MH 38/	0.09 /	239.88	STM MH 18/	0.15 /	239.04
0.07	STM MH 218/	0.07 /	240.35	STM MH 131/	0.14 /	239.43	STM MH 219/	0.14 /	239.37

STM MH 17/	0.14 /	239.29	STM MH 39/	0.19 /	239.80	STM MH 153/	0.20 /	236.88
STM MH 204/	0.05 /	240.57	CULTEC 5/	0.18 /	236.65	STM MH 27/	0.18 /	235.76
STM MH 228/	0.10 /	240.10	STM MH 26/	0.18 /	236.24	STM MH 169/	0.06 /	239.93
STM MH 28/	0.22 /	235.32	STM MH 168/	0.05 /	240.28	STM MH 41/	0.34 /	239.64
PROP CB 39/	0.03 /	240.79	STM CBMH 19/	0.15 /	238.87	STM CBMH 250/	0.16 /	238.67
STM MH 134/	0.07 /	239.77	STM MH 135/	0.08 /	239.29	PROP DCB 62/	0.00 /	241.28
STM MH 256/	0.24 /	239.34	STM MH 85/	0.18 /	238.58	CULTEC 1/	0.12 /	238.95
STM MH 82/	0.12 /	239.85	CULTEC 2/	0.18 /	239.29	STM MH 83/	0.12 /	239.55
CAP 23/	0.02 /	241.38	STM MH 142/	0.07 /	239.12	CAP 14/	0.02 /	241.38
CAP 15/	0.02 /	241.38	CAP 16/	0.02 /	241.38	CAP 24/	0.03 /	241.39
CAP 22/	0.01 /	241.37	CAP 21/	0.02 /	241.38	CAP 20/	0.02 /	241.38
CAP 19/	0.02 /	241.38	CAP 18/	0.02 /	241.38	CAP 17/	0.02 /	241.38
CAP 13/	0.02 /	241.38	CAP 12/	0.02 /	241.38	CAP 11/	0.02 /	241.38
CAP 10/	0.02 /	241.38	CAP 9/	0.02 /	241.38	CAP 8/	0.02 /	241.38
CAP 7/	0.02 /	241.38	CAP 6/	0.02 /	241.38	CAP 5/	0.03 /	241.39
CAP 4/	0.02 /	241.38	CAP 3/	0.02 /	241.38	CAP 2/	0.13 /	241.49
CAP 1/	0.14 /	241.50	STM MH 141/	0.05 /	239.98	STM MH 42/	0.23 /	238.28
CULTEC 4/	0.21 /	235.05	STM MH 43/	0.24 /	235.74	STM MH 238/	0.04 /	237.97
STM MH 237/	0.02 /	238.22	STM MH 31/	0.33 /	232.83	STM MH 239/	0.19 /	234.34
STM MH 30/	0.51 /	233.74	STM MH 255/	0.25 /	232.43	Roof 1/	0.08 /	252.08
Roof 2/	0.08 /	252.08	Node117/	1.17 /	233.67	CB 4/	0.04 /	240.50
CB 3/	0.04 /	241.00	CB 2/	0.04 /	241.20	CB1/	0.03 /	241.20

Conduit/ FLOW ==> "*" Conduit uses the normal flow option.								
STM - (14) (STORM)/	0.05	0.02	STM - (15) (STORM)/	0.04	STM - (16) (STORM)/	0.04	STM - (17) (STORM)/	0.04
STM - (18) (STORM)/	0.08	0.05	STM - (19) (STORM)/	0.06	STM - (20) (STORM)/	0.07	STM - (21) (STORM)/	0.07
STM - (22) (STORM)/	0.11	0.08	STM - (24) (STORM)/	0.10	STM - (25) (STORM)/	0.10	STM - (26) (STORM)/	0.10
STM - (27) (STORM)/	0.00	0.11	STM - (28) (STORM)/	0.13	STM - (29) (STORM)/	0.45	STM - (30) (STORM)/	0.45
STM - (32) (STORM)/	0.02	0.00	STM - (33) (STORM)/	0.01	STM - (34) (STORM)/	0.01	STM - (35) (STORM)/	0.01
STM - (36) (STORM)/	0.19	0.02	STM - (37) (STORM)/	0.02	STM - (38) (STORM)/	0.17	STM - (39) (STORM)/	0.17
STM - (40) (STORM)/	0.03	0.30	STM - (41) (STORM)/	0.30	STM - (53) (STORM)/	0.03	STM - (54) (STORM)/	0.03
STM - (55) (STORM)/	0.07	0.06	STM - (56) (STORM)/	0.10	STM - (57) (STORM)/	0.07	STM - (58) (STORM)/	0.07
STM - (59) (STORM)/	0.00	0.07*	ID*352/	0.15	STM - (61) (STORM)/	0.07	STM - (62) (STORM)/	0.07
STM - (63) (STORM)/	0.01	0.00	STM - (65) (STORM)/	0.00	STM - (66) (STORM)/	0.00	ID*359/	0.00
STM - (67) (STORM)/	0.00	0.00	STM - (68) (STORM)/	0.00	ID*362/	0.01	STM - (69) (STORM)/	0.01
STM - (70) (STORM)/	0.00	0.00	ID*365/	0.01	STM - (71) (STORM)/	0.00	STM - (72) (STORM)/	0.00
STM - (75) (STORM)/	0.00	0.00	ID*368/	0.00	ID*370/	0.00	STM - (74) (STORM)/	0.00
STM - (80) (STORM)/	0.00	0.00	STM - (76) (STORM)/	0.00	ID*374/	0.01	STM - (77) (STORM)/	0.01
STM - (88) (STORM)/	0.01	0.01	ID*376/	0.01	ID*378/	0.01	STM - (79) (STORM)/	0.01
STM - (142) (STORM)/	0.04	0.00	ID*381/	0.02	STM - (81) (STORM)/	0.00	STM - (82) (STORM)/	0.00
STM - (160) (STORM)/	0.06	0.04	ID*384/	0.04	STM - (83) (STORM)/	0.00	STM - (84) (STORM)/	0.00
STM - (170) (STORM)/	0.00	0.01	ID*388/	0.00	ID*390/	0.05	STM - (86) (STORM)/	0.05
Roof Control/	0.46	0.02	STM - (88) (STORM)/	0.04	STM - (89) (STORM)/	0.04	STM - (95) (STORM)/	0.04
Roof Control/	0.46	0.01	ID*397/	0.09	ID*398/	0.08	STM - (119) (STORM)/	0.08
Roof Control/	0.46	0.01	ID*401/	0.09	STM - (121) (STORM)/	0.01	STM - (130) (STORM)/	0.01
Roof Control/	0.46	0.04	STM - (142) (STORM)/	0.00	STM - (143) (STORM)/	0.01	ID*412/	0.01
Roof Control/	0.46	0.00	ID*414/	0.08	ID*415/	0.08	STM - (151) (STORM)/	0.08
Roof Control/	0.46	0.01	ID*418/	0.02	STM - (155) (STORM)/	0.00*	STM - (158) (STORM)/	0.00
Roof Control/	0.46	0.06	STM - (160) (STORM)/	0.00	ID*423/	0.14	STM - (161) (STORM)/	0.14
Roof Control/	0.46	0.00	STM - (170) (STORM)/	0.46	ID*427/	0.19	Link116/	0.19
Roof Control/	0.46	0.00	Link118/	0.00	Link119/	0.00	Link122/	0.00
Roof Control/	0.46	0.07	Roof Control2/	0.07	Orifice 1/	0.46	FREE# 1/	0.46

Cycle 4000 Time 5 Hrs - 33.33 Min

Junction / Depth / Elevation ==> "*" Junction is Surcharged.								
STM MH 188/	0.05 /	244.67	STM MH 187/	0.03 /	246.71	STM MH 203/	0.04 /	245.97
STM MH 236/	0.05 /	245.37	STM MH 21/	0.13 /	238.25	STM MH 23/	0.11 /	237.37
STM MH 154/	0.11 /	237.11	STM MH 22/	0.12 /	237.54	CB 6/	0.03 /	241.42
STM MH 227/	0.02 /	240.79	STM MH 132/	0.02 /	241.20	STM MH 116/	0.02 /	241.00
STM MH 221/	0.13 /	237.80	STM MH 35/	0.05 /	240.49	STM MH 36/	0.06 /	240.23
STM MH 118/	0.06 /	240.34	STM MH 34/	0.03 /	240.93	STM MH 121/	0.03 /	240.83
STM MH 120/	0.04 /	240.74	STM MH 117/	0.06 /	240.08	STM MH 119/	0.05 /	240.60
STM MH 20/	0.11 /	238.45	STM MH 37/	0.07 /	239.94	STM MH 40/	0.28 /	239.76
STM MH 86/	0.16 /	241.04	STM MH 115/	0.25 /	240.28	STM MH 87/	0.18 /	240.41
STM MH 223/	0.03 /	240.94	STM MH 220/	0.13 /	238.03	STM MH 205/	0.06 /	240.04
STM MH 128/	0.10 /	239.60	STM MH 127/	0.08 /	240.16	STM MH 122/	0.04 /	240.77

STM MH 123/	0.05 /	240.69	STM MH 126/	0.07 /	240.29	STM MH 125/	0.06 /	240.44
STM MH 124/	0.06 /	240.56	STM MH 129/	0.10 /	239.47	STM MH 133/	0.11 /	239.17
STM MH 170/	0.12 /	236.92	STM MH 38/	0.07 /	239.86	STM MH 18/	0.11 /	239.00
STM MH 218/	0.06 /	240.34	STM MH 131/	0.10 /	239.39	STM MH 219/	0.10 /	239.33
STM MH 17/	0.10 /	239.25	STM MH 39/	0.15 /	239.76	STM MH 153/	0.14 /	236.82
STM MH 204/	0.04 /	240.56	CULTEC 5/	0.13 /	236.60	STM MH 27/	0.13 /	235.71
STM MH 228/	0.07 /	240.07	STM MH 26/	0.12 /	236.18	STM MH 169/	0.05 /	239.92
STM MH 28/	0.15 /	235.25	STM MH 168/	0.04 /	240.27	STM MH 41/	0.29 /	239.59
PROP CB 39/	0.02 /	240.78	STM CBMH 19/	0.11 /	238.83	STM CBMH 250/	0.11 /	238.62
STM MH 134/	0.05 /	239.75	STM MH 135/	0.06 /	239.27	PROP DCB 62/	0.00 /	241.28
STM MH 256/	0.21 /	239.31	STM MH 85/	0.12 /	238.52	CULTEC 1/	0.08 /	238.91
STM MH 82/	0.09 /	239.82	CULTEC 2/	0.12 /	239.23	STM MH 83/	0.09 /	239.52
CAP 23/	0.01 /	241.37	STM MH 142/	0.06 /	239.11	CAP 14/	0.02 /	241.38
CAP 15/	0.02 /	241.38	CAP 16/	0.02 /	241.38	CAP 24/	0.02 /	241.38
CAP 22/	0.01 /	241.37	CAP 21/	0.01 /	241.37	CAP 20/	0.01 /	241.37
CAP 19/	0.01 /	241.37	CAP 18/	0.02 /	241.38	CAP 17/	0.02 /	241.38
CAP 13/	0.02 /	241.38	CAP 12/	0.01 /	241.37	CAP 11/	0.02 /	241.38
CAP 10/	0.02 /	241.38	CAP 9/	0.02 /	241.38	CAP 8/	0.02 /	241.38
CAP 7/	0.02 /	241.38	CAP 6/	0.01 /	241.37	CAP 5/	0.02 /	241.38
CAP 4/	0.02 /	241.38	CAP 3/	0.02 /	241.38	CAP 2/	0.12 /	241.48
CAP 1/	0.13 /	241.49	STM MH 141/	0.04 /	239.97	STM MH 42/	0.19 /	238.24
CULTEC 4/	0.15 /	234.99	STM MH 43/	0.20 /	235.70	STM MH 238/	0.03 /	237.96
STM MH 237/	0.01 /	238.21	STM MH 31/	0.25 /	232.74	STM MH 239/	0.13 /	234.28
STM MH 30/	0.37 /	233.60	STM MH 255/	0.19 /	232.37	Roof 1/	0.07 /	252.07
Roof 2/	0.07 /	252.07	Node117/	1.04 /	233.54	CB 4/	0.03 /	240.49
CB 3/	0.03 /	240.99	CB 2/	0.03 /	241.19	CB1/	0.02 /	241.19

Conduit/	FLOW	====> "*" Conduit uses the	normal	flow option.				
STM - (14) (STORM) /	0.01	STM - (15) (STORM) /	0.02	STM - (16) (STORM) /	0.02	STM - (17) (STORM) /		
0.03								
STM - (18) (STORM) /	0.03	STM - (19) (STORM) /	0.03	STM - (20) (STORM) /	0.04	STM - (21) (STORM) /		
0.04								
STM - (22) (STORM) /	0.04	STM - (24) (STORM) /	0.05	STM - (25) (STORM) /	0.05	STM - (26) (STORM) /		
0.05								
STM - (27) (STORM) /	0.06	STM - (28) (STORM) /	0.07	STM - (29) (STORM) /	0.28	STM - (30) (STORM) /		
0.00								
STM - (32) (STORM) /	0.00	STM - (33) (STORM) /	0.00	STM - (34) (STORM) /	0.01	STM - (35) (STORM) /		
0.01								
STM - (36) (STORM) /	0.01	STM - (37) (STORM) /	0.01	STM - (38) (STORM) /	0.13	STM - (39) (STORM) /		
0.15								
STM - (40) (STORM) /	0.20	STM - (41) (STORM) /	0.21	STM - (53) (STORM) /	0.01	STM - (54) (STORM) /		
0.02								
STM - (55) (STORM) /	0.03	STM - (56) (STORM) /	0.05	STM - (57) (STORM) /	0.06	STM - (58) (STORM) /		
0.06								
STM - (59) (STORM) /	0.06*	ID*352/	0.12	STM - (61) (STORM) /	0.06	STM - (62) (STORM) /		
0.00								
STM - (63) (STORM) /	0.00	STM - (65) (STORM) /	0.00	STM - (66) (STORM) /	0.00	ID*359/		
0.01								
STM - (67) (STORM) /	0.00	STM - (68) (STORM) /	0.00	ID*362/	0.01	STM - (69) (STORM) /		
0.00								
STM - (70) (STORM) /	0.00	ID*365/	0.00	STM - (71) (STORM) /	0.00	STM - (72) (STORM) /		
0.00								
ID*368/	0.00	STM - (73) (STORM) /	0.00	ID*370/	0.00	STM - (74) (STORM) /		
0.00								
STM - (75) (STORM) /	0.00	STM - (76) (STORM) /	0.00	ID*374/	0.00	STM - (77) (STORM) /		
0.00								
ID*376/	0.01	STM - (78) (STORM) /	0.00	ID*378/	0.01	STM - (79) (STORM) /		
0.00								
STM - (80) (STORM) /	0.00	ID*381/	0.01	STM - (81) (STORM) /	0.00	STM - (82) (STORM) /		
0.00								
ID*384/	0.02	STM - (83) (STORM) /	0.00	STM - (84) (STORM) /	0.00	ID*387/		
0.02								
ID*388/	0.00	ID*390/	0.03	STM - (86) (STORM) /	0.00	STM - (87) (STORM) /		
0.01								
STM - (88) (STORM) /	0.01	STM - (89) (STORM) /	0.02	STM - (95) (STORM) /	0.00	STM - (96) (STORM) /		
0.01								
ID*397/	0.05	ID*398/	0.04	STM - (119) (STORM) /	0.00	STM - (120) (STORM) /		
0.00								
ID*401/	0.04	STM - (121) (STORM) /	0.01	STM - (130) (STORM) /	0.00	ID*409/		
0.01								
STM - (142) (STORM) /	0.00	STM - (143) (STORM) /	0.01	ID*412/	0.01	ID*413/		
0.02								
ID*414/	0.04	ID*415/	0.04	STM - (151) (STORM) /	0.00	STM - (152) (STORM) /		
0.00								
ID*418/	0.01	STM - (155) (STORM) /	0.00	STM - (158) (STORM) /	0.00	ID*421/		
0.01								
STM - (160) (STORM) /	0.00	ID*423/	0.07	STM - (161) (STORM) /	0.00	ID*425/		
0.03								
STM - (170) (STORM) /	0.28	ID*427/	0.15	Link116/	0.00	Link117/		
0.00								
Link118/	0.00	Link119/	0.00	Link122/	0.01	spill/		
0.00								
Roof Control/	0.06	Roof Control2/	0.06	Orifice 1/	0.28	FREE# 1/		
0.28								

Cycle 4500 Time 6 Hrs - 15.00 Min

Junction / Depth / Elevation	====> "*" Junction is Surcharged.							
STM MH 188/	0.01 /	244.63	STM MH 187/	0.01 /	246.69	STM MH 203/	0.01 /	245.94
STM MH 236/	0.01 /	245.33	STM MH 21/	0.08 /	238.20	STM MH 23/	0.08 /	237.34
STM MH 154/	0.08 /	237.08	STM MH 22/	0.08 /	237.50	CB 6/	0.01 /	241.40
STM MH 227/	0.01 /	240.78	STM MH 132/	0.00 /	241.18	STM MH 116/	0.00 /	240.98
STM MH 221/	0.09 /	237.76	STM MH 35/	0.02 /	240.46	STM MH 36/	0.02 /	240.19
STM MH 118/	0.02 /	240.30	STM MH 34/	0.00 /	240.90	STM MH 121/	0.01 /	240.81
STM MH 120/	0.01 /	240.71	STM MH 117/	0.03 /	240.05	STM MH 119/	0.02 /	240.57

STM MH 20/	0.07 /	238.41	STM MH 37/	0.03 /	239.90	STM MH 40/	0.24 /	239.72
STM MH 86/	0.15 /	241.03	STM MH 115/	0.23 /	240.26	STM MH 87/	0.16 /	240.39
STM MH 223/	0.01 /	240.92	STM MH 220/	0.08 /	237.98	STM MH 205/	0.03 /	240.01
STM MH 128/	0.04 /	239.54	STM MH 127/	0.03 /	240.11	STM MH 122/	0.01 /	240.74
STM MH 123/	0.02 /	240.66	STM MH 126/	0.03 /	240.24	STM MH 125/	0.02 /	240.40
STM MH 124/	0.02 /	240.52	STM MH 129/	0.04 /	239.41	STM MH 133/	0.05 /	239.11
STM MH 170/	0.08 /	236.88	STM MH 38/	0.03 /	239.82	STM MH 18/	0.05 /	238.94
STM MH 218/	0.02 /	240.30	STM MH 131/	0.04 /	239.33	STM MH 219/	0.04 /	239.27
STM MH 17/	0.04 /	239.19	STM MH 39/	0.11 /	239.72	STM MH 153/	0.10 /	236.78
STM MH 204/	0.01 /	240.53	CULTEC 5/	0.09 /	236.56	STM MH 27/	0.10 /	235.67
STM MH 228/	0.02 /	240.02	STM MH 26/	0.09 /	236.15	STM MH 169/	0.01 /	239.88
STM MH 28/	0.12 /	235.22	STM MH 168/	0.01 /	240.24	STM MH 41/	0.26 /	239.56
PROP CB 39/	0.00 /	240.76	STM CBMH 19/	0.06 /	238.78	STM CBMH 250/	0.06 /	238.57
STM MH 134/	0.01 /	239.71	STM MH 135/	0.01 /	239.22	PROP DCB 62/	0.00 /	241.28
STM MH 256/	0.19 /	239.29	STM MH 85/	0.09 /	238.49	CULTEC 1/	0.06 /	238.89
STM MH 82/	0.02 /	239.75	CULTEC 2/	0.09 /	239.20	STM MH 83/	0.02 /	239.45
CAP 23/	0.00 /	241.36	STM MH 142/	0.01 /	239.06	CAP 14/	0.00 /	241.36
CAP 15/	0.00 /	241.36	CAP 16/	0.00 /	241.36	CAP 24/	0.00 /	241.36
CAP 22/	0.00 /	241.36	CAP 21/	0.00 /	241.36	CAP 20/	0.00 /	241.36
CAP 19/	0.00 /	241.36	CAP 18/	0.00 /	241.36	CAP 17/	0.00 /	241.36
CAP 13/	0.00 /	241.36	CAP 12/	0.00 /	241.36	CAP 11/	0.00 /	241.36
CAP 10/	0.00 /	241.36	CAP 9/	0.00 /	241.36	CAP 8/	0.00 /	241.36
CAP 7/	0.00 /	241.36	CAP 6/	0.00 /	241.36	CAP 5/	0.00 /	241.36
CAP 4/	0.00 /	241.36	CAP 3/	0.00 /	241.36	CAP 2/	0.11 /	241.47
CAP 1/	0.11 /	241.47	STM MH 141/	0.01 /	239.93	STM MH 42/	0.16 /	238.21
CULTEC 4/	0.11 /	234.95	STM MH 43/	0.17 /	235.67	STM MH 238/	0.01 /	237.94
STM MH 237/	0.00 /	238.20	STM MH 31/	0.20 /	232.70	STM MH 239/	0.09 /	234.24
STM MH 30/	0.29 /	233.52	STM MH 255/	0.16 /	232.34	Roof 1/	0.06 /	252.06
Roof 2/	0.06 /	252.06	Node117/	0.97 /	233.47	CB 4/	0.01 /	240.47
CB 3/	0.01 /	240.97	CB 2/	0.01 /	241.17	CB1/	0.01 /	241.18

Conduit/	FLOW	====> "*" Conduit uses the	normal flow option.					
STM - (14) (STORM)/	0.00	STM - (15) (STORM)/	0.00	STM - (16) (STORM)/	0.00	STM - (17) (STORM)/		
0.01								
STM - (18) (STORM)/	0.01	STM - (19) (STORM)/	0.01	STM - (20) (STORM)/	0.01	STM - (21) (STORM)/		
0.02								
STM - (22) (STORM)/	0.02	STM - (24) (STORM)/	0.03	STM - (25) (STORM)/	0.03	STM - (26) (STORM)/		
0.03								
STM - (27) (STORM)/	0.03	STM - (28) (STORM)/	0.03	STM - (29) (STORM)/	0.19	STM - (30) (STORM)/		
0.00								
STM - (32) (STORM)/	0.00	STM - (33) (STORM)/	0.00	STM - (34) (STORM)/	0.00	STM - (35) (STORM)/		
0.00								
STM - (36) (STORM)/	0.00	STM - (37) (STORM)/	0.00	STM - (38) (STORM)/	0.10	STM - (39) (STORM)/		
0.12								
STM - (40) (STORM)/	0.15	STM - (41) (STORM)/	0.15	STM - (53) (STORM)/	0.00	STM - (54) (STORM)/		
0.00*								
STM - (55) (STORM)/	0.02	STM - (56) (STORM)/	0.03	STM - (57) (STORM)/	0.05	STM - (58) (STORM)/		
0.05								
STM - (59) (STORM)/	0.05*	ID*352/	0.10	STM - (61) (STORM)/	0.05	STM - (62) (STORM)/		
0.00								
STM - (63) (STORM)/	0.00	STM - (65) (STORM)/	0.00	STM - (66) (STORM)/	0.00	ID*359/		
0.00								
STM - (67) (STORM)/	0.00	STM - (68) (STORM)/	0.00	ID*362/	0.00	STM - (69) (STORM)/		
0.00								
STM - (70) (STORM)/	0.00	ID*365/	0.00	STM - (71) (STORM)/	0.00	STM - (72) (STORM)/		
0.00								
ID*368/	0.00	STM - (73) (STORM)/	0.00	ID*370/	0.00	STM - (74) (STORM)/		
0.00								
STM - (75) (STORM)/	0.00	STM - (76) (STORM)/	0.00	ID*374/	0.00	STM - (77) (STORM)/		
0.00								
ID*376/	0.00	STM - (78) (STORM)/	0.00	ID*378/	0.00	STM - (79) (STORM)/		
0.00								
STM - (80) (STORM)/	0.00	ID*381/	0.00	STM - (81) (STORM)/	0.00	STM - (82) (STORM)/		
0.00								
ID*384/	0.00	STM - (83) (STORM)/	0.00	STM - (84) (STORM)/	0.00	ID*387/		
0.00								
ID*388/	0.00	ID*390/	0.00	STM - (86) (STORM)/	0.00	STM - (87) (STORM)/		
0.00								
STM - (88) (STORM)/	0.00*	STM - (89) (STORM)/	0.01	STM - (95) (STORM)/	0.00	STM - (96) (STORM)/		
0.00								
ID*397/	0.02	ID*398/	0.02	STM - (119) (STORM)/	0.00	STM - (120) (STORM)/		
0.00								
ID*401/	0.02	STM - (121) (STORM)/	0.00	STM - (130) (STORM)/	0.00	ID*409/		
0.00								
STM - (142) (STORM)/	0.00	STM - (143) (STORM)/	0.00	ID*412/	0.00	ID*413/		
0.00								
ID*414/	0.01	ID*415/	0.02	STM - (151) (STORM)/	0.00	STM - (152) (STORM)/		
0.00								
ID*418/	0.00	STM - (155) (STORM)/	0.00	STM - (158) (STORM)/	0.00	ID*421/		
0.00								
STM - (160) (STORM)/	0.00	ID*423/	0.03	STM - (161) (STORM)/	0.00	ID*425/		
0.01								
STM - (170) (STORM)/	0.20	ID*427/	0.12	Link116/	0.00	Link117/		
0.00								
Link118/	0.00	Link119/	0.00	Link122/	0.00	spill/		
0.00								
Roof Control1/	0.05	Roof Control2/	0.05	Orifice 1/	0.20	FREE# 1/		
0.20								

Cycle 5000 Time 6 Hrs - 56.67 Min

Junction / Depth / Elevation	====> "*" Junction is Surcharged.							
STM MH 188/	0.00 /	244.62	STM MH 187/	0.00 /	246.68	STM MH 203/	0.00 /	245.93
STM MH 236/	0.00 /	245.32	STM MH 21/	0.03 /	238.15	STM MH 23/	0.03 /	237.29
STM MH 154/	0.03 /	237.03	STM MH 22/	0.03 /	237.45	CB 6/	0.00 /	241.39

STM MH 227/	0.00 /	240.77	STM MH 132/	0.00 /	241.18	STM MH 116/	0.00 /	240.98
STM MH 221/	0.03 /	237.70	STM MH 35/	0.00 /	240.44	STM MH 36/	0.01 /	240.18
STM MH 118/	0.01 /	240.29	STM MH 34/	0.00 /	240.90	STM MH 121/	0.00 /	240.80
STM MH 120/	0.00 /	240.70	STM MH 117/	0.01 /	240.03	STM MH 119/	0.00 /	240.55
STM MH 20/	0.02 /	238.36	STM MH 37/	0.01 /	239.88	STM MH 40/	0.21 /	239.69
STM MH 86/	0.13 /	241.01	STM MH 115/	0.20 /	240.23	STM MH 87/	0.14 /	240.37
STM MH 223/	0.00 /	240.91	STM MH 220/	0.03 /	237.93	STM MH 205/	0.01 /	239.99
STM MH 128/	0.01 /	239.52	STM MH 127/	0.01 /	240.09	STM MH 122/	0.00 /	240.73
STM MH 123/	0.00 /	240.64	STM MH 126/	0.01 /	240.22	STM MH 125/	0.01 /	240.39
STM MH 124/	0.01 /	240.51	STM MH 129/	0.01 /	239.38	STM MH 133/	0.02 /	239.08
STM MH 170/	0.03 /	236.83	STM MH 38/	0.01 /	239.80	STM MH 18/	0.02 /	238.91
STM MH 218/	0.01 /	240.29	STM MH 131/	0.01 /	239.30	STM MH 219/	0.01 /	239.24
STM MH 17/	0.01 /	239.16	STM MH 39/	0.08 /	239.69	STM MH 153/	0.03 /	236.71
STM MH 204/	0.00 /	240.52	CULTEC 5/	0.03 /	236.50	STM MH 27/	0.03 /	235.61
STM MH 228/	0.00 /	240.00	STM MH 26/	0.03 /	236.09	STM MH 169/	0.00 /	239.87
STM MH 28/	0.04 /	235.14	STM MH 168/	0.00 /	240.23	STM MH 41/	0.23 /	239.53
PROP CB 39/	0.00 /	240.76	STM CBMH 19/	0.02 /	238.74	STM CBMH 250/	0.02 /	238.53
STM MH 134/	0.00 /	239.70	STM MH 135/	0.00 /	239.21	PROP DCB 62/	0.00 /	241.28
STM MH 256/	0.16 /	239.26	STM MH 85/	0.06 /	238.46	CULTEC 1/	0.04 /	238.87
STM MH 82/	0.01 /	239.74	CULTEC 2/	0.06 /	239.17	STM MH 83/	0.01 /	239.44
CAP 23/	0.00 /	241.36	STM MH 142/	0.00 /	239.05	CAP 14/	0.00 /	241.36
CAP 15/	0.00 /	241.36	CAP 16/	0.00 /	241.36	CAP 24/	0.00 /	241.36
CAP 22/	0.00 /	241.36	CAP 21/	0.00 /	241.36	CAP 20/	0.00 /	241.36
CAP 19/	0.00 /	241.36	CAP 18/	0.00 /	241.36	CAP 17/	0.00 /	241.36
CAP 13/	0.00 /	241.36	CAP 12/	0.00 /	241.36	CAP 11/	0.00 /	241.36
CAP 10/	0.00 /	241.36	CAP 9/	0.00 /	241.36	CAP 8/	0.00 /	241.36
CAP 7/	0.00 /	241.36	CAP 6/	0.00 /	241.36	CAP 5/	0.00 /	241.36
CAP 4/	0.00 /	241.36	CAP 3/	0.00 /	241.36	CAP 2/	0.10 /	241.46
CAP 1/	0.10 /	241.46	STM MH 141/	0.00 /	239.93	STM MH 42/	0.13 /	238.18
CULTEC 4/	0.04 /	234.88	STM MH 43/	0.14 /	235.64	STM MH 238/	0.00 /	237.93
STM MH 237/	0.00 /	238.20	STM MH 31/	0.15 /	232.64	STM MH 239/	0.03 /	234.18
STM MH 30/	0.21 /	233.44	STM MH 255/	0.12 /	232.30	Roof 1/	0.04 /	252.04
Roof 2/	0.04 /	252.04	Node117/	0.89 /	233.39	CB 4/	0.00 /	240.46
CB 3/	0.00 /	240.96	CB 2/	0.00 /	241.16	CB1/	0.00 /	241.17

Conduit/	FLOW	====> "*" Conduit uses the	normal	flow	option.
STM - (14) (STORM)/	0.00	STM - (15) (STORM)/	0.00	STM - (16) (STORM)/	0.00
STM - (18) (STORM)/	0.00	STM - (19) (STORM)/	0.00	STM - (20) (STORM)/	0.00
STM - (22) (STORM)/	0.00	STM - (24) (STORM)/	0.00	STM - (25) (STORM)/	0.00
STM - (27) (STORM)/	0.00	STM - (28) (STORM)/	0.00	STM - (29) (STORM)/	0.11
STM - (32) (STORM)/	0.00	STM - (33) (STORM)/	0.00	STM - (34) (STORM)/	0.00
STM - (36) (STORM)/	0.00	STM - (37) (STORM)/	0.00	STM - (38) (STORM)/	0.08
STM - (40) (STORM)/	0.11	STM - (41) (STORM)/	0.11	STM - (53) (STORM)/	0.00
STM - (55) (STORM)/	0.01	STM - (56) (STORM)/	0.01	STM - (57) (STORM)/	0.04
STM - (59) (STORM)/	0.04	ID*352/	0.08	STM - (61) (STORM)/	0.04
STM - (63) (STORM)/	0.00	STM - (65) (STORM)/	0.00	STM - (66) (STORM)/	0.00
STM - (67) (STORM)/	0.00	STM - (68) (STORM)/	0.00	ID*362/	0.00
STM - (70) (STORM)/	0.00	ID*365/	0.00	STM - (71) (STORM)/	0.00
ID*368/	0.00	STM - (73) (STORM)/	0.00	ID*370/	0.00
STM - (75) (STORM)/	0.00	STM - (76) (STORM)/	0.00	ID*374/	0.00
ID*376/	0.00	STM - (78) (STORM)/	0.00	ID*378/	0.00
STM - (80) (STORM)/	0.00	ID*381/	0.00	STM - (81) (STORM)/	0.00
ID*384/	0.00	STM - (83) (STORM)/	0.00	STM - (84) (STORM)/	0.00
ID*388/	0.00	ID*390/	0.00	STM - (86) (STORM)/	0.00
STM - (88) (STORM)/	0.00*	STM - (89) (STORM)/	0.00	STM - (95) (STORM)/	0.00
ID*397/	0.00	ID*398/	0.00	STM - (119) (STORM)/	0.00
ID*401/	0.00	STM - (121) (STORM)/	0.00	STM - (130) (STORM)/	0.00
STM - (142) (STORM)/	0.00	STM - (143) (STORM)/	0.00	ID*412/	0.00
ID*414/	0.00	ID*415/	0.00	STM - (151) (STORM)/	0.00
ID*418/	0.00	STM - (155) (STORM)/	0.00	STM - (158) (STORM)/	0.00
STM - (160) (STORM)/	0.00	ID*423/	0.00	STM - (161) (STORM)/	0.00
STM - (170) (STORM)/	0.12	ID*427/	0.09	Link116/	0.00
Link118/	0.00	Link119/	0.00	Link122/	0.00
Roof Control1/	0.04	Roof Control2/	0.04	Orifice 1/	0.12
Cycle	5500	Time	7 Hrs - 38.33 Min		FREE# 1/

Junction / Depth / Elevation	====>	"*" Junction is Surcharged.
STM MH 188/ 0.00 / 244.62		STM MH 187/ 0.00 / 246.68
STM MH 236/ 0.00 / 245.32		STM MH 21/ 0.02 / 238.14
STM MH 154/ 0.02 / 237.02		STM MH 22/ 0.02 / 237.44
STM MH 227/ 0.00 / 240.77		STM MH 132/ 0.00 / 241.18
STM MH 221/ 0.02 / 237.69		STM MH 35/ 0.00 / 240.44
STM MH 118/ 0.00 / 240.28		STM MH 34/ 0.00 / 240.90
STM MH 120/ 0.00 / 240.70		STM MH 117/ 0.00 / 240.02
STM MH 20/ 0.01 / 238.35		STM MH 37/ 0.00 / 239.87
STM MH 86/ 0.12 / 241.00		STM MH 115/ 0.17 / 240.20
STM MH 223/ 0.00 / 240.91		STM MH 220/ 0.02 / 237.92
STM MH 128/ 0.01 / 239.51		STM MH 127/ 0.00 / 240.08
STM MH 123/ 0.00 / 240.64		STM MH 126/ 0.00 / 240.22
STM MH 124/ 0.00 / 240.50		STM MH 129/ 0.01 / 239.38
STM MH 170/ 0.02 / 236.82		STM MH 38/ 0.00 / 239.79
STM MH 218/ 0.00 / 240.28		STM MH 131/ 0.01 / 239.30
STM MH 17/ 0.01 / 239.16		STM MH 39/ 0.06 / 239.67
STM MH 204/ 0.00 / 240.52		CULTEC 5/ 0.02 / 236.49
STM MH 228/ 0.00 / 240.00		STM MH 26/ 0.02 / 236.08
STM MH 28/ 0.03 / 235.13		STM MH 168/ 0.00 / 240.23
PROP CB 39/ 0.00 / 240.76		STM CBMH 19/ 0.01 / 238.73
STM MH 134/ 0.00 / 239.70		STM MH 135/ 0.00 / 239.21
STM MH 256/ 0.15 / 239.25		STM MH 85/ 0.04 / 238.44
STM MH 82/ 0.00 / 239.73		CULTEC 2/ 0.05 / 239.16
CAP 23/ 0.00 / 241.36		STM MH 142/ 0.00 / 239.05
CAP 15/ 0.00 / 241.36		CAP 16/ 0.00 / 241.36
CAP 22/ 0.00 / 241.36		CAP 21/ 0.00 / 241.36
CAP 19/ 0.00 / 241.36		CAP 18/ 0.00 / 241.36
CAP 13/ 0.00 / 241.36		CAP 12/ 0.00 / 241.36
CAP 10/ 0.00 / 241.36		CAP 9/ 0.00 / 241.36
CAP 7/ 0.00 / 241.36		CAP 6/ 0.00 / 241.36
CAP 4/ 0.00 / 241.36		CAP 3/ 0.00 / 241.36
CAP 1/ 0.09 / 241.45		STM MH 141/ 0.00 / 239.93
CULTEC 4/ 0.03 / 234.87		STM MH 43/ 0.12 / 235.62
STM MH 237/ 0.00 / 238.20		STM MH 31/ 0.13 / 232.62
STM MH 30/ 0.18 / 233.41		STM MH 255/ 0.11 / 232.29
Roof 2/ 0.04 / 252.04		Node117/ 0.86 / 233.36
CB 3/ 0.00 / 240.96		CB 2/ 0.00 / 241.16
		STM MH 203/ 0.00 / 245.93
		STM MH 23/ 0.02 / 237.28
		CB 6/ 0.00 / 241.39
		STM MH 116/ 0.00 / 240.98
		STM MH 36/ 0.00 / 240.17
		STM MH 121/ 0.00 / 240.80
		STM MH 119/ 0.00 / 240.55
		STM MH 40/ 0.19 / 239.67
		STM MH 87/ 0.12 / 240.35
		STM MH 205/ 0.00 / 239.98
		STM MH 122/ 0.00 / 240.73
		STM MH 125/ 0.00 / 240.38
		STM MH 133/ 0.01 / 239.07
		STM MH 18/ 0.01 / 238.90
		STM MH 219/ 0.01 / 239.24
		STM MH 153/ 0.02 / 236.70
		STM MH 27/ 0.02 / 235.60
		STM MH 169/ 0.00 / 239.87
		STM MH 41/ 0.20 / 239.50
		STM CBMH 250/ 0.01 / 238.52
		PROP DCB 62/ 0.00 / 241.28
		CULTEC 1/ 0.03 / 238.86
		STM MH 83/ 0.00 / 239.43
		CAP 14/ 0.00 / 241.36
		CAP 24/ 0.00 / 241.36
		CAP 20/ 0.00 / 241.36
		CAP 17/ 0.00 / 241.36
		CAP 11/ 0.00 / 241.36
		CAP 8/ 0.00 / 241.36
		CAP 5/ 0.00 / 241.36
		CAP 2/ 0.09 / 241.45
		STM MH 42/ 0.12 / 238.17
		STM MH 238/ 0.00 / 237.93
		STM MH 239/ 0.02 / 234.17
		Roof 1/ 0.04 / 252.04
		CB 4/ 0.00 / 240.46
		CB1/ 0.00 / 241.17

Conduit/	FLOW	====>	"*" Conduit uses the	normal flow option.
STM - (14) (STORM)/	0.00	STM - (15) (STORM)/	0.00	STM - (16) (STORM)/
0.00				0.00
STM - (18) (STORM)/	0.00	STM - (19) (STORM)/	0.00	STM - (20) (STORM)/
0.00				0.00
STM - (22) (STORM)/	0.00	STM - (24) (STORM)/	0.00	STM - (25) (STORM)/
0.00				0.00
STM - (27) (STORM)/	0.00	STM - (28) (STORM)/	0.00	STM - (29) (STORM)/
0.00				0.08
STM - (32) (STORM)/	0.00	STM - (33) (STORM)/	0.00	STM - (34) (STORM)/
0.00				0.00
STM - (36) (STORM)/	0.00	STM - (37) (STORM)/	0.00	STM - (38) (STORM)/
0.07				0.07
STM - (40) (STORM)/	0.08	STM - (41) (STORM)/	0.08	STM - (53) (STORM)/
0.00				0.00
STM - (55) (STORM)/	0.00	STM - (56) (STORM)/	0.01	STM - (57) (STORM)/
0.03				0.03
STM - (59) (STORM)/	0.03	ID*352/	0.07	STM - (61) (STORM)/
0.00				0.03
STM - (63) (STORM)/	0.00	STM - (65) (STORM)/	0.00	STM - (66) (STORM)/
0.00				0.00
STM - (67) (STORM)/	0.00	STM - (68) (STORM)/	0.00	ID*362/
0.00				0.00
STM - (70) (STORM)/	0.00	ID*365/	0.00	STM - (71) (STORM)/
0.00				0.00
ID*368/	0.00	STM - (73) (STORM)/	0.00	ID*370/
0.00				0.00
STM - (75) (STORM)/	0.00	STM - (76) (STORM)/	0.00	ID*374/
0.00				0.00
ID*376/	0.00	STM - (78) (STORM)/	0.00	ID*378/
0.00				0.00
STM - (80) (STORM)/	0.00	ID*381/	0.00	STM - (81) (STORM)/
0.00				0.00
ID*384/	0.00	STM - (83) (STORM)/	0.00	STM - (84) (STORM)/
0.00				0.00
ID*388/	0.00	ID*390/	0.00	STM - (86) (STORM)/
0.00				0.00
STM - (88) (STORM)/	0.00*	STM - (89) (STORM)/	0.00	STM - (95) (STORM)/
0.00				0.00
ID*397/	0.00	ID*398/	0.00	STM - (119) (STORM)/
0.00				0.00
ID*401/	0.00	STM - (121) (STORM)/	0.00	STM - (130) (STORM)/
0.00				0.00
STM - (142) (STORM)/	0.00	STM - (143) (STORM)/	0.00	ID*412/
0.00				0.00
ID*414/	0.00	ID*415/	0.00	STM - (151) (STORM)/
0.00				0.00
ID*418/	0.00	STM - (155) (STORM)/	0.00	STM - (158) (STORM)/
0.00				0.00
STM - (160) (STORM)/	0.00	ID*423/	0.00	STM - (161) (STORM)/
0.00				0.00
STM - (170) (STORM)/	0.09	ID*427/	0.07	Link116/
0.00				0.00
Link118/	0.00	Link119/	0.00	Link122/
0.00				0.00
				spill/

0.09	Roof Control/	0.03	Roof Control2/	0.03	Orifice 1/	0.09	FREE# 1/
Cycle	6000	Time	8 Hrs - 20.00 Min				
	Junction /	Depth /	Elevation	====>	"*" Junction is	Surcharged.	
	STM MH 188/	0.00 /	244.62		STM MH 187/	0.00 /	246.68
	STM MH 236/	0.00 /	245.32		STM MH 21/	0.01 /	238.13
	STM MH 154/	0.01 /	237.01		STM MH 22/	0.01 /	237.43
	STM MH 227/	0.00 /	240.77		STM MH 132/	0.00 /	241.18
	STM MH 221/	0.01 /	237.68		STM MH 35/	0.00 /	240.44
	STM MH 118/	0.00 /	240.28		STM MH 34/	0.00 /	240.90
	STM MH 120/	0.00 /	240.70		STM MH 117/	0.00 /	240.02
	STM MH 20/	0.01 /	238.35		STM MH 37/	0.00 /	239.87
	STM MH 86/	0.10 /	240.98		STM MH 115/	0.15 /	240.18
	STM MH 223/	0.00 /	240.91		STM MH 220/	0.01 /	237.91
	STM MH 128/	0.00 /	239.51		STM MH 127/	0.00 /	240.08
	STM MH 123/	0.00 /	240.64		STM MH 126/	0.00 /	240.22
	STM MH 124/	0.00 /	240.50		STM MH 129/	0.00 /	239.37
	STM MH 170/	0.01 /	236.81		STM MH 38/	0.00 /	239.79
	STM MH 218/	0.00 /	240.28		STM MH 131/	0.00 /	239.29
	STM MH 17/	0.00 /	239.15		STM MH 39/	0.04 /	239.65
	STM MH 204/	0.00 /	240.52		CULTEC 5/	0.01 /	236.48
	STM MH 228/	0.00 /	240.00		STM MH 26/	0.01 /	236.07
	STM MH 28/	0.02 /	235.12		STM MH 168/	0.00 /	240.23
	PROP CB 39/	0.00 /	240.76		STM CBMH 19/	0.01 /	238.73
	STM MH 134/	0.00 /	239.70		STM MH 135/	0.00 /	239.21
	STM MH 256/	0.13 /	239.23		STM MH 85/	0.03 /	238.43
	STM MH 82/	0.00 /	239.73		CULTEC 2/	0.04 /	239.15
	CAP 23/	0.00 /	241.36		STM MH 142/	0.00 /	239.05
	CAP 15/	0.00 /	241.36		CAP 16/	0.00 /	241.36
	CAP 22/	0.00 /	241.36		CAP 21/	0.00 /	241.36
	CAP 19/	0.00 /	241.36		CAP 18/	0.00 /	241.36
	CAP 13/	0.00 /	241.36		CAP 12/	0.00 /	241.36
	CAP 10/	0.00 /	241.36		CAP 9/	0.00 /	241.36
	CAP 7/	0.00 /	241.36		CAP 6/	0.00 /	241.36
	CAP 4/	0.00 /	241.36		CAP 3/	0.00 /	241.36
	CAP 1/	0.08 /	241.44		STM MH 141/	0.00 /	239.93
	CULTEC 4/	0.02 /	234.86		STM MH 43/	0.11 /	235.61
	STM MH 237/	0.00 /	238.20		STM MH 31/	0.11 /	232.61
	STM MH 30/	0.15 /	233.39		STM MH 255/	0.10 /	232.28
	Roof 2/	0.03 /	252.03		Node117/	0.83 /	233.33
	CB 3/	0.00 /	240.96		CB 2/	0.00 /	241.16
					STM MH 203/	0.00 /	245.93
					STM MH 23/	0.01 /	237.27
					CB 6/	0.00 /	241.39
					STM MH 116/	0.00 /	240.98
					STM MH 36/	0.00 /	240.17
					STM MH 121/	0.00 /	240.80
					STM MH 119/	0.00 /	240.55
					STM MH 40/	0.17 /	239.65
					STM MH 87/	0.11 /	240.34
					STM MH 205/	0.00 /	239.98
					STM MH 122/	0.00 /	240.73
					STM MH 125/	0.00 /	240.38
					STM MH 133/	0.00 /	239.06
					STM MH 18/	0.01 /	238.90
					STM MH 219/	0.00 /	239.23
					STM MH 153/	0.01 /	236.69
					STM MH 27/	0.02 /	235.59
					STM MH 169/	0.00 /	239.87
					STM MH 41/	0.18 /	239.48
					STM CBMH 250/	0.01 /	238.52
					PROP DCB 62/	0.00 /	241.28
					CULTEC 1/	0.03 /	238.86
					STM MH 83/	0.00 /	239.43
					CAP 14/	0.00 /	241.36
					CAP 24/	0.00 /	241.36
					CAP 20/	0.00 /	241.36
					CAP 17/	0.00 /	241.36
					CAP 11/	0.00 /	241.36
					CAP 8/	0.00 /	241.36
					CAP 5/	0.00 /	241.36
					CAP 2/	0.08 /	241.44
					STM MH 42/	0.10 /	238.15
					STM MH 238/	0.00 /	237.93
					STM MH 239/	0.01 /	234.17
					Roof 1/	0.03 /	252.03
					CB 4/	0.00 /	240.46
					CB1/	0.00 /	241.17
	Conduit/	FLOW	====>	"*" Conduit uses the	normal flow option.		
0.00	STM - (14) (STORM)/	0.00	STM - (15) (STORM)/	0.00	STM - (16) (STORM)/	0.00	STM - (17) (STORM)/
0.00	STM - (18) (STORM)/	0.00	STM - (19) (STORM)/	0.00	STM - (20) (STORM)/	0.00	STM - (21) (STORM)/
0.00	STM - (22) (STORM)/	0.00	STM - (24) (STORM)/	0.00	STM - (25) (STORM)/	0.00	STM - (26) (STORM)/
0.00	STM - (27) (STORM)/	0.00	STM - (28) (STORM)/	0.00	STM - (29) (STORM)/	0.07	STM - (30) (STORM)/
0.00	STM - (32) (STORM)/	0.00	STM - (33) (STORM)/	0.00	STM - (34) (STORM)/	0.00	STM - (35) (STORM)/
0.06	STM - (36) (STORM)/	0.00	STM - (37) (STORM)/	0.00	STM - (38) (STORM)/	0.05	STM - (39) (STORM)/
0.00	STM - (40) (STORM)/	0.06	STM - (41) (STORM)/	0.07	STM - (53) (STORM)/	0.00	STM - (54) (STORM)/
0.03	STM - (55) (STORM)/	0.00	STM - (56) (STORM)/	0.00	STM - (57) (STORM)/	0.03	STM - (58) (STORM)/
0.00	STM - (59) (STORM)/	0.03	ID*352/	0.05	STM - (61) (STORM)/	0.03	STM - (62) (STORM)/
0.00	STM - (63) (STORM)/	0.00	STM - (65) (STORM)/	0.00	STM - (66) (STORM)/	0.00	ID*359/
0.00	STM - (67) (STORM)/	0.00	STM - (68) (STORM)/	0.00	ID*362/	0.00	STM - (69) (STORM)/
0.00	STM - (70) (STORM)/	0.00	ID*365/	0.00	STM - (71) (STORM)/	0.00	STM - (72) (STORM)/
0.00	ID*368/	0.00	STM - (73) (STORM)/	0.00	ID*370/	0.00	STM - (74) (STORM)/
0.00	STM - (75) (STORM)/	0.00	STM - (76) (STORM)/	0.00	ID*374/	0.00	STM - (77) (STORM)/
0.00	ID*376/	0.00	STM - (78) (STORM)/	0.00	ID*378/	0.00	STM - (79) (STORM)/
0.00	STM - (80) (STORM)/	0.00	ID*381/	0.00	STM - (81) (STORM)/	0.00	STM - (82) (STORM)/
0.00	ID*384/	0.00	STM - (83) (STORM)/	0.00	STM - (84) (STORM)/	0.00	ID*387/
0.00	ID*388/	0.00	ID*390/	0.00	STM - (86) (STORM)/	0.00	STM - (87) (STORM)/
0.00	STM - (88) (STORM)/	0.00	STM - (89) (STORM)/	0.00	STM - (95) (STORM)/	0.00	STM - (96) (STORM)/
0.00	ID*397/	0.00	ID*398/	0.00	STM - (119) (STORM)/	0.00	STM - (120) (STORM)/
0.00	ID*401/	0.00	STM - (121) (STORM)/	0.00	STM - (130) (STORM)/	0.00	ID*409/
0.00	STM - (142) (STORM)/	0.00	STM - (143) (STORM)/	0.00	ID*412/	0.00	ID*413/
0.00	ID*414/	0.00	ID*415/	0.00	STM - (151) (STORM)/	0.00	STM - (152) (STORM)/
0.00	ID*418/	0.00	STM - (155) (STORM)/	0.00	STM - (158) (STORM)/	0.00	ID*421/
0.00	STM - (160) (STORM)/	0.00	ID*423/	0.00	STM - (161) (STORM)/	0.00	ID*425/

STM - (170) (STORM)/	0.07	ID*427/	0.06	Link116/	0.00	Link117/
0.00						
Link118/	0.00	Link119/	0.00	Link122/	0.00	spill/
0.00						
Roof Control1/	0.03	Roof Control2/	0.03	Orifice 1/	0.07	FREE# 1/
0.07						

Cycle 6500 Time 9 Hrs - 1.67 Min

Junction /	Depth /	Elevation	====>	** Junction is	Surcharged.			
STM MH 188/	0.00 /	244.62		STM MH 187/	0.00 /	246.68		STM MH 203/ 0.00 / 245.93
STM MH 236/	0.00 /	245.32		STM MH 21/	0.01 /	238.13		STM MH 23/ 0.01 / 237.27
STM MH 154/	0.01 /	237.01		STM MH 22/	0.01 /	237.43		CB 6/ 0.00 / 241.39
STM MH 227/	0.00 /	240.77		STM MH 132/	0.00 /	241.18		STM MH 116/ 0.00 / 240.98
STM MH 221/	0.01 /	237.68		STM MH 35/	0.00 /	240.44		STM MH 36/ 0.00 / 240.17
STM MH 118/	0.00 /	240.28		STM MH 34/	0.00 /	240.90		STM MH 121/ 0.00 / 240.80
STM MH 120/	0.00 /	240.70		STM MH 117/	0.00 /	240.02		STM MH 119/ 0.00 / 240.55
STM MH 20/	0.01 /	238.35		STM MH 37/	0.00 /	239.87		STM MH 40/ 0.15 / 239.63
STM MH 86/	0.09 /	240.97		STM MH 115/	0.14 /	240.17		STM MH 87/ 0.10 / 240.33
STM MH 223/	0.00 /	240.91		STM MH 220/	0.01 /	237.91		STM MH 205/ 0.00 / 239.98
STM MH 128/	0.00 /	239.51		STM MH 127/	0.00 /	240.08		STM MH 122/ 0.00 / 240.73
STM MH 123/	0.00 /	240.64		STM MH 126/	0.00 /	240.22		STM MH 125/ 0.00 / 240.38
STM MH 124/	0.00 /	240.50		STM MH 129/	0.00 /	239.37		STM MH 133/ 0.00 / 239.06
STM MH 170/	0.01 /	236.81		STM MH 38/	0.00 /	239.79		STM MH 18/ 0.00 / 238.89
STM MH 218/	0.00 /	240.28		STM MH 131/	0.00 /	239.29		STM MH 219/ 0.00 / 239.23
STM MH 17/	0.00 /	239.15		STM MH 39/	0.02 /	239.63		STM MH 153/ 0.01 / 236.69
STM MH 204/	0.00 /	240.52		CULTEC 5/	0.01 /	236.48		STM MH 27/ 0.01 / 235.59
STM MH 228/	0.00 /	240.00		STM MH 26/	0.01 /	236.07		STM MH 169/ 0.00 / 239.87
STM MH 28/	0.01 /	235.11		STM MH 168/	0.00 /	240.23		STM MH 41/ 0.16 / 239.46
PROP CB 39/	0.00 /	240.76		STM CBMH 19/	0.00 /	238.72		STM CBMH 250/ 0.00 / 238.51
STM MH 134/	0.00 /	239.70		STM MH 135/	0.00 /	239.21		PROP DCB 62/ 0.00 / 241.28
STM MH 256/	0.12 /	239.22		STM MH 85/	0.03 /	238.43		CULTEC 1/ 0.02 / 238.85
STM MH 82/	0.00 /	239.73		CULTEC 2/	0.03 /	239.14		STM MH 83/ 0.00 / 239.43
CAP 23/	0.00 /	241.36		STM MH 142/	0.00 /	239.05		CAP 14/ 0.00 / 241.36
CAP 15/	0.00 /	241.36		CAP 16/	0.00 /	241.36		CAP 24/ 0.00 / 241.36
CAP 22/	0.00 /	241.36		CAP 21/	0.00 /	241.36		CAP 20/ 0.00 / 241.36
CAP 19/	0.00 /	241.36		CAP 18/	0.00 /	241.36		CAP 17/ 0.00 / 241.36
CAP 13/	0.00 /	241.36		CAP 12/	0.00 /	241.36		CAP 11/ 0.00 / 241.36
CAP 10/	0.00 /	241.36		CAP 9/	0.00 /	241.36		CAP 8/ 0.00 / 241.36
CAP 7/	0.00 /	241.36		CAP 6/	0.00 /	241.36		CAP 5/ 0.00 / 241.36
CAP 4/	0.00 /	241.36		CAP 3/	0.00 /	241.36		CAP 2/ 0.07 / 241.43
CAP 1/	0.07 /	241.43		STM MH 141/	0.00 /	239.93		STM MH 42/ 0.09 / 238.14
CULTEC 4/	0.01 /	234.85		STM MH 43/	0.10 /	235.60		STM MH 238/ 0.00 / 237.93
STM MH 237/	0.00 /	238.20		STM MH 31/	0.10 /	232.60		STM MH 239/ 0.01 / 234.16
STM MH 30/	0.14 /	233.37		STM MH 255/	0.09 /	232.27		Roof 1/ 0.02 / 252.02
Roof 2/	0.02 /	252.02		Node117/	0.81 /	233.31		CB 4/ 0.00 / 240.46
CB 3/	0.00 /	240.96		CB 2/	0.00 /	241.16		CB1/ 0.00 / 241.17

Conduit/	FLOW	====>	** Conduit uses the	normal	flow	option.			
STM - (14) (STORM)/	0.00		STM - (15) (STORM)/	0.00	STM - (16) (STORM)/	0.00	STM - (17) (STORM)/		
0.00									
STM - (18) (STORM)/	0.00		STM - (19) (STORM)/	0.00	STM - (20) (STORM)/	0.00	STM - (21) (STORM)/		
0.00									
STM - (22) (STORM)/	0.00		STM - (24) (STORM)/	0.00	STM - (25) (STORM)/	0.00	STM - (26) (STORM)/		
0.00									
STM - (27) (STORM)/	0.00		STM - (28) (STORM)/	0.00	STM - (29) (STORM)/	0.05	STM - (30) (STORM)/		
0.00									
STM - (32) (STORM)/	0.00		STM - (33) (STORM)/	0.00	STM - (34) (STORM)/	0.00	STM - (35) (STORM)/		
0.00									
STM - (36) (STORM)/	0.00		STM - (37) (STORM)/	0.00	STM - (38) (STORM)/	0.04	STM - (39) (STORM)/		
0.05									
STM - (40) (STORM)/	0.05		STM - (41) (STORM)/	0.05	STM - (53) (STORM)/	0.00	STM - (54) (STORM)/		
0.00									
STM - (55) (STORM)/	0.00		STM - (56) (STORM)/	0.00	STM - (57) (STORM)/	0.02	STM - (58) (STORM)/		
0.02									
STM - (59) (STORM)/	0.02		ID*352/	0.04	STM - (61) (STORM)/	0.02	STM - (62) (STORM)/		
0.00									
STM - (63) (STORM)/	0.00		STM - (65) (STORM)/	0.00	STM - (66) (STORM)/	0.00	ID*359/		
0.00									
STM - (67) (STORM)/	0.00		STM - (68) (STORM)/	0.00	ID*362/	0.00	STM - (69) (STORM)/		
0.00									
STM - (70) (STORM)/	0.00		ID*365/	0.00	STM - (71) (STORM)/	0.00	STM - (72) (STORM)/		
0.00									
ID*368/	0.00		STM - (73) (STORM)/	0.00	ID*370/	0.00	STM - (74) (STORM)/		
0.00									
STM - (75) (STORM)/	0.00		STM - (76) (STORM)/	0.00	ID*374/	0.00	STM - (77) (STORM)/		
0.00									
ID*376/	0.00		STM - (78) (STORM)/	0.00	ID*378/	0.00	STM - (79) (STORM)/		
0.00									
STM - (80) (STORM)/	0.00		ID*381/	0.00	STM - (81) (STORM)/	0.00	STM - (82) (STORM)/		
0.00									
ID*384/	0.00		STM - (83) (STORM)/	0.00	STM - (84) (STORM)/	0.00	ID*387/		
0.00									
ID*388/	0.00		ID*390/	0.00	STM - (86) (STORM)/	0.00	STM - (87) (STORM)/		
0.00									
STM - (88) (STORM)/	0.00		STM - (89) (STORM)/	0.00	STM - (95) (STORM)/	0.00	STM - (96) (STORM)/		
0.00									
ID*397/	0.00		ID*398/	0.00	STM - (119) (STORM)/	0.00	STM - (120) (STORM)/		
0.00									
ID*401/	0.00		STM - (121) (STORM)/	0.00	STM - (130) (STORM)/	0.00	ID*409/		
0.00									
STM - (142) (STORM)/	0.00		STM - (143) (STORM)/	0.00	ID*412/	0.00	ID*413/		
0.00									
ID*414/	0.00		ID*415/	0.00	STM - (151) (STORM)/	0.00	STM - (152) (STORM)/		
0.00									

0.00	ID*418/	0.00	STM - (155) (STORM)/	0.00	STM - (158) (STORM)/	0.00	ID*421/
0.00	STM - (160) (STORM)/	0.00	ID*423/	0.00	STM - (161) (STORM)/	0.00	ID*425/
0.00	STM - (170) (STORM)/	0.05	ID*427/	0.05	Link116/	0.00	Link117/
0.00	Link118/	0.00	Link119/	0.00	Link122/	0.00	spill/
0.00	Roof Control1/	0.02	Roof Control2/	0.02	Orifice 1/	0.05	FREE# 1/
0.05							

Cycle 7000 Time 9 Hrs - 43.33 Min

Junction /	Depth /	Elevation	====>	"*" Junction is	Surcharged.				
STM MH 188/	0.00 /	244.62		STM MH 187/	0.00 /	246.68	STM MH 203/	0.00 /	245.93
STM MH 236/	0.00 /	245.32		STM MH 21/	0.00 /	238.12	STM MH 23/	0.01 /	237.27
STM MH 154/	0.01 /	237.01		STM MH 22/	0.00 /	237.42	CB 6/	0.00 /	241.39
STM MH 227/	0.00 /	240.77		STM MH 132/	0.00 /	241.18	STM MH 116/	0.00 /	240.98
STM MH 221/	0.01 /	237.68		STM MH 35/	0.00 /	240.44	STM MH 36/	0.00 /	240.17
STM MH 118/	0.00 /	240.28		STM MH 34/	0.00 /	240.90	STM MH 121/	0.00 /	240.80
STM MH 120/	0.00 /	240.70		STM MH 117/	0.00 /	240.02	STM MH 119/	0.00 /	240.55
STM MH 20/	0.00 /	238.34		STM MH 37/	0.00 /	239.87	STM MH 40/	0.14 /	239.62
STM MH 86/	0.08 /	240.96		STM MH 115/	0.12 /	240.15	STM MH 87/	0.09 /	240.32
STM MH 223/	0.00 /	240.91		STM MH 220/	0.01 /	237.91	STM MH 205/	0.00 /	239.98
STM MH 128/	0.00 /	239.51		STM MH 127/	0.00 /	240.08	STM MH 122/	0.00 /	240.73
STM MH 123/	0.00 /	240.64		STM MH 126/	0.00 /	240.22	STM MH 125/	0.00 /	240.38
STM MH 124/	0.00 /	240.50		STM MH 129/	0.00 /	239.37	STM MH 133/	0.00 /	239.06
STM MH 170/	0.01 /	236.81		STM MH 38/	0.00 /	239.79	STM MH 18/	0.00 /	238.89
STM MH 218/	0.00 /	240.28		STM MH 131/	0.00 /	239.29	STM MH 219/	0.00 /	239.23
STM MH 17/	0.00 /	239.15		STM MH 39/	0.01 /	239.62	STM MH 153/	0.01 /	236.69
STM MH 204/	0.00 /	240.52		CULTEC 5/	0.01 /	236.48	STM MH 27/	0.01 /	235.59
STM MH 228/	0.00 /	240.00		STM MH 26/	0.01 /	236.07	STM MH 169/	0.00 /	239.87
STM MH 28/	0.01 /	235.11		STM MH 168/	0.00 /	240.23	STM MH 41/	0.14 /	239.44
PROP CB 39/	0.00 /	240.76		STM CBMH 19/	0.00 /	238.72	STM CBMH 250/	0.00 /	238.51
STM MH 134/	0.00 /	239.70		STM MH 135/	0.00 /	239.21	PROP DCB 62/	0.00 /	241.28
STM MH 256/	0.10 /	239.20		STM MH 85/	0.02 /	238.42	CULTEC 1/	0.02 /	238.85
STM MH 82/	0.00 /	239.73		CULTEC 2/	0.03 /	239.14	STM MH 83/	0.00 /	239.43
CAP 23/	0.00 /	241.36		STM MH 142/	0.00 /	239.05	CAP 14/	0.00 /	241.36
CAP 15/	0.00 /	241.36		CAP 16/	0.00 /	241.36	CAP 24/	0.00 /	241.36
CAP 22/	0.00 /	241.36		CAP 21/	0.00 /	241.36	CAP 20/	0.00 /	241.36
CAP 19/	0.00 /	241.36		CAP 18/	0.00 /	241.36	CAP 17/	0.00 /	241.36
CAP 13/	0.00 /	241.36		CAP 12/	0.00 /	241.36	CAP 11/	0.00 /	241.36
CAP 10/	0.00 /	241.36		CAP 9/	0.00 /	241.36	CAP 8/	0.00 /	241.36
CAP 7/	0.00 /	241.36		CAP 6/	0.00 /	241.36	CAP 5/	0.00 /	241.36
CAP 4/	0.00 /	241.36		CAP 3/	0.00 /	241.36	CAP 2/	0.06 /	241.42
CAP 1/	0.07 /	241.43		STM MH 141/	0.00 /	239.93	STM MH 42/	0.08 /	238.13
CULTEC 4/	0.01 /	234.85		STM MH 43/	0.09 /	235.59	STM MH 238/	0.00 /	237.93
STM MH 237/	0.00 /	238.20		STM MH 31/	0.09 /	232.59	STM MH 239/	0.01 /	234.16
STM MH 30/	0.12 /	233.35		STM MH 255/	0.08 /	232.26	Roof 1/	0.02 /	252.02
Roof 2/	0.02 /	252.02		Node117/	0.79 /	233.29	CB 4/	0.00 /	240.46
CB 3/	0.00 /	240.96		CB 2/	0.00 /	241.16	CB1/	0.00 /	241.17

Conduit/	FLOW	====>	"*" Conduit uses the	normal flow option.				
STM - (14) (STORM)/	0.00	STM - (15) (STORM)/	0.00	STM - (16) (STORM)/	0.00	STM - (17) (STORM)/		
0.00								
STM - (18) (STORM)/	0.00	STM - (19) (STORM)/	0.00	STM - (20) (STORM)/	0.00	STM - (21) (STORM)/		
0.00								
STM - (22) (STORM)/	0.00	STM - (24) (STORM)/	0.00	STM - (25) (STORM)/	0.00	STM - (26) (STORM)/		
0.00								
STM - (27) (STORM)/	0.00	STM - (28) (STORM)/	0.00	STM - (29) (STORM)/	0.04	STM - (30) (STORM)/		
0.00								
STM - (32) (STORM)/	0.00	STM - (33) (STORM)/	0.00	STM - (34) (STORM)/	0.00	STM - (35) (STORM)/		
0.00								
STM - (36) (STORM)/	0.00	STM - (37) (STORM)/	0.00	STM - (38) (STORM)/	0.04	STM - (39) (STORM)/		
0.04								
STM - (40) (STORM)/	0.04	STM - (41) (STORM)/	0.04	STM - (53) (STORM)/	0.00	STM - (54) (STORM)/		
0.00								
STM - (55) (STORM)/	0.00	STM - (56) (STORM)/	0.00	STM - (57) (STORM)/	0.02	STM - (58) (STORM)/		
0.02								
STM - (59) (STORM)/	0.02	ID*352/	0.03	STM - (61) (STORM)/	0.02	STM - (62) (STORM)/		
0.00								
STM - (63) (STORM)/	0.00	STM - (65) (STORM)/	0.00	STM - (66) (STORM)/	0.00	ID*359/		
0.00								
STM - (67) (STORM)/	0.00	STM - (68) (STORM)/	0.00	ID*362/	0.00	STM - (69) (STORM)/		
0.00								
STM - (70) (STORM)/	0.00	ID*365/	0.00	STM - (71) (STORM)/	0.00	STM - (72) (STORM)/		
0.00								
ID*368/	0.00	STM - (73) (STORM)/	0.00	ID*370/	0.00	STM - (74) (STORM)/		
0.00								
STM - (75) (STORM)/	0.00	STM - (76) (STORM)/	0.00	ID*374/	0.00	STM - (77) (STORM)/		
0.00								
ID*376/	0.00	STM - (78) (STORM)/	0.00	ID*378/	0.00	STM - (79) (STORM)/		
0.00								
STM - (80) (STORM)/	0.00	ID*381/	0.00	STM - (81) (STORM)/	0.00	STM - (82) (STORM)/		
0.00								
ID*384/	0.00	STM - (83) (STORM)/	0.00	STM - (84) (STORM)/	0.00	ID*387/		
0.00								
ID*388/	0.00	ID*390/	0.00	STM - (86) (STORM)/	0.00	STM - (87) (STORM)/		
0.00								
STM - (88) (STORM)/	0.00	STM - (89) (STORM)/	0.00	STM - (95) (STORM)/	0.00	STM - (96) (STORM)/		
0.00								
ID*397/	0.00	ID*398/	0.00	STM - (119) (STORM)/	0.00	STM - (120) (STORM)/		
0.00								
ID*401/	0.00	STM - (121) (STORM)/	0.00	STM - (130) (STORM)/	0.00	ID*409/		
0.00								

STM - (142) (STORM) /	0.00	STM - (143) (STORM) /	0.00	ID*412/	0.00	ID*413/
0.00		ID*414/	0.00	ID*415/	0.00	STM - (151) (STORM) /
0.00		ID*418/	0.00	STM - (155) (STORM) /	0.00	STM - (152) (STORM) /
0.00		STM - (160) (STORM) /	0.00	ID*423/	0.00	ID*421/
0.00		STM - (170) (STORM) /	0.04	ID*427/	0.04	STM - (161) (STORM) /
0.00		Link118/	0.00	Link119/	0.00	Link116/
0.00		Roof Control1/	0.02	Roof Control2/	0.02	Link122/
0.04						0.00
						spill/
						Orifice 1/
						0.04
						FREE# 1/

Cycle 7500 Time 10 Hrs - 25.00 Min

Junction /	Depth /	Elevation	====>	"*" Junction is	Surcharged.		
STM MH 188/	0.00 /	244.62		STM MH 187/	0.00 /	246.68	STM MH 203/
STM MH 236/	0.00 /	245.32		STM MH 21/	0.00 /	238.12	0.00 /
STM MH 154/	0.00 /	237.00		STM MH 22/	0.00 /	237.42	237.26
STM MH 227/	0.00 /	240.77		STM MH 132/	0.00 /	241.18	CB 6/
STM MH 221/	0.00 /	237.67		STM MH 35/	0.00 /	240.44	0.00 /
STM MH 118/	0.00 /	240.28		STM MH 34/	0.00 /	240.90	240.98
STM MH 120/	0.00 /	240.70		STM MH 117/	0.00 /	240.02	STM MH 36/
STM MH 20/	0.00 /	238.34		STM MH 37/	0.00 /	239.87	0.00 /
STM MH 86/	0.08 /	240.96		STM MH 115/	0.11 /	240.14	240.80
STM MH 223/	0.00 /	240.91		STM MH 220/	0.00 /	237.90	STM MH 121/
STM MH 128/	0.00 /	239.51		STM MH 127/	0.00 /	240.08	0.00 /
STM MH 123/	0.00 /	240.64		STM MH 126/	0.00 /	240.22	240.55
STM MH 124/	0.00 /	240.50		STM MH 129/	0.00 /	239.37	STM MH 40/
STM MH 170/	0.00 /	236.80		STM MH 38/	0.00 /	239.79	0.12 /
STM MH 218/	0.00 /	240.28		STM MH 131/	0.00 /	239.29	239.60
STM MH 17/	0.00 /	239.15		STM MH 39/	0.00 /	239.61	STM MH 87/
STM MH 204/	0.00 /	240.52		CULTEC 5/	0.01 /	236.48	0.08 /
STM MH 228/	0.00 /	240.00		STM MH 26/	0.01 /	236.07	240.31
STM MH 28/	0.01 /	235.11		STM MH 168/	0.00 /	240.23	STM MH 205/
PROP CB 39/	0.00 /	240.76		STM CBMH 19/	0.00 /	238.72	0.00 /
STM MH 134/	0.00 /	239.70		STM MH 135/	0.00 /	239.21	239.98
STM MH 256/	0.09 /	239.19		STM MH 85/	0.02 /	238.42	STM MH 122/
STM MH 82/	0.00 /	239.73		CULTEC 2/	0.03 /	239.14	0.00 /
CAP 23/	0.00 /	241.36		STM MH 142/	0.00 /	239.05	240.73
CAP 15/	0.00 /	241.36		CAP 16/	0.00 /	241.36	STM MH 125/
CAP 22/	0.00 /	241.36		CAP 21/	0.00 /	241.36	0.00 /
CAP 19/	0.00 /	241.36		CAP 18/	0.00 /	241.36	240.38
CAP 13/	0.00 /	241.36		CAP 12/	0.00 /	241.36	STM MH 133/
CAP 10/	0.00 /	241.36		CAP 9/	0.00 /	241.36	0.00 /
CAP 7/	0.00 /	241.36		CAP 6/	0.00 /	241.36	239.06
CAP 4/	0.00 /	241.36		CAP 3/	0.00 /	241.36	STM MH 18/
CAP 1/	0.06 /	241.42		STM MH 141/	0.00 /	239.93	0.00 /
CULTEC 4/	0.01 /	234.85		STM MH 43/	0.08 /	235.58	239.23
STM MH 237/	0.00 /	238.20		STM MH 31/	0.08 /	232.58	STM MH 219/
STM MH 30/	0.11 /	233.34		STM MH 255/	0.07 /	232.25	0.01 /
Roof 2/	0.02 /	252.02		Node117/	0.78 /	233.27	238.89
CB 3/	0.00 /	240.96		CB 2/	0.00 /	241.16	239.23
							STM MH 153/
							0.01 /
							236.69
							STM MH 27/
							0.01 /
							235.58
							STM MH 169/
							0.00 /
							239.87
							STM MH 41/
							0.13 /
							239.43
							STM CBMH 250/
							0.00 /
							238.51
							PROP DCB 62/
							0.00 /
							241.28
							CULTEC 1/
							0.02 /
							238.85
							STM MH 83/
							0.00 /
							239.43
							CAP 14/
							0.00 /
							241.36
							CAP 24/
							0.00 /
							241.36
							CAP 20/
							0.00 /
							241.36
							CAP 17/
							0.00 /
							241.36
							CAP 11/
							0.00 /
							241.36
							CAP 8/
							0.00 /
							241.36
							CAP 5/
							0.00 /
							241.36
							CAP 2/
							0.06 /
							241.42
							STM MH 42/
							0.08 /
							238.13
							STM MH 238/
							0.00 /
							237.93
							STM MH 239/
							0.01 /
							234.16
							Roof 1/
							0.02 /
							252.02
							CB 4/
							0.00 /
							240.46
							CB1/
							0.00 /
							241.17

Conduit/	FLOW	====>	"*" Conduit uses the	normal flow	option.		
STM - (14) (STORM) /	0.00	STM - (15) (STORM) /	0.00	STM - (16) (STORM) /	0.00	STM - (17) (STORM) /	
0.00		STM - (18) (STORM) /	0.00	STM - (19) (STORM) /	0.00	STM - (20) (STORM) /	
0.00		STM - (22) (STORM) /	0.00	STM - (24) (STORM) /	0.00	STM - (25) (STORM) /	
0.00		STM - (27) (STORM) /	0.00	STM - (28) (STORM) /	0.00	STM - (29) (STORM) /	
0.00		STM - (32) (STORM) /	0.00	STM - (33) (STORM) /	0.00	STM - (34) (STORM) /	
0.00		STM - (36) (STORM) /	0.00	STM - (37) (STORM) /	0.00	STM - (38) (STORM) /	
0.03		STM - (40) (STORM) /	0.03	STM - (41) (STORM) /	0.03	STM - (53) (STORM) /	
0.00		STM - (55) (STORM) /	0.00	STM - (56) (STORM) /	0.00	STM - (57) (STORM) /	
0.01		STM - (59) (STORM) /	0.01	ID*352/	0.03	STM - (61) (STORM) /	
0.00		STM - (63) (STORM) /	0.00	STM - (65) (STORM) /	0.00	STM - (66) (STORM) /	
0.00		STM - (67) (STORM) /	0.00	STM - (68) (STORM) /	0.00	ID*362/	
0.00		STM - (70) (STORM) /	0.00	ID*365/	0.00	STM - (71) (STORM) /	
0.00		ID*368/	0.00	STM - (73) (STORM) /	0.00	ID*370/	
0.00		STM - (75) (STORM) /	0.00	STM - (76) (STORM) /	0.00	ID*374/	
0.00		ID*376/	0.00	STM - (78) (STORM) /	0.00	ID*378/	
0.00		STM - (80) (STORM) /	0.00	ID*381/	0.00	STM - (81) (STORM) /	
0.00		ID*384/	0.00	STM - (83) (STORM) /	0.00	STM - (84) (STORM) /	
0.00		ID*388/	0.00	ID*390/	0.00	STM - (86) (STORM) /	
0.00		STM - (88) (STORM) /	0.00	STM - (89) (STORM) /	0.00	STM - (95) (STORM) /	
0.00						0.00	STM - (96) (STORM) /

0.00	ID*397/	0.00	ID*398/	0.00	STM - (119) (STORM) /	0.00	STM - (120) (STORM) /
0.00	ID*401/	0.00	STM - (121) (STORM) /	0.00	STM - (130) (STORM) /	0.00	ID*409/
0.00	STM - (142) (STORM) /	0.00	STM - (143) (STORM) /	0.00	ID*412/	0.00	ID*413/
0.00	ID*414/	0.00	ID*415/	0.00	STM - (151) (STORM) /	0.00	STM - (152) (STORM) /
0.00	ID*418/	0.00	STM - (155) (STORM) /	0.00	STM - (158) (STORM) /	0.00	ID*421/
0.00	STM - (160) (STORM) /	0.00	ID*423/	0.00	STM - (161) (STORM) /	0.00	ID*425/
0.00	STM - (170) (STORM) /	0.04	ID*427/	0.03	Link116/	0.00	Link117/
0.00	Link118/	0.00	Link119/	0.00	Link122/	0.00	spill/
0.04	Roof Control1/	0.01	Roof Control2/	0.01	Orifice 1/	0.04	FREE# 1/

Cycle 8000 Time 11 Hrs - 6.67 Min

Junction	Depth	Elevation	====>	"*" Junction is Surcharged.			
STM MH 188/	0.00	244.62		STM MH 187/	0.00	246.68	STM MH 203/ 0.00 / 245.93
STM MH 236/	0.00	245.32		STM MH 21/	0.00	238.12	STM MH 23/ 0.00 / 237.26
STM MH 154/	0.00	237.00		STM MH 22/	0.00	237.42	CB 6/ 0.00 / 241.39
STM MH 227/	0.00	240.77		STM MH 132/	0.00	241.18	STM MH 116/ 0.00 / 240.98
STM MH 221/	0.00	237.67		STM MH 35/	0.00	240.44	STM MH 36/ 0.00 / 240.17
STM MH 118/	0.00	240.28		STM MH 34/	0.00	240.90	STM MH 121/ 0.00 / 240.80
STM MH 120/	0.00	240.70		STM MH 117/	0.00	240.02	STM MH 119/ 0.00 / 240.55
STM MH 20/	0.00	238.34		STM MH 37/	0.00	239.87	STM MH 40/ 0.11 / 239.59
STM MH 86/	0.07	240.95		STM MH 115/	0.10	240.13	STM MH 87/ 0.07 / 240.30
STM MH 223/	0.00	240.91		STM MH 220/	0.00	237.90	STM MH 205/ 0.00 / 239.98
STM MH 128/	0.00	239.51		STM MH 127/	0.00	240.08	STM MH 122/ 0.00 / 240.73
STM MH 123/	0.00	240.64		STM MH 126/	0.00	240.22	STM MH 125/ 0.00 / 240.38
STM MH 124/	0.00	240.50		STM MH 129/	0.00	239.37	STM MH 133/ 0.00 / 239.06
STM MH 170/	0.00	236.80		STM MH 38/	0.00	239.79	STM MH 18/ 0.00 / 238.89
STM MH 218/	0.00	240.28		STM MH 131/	0.00	239.29	STM MH 219/ 0.00 / 239.23
STM MH 17/	0.00	239.15		STM MH 39/	0.00	239.61	STM MH 153/ 0.00 / 236.68
STM MH 204/	0.00	240.52		CULTEC 5/	0.00	236.47	STM MH 27/ 0.00 / 235.58
STM MH 228/	0.00	240.00		STM MH 26/	0.00	236.06	STM MH 169/ 0.00 / 239.87
STM MH 28/	0.01	235.11		STM MH 168/	0.00	240.23	STM MH 41/ 0.12 / 239.42
PROP CB 39/	0.00	240.76		STM CBMH 19/	0.00	238.72	STM CBMH 250/ 0.00 / 238.51
STM MH 134/	0.00	239.70		STM MH 135/	0.00	239.21	PROP DCB 62/ 0.00 / 241.28
STM MH 256/	0.08	239.18		STM MH 85/	0.02	238.42	CULTEC 1/ 0.02 / 238.85
STM MH 82/	0.00	239.73		CULTEC 2/	0.02	239.13	STM MH 83/ 0.00 / 239.43
CAP 23/	0.00	241.36		STM MH 142/	0.00	239.05	CAP 14/ 0.00 / 241.36
CAP 15/	0.00	241.36		CAP 16/	0.00	241.36	CAP 24/ 0.00 / 241.36
CAP 22/	0.00	241.36		CAP 21/	0.00	241.36	CAP 20/ 0.00 / 241.36
CAP 19/	0.00	241.36		CAP 18/	0.00	241.36	CAP 17/ 0.00 / 241.36
CAP 13/	0.00	241.36		CAP 12/	0.00	241.36	CAP 11/ 0.00 / 241.36
CAP 10/	0.00	241.36		CAP 9/	0.00	241.36	CAP 8/ 0.00 / 241.36
CAP 7/	0.00	241.36		CAP 6/	0.00	241.36	CAP 5/ 0.00 / 241.36
CAP 4/	0.00	241.36		CAP 3/	0.00	241.36	CAP 2/ 0.05 / 241.41
CAP 1/	0.05	241.41		STM MH 141/	0.00	239.93	STM MH 42/ 0.07 / 238.12
CULTEC 4/	0.01	234.85		STM MH 43/	0.07	235.57	STM MH 238/ 0.00 / 237.93
STM MH 237/	0.00	238.20		STM MH 31/	0.07	232.57	STM MH 239/ 0.00 / 234.16
STM MH 30/	0.09	233.33		STM MH 255/	0.06	232.24	Roof 1/ 0.01 / 252.01
Roof 2/	0.01	252.01		Node117/	0.76	233.26	CB 4/ 0.00 / 240.46
CB 3/	0.00	240.96		CB 2/	0.00	241.16	CB1/ 0.00 / 241.17

Conduit/	FLOW	====>	"*" Conduit uses the normal flow option.				
STM - (14) (STORM) /	0.00	STM - (15) (STORM) /	0.00	STM - (16) (STORM) /	0.00	STM - (17) (STORM) /	
0.00							
STM - (18) (STORM) /	0.00	STM - (19) (STORM) /	0.00	STM - (20) (STORM) /	0.00	STM - (21) (STORM) /	
0.00							
STM - (22) (STORM) /	0.00	STM - (24) (STORM) /	0.00	STM - (25) (STORM) /	0.00	STM - (26) (STORM) /	
0.00							
STM - (27) (STORM) /	0.00	STM - (28) (STORM) /	0.00	STM - (29) (STORM) /	0.03	STM - (30) (STORM) /	
0.00							
STM - (32) (STORM) /	0.00	STM - (33) (STORM) /	0.00	STM - (34) (STORM) /	0.00	STM - (35) (STORM) /	
0.00							
STM - (36) (STORM) /	0.00	STM - (37) (STORM) /	0.00	STM - (38) (STORM) /	0.02	STM - (39) (STORM) /	
0.03							
STM - (40) (STORM) /	0.03	STM - (41) (STORM) /	0.03	STM - (53) (STORM) /	0.00	STM - (54) (STORM) /	
0.00							
STM - (55) (STORM) /	0.00	STM - (56) (STORM) /	0.00	STM - (57) (STORM) /	0.01	STM - (58) (STORM) /	
0.01							
STM - (59) (STORM) /	0.01	ID*352/	0.02	STM - (61) (STORM) /	0.01	STM - (62) (STORM) /	
0.00							
STM - (63) (STORM) /	0.00	STM - (65) (STORM) /	0.00	STM - (66) (STORM) /	0.00	ID*359/	
0.00							
STM - (67) (STORM) /	0.00	STM - (68) (STORM) /	0.00	ID*362/	0.00	STM - (69) (STORM) /	
0.00							
STM - (70) (STORM) /	0.00	ID*365/	0.00	STM - (71) (STORM) /	0.00	STM - (72) (STORM) /	
0.00							
ID*368/	0.00	STM - (73) (STORM) /	0.00	ID*370/	0.00	STM - (74) (STORM) /	
0.00							
STM - (75) (STORM) /	0.00	STM - (76) (STORM) /	0.00	ID*374/	0.00	STM - (77) (STORM) /	
0.00							
ID*376/	0.00	STM - (78) (STORM) /	0.00	ID*378/	0.00	STM - (79) (STORM) /	
0.00							
STM - (80) (STORM) /	0.00	ID*381/	0.00	STM - (81) (STORM) /	0.00	STM - (82) (STORM) /	
0.00							
ID*384/	0.00	STM - (83) (STORM) /	0.00	STM - (84) (STORM) /	0.00	ID*387/	
0.00							

0.00	ID*388/	0.00	ID*390/	0.00	STM - (86) (STORM) /	0.00	STM - (87) (STORM) /
0.00	STM - (88) (STORM) /	0.00	STM - (89) (STORM) /	0.00	STM - (95) (STORM) /	0.00	STM - (96) (STORM) /
0.00	ID*397/	0.00	ID*398/	0.00	STM - (119) (STORM) /	0.00	STM - (120) (STORM) /
0.00	ID*401/	0.00	STM - (121) (STORM) /	0.00	STM - (130) (STORM) /	0.00	ID*409/
0.00	STM - (142) (STORM) /	0.00	STM - (143) (STORM) /	0.00	ID*412/	0.00	ID*413/
0.00	ID*414/	0.00	ID*415/	0.00	STM - (151) (STORM) /	0.00	STM - (152) (STORM) /
0.00	ID*418/	0.00	STM - (155) (STORM) /	0.00	STM - (158) (STORM) /	0.00	ID*421/
0.00	STM - (160) (STORM) /	0.00	ID*423/	0.00	STM - (161) (STORM) /	0.00	ID*425/
0.00	STM - (170) (STORM) /	0.03	ID*427/	0.03	Link116/	0.00	Link117/
0.00	Link118/	0.00	Link119/	0.00	Link122/	0.00	spill/
0.00	Roof Control/	0.01	Roof Control2/	0.01	Orifice 1/	0.03	FREE# 1/

Cycle 8500 Time 11 Hrs - 48.33 Min

Junction /	Depth /	Elevation	====>	"*" Junction is	Surcharged.				
STM MH 188/	0.00 /	244.62		STM MH 187/	0.00 /	246.68	STM MH 203/	0.00 /	245.93
STM MH 236/	0.00 /	245.32		STM MH 21/	0.00 /	238.12	STM MH 23/	0.00 /	237.26
STM MH 154/	0.00 /	237.00		STM MH 22/	0.00 /	237.42	CB 6/	0.00 /	241.39
STM MH 227/	0.00 /	240.77		STM MH 132/	0.00 /	241.18	STM MH 116/	0.00 /	240.98
STM MH 221/	0.00 /	237.67		STM MH 35/	0.00 /	240.44	STM MH 36/	0.00 /	240.17
STM MH 118/	0.00 /	240.28		STM MH 34/	0.00 /	240.90	STM MH 121/	0.00 /	240.80
STM MH 120/	0.00 /	240.70		STM MH 117/	0.00 /	240.02	STM MH 119/	0.00 /	240.55
STM MH 20/	0.00 /	238.34		STM MH 37/	0.00 /	239.87	STM MH 40/	0.10 /	239.58
STM MH 86/	0.06 /	240.94		STM MH 115/	0.09 /	240.12	STM MH 87/	0.06 /	240.29
STM MH 223/	0.00 /	240.91		STM MH 220/	0.00 /	237.90	STM MH 205/	0.00 /	239.98
STM MH 128/	0.00 /	239.51		STM MH 127/	0.00 /	240.08	STM MH 122/	0.00 /	240.73
STM MH 123/	0.00 /	240.64		STM MH 126/	0.00 /	240.22	STM MH 125/	0.00 /	240.38
STM MH 124/	0.00 /	240.50		STM MH 129/	0.00 /	239.37	STM MH 133/	0.00 /	239.06
STM MH 170/	0.00 /	236.80		STM MH 38/	0.00 /	239.79	STM MH 18/	0.00 /	238.89
STM MH 218/	0.00 /	240.28		STM MH 131/	0.00 /	239.29	STM MH 219/	0.00 /	239.23
STM MH 17/	0.00 /	239.15		STM MH 39/	0.00 /	239.61	STM MH 153/	0.00 /	236.68
STM MH 204/	0.00 /	240.52		CULTEC 5/	0.00 /	236.47	STM MH 27/	0.00 /	235.58
STM MH 228/	0.00 /	240.00		STM MH 26/	0.00 /	236.06	STM MH 169/	0.00 /	239.87
STM MH 28/	0.01 /	235.11		STM MH 168/	0.00 /	240.23	STM MH 41/	0.11 /	239.41
PROP CB 39/	0.00 /	240.76		STM CBMH 19/	0.00 /	238.72	STM CBMH 250/	0.00 /	238.51
STM MH 134/	0.00 /	239.70		STM MH 135/	0.00 /	239.21	PROP DCB 62/	0.00 /	241.28
STM MH 256/	0.08 /	239.18		STM MH 85/	0.02 /	238.42	CULTEC 1/	0.01 /	238.84
STM MH 82/	0.00 /	239.73		CULTEC 2/	0.02 /	239.13	STM MH 83/	0.00 /	239.43
CAP 23/	0.00 /	241.36		STM MH 142/	0.00 /	239.05	CAP 14/	0.00 /	241.36
CAP 15/	0.00 /	241.36		CAP 16/	0.00 /	241.36	CAP 24/	0.00 /	241.36
CAP 22/	0.00 /	241.36		CAP 21/	0.00 /	241.36	CAP 20/	0.00 /	241.36
CAP 19/	0.00 /	241.36		CAP 18/	0.00 /	241.36	CAP 17/	0.00 /	241.36
CAP 13/	0.00 /	241.36		CAP 12/	0.00 /	241.36	CAP 11/	0.00 /	241.36
CAP 10/	0.00 /	241.36		CAP 9/	0.00 /	241.36	CAP 8/	0.00 /	241.36
CAP 7/	0.00 /	241.36		CAP 6/	0.00 /	241.36	CAP 5/	0.00 /	241.36
CAP 4/	0.00 /	241.36		CAP 3/	0.00 /	241.36	CAP 2/	0.05 /	241.41
CAP 1/	0.05 /	241.41		STM MH 141/	0.00 /	239.93	STM MH 42/	0.06 /	238.11
CULTEC 4/	0.00 /	234.84		STM MH 43/	0.06 /	235.57	STM MH 238/	0.00 /	237.93
STM MH 237/	0.00 /	238.20		STM MH 31/	0.06 /	232.56	STM MH 239/	0.00 /	234.16
STM MH 30/	0.08 /	233.32		STM MH 255/	0.06 /	232.24	Roof 1/	0.01 /	252.01
Roof 2/	0.01 /	252.01		Node117/	0.75 /	233.25	CB 4/	0.00 /	240.46
CB 3/	0.00 /	240.96		CB 2/	0.00 /	241.16	CB1/	0.00 /	241.17

Conduit/	FLOW	====>	"*" Conduit uses the	normal	flow option.			
STM - (14) (STORM) /	0.00	STM - (15) (STORM) /	0.00	STM - (16) (STORM) /	0.00	STM - (17) (STORM) /		
STM - (18) (STORM) /	0.00	STM - (19) (STORM) /	0.00	STM - (20) (STORM) /	0.00	STM - (21) (STORM) /		
STM - (22) (STORM) /	0.00	STM - (24) (STORM) /	0.00	STM - (25) (STORM) /	0.00	STM - (26) (STORM) /		
STM - (27) (STORM) /	0.00	STM - (28) (STORM) /	0.00	STM - (29) (STORM) /	0.02	STM - (30) (STORM) /		
STM - (32) (STORM) /	0.00	STM - (33) (STORM) /	0.00	STM - (34) (STORM) /	0.00	STM - (35) (STORM) /		
STM - (36) (STORM) /	0.00	STM - (37) (STORM) /	0.00	STM - (38) (STORM) /	0.02	STM - (39) (STORM) /		
STM - (40) (STORM) /	0.02	STM - (41) (STORM) /	0.02	STM - (53) (STORM) /	0.00	STM - (54) (STORM) /		
STM - (55) (STORM) /	0.00	STM - (56) (STORM) /	0.00	STM - (57) (STORM) /	0.01	STM - (58) (STORM) /		
STM - (59) (STORM) /	0.01	ID*352/	0.02	STM - (61) (STORM) /	0.01	STM - (62) (STORM) /		
STM - (63) (STORM) /	0.00	STM - (65) (STORM) /	0.00	STM - (66) (STORM) /	0.00	ID*359/		
STM - (67) (STORM) /	0.00	STM - (68) (STORM) /	0.00	ID*362/	0.00	STM - (69) (STORM) /		
STM - (70) (STORM) /	0.00	ID*365/	0.00	STM - (71) (STORM) /	0.00	STM - (72) (STORM) /		
ID*368/	0.00	STM - (73) (STORM) /	0.00	ID*370/	0.00	STM - (74) (STORM) /		
STM - (75) (STORM) /	0.00	STM - (76) (STORM) /	0.00	ID*374/	0.00	STM - (77) (STORM) /		
ID*376/	0.00	STM - (78) (STORM) /	0.00	ID*378/	0.00	STM - (79) (STORM) /		

STM - (80) (STORM) /	0.00	ID*381/	0.00	STM - (81) (STORM) /	0.00	STM - (82) (STORM) /
0.00						
		ID*384/	0.00	STM - (83) (STORM) /	0.00	ID*387/
0.00						
		ID*388/	0.00	ID*390/	0.00	STM - (87) (STORM) /
0.00						
STM - (88) (STORM) /	0.00	STM - (89) (STORM) /	0.00	STM - (95) (STORM) /	0.00	STM - (96) (STORM) /
0.00						
		ID*397/	0.00	ID*398/	0.00	STM - (120) (STORM) /
0.00						
		ID*401/	0.00	STM - (121) (STORM) /	0.00	ID*409/
0.00						
STM - (142) (STORM) /	0.00	STM - (143) (STORM) /	0.00	ID*412/	0.00	ID*413/
0.00						
		ID*414/	0.00	ID*415/	0.00	STM - (152) (STORM) /
0.00						
		ID*418/	0.00	STM - (155) (STORM) /	0.00	ID*421/
0.00						
STM - (160) (STORM) /	0.00	ID*423/	0.00	STM - (161) (STORM) /	0.00	ID*425/
0.00						
STM - (170) (STORM) /	0.02	ID*427/	0.02	Link116/	0.00	Link117/
0.00						
		Link118/	0.00	Link119/	0.00	Link122/
0.00						spill/
0.00		Roof Control/	0.01	Roof Control2/	0.01	Orifice 1/
0.02						0.02
						FREE# 1/

Cycle 9000 Time 12 Hrs - 30.00 Min

Junction /	Depth /	Elevation	====>	"*" Junction is	Surcharged.					
STM MH 188/	0.00 /	244.62		STM MH 187/	0.00 /	246.68		STM MH 203/	0.00 /	245.93
STM MH 236/	0.00 /	245.32		STM MH 21/	0.00 /	238.12		STM MH 23/	0.00 /	237.26
STM MH 154/	0.00 /	237.00		STM MH 22/	0.00 /	237.42		CB 6/	0.00 /	241.39
STM MH 227/	0.00 /	240.77		STM MH 132/	0.00 /	241.18		STM MH 116/	0.00 /	240.98
STM MH 221/	0.00 /	237.67		STM MH 35/	0.00 /	240.44		STM MH 36/	0.00 /	240.17
STM MH 118/	0.00 /	240.28		STM MH 34/	0.00 /	240.90		STM MH 121/	0.00 /	240.80
STM MH 120/	0.00 /	240.70		STM MH 117/	0.00 /	240.02		STM MH 119/	0.00 /	240.55
STM MH 20/	0.00 /	238.34		STM MH 37/	0.00 /	239.87		STM MH 40/	0.09 /	239.57
STM MH 86/	0.05 /	240.93		STM MH 115/	0.08 /	240.11		STM MH 87/	0.06 /	240.29
STM MH 223/	0.00 /	240.91		STM MH 220/	0.00 /	237.90		STM MH 205/	0.00 /	239.98
STM MH 128/	0.00 /	239.51		STM MH 127/	0.00 /	240.08		STM MH 122/	0.00 /	240.73
STM MH 123/	0.00 /	240.64		STM MH 126/	0.00 /	240.22		STM MH 125/	0.00 /	240.38
STM MH 124/	0.00 /	240.50		STM MH 129/	0.00 /	239.37		STM MH 133/	0.00 /	239.06
STM MH 170/	0.00 /	236.80		STM MH 38/	0.00 /	239.79		STM MH 18/	0.00 /	238.89
STM MH 218/	0.00 /	240.28		STM MH 131/	0.00 /	239.29		STM MH 219/	0.00 /	239.23
STM MH 17/	0.00 /	239.15		STM MH 39/	0.00 /	239.61		STM MH 153/	0.00 /	236.68
STM MH 204/	0.00 /	240.52		CULTEC 5/	0.00 /	236.47		STM MH 27/	0.00 /	235.58
STM MH 228/	0.00 /	240.00		STM MH 26/	0.00 /	236.06		STM MH 169/	0.00 /	239.87
STM MH 28/	0.00 /	235.10		STM MH 168/	0.00 /	240.23		STM MH 41/	0.10 /	239.40
PROP CB 39/	0.00 /	240.76		STM CBMH 19/	0.00 /	238.72		STM CBMH 250/	0.00 /	238.51
STM MH 134/	0.00 /	239.70		STM MH 135/	0.00 /	239.21		PROP DCB 62/	0.00 /	241.28
STM MH 256/	0.07 /	239.17		STM MH 85/	0.02 /	238.42		CULTEC 1/	0.01 /	238.84
STM MH 82/	0.00 /	239.73		CULTEC 2/	0.02 /	239.13		STM MH 83/	0.00 /	239.43
CAP 23/	0.00 /	241.36		STM MH 142/	0.00 /	239.05		CAP 14/	0.00 /	241.36
CAP 15/	0.00 /	241.36		CAP 16/	0.00 /	241.36		CAP 24/	0.00 /	241.36
CAP 22/	0.00 /	241.36		CAP 21/	0.00 /	241.36		CAP 20/	0.00 /	241.36
CAP 19/	0.00 /	241.36		CAP 18/	0.00 /	241.36		CAP 17/	0.00 /	241.36
CAP 13/	0.00 /	241.36		CAP 12/	0.00 /	241.36		CAP 11/	0.00 /	241.36
CAP 10/	0.00 /	241.36		CAP 9/	0.00 /	241.36		CAP 8/	0.00 /	241.36
CAP 7/	0.00 /	241.36		CAP 6/	0.00 /	241.36		CAP 5/	0.00 /	241.36
CAP 4/	0.00 /	241.36		CAP 3/	0.00 /	241.36		CAP 2/	0.04 /	241.40
CAP 1/	0.04 /	241.40		STM MH 141/	0.00 /	239.93		STM MH 42/	0.06 /	238.11
CULTEC 4/	0.00 /	234.84		STM MH 43/	0.06 /	235.56		STM MH 238/	0.00 /	237.93
STM MH 237/	0.00 /	238.20		STM MH 31/	0.06 /	232.56		STM MH 239/	0.00 /	234.16
STM MH 30/	0.08 /	233.31		STM MH 255/	0.05 /	232.23		Roof 1/	0.01 /	252.01
Roof 2/	0.01 /	252.01		Node117/	0.74 /	233.23		CB 4/	0.00 /	240.46
CB 3/	0.00 /	240.96		CB 2/	0.00 /	241.16		CB1/	0.00 /	241.17

Conduit/	FLOW	====>	"*" Conduit uses the	normal flow option.			
STM - (14) (STORM) /	0.00	STM - (15) (STORM) /	0.00	STM - (16) (STORM) /	0.00	STM - (17) (STORM) /	
0.00							
STM - (18) (STORM) /	0.00	STM - (19) (STORM) /	0.00	STM - (20) (STORM) /	0.00	STM - (21) (STORM) /	
0.00							
STM - (22) (STORM) /	0.00	STM - (24) (STORM) /	0.00	STM - (25) (STORM) /	0.00	STM - (26) (STORM) /	
0.00							
STM - (27) (STORM) /	0.00	STM - (28) (STORM) /	0.00	STM - (29) (STORM) /	0.02	STM - (30) (STORM) /	
0.00							
STM - (32) (STORM) /	0.00	STM - (33) (STORM) /	0.00	STM - (34) (STORM) /	0.00	STM - (35) (STORM) /	
0.00							
STM - (36) (STORM) /	0.00	STM - (37) (STORM) /	0.00	STM - (38) (STORM) /	0.01	STM - (39) (STORM) /	
0.02							
STM - (40) (STORM) /	0.02	STM - (41) (STORM) /	0.02	STM - (53) (STORM) /	0.00	STM - (54) (STORM) /	
0.00							
STM - (55) (STORM) /	0.00	STM - (56) (STORM) /	0.00	STM - (57) (STORM) /	0.01	STM - (58) (STORM) /	
0.01							
STM - (59) (STORM) /	0.01	ID*352/	0.01	STM - (61) (STORM) /	0.01	STM - (62) (STORM) /	
0.00							
STM - (63) (STORM) /	0.00	STM - (65) (STORM) /	0.00	STM - (66) (STORM) /	0.00	ID*359/	
0.00							
STM - (67) (STORM) /	0.00	STM - (68) (STORM) /	0.00	ID*362/	0.00	STM - (69) (STORM) /	
0.00							
STM - (70) (STORM) /	0.00	ID*365/	0.00	STM - (71) (STORM) /	0.00	STM - (72) (STORM) /	
0.00							
ID*368/	0.00	STM - (73) (STORM) /	0.00	ID*370/	0.00	STM - (74) (STORM) /	
0.00							

STM - (75) (STORM) /	0.00	STM - (76) (STORM) /	0.00	ID*374 /	0.00	STM - (77) (STORM) /
0.00	ID*376 /	0.00	STM - (78) (STORM) /	0.00	ID*378 /	0.00
0.00	STM - (80) (STORM) /	0.00	ID*381 /	0.00	STM - (81) (STORM) /	0.00
0.00	ID*384 /	0.00	STM - (83) (STORM) /	0.00	STM - (84) (STORM) /	0.00
0.00	ID*388 /	0.00	ID*390 /	0.00	STM - (86) (STORM) /	0.00
0.00	STM - (88) (STORM) /	0.00	STM - (89) (STORM) /	0.00	STM - (95) (STORM) /	0.00
0.00	ID*397 /	0.00	ID*398 /	0.00	STM - (119) (STORM) /	0.00
0.00	ID*401 /	0.00	STM - (121) (STORM) /	0.00	STM - (130) (STORM) /	0.00
0.00	STM - (142) (STORM) /	0.00	STM - (143) (STORM) /	0.00	ID*412 /	0.00
0.00	ID*414 /	0.00	ID*415 /	0.00	STM - (151) (STORM) /	0.00
0.00	ID*418 /	0.00	STM - (155) (STORM) /	0.00	STM - (158) (STORM) /	0.00
0.00	STM - (160) (STORM) /	0.00	ID*423 /	0.00	STM - (161) (STORM) /	0.00
0.00	STM - (170) (STORM) /	0.02	ID*427 /	0.02	Link116 /	0.00
0.00	Link118 /	0.00	Link119 /	0.00	Link122 /	0.00
0.00	Roof Control1 /	0.01	Roof Control2 /	0.01	Orifice 1 /	0.02
0.02						FREE# 1 /
Cycle	9500	Time	13 Hrs - 11.67 Min			

Junction /	Depth /	Elevation	====>	"*" Junction	is	Surcharged.
STM MH 188 /	0.00 /	244.62		STM MH 187 /	0.00 /	246.68
STM MH 236 /	0.00 /	245.32		STM MH 21 /	0.00 /	238.12
STM MH 154 /	0.00 /	237.00		STM MH 22 /	0.00 /	237.42
STM MH 227 /	0.00 /	240.77		STM MH 132 /	0.00 /	241.18
STM MH 221 /	0.00 /	237.67		STM MH 35 /	0.00 /	240.44
STM MH 118 /	0.00 /	240.28		STM MH 34 /	0.00 /	240.90
STM MH 120 /	0.00 /	240.70		STM MH 117 /	0.00 /	240.02
STM MH 20 /	0.00 /	238.34		STM MH 37 /	0.00 /	239.87
STM MH 86 /	0.05 /	240.93		STM MH 115 /	0.07 /	240.10
STM MH 223 /	0.00 /	240.91		STM MH 220 /	0.00 /	237.90
STM MH 128 /	0.00 /	239.51		STM MH 127 /	0.00 /	240.08
STM MH 123 /	0.00 /	240.64		STM MH 126 /	0.00 /	240.22
STM MH 124 /	0.00 /	240.50		STM MH 129 /	0.00 /	239.37
STM MH 170 /	0.00 /	236.80		STM MH 38 /	0.00 /	239.79
STM MH 218 /	0.00 /	240.28		STM MH 131 /	0.00 /	239.29
STM MH 17 /	0.00 /	239.15		STM MH 39 /	0.00 /	239.61
STM MH 204 /	0.00 /	240.52		CULTEC 5 /	0.00 /	236.47
STM MH 228 /	0.00 /	240.00		STM MH 26 /	0.00 /	236.06
STM MH 28 /	0.00 /	235.10		STM MH 168 /	0.00 /	240.23
PROP CB 39 /	0.00 /	240.76		STM CBMH 19 /	0.00 /	238.72
STM MH 134 /	0.00 /	239.70		STM MH 135 /	0.00 /	239.21
STM MH 256 /	0.06 /	239.16		STM MH 85 /	0.01 /	238.41
STM MH 82 /	0.00 /	239.73		CULTEC 2 /	0.02 /	239.13
CAP 23 /	0.00 /	241.36		STM MH 142 /	0.00 /	239.05
CAP 15 /	0.00 /	241.36		CAP 16 /	0.00 /	241.36
CAP 22 /	0.00 /	241.36		CAP 21 /	0.00 /	241.36
CAP 19 /	0.00 /	241.36		CAP 18 /	0.00 /	241.36
CAP 13 /	0.00 /	241.36		CAP 12 /	0.00 /	241.36
CAP 10 /	0.00 /	241.36		CAP 9 /	0.00 /	241.36
CAP 7 /	0.00 /	241.36		CAP 6 /	0.00 /	241.36
CAP 4 /	0.00 /	241.36		CAP 3 /	0.00 /	241.36
CAP 1 /	0.04 /	241.40		STM MH 141 /	0.00 /	239.93
CULTEC 4 /	0.00 /	234.84		STM MH 43 /	0.05 /	235.55
STM MH 237 /	0.00 /	238.20		STM MH 31 /	0.05 /	232.55
STM MH 30 /	0.07 /	233.30		STM MH 255 /	0.05 /	232.23
Roof 2 /	0.01 /	252.01		Node117 /	0.73 /	233.22
CB 3 /	0.00 /	240.96		CB 2 /	0.00 /	241.16
						CB1 / 0.00 / 241.17

Conduit /	FLOW	====>	"*" Conduit	uses the	normal	flow option.
STM - (14) (STORM) /	0.00		STM - (15) (STORM) /	0.00	STM - (16) (STORM) /	0.00
0.00			STM - (19) (STORM) /	0.00	STM - (20) (STORM) /	0.00
0.00			STM - (24) (STORM) /	0.00	STM - (25) (STORM) /	0.00
0.00			STM - (28) (STORM) /	0.00	STM - (29) (STORM) /	0.02
0.00			STM - (33) (STORM) /	0.00	STM - (34) (STORM) /	0.00
0.00			STM - (37) (STORM) /	0.00	STM - (38) (STORM) /	0.01
0.01			STM - (41) (STORM) /	0.02	STM - (53) (STORM) /	0.00
0.00			STM - (56) (STORM) /	0.00	STM - (57) (STORM) /	0.01
0.01			ID*352 /	0.01	STM - (61) (STORM) /	0.01
0.00			STM - (65) (STORM) /	0.00	STM - (66) (STORM) /	0.00
0.00			STM - (68) (STORM) /	0.00	ID*362 /	0.00
0.00					STM - (69) (STORM) /	

STM - (70) (STORM) /	0.00	ID*365/	0.00	STM - (71) (STORM) /	0.00	STM - (72) (STORM) /
0.00		ID*368/	0.00	STM - (73) (STORM) /	0.00	STM - (74) (STORM) /
0.00		STM - (75) (STORM) /	0.00	STM - (76) (STORM) /	0.00	STM - (77) (STORM) /
0.00		ID*376/	0.00	STM - (78) (STORM) /	0.00	STM - (79) (STORM) /
0.00		STM - (80) (STORM) /	0.00	ID*381/	0.00	STM - (82) (STORM) /
0.00		ID*384/	0.00	STM - (83) (STORM) /	0.00	STM - (84) (STORM) /
0.00		ID*388/	0.00	ID*390/	0.00	STM - (87) (STORM) /
0.00		STM - (88) (STORM) /	0.00	STM - (89) (STORM) /	0.00	STM - (96) (STORM) /
0.00		ID*397/	0.00	ID*398/	0.00	STM - (120) (STORM) /
0.00		ID*401/	0.00	STM - (121) (STORM) /	0.00	STM - (130) (STORM) /
0.00		STM - (142) (STORM) /	0.00	STM - (143) (STORM) /	0.00	ID*412/
0.00		ID*414/	0.00	ID*415/	0.00	ID*413/
0.00		ID*418/	0.00	STM - (155) (STORM) /	0.00	STM - (152) (STORM) /
0.00		STM - (160) (STORM) /	0.00	ID*423/	0.00	STM - (158) (STORM) /
0.00		STM - (170) (STORM) /	0.02	ID*427/	0.01	STM - (161) (STORM) /
0.00		Link118/	0.00	Link119/	0.00	Link116/
0.00		Link118/	0.00	Link119/	0.00	Link122/
0.02		Roof Control1/	0.01	Roof Control2/	0.01	Orifice 1/
						Link117/
						spill/
						FREE# 1/

Cycle 10000 Time 13 Hrs - 53.33 Min

Junction / Depth / Elevation	====>	"*" Junction is Surcharged.
STM MH 188/ 0.00 / 244.62		STM MH 187/ 0.00 / 246.68
STM MH 236/ 0.00 / 245.32		STM MH 21/ 0.00 / 238.12
STM MH 154/ 0.00 / 237.00		STM MH 22/ 0.00 / 237.42
STM MH 227/ 0.00 / 240.77		STM MH 132/ 0.00 / 241.18
STM MH 221/ 0.00 / 237.67		STM MH 35/ 0.00 / 240.44
STM MH 118/ 0.00 / 240.28		STM MH 34/ 0.00 / 240.90
STM MH 120/ 0.00 / 240.70		STM MH 117/ 0.00 / 240.02
STM MH 20/ 0.00 / 238.34		STM MH 37/ 0.00 / 239.87
STM MH 86/ 0.04 / 240.92		STM MH 115/ 0.06 / 240.09
STM MH 223/ 0.00 / 240.91		STM MH 220/ 0.00 / 237.90
STM MH 128/ 0.00 / 239.51		STM MH 127/ 0.00 / 240.08
STM MH 123/ 0.00 / 240.64		STM MH 126/ 0.00 / 240.22
STM MH 124/ 0.00 / 240.50		STM MH 129/ 0.00 / 239.37
STM MH 170/ 0.00 / 236.80		STM MH 38/ 0.00 / 239.79
STM MH 218/ 0.00 / 240.28		STM MH 131/ 0.00 / 239.29
STM MH 17/ 0.00 / 239.15		STM MH 39/ 0.00 / 239.61
STM MH 204/ 0.00 / 240.52		CULTEC 5/ 0.00 / 236.47
STM MH 228/ 0.00 / 240.00		STM MH 26/ 0.00 / 236.06
STM MH 28/ 0.00 / 235.10		STM MH 168/ 0.00 / 240.23
PROP CB 39/ 0.00 / 240.76		STM CBMH 19/ 0.00 / 238.72
STM MH 134/ 0.00 / 239.70		STM MH 135/ 0.00 / 239.21
STM MH 256/ 0.06 / 239.16		STM MH 85/ 0.01 / 238.41
STM MH 82/ 0.00 / 239.73		CULTEC 2/ 0.02 / 239.13
CAP 23/ 0.00 / 241.36		STM MH 142/ 0.00 / 239.05
CAP 15/ 0.00 / 241.36		CAP 16/ 0.00 / 241.36
CAP 22/ 0.00 / 241.36		CAP 21/ 0.00 / 241.36
CAP 19/ 0.00 / 241.36		CAP 18/ 0.00 / 241.36
CAP 13/ 0.00 / 241.36		CAP 12/ 0.00 / 241.36
CAP 10/ 0.00 / 241.36		CAP 9/ 0.00 / 241.36
CAP 7/ 0.00 / 241.36		CAP 6/ 0.00 / 241.36
CAP 4/ 0.00 / 241.36		CAP 3/ 0.00 / 241.36
CAP 1/ 0.04 / 241.40		STM MH 141/ 0.00 / 239.93
CULTEC 4/ 0.00 / 234.84		STM MH 43/ 0.05 / 235.55
STM MH 237/ 0.00 / 238.20		STM MH 31/ 0.05 / 232.54
STM MH 30/ 0.06 / 233.29		STM MH 255/ 0.04 / 232.22
Roof 2/ 0.01 / 252.01		Node117/ 0.72 / 233.21
CB 3/ 0.00 / 240.96		CB 2/ 0.00 / 241.16
		CB1/ 0.00 / 241.17
		STM MH 203/ 0.00 / 245.93
		STM MH 23/ 0.00 / 237.26
		CB 6/ 0.00 / 241.39
		STM MH 116/ 0.00 / 240.98
		STM MH 36/ 0.00 / 240.17
		STM MH 121/ 0.00 / 240.80
		STM MH 119/ 0.00 / 240.55
		STM MH 40/ 0.07 / 239.55
		STM MH 87/ 0.05 / 240.28
		STM MH 205/ 0.00 / 239.98
		STM MH 122/ 0.00 / 240.73
		STM MH 125/ 0.00 / 240.38
		STM MH 133/ 0.00 / 239.06
		STM MH 18/ 0.00 / 238.89
		STM MH 219/ 0.00 / 239.23
		STM MH 153/ 0.00 / 236.68
		STM MH 27/ 0.00 / 235.58
		STM MH 169/ 0.00 / 239.87
		STM MH 41/ 0.08 / 239.38
		STM CBMH 250/ 0.00 / 238.51
		PROP DCB 62/ 0.00 / 241.28
		CULTEC 1/ 0.01 / 238.84
		STM MH 83/ 0.00 / 239.43
		CAP 14/ 0.00 / 241.36
		CAP 24/ 0.00 / 241.36
		CAP 20/ 0.00 / 241.36
		CAP 17/ 0.00 / 241.36
		CAP 11/ 0.00 / 241.36
		CAP 8/ 0.00 / 241.36
		CAP 5/ 0.00 / 241.36
		CAP 2/ 0.03 / 241.39
		STM MH 42/ 0.05 / 238.10
		STM MH 238/ 0.00 / 237.93
		STM MH 239/ 0.00 / 234.15
		Roof 1/ 0.01 / 252.01
		CB 4/ 0.00 / 240.46

Conduit/	FLOW	====>	"*" Conduit uses the normal flow option.
STM - (14) (STORM) /	0.00	STM - (15) (STORM) /	0.00
0.00		STM - (16) (STORM) /	0.00
STM - (18) (STORM) /	0.00	STM - (19) (STORM) /	0.00
0.00		STM - (20) (STORM) /	0.00
STM - (22) (STORM) /	0.00	STM - (24) (STORM) /	0.00
0.00		STM - (25) (STORM) /	0.00
STM - (27) (STORM) /	0.00	STM - (28) (STORM) /	0.00
0.00		STM - (29) (STORM) /	0.01
STM - (32) (STORM) /	0.00	STM - (33) (STORM) /	0.00
0.00		STM - (34) (STORM) /	0.00
STM - (36) (STORM) /	0.00	STM - (37) (STORM) /	0.00
0.01		STM - (38) (STORM) /	0.01
STM - (40) (STORM) /	0.01	STM - (41) (STORM) /	0.01
0.00		STM - (53) (STORM) /	0.00
STM - (55) (STORM) /	0.00	STM - (56) (STORM) /	0.00
0.00		STM - (57) (STORM) /	0.00
STM - (59) (STORM) /	0.00	ID*352/	0.01
0.00		STM - (61) (STORM) /	0.00
		STM - (62) (STORM) /	0.00

STM - (63) (STORM) /	0.00	STM - (65) (STORM) /	0.00	STM - (66) (STORM) /	0.00	ID*359/
0.00						
STM - (67) (STORM) /	0.00	STM - (68) (STORM) /	0.00	ID*362/	0.00	STM - (69) (STORM) /
0.00						
STM - (70) (STORM) /	0.00	ID*365/	0.00	STM - (71) (STORM) /	0.00	STM - (72) (STORM) /
0.00						
ID*368/	0.00	STM - (73) (STORM) /	0.00	ID*370/	0.00	STM - (74) (STORM) /
0.00						
STM - (75) (STORM) /	0.00	STM - (76) (STORM) /	0.00	ID*374/	0.00	STM - (77) (STORM) /
0.00						
ID*376/	0.00	STM - (78) (STORM) /	0.00	ID*378/	0.00	STM - (79) (STORM) /
0.00						
STM - (80) (STORM) /	0.00	ID*381/	0.00	STM - (81) (STORM) /	0.00	STM - (82) (STORM) /
0.00						
ID*384/	0.00	STM - (83) (STORM) /	0.00	STM - (84) (STORM) /	0.00	ID*387/
0.00						
ID*388/	0.00	ID*390/	0.00	STM - (86) (STORM) /	0.00	STM - (87) (STORM) /
0.00						
STM - (88) (STORM) /	0.00	STM - (89) (STORM) /	0.00	STM - (95) (STORM) /	0.00	STM - (96) (STORM) /
0.00						
ID*397/	0.00	ID*398/	0.00	STM - (119) (STORM) /	0.00	STM - (120) (STORM) /
0.00						
ID*401/	0.00	STM - (121) (STORM) /	0.00	STM - (130) (STORM) /	0.00	ID*409/
0.00						
STM - (142) (STORM) /	0.00	STM - (143) (STORM) /	0.00	ID*412/	0.00	ID*413/
0.00						
ID*414/	0.00	ID*415/	0.00	STM - (151) (STORM) /	0.00	STM - (152) (STORM) /
0.00						
ID*418/	0.00	STM - (155) (STORM) /	0.00	STM - (158) (STORM) /	0.00	ID*421/
0.00						
STM - (160) (STORM) /	0.00	ID*423/	0.00	STM - (161) (STORM) /	0.00	ID*425/
0.00						
STM - (170) (STORM) /	0.01	ID*427/	0.01	Link116/	0.00	Link117/
0.00						
Link118/	0.00	Link119/	0.00	Link122/	0.00	spill/
0.00						
Roof Control1/	0.00	Roof Control2/	0.00	Orifice 1/	0.01	FREE# 1/
0.01						

Cycle 10500 Time 14 Hrs - 35.00 Min

Junction / Depth / Elevation	====>	"*" Junction is Surcharged.			
STM MH 188/ 0.00 / 244.62		STM MH 187/ 0.00 / 246.68		STM MH 203/ 0.00 / 245.93	
STM MH 236/ 0.00 / 245.32		STM MH 21/ 0.00 / 238.12		STM MH 23/ 0.00 / 237.26	
STM MH 154/ 0.00 / 237.00		STM MH 22/ 0.00 / 237.42		CB 6/ 0.00 / 241.39	
STM MH 227/ 0.00 / 240.77		STM MH 132/ 0.00 / 241.18		STM MH 116/ 0.00 / 240.98	
STM MH 221/ 0.00 / 237.67		STM MH 35/ 0.00 / 240.44		STM MH 36/ 0.00 / 240.17	
STM MH 118/ 0.00 / 240.28		STM MH 34/ 0.00 / 240.90		STM MH 121/ 0.00 / 240.80	
STM MH 120/ 0.00 / 240.70		STM MH 117/ 0.00 / 240.02		STM MH 119/ 0.00 / 240.55	
STM MH 20/ 0.00 / 238.34		STM MH 37/ 0.00 / 239.87		STM MH 40/ 0.07 / 239.55	
STM MH 86/ 0.04 / 240.92		STM MH 115/ 0.06 / 240.09		STM MH 87/ 0.04 / 240.27	
STM MH 223/ 0.00 / 240.91		STM MH 220/ 0.00 / 237.90		STM MH 205/ 0.00 / 239.98	
STM MH 128/ 0.00 / 239.51		STM MH 127/ 0.00 / 240.08		STM MH 122/ 0.00 / 240.73	
STM MH 123/ 0.00 / 240.64		STM MH 126/ 0.00 / 240.22		STM MH 125/ 0.00 / 240.38	
STM MH 124/ 0.00 / 240.50		STM MH 129/ 0.00 / 239.37		STM MH 133/ 0.00 / 239.06	
STM MH 170/ 0.00 / 236.80		STM MH 38/ 0.00 / 239.79		STM MH 18/ 0.00 / 238.89	
STM MH 218/ 0.00 / 240.28		STM MH 131/ 0.00 / 239.29		STM MH 219/ 0.00 / 239.23	
STM MH 17/ 0.00 / 239.15		STM MH 39/ 0.00 / 239.61		STM MH 153/ 0.00 / 236.68	
STM MH 204/ 0.00 / 240.52		CULTEC 5/ 0.00 / 236.47		STM MH 27/ 0.00 / 235.58	
STM MH 228/ 0.00 / 240.00		STM MH 26/ 0.00 / 236.06		STM MH 169/ 0.00 / 239.87	
STM MH 28/ 0.00 / 235.10		STM MH 168/ 0.00 / 240.23		STM MH 41/ 0.07 / 239.37	
PROP CB 39/ 0.00 / 240.76		STM CBMH 19/ 0.00 / 238.72		STM CBMH 250/ 0.00 / 238.51	
STM MH 134/ 0.00 / 239.70		STM MH 135/ 0.00 / 239.21		PROP DCB 62/ 0.00 / 241.28	
STM MH 256/ 0.05 / 239.15		STM MH 85/ 0.01 / 238.41		CULTEC 1/ 0.01 / 238.84	
STM MH 82/ 0.00 / 239.73		CULTEC 2/ 0.01 / 239.12		STM MH 83/ 0.00 / 239.43	
CAP 23/ 0.00 / 241.36		STM MH 142/ 0.00 / 239.05		CAP 14/ 0.00 / 241.36	
CAP 15/ 0.00 / 241.36		CAP 16/ 0.00 / 241.36		CAP 24/ 0.00 / 241.36	
CAP 22/ 0.00 / 241.36		CAP 21/ 0.00 / 241.36		CAP 20/ 0.00 / 241.36	
CAP 19/ 0.00 / 241.36		CAP 18/ 0.00 / 241.36		CAP 17/ 0.00 / 241.36	
CAP 13/ 0.00 / 241.36		CAP 12/ 0.00 / 241.36		CAP 11/ 0.00 / 241.36	
CAP 10/ 0.00 / 241.36		CAP 9/ 0.00 / 241.36		CAP 8/ 0.00 / 241.36	
CAP 7/ 0.00 / 241.36		CAP 6/ 0.00 / 241.36		CAP 5/ 0.00 / 241.36	
CAP 4/ 0.00 / 241.36		CAP 3/ 0.00 / 241.36		CAP 2/ 0.03 / 241.39	
CAP 1/ 0.03 / 241.39		STM MH 141/ 0.00 / 239.93		STM MH 42/ 0.04 / 238.09	
CULTEC 4/ 0.00 / 234.84		STM MH 43/ 0.04 / 235.55		STM MH 238/ 0.00 / 237.93	
STM MH 237/ 0.00 / 238.20		STM MH 31/ 0.04 / 232.54		STM MH 239/ 0.00 / 234.15	
STM MH 30/ 0.05 / 233.29		STM MH 255/ 0.04 / 232.22		Roof 1/ 0.00 / 252.00	
Roof 2/ 0.00 / 252.00		Node117/ 0.71 / 233.21		CB 4/ 0.00 / 240.46	
CB 3/ 0.00 / 240.96		CB 2/ 0.00 / 241.16		CB1/ 0.00 / 241.17	

Conduit/ FLOW	====>	"*" Conduit uses the normal flow option.				
STM - (14) (STORM) /	0.00	STM - (15) (STORM) /	0.00	STM - (16) (STORM) /	0.00	STM - (17) (STORM) /
0.00						
STM - (18) (STORM) /	0.00	STM - (19) (STORM) /	0.00	STM - (20) (STORM) /	0.00	STM - (21) (STORM) /
0.00						
STM - (22) (STORM) /	0.00	STM - (24) (STORM) /	0.00	STM - (25) (STORM) /	0.00	STM - (26) (STORM) /
0.00						
STM - (27) (STORM) /	0.00	STM - (28) (STORM) /	0.00	STM - (29) (STORM) /	0.01	STM - (30) (STORM) /
0.00						
STM - (32) (STORM) /	0.00	STM - (33) (STORM) /	0.00	STM - (34) (STORM) /	0.00	STM - (35) (STORM) /
0.00						
STM - (36) (STORM) /	0.00	STM - (37) (STORM) /	0.00	STM - (38) (STORM) /	0.01	STM - (39) (STORM) /
0.01						
STM - (40) (STORM) /	0.01	STM - (41) (STORM) /	0.01	STM - (53) (STORM) /	0.00	STM - (54) (STORM) /
0.00						

STM - (55) (STORM) /	0.00	STM - (56) (STORM) /	0.00	STM - (57) (STORM) /	0.00	STM - (58) (STORM) /
0.00						
STM - (59) (STORM) /	0.00	ID*352/	0.01	STM - (61) (STORM) /	0.00	STM - (62) (STORM) /
0.00						
STM - (63) (STORM) /	0.00	STM - (65) (STORM) /	0.00	STM - (66) (STORM) /	0.00	ID*359/
0.00						
STM - (67) (STORM) /	0.00	STM - (68) (STORM) /	0.00	ID*362/	0.00	STM - (69) (STORM) /
0.00						
STM - (70) (STORM) /	0.00	ID*365/	0.00	STM - (71) (STORM) /	0.00	STM - (72) (STORM) /
0.00						
ID*368/	0.00	STM - (73) (STORM) /	0.00	ID*370/	0.00	STM - (74) (STORM) /
0.00						
STM - (75) (STORM) /	0.00	STM - (76) (STORM) /	0.00	ID*374/	0.00	STM - (77) (STORM) /
0.00						
ID*376/	0.00	STM - (78) (STORM) /	0.00	ID*378/	0.00	STM - (79) (STORM) /
0.00						
STM - (80) (STORM) /	0.00	ID*381/	0.00	STM - (81) (STORM) /	0.00	STM - (82) (STORM) /
0.00						
ID*384/	0.00	STM - (83) (STORM) /	0.00	STM - (84) (STORM) /	0.00	ID*387/
0.00						
ID*388/	0.00	ID*390/	0.00	STM - (86) (STORM) /	0.00	STM - (87) (STORM) /
0.00						
STM - (88) (STORM) /	0.00	STM - (89) (STORM) /	0.00	STM - (95) (STORM) /	0.00	STM - (96) (STORM) /
0.00						
ID*397/	0.00	ID*398/	0.00	STM - (119) (STORM) /	0.00	STM - (120) (STORM) /
0.00						
ID*401/	0.00	STM - (121) (STORM) /	0.00	STM - (130) (STORM) /	0.00	ID*409/
0.00						
STM - (142) (STORM) /	0.00	STM - (143) (STORM) /	0.00	ID*412/	0.00	ID*413/
0.00						
ID*414/	0.00	ID*415/	0.00	STM - (151) (STORM) /	0.00	STM - (152) (STORM) /
0.00						
ID*418/	0.00	STM - (155) (STORM) /	0.00	STM - (158) (STORM) /	0.00	ID*421/
0.00						
STM - (160) (STORM) /	0.00	ID*423/	0.00	STM - (161) (STORM) /	0.00	ID*425/
0.00						
STM - (170) (STORM) /	0.01	ID*427/	0.01	Link116/	0.00	Link117/
0.00						
Link118/	0.00	Link119/	0.00	Link122/	0.00	spill/
0.00						
Roof Control/	0.00	Roof Control2/	0.00	Orifice 1/	0.01	FREE# 1/
0.01						

Cycle 11000 Time 15 Hrs - 16.67 Min

Junction / Depth / Elevation ==> "*" Junction is Surcharged.

STM MH 188/	0.00 /	244.62	STM MH 187/	0.00 /	246.68	STM MH 203/	0.00 /	245.93
STM MH 236/	0.00 /	245.32	STM MH 21/	0.00 /	238.12	STM MH 23/	0.00 /	237.26
STM MH 154/	0.00 /	237.00	STM MH 22/	0.00 /	237.42	CB 6/	0.00 /	241.39
STM MH 227/	0.00 /	240.77	STM MH 132/	0.00 /	241.18	STM MH 116/	0.00 /	240.98
STM MH 221/	0.00 /	237.67	STM MH 35/	0.00 /	240.44	STM MH 36/	0.00 /	240.17
STM MH 118/	0.00 /	240.28	STM MH 34/	0.00 /	240.90	STM MH 121/	0.00 /	240.80
STM MH 120/	0.00 /	240.70	STM MH 117/	0.00 /	240.02	STM MH 119/	0.00 /	240.55
STM MH 20/	0.00 /	238.34	STM MH 37/	0.00 /	239.87	STM MH 40/	0.06 /	239.54
STM MH 86/	0.04 /	240.92	STM MH 115/	0.05 /	240.08	STM MH 87/	0.04 /	240.27
STM MH 223/	0.00 /	240.91	STM MH 220/	0.00 /	237.90	STM MH 205/	0.00 /	239.98
STM MH 128/	0.00 /	239.51	STM MH 127/	0.00 /	240.08	STM MH 122/	0.00 /	240.73
STM MH 123/	0.00 /	240.64	STM MH 126/	0.00 /	240.22	STM MH 125/	0.00 /	240.38
STM MH 124/	0.00 /	240.50	STM MH 129/	0.00 /	239.37	STM MH 133/	0.00 /	239.06
STM MH 170/	0.00 /	236.80	STM MH 38/	0.00 /	239.79	STM MH 18/	0.00 /	238.89
STM MH 218/	0.00 /	240.28	STM MH 131/	0.00 /	239.29	STM MH 219/	0.00 /	239.23
STM MH 17/	0.00 /	239.15	STM MH 39/	0.00 /	239.61	STM MH 153/	0.00 /	236.68
STM MH 204/	0.00 /	240.52	CULTEC 5/	0.00 /	236.47	STM MH 27/	0.00 /	235.58
STM MH 228/	0.00 /	240.00	STM MH 26/	0.00 /	236.06	STM MH 169/	0.00 /	239.87
STM MH 28/	0.00 /	235.10	STM MH 168/	0.00 /	240.23	STM MH 41/	0.07 /	239.37
PROP CB 39/	0.00 /	240.76	STM CBMH 19/	0.00 /	238.72	STM CBMH 250/	0.00 /	238.51
STM MH 134/	0.00 /	239.70	STM MH 135/	0.00 /	239.21	PROP DCB 62/	0.00 /	241.28
STM MH 256/	0.05 /	239.15	STM MH 85/	0.01 /	238.41	CULTEC 1/	0.01 /	238.84
STM MH 82/	0.00 /	239.73	CULTEC 2/	0.01 /	239.12	STM MH 83/	0.00 /	239.43
CAP 23/	0.00 /	241.36	STM MH 142/	0.00 /	239.05	CAP 14/	0.00 /	241.36
CAP 15/	0.00 /	241.36	CAP 16/	0.00 /	241.36	CAP 24/	0.00 /	241.36
CAP 22/	0.00 /	241.36	CAP 21/	0.00 /	241.36	CAP 20/	0.00 /	241.36
CAP 19/	0.00 /	241.36	CAP 18/	0.00 /	241.36	CAP 17/	0.00 /	241.36
CAP 13/	0.00 /	241.36	CAP 12/	0.00 /	241.36	CAP 11/	0.00 /	241.36
CAP 10/	0.00 /	241.36	CAP 9/	0.00 /	241.36	CAP 8/	0.00 /	241.36
CAP 7/	0.00 /	241.36	CAP 6/	0.00 /	241.36	CAP 5/	0.00 /	241.36
CAP 4/	0.00 /	241.36	CAP 3/	0.00 /	241.36	CAP 2/	0.03 /	241.39
CAP 1/	0.03 /	241.39	STM MH 141/	0.00 /	239.93	STM MH 42/	0.04 /	238.09
CULTEC 4/	0.00 /	234.84	STM MH 43/	0.04 /	235.54	STM MH 238/	0.00 /	237.93
STM MH 237/	0.00 /	238.20	STM MH 31/	0.04 /	232.54	STM MH 239/	0.00 /	234.15
STM MH 30/	0.05 /	233.28	STM MH 255/	0.03 /	232.21	Roof 1/	0.00 /	252.00
Roof 2/	0.00 /	252.00	Node117/	0.70 /	233.20	CB 4/	0.00 /	240.46
CB 3/	0.00 /	240.96	CB 2/	0.00 /	241.16	CB1/	0.00 /	241.17

Conduit/	FLOW	==> "*" Conduit uses the normal flow option.				
STM - (14) (STORM) /	0.00	STM - (15) (STORM) /	0.00	STM - (16) (STORM) /	0.00	STM - (17) (STORM) /
0.00						
STM - (18) (STORM) /	0.00	STM - (19) (STORM) /	0.00	STM - (20) (STORM) /	0.00	STM - (21) (STORM) /
0.00						
STM - (22) (STORM) /	0.00	STM - (24) (STORM) /	0.00	STM - (25) (STORM) /	0.00	STM - (26) (STORM) /
0.00						
STM - (27) (STORM) /	0.00	STM - (28) (STORM) /	0.00	STM - (29) (STORM) /	0.01	STM - (30) (STORM) /
0.00						
STM - (32) (STORM) /	0.00	STM - (33) (STORM) /	0.00	STM - (34) (STORM) /	0.00	STM - (35) (STORM) /
0.00						

STM - (36) (STORM) /	0.00	STM - (37) (STORM) /	0.00	STM - (38) (STORM) /	0.01	STM - (39) (STORM) /
0.01						
STM - (40) (STORM) /	0.01	STM - (41) (STORM) /	0.01	STM - (53) (STORM) /	0.00	STM - (54) (STORM) /
0.00						
STM - (55) (STORM) /	0.00	STM - (56) (STORM) /	0.00	STM - (57) (STORM) /	0.00	STM - (58) (STORM) /
0.00						
STM - (59) (STORM) /	0.00	ID*352/	0.01	STM - (61) (STORM) /	0.00	STM - (62) (STORM) /
0.00						
STM - (63) (STORM) /	0.00	STM - (65) (STORM) /	0.00	STM - (66) (STORM) /	0.00	ID*359/
0.00						
STM - (67) (STORM) /	0.00	STM - (68) (STORM) /	0.00	ID*362/	0.00	STM - (69) (STORM) /
0.00						
STM - (70) (STORM) /	0.00	ID*365/	0.00	STM - (71) (STORM) /	0.00	STM - (72) (STORM) /
0.00						
ID*368/	0.00	STM - (73) (STORM) /	0.00	ID*370/	0.00	STM - (74) (STORM) /
0.00						
STM - (75) (STORM) /	0.00	STM - (76) (STORM) /	0.00	ID*374/	0.00	STM - (77) (STORM) /
0.00						
ID*376/	0.00	STM - (78) (STORM) /	0.00	ID*378/	0.00	STM - (79) (STORM) /
0.00						
STM - (80) (STORM) /	0.00	ID*381/	0.00	STM - (81) (STORM) /	0.00	STM - (82) (STORM) /
0.00						
ID*384/	0.00	STM - (83) (STORM) /	0.00	STM - (84) (STORM) /	0.00	ID*387/
0.00						
ID*388/	0.00	ID*390/	0.00	STM - (86) (STORM) /	0.00	STM - (87) (STORM) /
0.00						
STM - (88) (STORM) /	0.00	STM - (89) (STORM) /	0.00	STM - (95) (STORM) /	0.00	STM - (96) (STORM) /
0.00						
ID*397/	0.00	ID*398/	0.00	STM - (119) (STORM) /	0.00	STM - (120) (STORM) /
0.00						
ID*401/	0.00	STM - (121) (STORM) /	0.00	STM - (130) (STORM) /	0.00	ID*409/
0.00						
STM - (142) (STORM) /	0.00	STM - (143) (STORM) /	0.00	ID*412/	0.00	ID*413/
0.00						
ID*414/	0.00	ID*415/	0.00	STM - (151) (STORM) /	0.00	STM - (152) (STORM) /
0.00						
ID*418/	0.00	STM - (155) (STORM) /	0.00	STM - (158) (STORM) /	0.00	ID*421/
0.00						
STM - (160) (STORM) /	0.00	ID*423/	0.00	STM - (161) (STORM) /	0.00	ID*425/
0.00						
STM - (170) (STORM) /	0.01	ID*427/	0.01	Link116/	0.00	Link117/
0.00						
Link118/	0.00	Link119/	0.00	Link122/	0.00	spill/
0.00						
Roof Control/	0.00	Roof Control2/	0.00	Orifice 1/	0.01	FREE# 1/
0.01						

Cycle 11500 Time 15 Hrs - 58.33 Min

Junction / Depth / Elevation	====>	"*" Junction is Surcharged.
STM MH 188/ 0.00 / 244.62		STM MH 187/ 0.00 / 246.68
STM MH 236/ 0.00 / 245.32		STM MH 21/ 0.00 / 238.12
STM MH 154/ 0.00 / 237.00		STM MH 22/ 0.00 / 237.42
STM MH 227/ 0.00 / 240.77		STM MH 132/ 0.00 / 241.18
STM MH 221/ 0.00 / 237.67		STM MH 35/ 0.00 / 240.44
STM MH 118/ 0.00 / 240.28		STM MH 34/ 0.00 / 240.90
STM MH 120/ 0.00 / 240.70		STM MH 117/ 0.00 / 240.02
STM MH 20/ 0.00 / 238.34		STM MH 37/ 0.00 / 239.87
STM MH 86/ 0.03 / 240.91		STM MH 115/ 0.05 / 240.08
STM MH 223/ 0.00 / 240.91		STM MH 220/ 0.00 / 237.90
STM MH 128/ 0.00 / 239.51		STM MH 127/ 0.00 / 240.08
STM MH 123/ 0.00 / 240.64		STM MH 126/ 0.00 / 240.22
STM MH 124/ 0.00 / 240.50		STM MH 129/ 0.00 / 239.37
STM MH 170/ 0.00 / 236.80		STM MH 38/ 0.00 / 239.79
STM MH 218/ 0.00 / 240.28		STM MH 131/ 0.00 / 239.29
STM MH 17/ 0.00 / 239.15		STM MH 39/ 0.00 / 239.61
STM MH 204/ 0.00 / 240.52		CULTEC 5/ 0.00 / 236.47
STM MH 228/ 0.00 / 240.00		STM MH 26/ 0.00 / 236.06
STM MH 28/ 0.00 / 235.10		STM MH 168/ 0.00 / 240.23
PROP CB 39/ 0.00 / 240.76		STM CBMH 19/ 0.00 / 238.72
STM MH 134/ 0.00 / 239.70		STM MH 135/ 0.00 / 239.21
STM MH 256/ 0.04 / 239.14		STM MH 85/ 0.01 / 238.41
STM MH 82/ 0.00 / 239.73		CULTEC 2/ 0.01 / 239.12
CAP 23/ 0.00 / 241.36		STM MH 142/ 0.00 / 239.05
CAP 15/ 0.00 / 241.36		CAP 16/ 0.00 / 241.36
CAP 22/ 0.00 / 241.36		CAP 21/ 0.00 / 241.36
CAP 19/ 0.00 / 241.36		CAP 18/ 0.00 / 241.36
CAP 13/ 0.00 / 241.36		CAP 12/ 0.00 / 241.36
CAP 10/ 0.00 / 241.36		CAP 9/ 0.00 / 241.36
CAP 7/ 0.00 / 241.36		CAP 6/ 0.00 / 241.36
CAP 4/ 0.00 / 241.36		CAP 3/ 0.00 / 241.36
CAP 1/ 0.03 / 241.39		STM MH 141/ 0.00 / 239.93
CULTEC 4/ 0.00 / 234.84		STM MH 43/ 0.04 / 235.54
STM MH 237/ 0.00 / 238.20		STM MH 31/ 0.04 / 232.53
STM MH 30/ 0.04 / 233.28		STM MH 255/ 0.03 / 232.21
Roof 2/ 0.00 / 252.00		Node117/ 0.69 / 233.19
CB 3/ 0.00 / 240.96		CB 2/ 0.00 / 241.16
		STM MH 203/ 0.00 / 245.93
		STM MH 23/ 0.00 / 237.26
		CB 6/ 0.00 / 241.39
		STM MH 116/ 0.00 / 240.98
		STM MH 36/ 0.00 / 240.17
		STM MH 121/ 0.00 / 240.80
		STM MH 119/ 0.00 / 240.55
		STM MH 40/ 0.05 / 239.53
		STM MH 87/ 0.03 / 240.26
		STM MH 205/ 0.00 / 239.98
		STM MH 122/ 0.00 / 240.73
		STM MH 125/ 0.00 / 240.38
		STM MH 133/ 0.00 / 239.06
		STM MH 18/ 0.00 / 238.89
		STM MH 219/ 0.00 / 239.23
		STM MH 153/ 0.00 / 236.68
		STM MH 27/ 0.00 / 235.58
		STM MH 169/ 0.00 / 239.87
		STM MH 41/ 0.06 / 239.36
		STM CBMH 250/ 0.00 / 238.51
		PROP DCB 62/ 0.00 / 241.28
		CULTEC 1/ 0.01 / 238.84
		STM MH 83/ 0.00 / 239.43
		CAP 14/ 0.00 / 241.36
		CAP 24/ 0.00 / 241.36
		CAP 20/ 0.00 / 241.36
		CAP 17/ 0.00 / 241.36
		CAP 11/ 0.00 / 241.36
		CAP 8/ 0.00 / 241.36
		CAP 5/ 0.00 / 241.36
		CAP 2/ 0.03 / 241.39
		STM MH 42/ 0.04 / 238.09
		STM MH 238/ 0.00 / 237.93
		STM MH 239/ 0.00 / 234.15
		Roof 1/ 0.00 / 252.00
		CB 4/ 0.00 / 240.46
		CB1/ 0.00 / 241.17

Conduit/	FLOW	====>	"*" Conduit uses the normal flow option.
STM - (14) (STORM) /	0.00	STM - (15) (STORM) /	0.00
0.00			
STM - (18) (STORM) /	0.00	STM - (19) (STORM) /	0.00
0.00			
STM - (22) (STORM) /	0.00	STM - (24) (STORM) /	0.00
0.00			
		STM - (20) (STORM) /	0.00
		STM - (21) (STORM) /	0.00
		STM - (25) (STORM) /	0.00
		STM - (26) (STORM) /	0.00

0.00	STM - (27) (STORM) /	0.00	STM - (28) (STORM) /	0.00	STM - (29) (STORM) /	0.01	STM - (30) (STORM) /
0.00	STM - (32) (STORM) /	0.00	STM - (33) (STORM) /	0.00	STM - (34) (STORM) /	0.00	STM - (35) (STORM) /
0.01	STM - (36) (STORM) /	0.00	STM - (37) (STORM) /	0.00	STM - (38) (STORM) /	0.01	STM - (39) (STORM) /
0.00	STM - (40) (STORM) /	0.01	STM - (41) (STORM) /	0.01	STM - (53) (STORM) /	0.00	STM - (54) (STORM) /
0.00	STM - (55) (STORM) /	0.00	STM - (56) (STORM) /	0.00	STM - (57) (STORM) /	0.00	STM - (58) (STORM) /
0.00	STM - (59) (STORM) /	0.00	ID*352/	0.01	STM - (61) (STORM) /	0.00	STM - (62) (STORM) /
0.00	STM - (63) (STORM) /	0.00	STM - (65) (STORM) /	0.00	STM - (66) (STORM) /	0.00	ID*359/
0.00	STM - (67) (STORM) /	0.00	STM - (68) (STORM) /	0.00	ID*362/	0.00	STM - (69) (STORM) /
0.00	STM - (70) (STORM) /	0.00	ID*365/	0.00	STM - (71) (STORM) /	0.00	STM - (72) (STORM) /
0.00	ID*368/	0.00	STM - (73) (STORM) /	0.00	ID*370/	0.00	STM - (74) (STORM) /
0.00	STM - (75) (STORM) /	0.00	STM - (76) (STORM) /	0.00	ID*374/	0.00	STM - (77) (STORM) /
0.00	ID*376/	0.00	STM - (78) (STORM) /	0.00	ID*378/	0.00	STM - (79) (STORM) /
0.00	STM - (80) (STORM) /	0.00	ID*381/	0.00	STM - (81) (STORM) /	0.00	STM - (82) (STORM) /
0.00	ID*384/	0.00	STM - (83) (STORM) /	0.00	STM - (84) (STORM) /	0.00	ID*387/
0.00	ID*388/	0.00	ID*390/	0.00	STM - (86) (STORM) /	0.00	STM - (87) (STORM) /
0.00	STM - (88) (STORM) /	0.00	STM - (89) (STORM) /	0.00	STM - (95) (STORM) /	0.00	STM - (96) (STORM) /
0.00	ID*397/	0.00	ID*398/	0.00	STM - (119) (STORM) /	0.00	STM - (120) (STORM) /
0.00	ID*401/	0.00	STM - (121) (STORM) /	0.00	STM - (130) (STORM) /	0.00	ID*409/
0.00	STM - (142) (STORM) /	0.00	STM - (143) (STORM) /	0.00	ID*412/	0.00	ID*413/
0.00	ID*414/	0.00	ID*415/	0.00	STM - (151) (STORM) /	0.00	STM - (152) (STORM) /
0.00	ID*418/	0.00	STM - (155) (STORM) /	0.00	STM - (158) (STORM) /	0.00	ID*421/
0.00	STM - (160) (STORM) /	0.00	ID*423/	0.00	STM - (161) (STORM) /	0.00	ID*425/
0.00	STM - (170) (STORM) /	0.01	ID*427/	0.01	Link116/	0.00	Link117/
0.00	Link118/	0.00	Link119/	0.00	Link122/	0.00	spill/
0.01	Roof Control1/	0.00	Roof Control2/	0.00	Orifice 1/	0.01	FREE# 1/

Cycle 12000 Time 16 Hrs - 40.00 Min

Junction /	Depth /	Elevation	====>	*** Junction is Surcharged.			
STM MH 188/	0.00 /	244.62		STM MH 187/	0.00 /	246.68	STM MH 203/ 0.00 / 245.93
STM MH 236/	0.00 /	245.32		STM MH 21/	0.00 /	238.12	STM MH 23/ 0.00 / 237.26
STM MH 154/	0.00 /	237.00		STM MH 22/	0.00 /	237.42	CB 6/ 0.00 / 241.39
STM MH 227/	0.00 /	240.77		STM MH 132/	0.00 /	241.18	STM MH 116/ 0.00 / 240.98
STM MH 221/	0.00 /	237.67		STM MH 35/	0.00 /	240.44	STM MH 36/ 0.00 / 240.17
STM MH 118/	0.00 /	240.28		STM MH 34/	0.00 /	240.90	STM MH 121/ 0.00 / 240.80
STM MH 120/	0.00 /	240.70		STM MH 117/	0.00 /	240.02	STM MH 119/ 0.00 / 240.55
STM MH 20/	0.00 /	238.34		STM MH 37/	0.00 /	239.87	STM MH 40/ 0.05 / 239.53
STM MH 86/	0.03 /	240.91		STM MH 115/	0.04 /	240.07	STM MH 87/ 0.03 / 240.26
STM MH 223/	0.00 /	240.91		STM MH 220/	0.00 /	237.90	STM MH 205/ 0.00 / 239.98
STM MH 128/	0.00 /	239.51		STM MH 127/	0.00 /	240.08	STM MH 122/ 0.00 / 240.73
STM MH 123/	0.00 /	240.64		STM MH 126/	0.00 /	240.22	STM MH 125/ 0.00 / 240.38
STM MH 124/	0.00 /	240.50		STM MH 129/	0.00 /	239.37	STM MH 133/ 0.00 / 239.06
STM MH 170/	0.00 /	236.80		STM MH 38/	0.00 /	239.79	STM MH 18/ 0.00 / 238.89
STM MH 218/	0.00 /	240.28		STM MH 131/	0.00 /	239.29	STM MH 219/ 0.00 / 239.23
STM MH 17/	0.00 /	239.15		STM MH 39/	0.00 /	239.61	STM MH 153/ 0.00 / 236.68
STM MH 204/	0.00 /	240.52		CULTEC 5/	0.00 /	236.47	STM MH 27/ 0.00 / 235.58
STM MH 228/	0.00 /	240.00		STM MH 26/	0.00 /	236.06	STM MH 169/ 0.00 / 239.87
STM MH 28/	0.00 /	235.10		STM MH 168/	0.00 /	240.23	STM MH 41/ 0.05 / 239.35
PROP CB 39/	0.00 /	240.76		STM CBMH 19/	0.00 /	238.72	STM CBMH 250/ 0.00 / 238.51
STM MH 134/	0.00 /	239.70		STM MH 135/	0.00 /	239.21	PROP DCB 62/ 0.00 / 241.28
STM MH 256/	0.04 /	239.14		STM MH 85/	0.01 /	238.41	CULTEC 1/ 0.01 / 238.84
STM MH 82/	0.00 /	239.73		CULTEC 2/	0.01 /	239.12	STM MH 83/ 0.00 / 239.43
CAP 23/	0.00 /	241.36		STM MH 142/	0.00 /	239.05	CAP 14/ 0.00 / 241.36
CAP 15/	0.00 /	241.36		CAP 16/	0.00 /	241.36	CAP 24/ 0.00 / 241.36
CAP 22/	0.00 /	241.36		CAP 21/	0.00 /	241.36	CAP 20/ 0.00 / 241.36
CAP 19/	0.00 /	241.36		CAP 18/	0.00 /	241.36	CAP 17/ 0.00 / 241.36
CAP 13/	0.00 /	241.36		CAP 12/	0.00 /	241.36	CAP 11/ 0.00 / 241.36
CAP 10/	0.00 /	241.36		CAP 9/	0.00 /	241.36	CAP 8/ 0.00 / 241.36
CAP 7/	0.00 /	241.36		CAP 6/	0.00 /	241.36	CAP 5/ 0.00 / 241.36
CAP 4/	0.00 /	241.36		CAP 3/	0.00 /	241.36	CAP 2/ 0.02 / 241.38
CAP 1/	0.02 /	241.38		STM MH 141/	0.00 /	239.93	STM MH 42/ 0.03 / 238.08
CULTEC 4/	0.00 /	234.84		STM MH 43/	0.03 /	235.53	STM MH 238/ 0.00 / 237.93
STM MH 237/	0.00 /	238.20		STM MH 31/	0.03 /	232.53	STM MH 239/ 0.00 / 234.15
STM MH 30/	0.04 /	233.27		STM MH 255/	0.02 /	232.20	Roof 1/ 0.00 / 252.00
Roof 2/	0.00 /	252.00		Node117/	0.69 /	233.18	CB 4/ 0.00 / 240.46
CB 3/	0.00 /	240.96		CB 2/	0.00 /	241.16	CB1/ 0.00 / 241.17

0.00	Conduit/	FLOW	====>	*** Conduit uses the normal flow option.			
0.00	STM - (14) (STORM) /	0.00	STM - (15) (STORM) /	0.00	STM - (16) (STORM) /	0.00	STM - (17) (STORM) /

STM - (18) (STORM) /	0.00	STM - (19) (STORM) /	0.00	STM - (20) (STORM) /	0.00	STM - (21) (STORM) /	
0.00							
STM - (22) (STORM) /	0.00	STM - (24) (STORM) /	0.00	STM - (25) (STORM) /	0.00	STM - (26) (STORM) /	
0.00							
STM - (27) (STORM) /	0.00	STM - (28) (STORM) /	0.00	STM - (29) (STORM) /	0.01	STM - (30) (STORM) /	
0.00							
STM - (32) (STORM) /	0.00	STM - (33) (STORM) /	0.00	STM - (34) (STORM) /	0.00	STM - (35) (STORM) /	
0.00							
STM - (36) (STORM) /	0.00	STM - (37) (STORM) /	0.00	STM - (38) (STORM) /	0.00	STM - (39) (STORM) /	
0.01							
STM - (40) (STORM) /	0.01	STM - (41) (STORM) /	0.01	STM - (53) (STORM) /	0.00	STM - (54) (STORM) /	
0.00							
STM - (55) (STORM) /	0.00	STM - (56) (STORM) /	0.00	STM - (57) (STORM) /	0.00	STM - (58) (STORM) /	
0.00							
STM - (59) (STORM) /	0.00	ID*352/	0.00	STM - (61) (STORM) /	0.00	STM - (62) (STORM) /	
0.00							
STM - (63) (STORM) /	0.00	STM - (65) (STORM) /	0.00	STM - (66) (STORM) /	0.00	ID*359/	
0.00							
STM - (67) (STORM) /	0.00	STM - (68) (STORM) /	0.00	ID*362/	0.00	STM - (69) (STORM) /	
0.00							
STM - (70) (STORM) /	0.00	ID*365/	0.00	STM - (71) (STORM) /	0.00	STM - (72) (STORM) /	
0.00							
ID*368/	0.00	STM - (73) (STORM) /	0.00	ID*370/	0.00	STM - (74) (STORM) /	
0.00							
STM - (75) (STORM) /	0.00	STM - (76) (STORM) /	0.00	ID*374/	0.00	STM - (77) (STORM) /	
0.00							
ID*376/	0.00	STM - (78) (STORM) /	0.00	ID*378/	0.00	STM - (79) (STORM) /	
0.00							
STM - (80) (STORM) /	0.00	ID*381/	0.00	STM - (81) (STORM) /	0.00	STM - (82) (STORM) /	
0.00							
ID*384/	0.00	STM - (83) (STORM) /	0.00	STM - (84) (STORM) /	0.00	ID*387/	
0.00							
ID*388/	0.00	ID*390/	0.00	STM - (86) (STORM) /	0.00	STM - (87) (STORM) /	
0.00							
STM - (88) (STORM) /	0.00	STM - (89) (STORM) /	0.00	STM - (95) (STORM) /	0.00	STM - (96) (STORM) /	
0.00							
ID*397/	0.00	ID*398/	0.00	STM - (119) (STORM) /	0.00	STM - (120) (STORM) /	
0.00							
ID*401/	0.00	STM - (121) (STORM) /	0.00	STM - (130) (STORM) /	0.00	ID*409/	
0.00							
STM - (142) (STORM) /	0.00	STM - (143) (STORM) /	0.00	ID*412/	0.00	ID*413/	
0.00							
ID*414/	0.00	ID*415/	0.00	STM - (151) (STORM) /	0.00	STM - (152) (STORM) /	
0.00							
ID*418/	0.00	STM - (155) (STORM) /	0.00	STM - (158) (STORM) /	0.00	ID*421/	
0.00							
STM - (160) (STORM) /	0.00	ID*423/	0.00	STM - (161) (STORM) /	0.00	ID*425/	
0.00							
STM - (170) (STORM) /	0.01	ID*427/	0.01	Link116/	0.00	Link117/	
0.00							
Link118/	0.00	Link119/	0.00	Link122/	0.00	spill/	
0.00							
Roof Control/	0.00	Roof Control2/	0.00	Orifice 1/	0.01	FREE# 1/	
0.01							

Cycle 12500 Time 17 Hrs - 21.67 Min

Junction / Depth / Elevation	====>	"*" Junction is Surcharged.			
STM MH 188/ 0.00 / 244.62		STM MH 187/ 0.00 / 246.68		STM MH 203/ 0.00 / 245.93	
STM MH 236/ 0.00 / 245.32		STM MH 21/ 0.00 / 238.12		STM MH 23/ 0.00 / 237.26	
STM MH 154/ 0.00 / 237.00		STM MH 22/ 0.00 / 237.42		CB 6/ 0.00 / 241.39	
STM MH 227/ 0.00 / 240.77		STM MH 132/ 0.00 / 241.18		STM MH 116/ 0.00 / 240.98	
STM MH 221/ 0.00 / 237.67		STM MH 35/ 0.00 / 240.44		STM MH 36/ 0.00 / 240.17	
STM MH 118/ 0.00 / 240.28		STM MH 34/ 0.00 / 240.90		STM MH 121/ 0.00 / 240.80	
STM MH 120/ 0.00 / 240.70		STM MH 117/ 0.00 / 240.02		STM MH 119/ 0.00 / 240.55	
STM MH 20/ 0.00 / 238.34		STM MH 37/ 0.00 / 239.87		STM MH 40/ 0.04 / 239.52	
STM MH 86/ 0.03 / 240.91		STM MH 115/ 0.04 / 240.07		STM MH 87/ 0.03 / 240.26	
STM MH 223/ 0.00 / 240.91		STM MH 220/ 0.00 / 237.90		STM MH 205/ 0.00 / 239.98	
STM MH 128/ 0.00 / 239.51		STM MH 127/ 0.00 / 240.08		STM MH 122/ 0.00 / 240.73	
STM MH 123/ 0.00 / 240.64		STM MH 126/ 0.00 / 240.22		STM MH 125/ 0.00 / 240.38	
STM MH 124/ 0.00 / 240.50		STM MH 129/ 0.00 / 239.37		STM MH 133/ 0.00 / 239.06	
STM MH 170/ 0.00 / 236.80		STM MH 38/ 0.00 / 239.79		STM MH 18/ 0.00 / 238.89	
STM MH 218/ 0.00 / 240.28		STM MH 131/ 0.00 / 239.29		STM MH 219/ 0.00 / 239.23	
STM MH 17/ 0.00 / 239.15		STM MH 39/ 0.00 / 239.61		STM MH 153/ 0.00 / 236.68	
STM MH 204/ 0.00 / 240.52		CULTEC 5/ 0.00 / 236.47		STM MH 27/ 0.00 / 235.58	
STM MH 228/ 0.00 / 240.00		STM MH 26/ 0.00 / 236.06		STM MH 169/ 0.00 / 239.87	
STM MH 28/ 0.00 / 235.10		STM MH 168/ 0.00 / 240.23		STM MH 41/ 0.05 / 239.35	
PROP CB 39/ 0.00 / 240.76		STM CBMH 19/ 0.00 / 238.72		STM CBMH 250/ 0.00 / 238.51	
STM MH 134/ 0.00 / 239.70		STM MH 135/ 0.00 / 239.21		PROP DCB 62/ 0.00 / 241.28	
STM MH 256/ 0.04 / 239.14		STM MH 85/ 0.01 / 238.41		CULTEC 1/ 0.01 / 238.84	
STM MH 82/ 0.00 / 239.73		CULTEC 2/ 0.01 / 239.12		STM MH 83/ 0.00 / 239.43	
CAP 23/ 0.00 / 241.36		STM MH 142/ 0.00 / 239.05		CAP 14/ 0.00 / 241.36	
CAP 15/ 0.00 / 241.36		CAP 16/ 0.00 / 241.36		CAP 24/ 0.00 / 241.36	
CAP 22/ 0.00 / 241.36		CAP 21/ 0.00 / 241.36		CAP 20/ 0.00 / 241.36	
CAP 19/ 0.00 / 241.36		CAP 18/ 0.00 / 241.36		CAP 17/ 0.00 / 241.36	
CAP 13/ 0.00 / 241.36		CAP 12/ 0.00 / 241.36		CAP 11/ 0.00 / 241.36	
CAP 10/ 0.00 / 241.36		CAP 9/ 0.00 / 241.36		CAP 8/ 0.00 / 241.36	
CAP 7/ 0.00 / 241.36		CAP 6/ 0.00 / 241.36		CAP 5/ 0.00 / 241.36	
CAP 4/ 0.00 / 241.36		CAP 3/ 0.00 / 241.36		CAP 2/ 0.02 / 241.38	
CAP 1/ 0.02 / 241.38		STM MH 141/ 0.00 / 239.93		STM MH 42/ 0.03 / 238.08	
CULTEC 4/ 0.00 / 234.84		STM MH 43/ 0.03 / 235.53		STM MH 238/ 0.00 / 237.93	
STM MH 237/ 0.00 / 238.20		STM MH 31/ 0.03 / 232.53		STM MH 239/ 0.00 / 234.15	
STM MH 30/ 0.04 / 233.27		STM MH 255/ 0.02 / 232.20		Roof 1/ 0.00 / 252.00	
Roof 2/ 0.00 / 252.00		Node117/ 0.68 / 233.18		CB 4/ 0.00 / 240.46	
CB 3/ 0.00 / 240.96		CB 2/ 0.00 / 241.16		CB1/ 0.00 / 241.17	

Conduit/	FLOW	====>	"*" Conduit uses the	normal	flow option.				
STM - (14) (STORM)/	0.00	STM - (15) (STORM)/	0.00	STM - (16) (STORM)/	0.00	STM - (17) (STORM)/			
0.00									
STM - (18) (STORM)/	0.00	STM - (19) (STORM)/	0.00	STM - (20) (STORM)/	0.00	STM - (21) (STORM)/			
0.00									
STM - (22) (STORM)/	0.00	STM - (24) (STORM)/	0.00	STM - (25) (STORM)/	0.00	STM - (26) (STORM)/			
0.00									
STM - (27) (STORM)/	0.00	STM - (28) (STORM)/	0.00	STM - (29) (STORM)/	0.00	STM - (30) (STORM)/			
0.00									
STM - (32) (STORM)/	0.00	STM - (33) (STORM)/	0.00	STM - (34) (STORM)/	0.00	STM - (35) (STORM)/			
0.00									
STM - (36) (STORM)/	0.00	STM - (37) (STORM)/	0.00	STM - (38) (STORM)/	0.00	STM - (39) (STORM)/			
0.00									
STM - (40) (STORM)/	0.00	STM - (41) (STORM)/	0.00	STM - (53) (STORM)/	0.00	STM - (54) (STORM)/			
0.00									
STM - (55) (STORM)/	0.00	STM - (56) (STORM)/	0.00	STM - (57) (STORM)/	0.00	STM - (58) (STORM)/			
0.00									
STM - (59) (STORM)/	0.00	ID*352/	0.00	STM - (61) (STORM)/	0.00	STM - (62) (STORM)/			
0.00									
STM - (63) (STORM)/	0.00	STM - (65) (STORM)/	0.00	STM - (66) (STORM)/	0.00	ID*359/			
0.00									
STM - (67) (STORM)/	0.00	STM - (68) (STORM)/	0.00	ID*362/	0.00	STM - (69) (STORM)/			
0.00									
STM - (70) (STORM)/	0.00	ID*365/	0.00	STM - (71) (STORM)/	0.00	STM - (72) (STORM)/			
0.00									
ID*368/	0.00	STM - (73) (STORM)/	0.00	ID*370/	0.00	STM - (74) (STORM)/			
0.00									
STM - (75) (STORM)/	0.00	STM - (76) (STORM)/	0.00	ID*374/	0.00	STM - (77) (STORM)/			
0.00									
ID*376/	0.00	STM - (78) (STORM)/	0.00	ID*378/	0.00	STM - (79) (STORM)/			
0.00									
STM - (80) (STORM)/	0.00	ID*381/	0.00	STM - (81) (STORM)/	0.00	STM - (82) (STORM)/			
0.00									
ID*384/	0.00	STM - (83) (STORM)/	0.00	STM - (84) (STORM)/	0.00	ID*387/			
0.00									
ID*388/	0.00	ID*390/	0.00	STM - (86) (STORM)/	0.00	STM - (87) (STORM)/			
0.00									
STM - (88) (STORM)/	0.00	STM - (89) (STORM)/	0.00	STM - (95) (STORM)/	0.00	STM - (96) (STORM)/			
0.00									
ID*397/	0.00	ID*398/	0.00	STM - (119) (STORM)/	0.00	STM - (120) (STORM)/			
0.00									
ID*401/	0.00	STM - (121) (STORM)/	0.00	STM - (130) (STORM)/	0.00	ID*409/			
0.00									
STM - (142) (STORM)/	0.00	STM - (143) (STORM)/	0.00	ID*412/	0.00	ID*413/			
0.00									
ID*414/	0.00	ID*415/	0.00	STM - (151) (STORM)/	0.00	STM - (152) (STORM)/			
0.00									
ID*418/	0.00	STM - (155) (STORM)/	0.00	STM - (158) (STORM)/	0.00	ID*421/			
0.00									
STM - (160) (STORM)/	0.00	ID*423/	0.00	STM - (161) (STORM)/	0.00	ID*425/			
0.00									
STM - (170) (STORM)/	0.01	ID*427/	0.00	Link116/	0.00	Link117/			
0.00									
Link118/	0.00	Link119/	0.00	Link122/	0.00	spill/			
0.00									
Roof Control/	0.00	Roof Control2/	0.00	Orifice 1/	0.01	FREE# 1/			
0.01									

Cycle 13000 Time 18 Hrs - 3.33 Min

Junction /	Depth /	Elevation	====>	"*" Junction is	Surcharged.				
STM MH 188/	0.00 /	244.62	STM MH 187/	0.00 /	246.68	STM MH 203/	0.00 /	245.93	
STM MH 236/	0.00 /	245.32	STM MH 21/	0.00 /	238.12	STM MH 23/	0.00 /	237.26	
STM MH 154/	0.00 /	237.00	STM MH 22/	0.00 /	237.42	CB 6/	0.00 /	241.39	
STM MH 227/	0.00 /	240.77	STM MH 132/	0.00 /	241.18	STM MH 116/	0.00 /	240.98	
STM MH 221/	0.00 /	237.67	STM MH 35/	0.00 /	240.44	STM MH 36/	0.00 /	240.17	
STM MH 118/	0.00 /	240.28	STM MH 34/	0.00 /	240.90	STM MH 121/	0.00 /	240.80	
STM MH 120/	0.00 /	240.70	STM MH 117/	0.00 /	240.02	STM MH 119/	0.00 /	240.55	
STM MH 20/	0.00 /	238.34	STM MH 37/	0.00 /	239.87	STM MH 40/	0.04 /	239.52	
STM MH 86/	0.02 /	240.90	STM MH 115/	0.03 /	240.06	STM MH 87/	0.02 /	240.25	
STM MH 223/	0.00 /	240.91	STM MH 220/	0.00 /	237.90	STM MH 205/	0.00 /	239.98	
STM MH 128/	0.00 /	239.51	STM MH 127/	0.00 /	240.08	STM MH 122/	0.00 /	240.73	
STM MH 123/	0.00 /	240.64	STM MH 126/	0.00 /	240.22	STM MH 125/	0.00 /	240.38	
STM MH 124/	0.00 /	240.50	STM MH 129/	0.00 /	239.37	STM MH 133/	0.00 /	239.06	
STM MH 170/	0.00 /	236.80	STM MH 38/	0.00 /	239.79	STM MH 18/	0.00 /	238.89	
STM MH 218/	0.00 /	240.28	STM MH 131/	0.00 /	239.29	STM MH 219/	0.00 /	239.23	
STM MH 17/	0.00 /	239.15	STM MH 39/	0.00 /	239.61	STM MH 153/	0.00 /	236.68	
STM MH 204/	0.00 /	240.52	CULTEC 5/	0.00 /	236.47	STM MH 27/	0.00 /	235.58	
STM MH 228/	0.00 /	240.00	STM MH 26/	0.00 /	236.06	STM MH 169/	0.00 /	239.87	
STM MH 28/	0.00 /	235.10	STM MH 168/	0.00 /	240.23	STM MH 41/	0.05 /	239.35	
PROP CB 39/	0.00 /	240.76	STM CBMH 19/	0.00 /	238.72	STM CBMH 250/	0.00 /	238.51	
STM MH 134/	0.00 /	239.70	STM MH 135/	0.00 /	239.21	PROP DCB 62/	0.00 /	241.28	
STM MH 256/	0.03 /	239.13	STM MH 85/	0.01 /	238.41	CULTEC 1/	0.01 /	238.84	
STM MH 82/	0.00 /	239.73	CULTEC 2/	0.01 /	239.12	STM MH 83/	0.00 /	239.43	
CAP 23/	0.00 /	241.36	STM MH 142/	0.00 /	239.05	CAP 14/	0.00 /	241.36	
CAP 15/	0.00 /	241.36	CAP 16/	0.00 /	241.36	CAP 24/	0.00 /	241.36	
CAP 22/	0.00 /	241.36	CAP 21/	0.00 /	241.36	CAP 20/	0.00 /	241.36	
CAP 19/	0.00 /	241.36	CAP 18/	0.00 /	241.36	CAP 17/	0.00 /	241.36	
CAP 13/	0.00 /	241.36	CAP 12/	0.00 /	241.36	CAP 11/	0.00 /	241.36	
CAP 10/	0.00 /	241.36	CAP 9/	0.00 /	241.36	CAP 8/	0.00 /	241.36	
CAP 7/	0.00 /	241.36	CAP 6/	0.00 /	241.36	CAP 5/	0.00 /	241.36	
CAP 4/	0.00 /	241.36	CAP 3/	0.00 /	241.36	CAP 2/	0.02 /	241.38	
CAP 1/	0.02 /	241.38	STM MH 141/	0.00 /	239.93	STM MH 42/	0.03 /	238.08	
CULTEC 4/	0.00 /	234.84	STM MH 43/	0.03 /	235.53	STM MH 238/	0.00 /	237.93	

STM MH 237/	0.00 /	238.20	STM MH 31/	0.03 /	232.52	STM MH 239/	0.00 /	234.15
STM MH 30/	0.03 /	233.26	STM MH 255/	0.02 /	232.20	Roof 1/	0.00 /	252.00
Roof 2/	0.00 /	252.00	Node117/	0.67 /	233.17	CB 4/	0.00 /	240.46
CB 3/	0.00 /	240.96	CB 2/	0.00 /	241.16	CB1/	0.00 /	241.17

	Conduit/	FLOW	====>	"**	Conduit uses the	normal	flow	option.
0.00	STM - (14) (STORM)/	0.00	STM - (15) (STORM)/	0.00	STM - (16) (STORM)/	0.00	STM - (17) (STORM)/	
0.00	STM - (18) (STORM)/	0.00	STM - (19) (STORM)/	0.00	STM - (20) (STORM)/	0.00	STM - (21) (STORM)/	
0.00	STM - (22) (STORM)/	0.00	STM - (24) (STORM)/	0.00	STM - (25) (STORM)/	0.00	STM - (26) (STORM)/	
0.00	STM - (27) (STORM)/	0.00	STM - (28) (STORM)/	0.00	STM - (29) (STORM)/	0.00	STM - (30) (STORM)/	
0.00	STM - (32) (STORM)/	0.00	STM - (33) (STORM)/	0.00	STM - (34) (STORM)/	0.00	STM - (35) (STORM)/	
0.00	STM - (36) (STORM)/	0.00	STM - (37) (STORM)/	0.00	STM - (38) (STORM)/	0.00	STM - (39) (STORM)/	
0.00	STM - (40) (STORM)/	0.00	STM - (41) (STORM)/	0.00	STM - (53) (STORM)/	0.00	STM - (54) (STORM)/	
0.00	STM - (55) (STORM)/	0.00	STM - (56) (STORM)/	0.00	STM - (57) (STORM)/	0.00	STM - (58) (STORM)/	
0.00	STM - (59) (STORM)/	0.00	ID*352/	0.00	STM - (61) (STORM)/	0.00	STM - (62) (STORM)/	
0.00	STM - (63) (STORM)/	0.00	STM - (65) (STORM)/	0.00	STM - (66) (STORM)/	0.00	ID*359/	
0.00	STM - (67) (STORM)/	0.00	STM - (68) (STORM)/	0.00	ID*362/	0.00	STM - (69) (STORM)/	
0.00	STM - (70) (STORM)/	0.00	ID*365/	0.00	STM - (71) (STORM)/	0.00	STM - (72) (STORM)/	
0.00	ID*368/	0.00	STM - (73) (STORM)/	0.00	ID*370/	0.00	STM - (74) (STORM)/	
0.00	STM - (75) (STORM)/	0.00	STM - (76) (STORM)/	0.00	ID*374/	0.00	STM - (77) (STORM)/	
0.00	ID*376/	0.00	STM - (78) (STORM)/	0.00	ID*378/	0.00	STM - (79) (STORM)/	
0.00	STM - (80) (STORM)/	0.00	ID*381/	0.00	STM - (81) (STORM)/	0.00	STM - (82) (STORM)/	
0.00	ID*384/	0.00	STM - (83) (STORM)/	0.00	STM - (84) (STORM)/	0.00	ID*387/	
0.00	ID*388/	0.00	ID*390/	0.00	STM - (86) (STORM)/	0.00	STM - (87) (STORM)/	
0.00	STM - (88) (STORM)/	0.00	STM - (89) (STORM)/	0.00	STM - (95) (STORM)/	0.00	STM - (96) (STORM)/	
0.00	ID*397/	0.00	ID*398/	0.00	STM - (119) (STORM)/	0.00	STM - (120) (STORM)/	
0.00	ID*401/	0.00	STM - (121) (STORM)/	0.00	STM - (130) (STORM)/	0.00	ID*409/	
0.00	STM - (142) (STORM)/	0.00	STM - (143) (STORM)/	0.00	ID*412/	0.00	ID*413/	
0.00	ID*414/	0.00	ID*415/	0.00	STM - (151) (STORM)/	0.00	STM - (152) (STORM)/	
0.00	ID*418/	0.00	STM - (155) (STORM)/	0.00	STM - (158) (STORM)/	0.00	ID*421/	
0.00	STM - (160) (STORM)/	0.00	ID*423/	0.00	STM - (161) (STORM)/	0.00	ID*425/	
0.00	STM - (170) (STORM)/	0.00	ID*427/	0.00	Link116/	0.00	Link117/	
0.00	Link118/	0.00	Link119/	0.00	Link122/	0.00	spill/	
0.00	Roof Control/	0.00	Roof Control2/	0.00	Orifice 1/	0.00	FREE# 1/	

Cycle 13500 Time 18 Hrs - 45.00 Min

	Junction / Depth / Elevation	====>	"**	Junction is	Surcharged.			
	STM MH 188/ 0.00 / 244.62		STM MH 187/ 0.00 / 246.68		STM MH 203/ 0.00 / 245.93			
	STM MH 236/ 0.00 / 245.32		STM MH 21/ 0.00 / 238.12		STM MH 23/ 0.00 / 237.26			
	STM MH 154/ 0.00 / 237.00		STM MH 22/ 0.00 / 237.42		CB 6/ 0.00 / 241.39			
	STM MH 227/ 0.00 / 240.77		STM MH 132/ 0.00 / 241.18		STM MH 116/ 0.00 / 240.98			
	STM MH 221/ 0.00 / 237.67		STM MH 35/ 0.00 / 240.44		STM MH 36/ 0.00 / 240.17			
	STM MH 118/ 0.00 / 240.28		STM MH 34/ 0.00 / 240.90		STM MH 121/ 0.00 / 240.80			
	STM MH 120/ 0.00 / 240.70		STM MH 117/ 0.00 / 240.02		STM MH 119/ 0.00 / 240.55			
	STM MH 20/ 0.00 / 238.34		STM MH 37/ 0.00 / 239.87		STM MH 40/ 0.04 / 239.52			
	STM MH 86/ 0.02 / 240.90		STM MH 115/ 0.03 / 240.06		STM MH 87/ 0.02 / 240.25			
	STM MH 223/ 0.00 / 240.91		STM MH 220/ 0.00 / 237.90		STM MH 205/ 0.00 / 239.98			
	STM MH 128/ 0.00 / 239.51		STM MH 127/ 0.00 / 240.08		STM MH 122/ 0.00 / 240.73			
	STM MH 123/ 0.00 / 240.64		STM MH 126/ 0.00 / 240.22		STM MH 125/ 0.00 / 240.38			
	STM MH 124/ 0.00 / 240.50		STM MH 129/ 0.00 / 239.37		STM MH 133/ 0.00 / 239.06			
	STM MH 170/ 0.00 / 236.80		STM MH 38/ 0.00 / 239.79		STM MH 18/ 0.00 / 238.89			
	STM MH 218/ 0.00 / 240.28		STM MH 131/ 0.00 / 239.29		STM MH 219/ 0.00 / 239.23			
	STM MH 17/ 0.00 / 239.15		STM MH 39/ 0.00 / 239.61		STM MH 153/ 0.00 / 236.68			
	STM MH 204/ 0.00 / 240.52		CULTEC 5/ 0.00 / 236.47		STM MH 27/ 0.00 / 235.58			
	STM MH 228/ 0.00 / 240.00		STM MH 26/ 0.00 / 236.06		STM MH 169/ 0.00 / 239.87			
	STM MH 28/ 0.00 / 235.10		STM MH 168/ 0.00 / 240.23		STM MH 41/ 0.04 / 239.34			
	PROP CB 39/ 0.00 / 240.76		STM CBMH 19/ 0.00 / 238.72		STM CBMH 250/ 0.00 / 238.51			
	STM MH 134/ 0.00 / 239.70		STM MH 135/ 0.00 / 239.21		PROP DCB 62/ 0.00 / 241.28			
	STM MH 256/ 0.03 / 239.13		STM MH 85/ 0.01 / 238.41		CULTEC 1/ 0.01 / 238.84			
	STM MH 82/ 0.00 / 239.73		CULTEC 2/ 0.01 / 239.12		STM MH 83/ 0.00 / 239.43			
	CAP 23/ 0.00 / 241.36		STM MH 142/ 0.00 / 239.05		CAP 14/ 0.00 / 241.36			
	CAP 15/ 0.00 / 241.36		CAP 16/ 0.00 / 241.36		CAP 24/ 0.00 / 241.36			
	CAP 22/ 0.00 / 241.36		CAP 21/ 0.00 / 241.36		CAP 20/ 0.00 / 241.36			
	CAP 19/ 0.00 / 241.36		CAP 18/ 0.00 / 241.36		CAP 17/ 0.00 / 241.36			
	CAP 13/ 0.00 / 241.36		CAP 12/ 0.00 / 241.36		CAP 11/ 0.00 / 241.36			
	CAP 10/ 0.00 / 241.36		CAP 9/ 0.00 / 241.36		CAP 8/ 0.00 / 241.36			

CAP 7/	0.00 /	241.36	CAP 6/	0.00 /	241.36	CAP 5/	0.00 /	241.36
CAP 4/	0.00 /	241.36	CAP 3/	0.00 /	241.36	CAP 2/	0.02 /	241.38
CAP 1/	0.02 /	241.38	STM MH 141/	0.00 /	239.93	STM MH 42/	0.03 /	238.08
CULTEC 4/	0.00 /	234.84	STM MH 43/	0.03 /	235.53	STM MH 238/	0.00 /	237.93
STM MH 237/	0.00 /	238.20	STM MH 31/	0.02 /	232.52	STM MH 239/	0.00 /	234.15
STM MH 30/	0.03 /	233.26	STM MH 255/	0.01 /	232.19	Roof 1/	0.00 /	252.00
Roof 2/	0.00 /	252.00	Node117/	0.67 /	233.17	CB 4/	0.00 /	240.46
CB 3/	0.00 /	240.96	CB 2/	0.00 /	241.16	CB1/	0.00 /	241.17

Conduit/ FLOW ==> "*" Conduit uses the normal flow option.							
0.00	STM - (14) (STORM)/	0.00	STM - (15) (STORM)/	0.00	STM - (16) (STORM)/	0.00	STM - (17) (STORM)/
0.00	STM - (18) (STORM)/	0.00	STM - (19) (STORM)/	0.00	STM - (20) (STORM)/	0.00	STM - (21) (STORM)/
0.00	STM - (22) (STORM)/	0.00	STM - (24) (STORM)/	0.00	STM - (25) (STORM)/	0.00	STM - (26) (STORM)/
0.00	STM - (27) (STORM)/	0.00	STM - (28) (STORM)/	0.00	STM - (29) (STORM)/	0.00	STM - (30) (STORM)/
0.00	STM - (32) (STORM)/	0.00	STM - (33) (STORM)/	0.00	STM - (34) (STORM)/	0.00	STM - (35) (STORM)/
0.00	STM - (36) (STORM)/	0.00	STM - (37) (STORM)/	0.00	STM - (38) (STORM)/	0.00	STM - (39) (STORM)/
0.00	STM - (40) (STORM)/	0.00	STM - (41) (STORM)/	0.00	STM - (53) (STORM)/	0.00	STM - (54) (STORM)/
0.00	STM - (55) (STORM)/	0.00	STM - (56) (STORM)/	0.00	STM - (57) (STORM)/	0.00	STM - (58) (STORM)/
0.00	STM - (59) (STORM)/	0.00	ID*352/	0.00	STM - (61) (STORM)/	0.00	STM - (62) (STORM)/
0.00	STM - (63) (STORM)/	0.00	STM - (65) (STORM)/	0.00	STM - (66) (STORM)/	0.00	ID*359/
0.00	STM - (67) (STORM)/	0.00	STM - (68) (STORM)/	0.00	ID*362/	0.00	STM - (69) (STORM)/
0.00	STM - (70) (STORM)/	0.00	ID*365/	0.00	STM - (71) (STORM)/	0.00	STM - (72) (STORM)/
0.00	ID*368/	0.00	STM - (73) (STORM)/	0.00	ID*370/	0.00	STM - (74) (STORM)/
0.00	STM - (75) (STORM)/	0.00	STM - (76) (STORM)/	0.00	ID*374/	0.00	STM - (77) (STORM)/
0.00	ID*376/	0.00	STM - (78) (STORM)/	0.00	ID*378/	0.00	STM - (79) (STORM)/
0.00	STM - (80) (STORM)/	0.00	ID*381/	0.00	STM - (81) (STORM)/	0.00	STM - (82) (STORM)/
0.00	ID*384/	0.00	STM - (83) (STORM)/	0.00	STM - (84) (STORM)/	0.00	ID*387/
0.00	ID*388/	0.00	ID*390/	0.00	STM - (86) (STORM)/	0.00	STM - (87) (STORM)/
0.00	STM - (88) (STORM)/	0.00	STM - (89) (STORM)/	0.00	STM - (95) (STORM)/	0.00	STM - (96) (STORM)/
0.00	ID*397/	0.00	ID*398/	0.00	STM - (119) (STORM)/	0.00	STM - (120) (STORM)/
0.00	ID*401/	0.00	STM - (121) (STORM)/	0.00	STM - (130) (STORM)/	0.00	ID*409/
0.00	STM - (142) (STORM)/	0.00	STM - (143) (STORM)/	0.00	ID*412/	0.00	ID*413/
0.00	ID*414/	0.00	ID*415/	0.00	STM - (151) (STORM)/	0.00	STM - (152) (STORM)/
0.00	ID*418/	0.00	STM - (155) (STORM)/	0.00	STM - (158) (STORM)/	0.00	ID*421/
0.00	STM - (160) (STORM)/	0.00	ID*423/	0.00	STM - (161) (STORM)/	0.00	ID*425/
0.00	STM - (170) (STORM)/	0.00	ID*427/	0.00	Link116/	0.00	Link117/
0.00	Link118/	0.00	Link119/	0.00	Link122/	0.00	spill/
0.00	Roof Control1/	0.00	Roof Control2/	0.00	Orifice 1/	0.00	FREE# 1/

Cycle 14000 Time 19 Hrs - 26.67 Min

Junction / Depth / Elevation ==> "*" Junction is Surcharged.								
STM MH 188/	0.00 /	244.62	STM MH 187/	0.00 /	246.68	STM MH 203/	0.00 /	245.93
STM MH 236/	0.00 /	245.32	STM MH 21/	0.00 /	238.12	STM MH 23/	0.00 /	237.26
STM MH 154/	0.00 /	237.00	STM MH 22/	0.00 /	237.42	CB 6/	0.00 /	241.39
STM MH 227/	0.00 /	240.77	STM MH 132/	0.00 /	241.18	STM MH 116/	0.00 /	240.98
STM MH 221/	0.00 /	237.67	STM MH 35/	0.00 /	240.44	STM MH 36/	0.00 /	240.17
STM MH 118/	0.00 /	240.28	STM MH 34/	0.00 /	240.90	STM MH 121/	0.00 /	240.80
STM MH 120/	0.00 /	240.70	STM MH 117/	0.00 /	240.02	STM MH 119/	0.00 /	240.55
STM MH 20/	0.00 /	238.34	STM MH 37/	0.00 /	239.87	STM MH 40/	0.03 /	239.51
STM MH 86/	0.02 /	240.90	STM MH 115/	0.03 /	240.06	STM MH 87/	0.02 /	240.25
STM MH 223/	0.00 /	240.91	STM MH 220/	0.00 /	237.90	STM MH 205/	0.00 /	239.98
STM MH 128/	0.00 /	239.51	STM MH 127/	0.00 /	240.08	STM MH 122/	0.00 /	240.73
STM MH 123/	0.00 /	240.64	STM MH 126/	0.00 /	240.22	STM MH 125/	0.00 /	240.38
STM MH 124/	0.00 /	240.50	STM MH 129/	0.00 /	239.37	STM MH 133/	0.00 /	239.06
STM MH 170/	0.00 /	236.80	STM MH 38/	0.00 /	239.79	STM MH 18/	0.00 /	238.89
STM MH 218/	0.00 /	240.28	STM MH 131/	0.00 /	239.29	STM MH 219/	0.00 /	239.23
STM MH 17/	0.00 /	239.15	STM MH 39/	0.00 /	239.61	STM MH 153/	0.00 /	236.68
STM MH 204/	0.00 /	240.52	CULTEC 5/	0.00 /	236.47	STM MH 27/	0.00 /	235.58
STM MH 228/	0.00 /	240.00	STM MH 26/	0.00 /	236.06	STM MH 169/	0.00 /	239.87
STM MH 28/	0.00 /	235.10	STM MH 168/	0.00 /	240.23	STM MH 41/	0.04 /	239.34
PROP CB 39/	0.00 /	240.76	STM CBMH 19/	0.00 /	238.72	STM CBMH 250/	0.00 /	238.51
STM MH 134/	0.00 /	239.70	STM MH 135/	0.00 /	239.21	PROP DCB 62/	0.00 /	241.28
STM MH 256/	0.03 /	239.13	STM MH 85/	0.01 /	238.41	CULTEC 1/	0.01 /	238.84
STM MH 82/	0.00 /	239.73	CULTEC 2/	0.01 /	239.12	STM MH 83/	0.00 /	239.43
CAP 23/	0.00 /	241.36	STM MH 142/	0.00 /	239.05	CAP 14/	0.00 /	241.36
CAP 15/	0.00 /	241.36	CAP 16/	0.00 /	241.36	CAP 24/	0.00 /	241.36

CAP 22/	0.00 /	241.36	CAP 21/	0.00 /	241.36	CAP 20/	0.00 /	241.36
CAP 19/	0.00 /	241.36	CAP 18/	0.00 /	241.36	CAP 17/	0.00 /	241.36
CAP 13/	0.00 /	241.36	CAP 12/	0.00 /	241.36	CAP 11/	0.00 /	241.36
CAP 10/	0.00 /	241.36	CAP 9/	0.00 /	241.36	CAP 8/	0.00 /	241.36
CAP 7/	0.00 /	241.36	CAP 6/	0.00 /	241.36	CAP 5/	0.00 /	241.36
CAP 4/	0.00 /	241.36	CAP 3/	0.00 /	241.36	CAP 2/	0.02 /	241.38
CAP 1/	0.02 /	241.38	STM MH 141/	0.00 /	239.93	STM MH 42/	0.02 /	238.07
CULTEC 4/	0.00 /	234.84	STM MH 43/	0.02 /	235.52	STM MH 238/	0.00 /	237.93
STM MH 237/	0.00 /	238.20	STM MH 31/	0.02 /	232.52	STM MH 239/	0.00 /	234.15
STM MH 30/	0.02 /	233.26	STM MH 255/	0.01 /	232.19	Roof 1/	0.00 /	252.00
Roof 2/	0.00 /	252.00	Node117/	0.66 /	233.16	CB 4/	0.00 /	240.46
CB 3/	0.00 /	240.96	CB 2/	0.00 /	241.16	CB1/	0.00 /	241.17

Conduit/ FLOW ==> "*" Conduit uses the normal flow option.								
STM - (14) (STORM)/	0.00	STM - (15) (STORM)/	0.00	STM - (16) (STORM)/	0.00	STM - (17) (STORM)/	0.00	0.00
STM - (18) (STORM)/	0.00	STM - (19) (STORM)/	0.00	STM - (20) (STORM)/	0.00	STM - (21) (STORM)/	0.00	0.00
STM - (22) (STORM)/	0.00	STM - (24) (STORM)/	0.00	STM - (25) (STORM)/	0.00	STM - (26) (STORM)/	0.00	0.00
STM - (27) (STORM)/	0.00	STM - (28) (STORM)/	0.00	STM - (29) (STORM)/	0.00	STM - (30) (STORM)/	0.00	0.00
STM - (32) (STORM)/	0.00	STM - (33) (STORM)/	0.00	STM - (34) (STORM)/	0.00	STM - (35) (STORM)/	0.00	0.00
STM - (36) (STORM)/	0.00	STM - (37) (STORM)/	0.00	STM - (38) (STORM)/	0.00	STM - (39) (STORM)/	0.00	0.00
STM - (40) (STORM)/	0.00	STM - (41) (STORM)/	0.00	STM - (53) (STORM)/	0.00	STM - (54) (STORM)/	0.00	0.00
STM - (55) (STORM)/	0.00	STM - (56) (STORM)/	0.00	STM - (57) (STORM)/	0.00	STM - (58) (STORM)/	0.00	0.00
STM - (59) (STORM)/	0.00	ID*352/	0.00	STM - (61) (STORM)/	0.00	STM - (62) (STORM)/	0.00	0.00
STM - (63) (STORM)/	0.00	STM - (65) (STORM)/	0.00	STM - (66) (STORM)/	0.00	ID*359/	0.00	0.00
STM - (67) (STORM)/	0.00	STM - (68) (STORM)/	0.00	ID*362/	0.00	STM - (69) (STORM)/	0.00	0.00
STM - (70) (STORM)/	0.00	ID*365/	0.00	STM - (71) (STORM)/	0.00	STM - (72) (STORM)/	0.00	0.00
ID*368/	0.00	STM - (73) (STORM)/	0.00	ID*370/	0.00	STM - (74) (STORM)/	0.00	0.00
STM - (75) (STORM)/	0.00	STM - (76) (STORM)/	0.00	ID*374/	0.00	STM - (77) (STORM)/	0.00	0.00
ID*376/	0.00	STM - (78) (STORM)/	0.00	ID*378/	0.00	STM - (79) (STORM)/	0.00	0.00
STM - (80) (STORM)/	0.00	ID*381/	0.00	STM - (81) (STORM)/	0.00	STM - (82) (STORM)/	0.00	0.00
ID*384/	0.00	STM - (83) (STORM)/	0.00	STM - (84) (STORM)/	0.00	ID*387/	0.00	0.00
ID*388/	0.00	ID*390/	0.00	STM - (86) (STORM)/	0.00	STM - (87) (STORM)/	0.00	0.00
STM - (88) (STORM)/	0.00	STM - (89) (STORM)/	0.00	STM - (95) (STORM)/	0.00	STM - (96) (STORM)/	0.00	0.00
ID*397/	0.00	ID*398/	0.00	STM - (119) (STORM)/	0.00	STM - (120) (STORM)/	0.00	0.00
ID*401/	0.00	STM - (121) (STORM)/	0.00	STM - (130) (STORM)/	0.00	ID*409/	0.00	0.00
STM - (142) (STORM)/	0.00	STM - (143) (STORM)/	0.00	ID*412/	0.00	ID*413/	0.00	0.00
ID*414/	0.00	ID*415/	0.00	STM - (151) (STORM)/	0.00	STM - (152) (STORM)/	0.00	0.00
ID*418/	0.00	STM - (155) (STORM)/	0.00	STM - (158) (STORM)/	0.00	ID*421/	0.00	0.00
STM - (160) (STORM)/	0.00	ID*423/	0.00	STM - (161) (STORM)/	0.00	ID*425/	0.00	0.00
STM - (170) (STORM)/	0.00	ID*427/	0.00	Link116/	0.00	Link117/	0.00	0.00
Link118/	0.00	Link119/	0.00	Link122/	0.00	spill/	0.00	0.00
Roof Control1/	0.00	Roof Control2/	0.00	Orifice 1/	0.00	FREE# 1/	0.00	0.00

Cycle 14500 Time 20 Hrs - 8.33 Min

Junction / Depth / Elevation ==> "*" Junction is Surcharged.								
STM MH 188/	0.00 /	244.62	STM MH 187/	0.00 /	246.68	STM MH 203/	0.00 /	245.93
STM MH 236/	0.00 /	245.32	STM MH 21/	0.00 /	238.12	STM MH 23/	0.00 /	237.26
STM MH 154/	0.00 /	237.00	STM MH 22/	0.00 /	237.42	CB 6/	0.00 /	241.39
STM MH 227/	0.00 /	240.77	STM MH 132/	0.00 /	241.18	STM MH 116/	0.00 /	240.98
STM MH 221/	0.00 /	237.67	STM MH 35/	0.00 /	240.44	STM MH 36/	0.00 /	240.17
STM MH 118/	0.00 /	240.28	STM MH 34/	0.00 /	240.90	STM MH 121/	0.00 /	240.80
STM MH 120/	0.00 /	240.70	STM MH 117/	0.00 /	240.02	STM MH 119/	0.00 /	240.55
STM MH 20/	0.00 /	238.34	STM MH 37/	0.00 /	239.87	STM MH 40/	0.03 /	239.51
STM MH 86/	0.02 /	240.90	STM MH 115/	0.02 /	240.05	STM MH 87/	0.02 /	240.25
STM MH 223/	0.00 /	240.91	STM MH 220/	0.00 /	237.90	STM MH 205/	0.00 /	239.98
STM MH 128/	0.00 /	239.51	STM MH 127/	0.00 /	240.08	STM MH 122/	0.00 /	240.73
STM MH 123/	0.00 /	240.64	STM MH 126/	0.00 /	240.22	STM MH 125/	0.00 /	240.38
STM MH 124/	0.00 /	240.50	STM MH 129/	0.00 /	239.37	STM MH 133/	0.00 /	239.06
STM MH 170/	0.00 /	236.80	STM MH 38/	0.00 /	239.79	STM MH 18/	0.00 /	238.89
STM MH 218/	0.00 /	240.28	STM MH 131/	0.00 /	239.29	STM MH 219/	0.00 /	239.23
STM MH 17/	0.00 /	239.15	STM MH 39/	0.00 /	239.61	STM MH 153/	0.00 /	236.68
STM MH 204/	0.00 /	240.52	CULTEC 5/	0.00 /	236.47	STM MH 27/	0.00 /	235.58
STM MH 228/	0.00 /	240.00	STM MH 26/	0.00 /	236.06	STM MH 169/	0.00 /	239.87
STM MH 28/	0.00 /	235.10	STM MH 168/	0.00 /	240.23	STM MH 41/	0.03 /	239.33
PROP CB 39/	0.00 /	240.76	STM CBMH 19/	0.00 /	238.72	STM CBMH 250/	0.00 /	238.51
STM MH 134/	0.00 /	239.70	STM MH 135/	0.00 /	239.21	PROP DCB 62/	0.00 /	241.28

STM MH 256/	0.02 /	239.12	STM MH 85/	0.01 /	238.41	CULTEC 1/	0.01 /	238.84
STM MH 82/	0.00 /	239.73	CULTEC 2/	0.01 /	239.12	STM MH 83/	0.00 /	239.43
CAP 23/	0.00 /	241.36	STM MH 142/	0.00 /	239.05	CAP 14/	0.00 /	241.36
CAP 15/	0.00 /	241.36	CAP 16/	0.00 /	241.36	CAP 24/	0.00 /	241.36
CAP 22/	0.00 /	241.36	CAP 21/	0.00 /	241.36	CAP 20/	0.00 /	241.36
CAP 19/	0.00 /	241.36	CAP 18/	0.00 /	241.36	CAP 17/	0.00 /	241.36
CAP 13/	0.00 /	241.36	CAP 12/	0.00 /	241.36	CAP 11/	0.00 /	241.36
CAP 10/	0.00 /	241.36	CAP 9/	0.00 /	241.36	CAP 8/	0.00 /	241.36
CAP 7/	0.00 /	241.36	CAP 6/	0.00 /	241.36	CAP 5/	0.00 /	241.36
CAP 4/	0.00 /	241.36	CAP 3/	0.00 /	241.36	CAP 2/	0.01 /	241.37
CAP 1/	0.01 /	241.37	STM MH 141/	0.00 /	239.93	STM MH 42/	0.02 /	238.07
CULTEC 4/	0.00 /	234.84	STM MH 43/	0.02 /	235.52	STM MH 238/	0.00 /	237.93
STM MH 237/	0.00 /	238.20	STM MH 31/	0.02 /	232.52	STM MH 239/	0.00 /	234.15
STM MH 30/	0.02 /	233.25	STM MH 255/	0.01 /	232.19	Roof 1/	0.00 /	252.00
Roof 2/	0.00 /	252.00	Node117/	0.66 /	233.16	CB 4/	0.00 /	240.46
CB 3/	0.00 /	240.96	CB 2/	0.00 /	241.16	CB1/	0.00 /	241.17

Conduit/	FLOW	====>	"*" Conduit uses the	normal	flow option.
STM - (14) (STORM) /	0.00	STM - (15) (STORM) /	0.00	STM - (16) (STORM) /	0.00
STM - (18) (STORM) /	0.00	STM - (19) (STORM) /	0.00	STM - (20) (STORM) /	0.00
STM - (22) (STORM) /	0.00	STM - (24) (STORM) /	0.00	STM - (25) (STORM) /	0.00
STM - (27) (STORM) /	0.00	STM - (28) (STORM) /	0.00	STM - (29) (STORM) /	0.00
STM - (32) (STORM) /	0.00	STM - (33) (STORM) /	0.00	STM - (34) (STORM) /	0.00
STM - (36) (STORM) /	0.00	STM - (37) (STORM) /	0.00	STM - (38) (STORM) /	0.00
STM - (40) (STORM) /	0.00	STM - (41) (STORM) /	0.00	STM - (53) (STORM) /	0.00
STM - (55) (STORM) /	0.00	STM - (56) (STORM) /	0.00	STM - (57) (STORM) /	0.00
STM - (59) (STORM) /	0.00	ID*352/	0.00	STM - (61) (STORM) /	0.00
STM - (63) (STORM) /	0.00	STM - (65) (STORM) /	0.00	STM - (66) (STORM) /	0.00
STM - (67) (STORM) /	0.00	STM - (68) (STORM) /	0.00	ID*362/	0.00
STM - (70) (STORM) /	0.00	ID*365/	0.00	STM - (71) (STORM) /	0.00
ID*368/	0.00	STM - (73) (STORM) /	0.00	ID*370/	0.00
STM - (75) (STORM) /	0.00	STM - (76) (STORM) /	0.00	ID*374/	0.00
ID*376/	0.00	STM - (78) (STORM) /	0.00	ID*378/	0.00
STM - (80) (STORM) /	0.00	ID*381/	0.00	STM - (81) (STORM) /	0.00
ID*384/	0.00	STM - (83) (STORM) /	0.00	STM - (84) (STORM) /	0.00
ID*388/	0.00	ID*390/	0.00	STM - (86) (STORM) /	0.00
STM - (88) (STORM) /	0.00	STM - (89) (STORM) /	0.00	STM - (95) (STORM) /	0.00
ID*397/	0.00	ID*398/	0.00	STM - (119) (STORM) /	0.00
ID*401/	0.00	STM - (121) (STORM) /	0.00	STM - (130) (STORM) /	0.00
STM - (142) (STORM) /	0.00	STM - (143) (STORM) /	0.00	ID*412/	0.00
ID*414/	0.00	ID*415/	0.00	STM - (151) (STORM) /	0.00
ID*418/	0.00	STM - (155) (STORM) /	0.00	STM - (158) (STORM) /	0.00
STM - (160) (STORM) /	0.00	ID*423/	0.00	STM - (161) (STORM) /	0.00
STM - (170) (STORM) /	0.00	ID*427/	0.00	Link116/	0.00
Link118/	0.00	Link119/	0.00	Link122/	0.00
Roof Control1/	0.00	Roof Control2/	0.00	Orifice 1/	0.00
Cycle	15000	Time	20 Hrs - 50.00 Min		

Junction /	Depth /	Elevation	====>	"*" Junction is	Surcharged.
STM MH 188/	0.00 /	244.62	STM MH 187/	0.00 /	246.68
STM MH 236/	0.00 /	245.32	STM MH 21/	0.00 /	238.12
STM MH 154/	0.00 /	237.00	STM MH 22/	0.00 /	237.42
STM MH 227/	0.00 /	240.77	STM MH 132/	0.00 /	241.18
STM MH 221/	0.00 /	237.67	STM MH 35/	0.00 /	240.44
STM MH 118/	0.00 /	240.28	STM MH 34/	0.00 /	240.90
STM MH 120/	0.00 /	240.70	STM MH 117/	0.00 /	240.02
STM MH 20/	0.00 /	238.34	STM MH 37/	0.00 /	239.87
STM MH 86/	0.02 /	240.90	STM MH 115/	0.02 /	240.05
STM MH 223/	0.00 /	240.91	STM MH 220/	0.00 /	237.90
STM MH 128/	0.00 /	239.51	STM MH 127/	0.00 /	240.08
STM MH 123/	0.00 /	240.64	STM MH 126/	0.00 /	240.22
STM MH 124/	0.00 /	240.50	STM MH 129/	0.00 /	239.37
STM MH 170/	0.00 /	236.80	STM MH 38/	0.00 /	239.79
STM MH 218/	0.00 /	240.28	STM MH 131/	0.00 /	239.29
STM MH 17/	0.00 /	239.15	STM MH 39/	0.00 /	239.61
STM MH 204/	0.00 /	240.52	CULTEC 5/	0.00 /	236.47
STM MH 203/	0.00 /	245.93	STM MH 23/	0.00 /	237.26
CB 6/	0.00 /	241.39	STM MH 116/	0.00 /	240.98
STM MH 36/	0.00 /	240.17	STM MH 121/	0.00 /	240.80
STM MH 119/	0.00 /	240.55	STM MH 40/	0.03 /	239.51
STM MH 87/	0.02 /	240.25	STM MH 205/	0.00 /	239.98
STM MH 122/	0.00 /	240.73	STM MH 125/	0.00 /	240.38
STM MH 133/	0.00 /	239.06	STM MH 13/	0.00 /	239.06
STM MH 18/	0.00 /	238.89	STM MH 219/	0.00 /	239.23
STM MH 153/	0.00 /	236.68	STM MH 27/	0.00 /	235.58

STM MH 228/	0.00 /	240.00	STM MH 26/	0.00 /	236.06	STM MH 169/	0.00 /	239.87
STM MH 28/	0.00 /	235.10	STM MH 168/	0.00 /	240.23	STM MH 41/	0.03 /	239.33
PROP CB 39/	0.00 /	240.76	STM CBMH 19/	0.00 /	238.72	STM CBMH 250/	0.00 /	238.51
STM MH 134/	0.00 /	239.70	STM MH 135/	0.00 /	239.21	PROP DCB 62/	0.00 /	241.28
STM MH 256/	0.02 /	239.12	STM MH 85/	0.01 /	238.41	CULTEC 1/	0.01 /	238.84
STM MH 82/	0.00 /	239.73	CULTEC 2/	0.01 /	239.12	STM MH 83/	0.00 /	239.43
CAP 23/	0.00 /	241.36	STM MH 142/	0.00 /	239.05	CAP 14/	0.00 /	241.36
CAP 15/	0.00 /	241.36	CAP 16/	0.00 /	241.36	CAP 24/	0.00 /	241.36
CAP 22/	0.00 /	241.36	CAP 21/	0.00 /	241.36	CAP 20/	0.00 /	241.36
CAP 19/	0.00 /	241.36	CAP 18/	0.00 /	241.36	CAP 17/	0.00 /	241.36
CAP 13/	0.00 /	241.36	CAP 12/	0.00 /	241.36	CAP 11/	0.00 /	241.36
CAP 10/	0.00 /	241.36	CAP 9/	0.00 /	241.36	CAP 8/	0.00 /	241.36
CAP 7/	0.00 /	241.36	CAP 6/	0.00 /	241.36	CAP 5/	0.00 /	241.36
CAP 4/	0.00 /	241.36	CAP 3/	0.00 /	241.36	CAP 2/	0.01 /	241.37
CAP 1/	0.01 /	241.37	STM MH 141/	0.00 /	239.93	STM MH 42/	0.02 /	238.07
CULTEC 4/	0.00 /	234.84	STM MH 43/	0.02 /	235.52	STM MH 238/	0.00 /	237.93
STM MH 237/	0.00 /	238.20	STM MH 31/	0.02 /	232.51	STM MH 239/	0.00 /	234.15
STM MH 30/	0.02 /	233.25	STM MH 255/	0.01 /	232.19	Roof 1/	0.00 /	252.00
Roof 2/	0.00 /	252.00	Node117/	0.65 /	233.15	CB 4/	0.00 /	240.46
CB 3/	0.00 /	240.96	CB 2/	0.00 /	241.16	CB1/	0.00 /	241.17

Conduit/								
STM - (14) (STORM)/	0.00	====> "*" Conduit uses the normal flow option.	STM - (15) (STORM)/	0.00	STM - (16) (STORM)/	0.00	STM - (17) (STORM)/	0.00
STM - (18) (STORM)/	0.00	STM - (19) (STORM)/	0.00	STM - (20) (STORM)/	0.00	STM - (21) (STORM)/	0.00	STM - (22) (STORM)/
STM - (22) (STORM)/	0.00	STM - (24) (STORM)/	0.00	STM - (25) (STORM)/	0.00	STM - (26) (STORM)/	0.00	STM - (27) (STORM)/
STM - (27) (STORM)/	0.00	STM - (28) (STORM)/	0.00	STM - (29) (STORM)/	0.00	STM - (30) (STORM)/	0.00	STM - (32) (STORM)/
STM - (32) (STORM)/	0.00	STM - (33) (STORM)/	0.00	STM - (34) (STORM)/	0.00	STM - (35) (STORM)/	0.00	STM - (36) (STORM)/
STM - (36) (STORM)/	0.00	STM - (37) (STORM)/	0.00	STM - (38) (STORM)/	0.00	STM - (39) (STORM)/	0.00	STM - (40) (STORM)/
STM - (40) (STORM)/	0.00	STM - (41) (STORM)/	0.00	STM - (53) (STORM)/	0.00	STM - (54) (STORM)/	0.00	STM - (55) (STORM)/
STM - (55) (STORM)/	0.00	STM - (56) (STORM)/	0.00	STM - (57) (STORM)/	0.00	STM - (58) (STORM)/	0.00	STM - (59) (STORM)/
STM - (59) (STORM)/	0.00	ID*352/	0.00	STM - (61) (STORM)/	0.00	STM - (62) (STORM)/	0.00	STM - (63) (STORM)/
STM - (63) (STORM)/	0.00	STM - (65) (STORM)/	0.00	STM - (66) (STORM)/	0.00	ID*359/	0.00	STM - (67) (STORM)/
STM - (67) (STORM)/	0.00	STM - (68) (STORM)/	0.00	ID*362/	0.00	STM - (69) (STORM)/	0.00	STM - (70) (STORM)/
STM - (70) (STORM)/	0.00	ID*365/	0.00	STM - (71) (STORM)/	0.00	STM - (72) (STORM)/	0.00	ID*368/
ID*368/	0.00	STM - (73) (STORM)/	0.00	ID*370/	0.00	STM - (74) (STORM)/	0.00	STM - (75) (STORM)/
STM - (75) (STORM)/	0.00	STM - (76) (STORM)/	0.00	ID*374/	0.00	STM - (77) (STORM)/	0.00	ID*376/
ID*376/	0.00	STM - (78) (STORM)/	0.00	ID*378/	0.00	STM - (79) (STORM)/	0.00	STM - (80) (STORM)/
STM - (80) (STORM)/	0.00	ID*381/	0.00	STM - (81) (STORM)/	0.00	STM - (82) (STORM)/	0.00	ID*384/
ID*384/	0.00	STM - (83) (STORM)/	0.00	STM - (84) (STORM)/	0.00	ID*387/	0.00	ID*388/
ID*388/	0.00	ID*390/	0.00	STM - (86) (STORM)/	0.00	STM - (87) (STORM)/	0.00	STM - (88) (STORM)/
STM - (88) (STORM)/	0.00	STM - (89) (STORM)/	0.00	STM - (95) (STORM)/	0.00	STM - (96) (STORM)/	0.00	ID*397/
ID*397/	0.00	ID*398/	0.00	STM - (119) (STORM)/	0.00	STM - (120) (STORM)/	0.00	ID*401/
ID*401/	0.00	STM - (121) (STORM)/	0.00	STM - (130) (STORM)/	0.00	ID*409/	0.00	STM - (142) (STORM)/
STM - (142) (STORM)/	0.00	STM - (143) (STORM)/	0.00	ID*412/	0.00	ID*413/	0.00	ID*414/
ID*414/	0.00	ID*415/	0.00	STM - (151) (STORM)/	0.00	STM - (152) (STORM)/	0.00	ID*418/
ID*418/	0.00	STM - (155) (STORM)/	0.00	STM - (158) (STORM)/	0.00	ID*421/	0.00	STM - (160) (STORM)/
STM - (160) (STORM)/	0.00	ID*423/	0.00	STM - (161) (STORM)/	0.00	ID*425/	0.00	STM - (170) (STORM)/
STM - (170) (STORM)/	0.00	ID*427/	0.00	Link116/	0.00	Link117/	0.00	Link118/
Link118/	0.00	Link119/	0.00	Link122/	0.00	spill/	0.00	Roof Control1/
Roof Control1/	0.00	Roof Control2/	0.00	Orifice 1/	0.00	FREE# 1/	0.00	

Cycle 15500 Time 21 Hrs - 31.67 Min

Junction / Depth / Elevation									
STM MH 188/	0.00 /	244.62	====> "*" Junction is Surcharged.	STM MH 187/	0.00 /	246.68	STM MH 203/	0.00 /	245.93
STM MH 236/	0.00 /	245.32	STM MH 21/	0.00 /	238.12	STM MH 23/	0.00 /	237.26	STM MH 154/
STM MH 154/	0.00 /	237.00	STM MH 22/	0.00 /	237.42	CB 6/	0.00 /	241.39	STM MH 227/
STM MH 227/	0.00 /	240.77	STM MH 132/	0.00 /	241.18	STM MH 116/	0.00 /	240.98	STM MH 221/
STM MH 221/	0.00 /	237.67	STM MH 35/	0.00 /	240.44	STM MH 36/	0.00 /	240.17	STM MH 118/
STM MH 118/	0.00 /	240.28	STM MH 34/	0.00 /	240.90	STM MH 121/	0.00 /	240.80	STM MH 120/
STM MH 120/	0.00 /	240.70	STM MH 117/	0.00 /	240.02	STM MH 119/	0.00 /	240.55	STM MH 20/
STM MH 20/	0.00 /	238.34	STM MH 37/	0.00 /	239.87	STM MH 40/	0.02 /	239.50	STM MH 86/
STM MH 86/	0.01 /	240.89	STM MH 115/	0.02 /	240.05	STM MH 87/	0.02 /	240.25	STM MH 223/
STM MH 223/	0.00 /	240.91	STM MH 220/	0.00 /	237.90	STM MH 205/	0.00 /	239.98	STM MH 128/
STM MH 128/	0.00 /	239.51	STM MH 127/	0.00 /	240.08	STM MH 122/	0.00 /	240.73	STM MH 123/
STM MH 123/	0.00 /	240.64	STM MH 126/	0.00 /	240.22	STM MH 125/	0.00 /	240.38	STM MH 124/
STM MH 124/	0.00 /	240.50	STM MH 129/	0.00 /	239.37	STM MH 133/	0.00 /	239.06	

STM MH 170/	0.00 /	236.80	STM MH 38/	0.00 /	239.79	STM MH 18/	0.00 /	238.89
STM MH 218/	0.00 /	240.28	STM MH 131/	0.00 /	239.29	STM MH 219/	0.00 /	239.23
STM MH 17/	0.00 /	239.15	STM MH 39/	0.00 /	239.61	STM MH 153/	0.00 /	236.68
STM MH 204/	0.00 /	240.52	CULTEC 5/	0.00 /	236.47	STM MH 27/	0.00 /	235.58
STM MH 228/	0.00 /	240.00	STM MH 26/	0.00 /	236.06	STM MH 169/	0.00 /	239.87
STM MH 28/	0.00 /	235.10	STM MH 168/	0.00 /	240.23	STM MH 41/	0.03 /	239.33
PROP CB 39/	0.00 /	240.76	STM CBMH 19/	0.00 /	238.72	STM CBMH 250/	0.00 /	238.51
STM MH 134/	0.00 /	239.70	STM MH 135/	0.00 /	239.21	PROP DCB 62/	0.00 /	241.28
STM MH 256/	0.02 /	239.12	STM MH 85/	0.01 /	238.41	CULTEC 1/	0.01 /	238.84
STM MH 82/	0.00 /	239.73	CULTEC 2/	0.01 /	239.12	STM MH 83/	0.00 /	239.43
CAP 23/	0.00 /	241.36	STM MH 142/	0.00 /	239.05	CAP 14/	0.00 /	241.36
CAP 15/	0.00 /	241.36	CAP 16/	0.00 /	241.36	CAP 24/	0.00 /	241.36
CAP 22/	0.00 /	241.36	CAP 21/	0.00 /	241.36	CAP 20/	0.00 /	241.36
CAP 19/	0.00 /	241.36	CAP 18/	0.00 /	241.36	CAP 17/	0.00 /	241.36
CAP 13/	0.00 /	241.36	CAP 12/	0.00 /	241.36	CAP 11/	0.00 /	241.36
CAP 10/	0.00 /	241.36	CAP 9/	0.00 /	241.36	CAP 8/	0.00 /	241.36
CAP 7/	0.00 /	241.36	CAP 6/	0.00 /	241.36	CAP 5/	0.00 /	241.36
CAP 4/	0.00 /	241.36	CAP 3/	0.00 /	241.36	CAP 2/	0.01 /	241.37
CAP 1/	0.01 /	241.37	STM MH 141/	0.00 /	239.93	STM MH 42/	0.02 /	238.07
CULTEC 4/	0.00 /	234.84	STM MH 43/	0.02 /	235.52	STM MH 238/	0.00 /	237.93
STM MH 237/	0.00 /	238.20	STM MH 31/	0.01 /	232.51	STM MH 239/	0.00 /	234.15
STM MH 30/	0.02 /	233.25	STM MH 255/	0.01 /	232.19	Roof 1/	0.00 /	252.00
Roof 2/	0.00 /	252.00	Node117/	0.65 /	233.15	CB 4/	0.00 /	240.46
CB 3/	0.00 /	240.96	CB 2/	0.00 /	241.16	CB1/	0.00 /	241.17

Conduit/ FLOW ==> "*" Conduit uses the normal flow option.							
STM - (14) (STORM)/	0.00	STM - (15) (STORM)/	0.00	STM - (16) (STORM)/	0.00	STM - (17) (STORM)/	0.00
STM - (18) (STORM)/	0.00	STM - (19) (STORM)/	0.00	STM - (20) (STORM)/	0.00	STM - (21) (STORM)/	0.00
STM - (22) (STORM)/	0.00	STM - (24) (STORM)/	0.00	STM - (25) (STORM)/	0.00	STM - (26) (STORM)/	0.00
STM - (27) (STORM)/	0.00	STM - (28) (STORM)/	0.00	STM - (29) (STORM)/	0.00	STM - (30) (STORM)/	0.00
STM - (32) (STORM)/	0.00	STM - (33) (STORM)/	0.00	STM - (34) (STORM)/	0.00	STM - (35) (STORM)/	0.00
STM - (36) (STORM)/	0.00	STM - (37) (STORM)/	0.00	STM - (38) (STORM)/	0.00	STM - (39) (STORM)/	0.00
STM - (40) (STORM)/	0.00	STM - (41) (STORM)/	0.00	STM - (53) (STORM)/	0.00	STM - (54) (STORM)/	0.00
STM - (55) (STORM)/	0.00	STM - (56) (STORM)/	0.00	STM - (57) (STORM)/	0.00	STM - (58) (STORM)/	0.00
STM - (59) (STORM)/	0.00	ID*352/	0.00	STM - (61) (STORM)/	0.00	STM - (62) (STORM)/	0.00
STM - (63) (STORM)/	0.00	STM - (65) (STORM)/	0.00	STM - (66) (STORM)/	0.00	ID*359/	0.00
STM - (67) (STORM)/	0.00	STM - (68) (STORM)/	0.00	ID*362/	0.00	STM - (69) (STORM)/	0.00
STM - (70) (STORM)/	0.00	ID*365/	0.00	STM - (71) (STORM)/	0.00	STM - (72) (STORM)/	0.00
ID*368/	0.00	STM - (73) (STORM)/	0.00	ID*370/	0.00	STM - (74) (STORM)/	0.00
STM - (75) (STORM)/	0.00	STM - (76) (STORM)/	0.00	ID*374/	0.00	STM - (77) (STORM)/	0.00
ID*376/	0.00	STM - (78) (STORM)/	0.00	ID*378/	0.00	STM - (79) (STORM)/	0.00
STM - (80) (STORM)/	0.00	ID*381/	0.00	STM - (81) (STORM)/	0.00	STM - (82) (STORM)/	0.00
ID*384/	0.00	STM - (83) (STORM)/	0.00	STM - (84) (STORM)/	0.00	ID*387/	0.00
ID*388/	0.00	ID*390/	0.00	STM - (86) (STORM)/	0.00	STM - (87) (STORM)/	0.00
STM - (88) (STORM)/	0.00	STM - (89) (STORM)/	0.00	STM - (95) (STORM)/	0.00	STM - (96) (STORM)/	0.00
ID*397/	0.00	ID*398/	0.00	STM - (119) (STORM)/	0.00	STM - (120) (STORM)/	0.00
ID*401/	0.00	STM - (121) (STORM)/	0.00	STM - (130) (STORM)/	0.00	ID*409/	0.00
STM - (142) (STORM)/	0.00	STM - (143) (STORM)/	0.00	ID*412/	0.00	ID*413/	0.00
ID*414/	0.00	ID*415/	0.00	STM - (151) (STORM)/	0.00	STM - (152) (STORM)/	0.00
ID*418/	0.00	STM - (155) (STORM)/	0.00	STM - (158) (STORM)/	0.00	ID*421/	0.00
STM - (160) (STORM)/	0.00	ID*423/	0.00	STM - (161) (STORM)/	0.00	ID*425/	0.00
STM - (170) (STORM)/	0.00	ID*427/	0.00	Link116/	0.00	Link117/	0.00
Link118/	0.00	Link119/	0.00	Link122/	0.00	spill/	0.00
Roof Control/	0.00	Roof Control2/	0.00	Orifice 1/	0.00	FREE# 1/	0.00

Cycle 16000 Time 22 Hrs - 13.33 Min

Junction / Depth / Elevation ==> "*" Junction is Surcharged.								
STM MH 188/	0.00 /	244.62	STM MH 187/	0.00 /	246.68	STM MH 203/	0.00 /	245.93
STM MH 236/	0.00 /	245.32	STM MH 21/	0.00 /	238.12	STM MH 23/	0.00 /	237.26
STM MH 154/	0.00 /	237.00	STM MH 22/	0.00 /	237.42	CB 6/	0.00 /	241.39
STM MH 227/	0.00 /	240.77	STM MH 132/	0.00 /	241.18	STM MH 116/	0.00 /	240.98
STM MH 221/	0.00 /	237.67	STM MH 35/	0.00 /	240.44	STM MH 36/	0.00 /	240.17
STM MH 118/	0.00 /	240.28	STM MH 34/	0.00 /	240.90	STM MH 121/	0.00 /	240.80
STM MH 120/	0.00 /	240.70	STM MH 117/	0.00 /	240.02	STM MH 119/	0.00 /	240.55
STM MH 20/	0.00 /	238.34	STM MH 37/	0.00 /	239.87	STM MH 40/	0.02 /	239.50
STM MH 86/	0.01 /	240.89	STM MH 115/	0.02 /	240.05	STM MH 87/	0.01 /	240.24

STM MH 223/	0.00 /	240.91	STM MH 220/	0.00 /	237.90	STM MH 205/	0.00 /	239.98
STM MH 128/	0.00 /	239.51	STM MH 127/	0.00 /	240.08	STM MH 122/	0.00 /	240.73
STM MH 123/	0.00 /	240.64	STM MH 126/	0.00 /	240.22	STM MH 125/	0.00 /	240.38
STM MH 124/	0.00 /	240.50	STM MH 129/	0.00 /	239.37	STM MH 133/	0.00 /	239.06
STM MH 170/	0.00 /	236.80	STM MH 38/	0.00 /	239.79	STM MH 18/	0.00 /	238.89
STM MH 218/	0.00 /	240.28	STM MH 131/	0.00 /	239.29	STM MH 219/	0.00 /	239.23
STM MH 17/	0.00 /	239.15	STM MH 39/	0.00 /	239.61	STM MH 153/	0.00 /	236.68
STM MH 204/	0.00 /	240.52	CULTEC 5/	0.00 /	236.47	STM MH 27/	0.00 /	235.58
STM MH 228/	0.00 /	240.00	STM MH 26/	0.00 /	236.06	STM MH 169/	0.00 /	239.87
STM MH 28/	0.00 /	235.10	STM MH 168/	0.00 /	240.23	STM MH 41/	0.03 /	239.33
PROP CB 39/	0.00 /	240.76	STM CBMH 19/	0.00 /	238.72	STM CBMH 250/	0.00 /	238.51
STM MH 134/	0.00 /	239.70	STM MH 135/	0.00 /	239.21	PROP DCB 62/	0.00 /	241.28
STM MH 256/	0.02 /	239.12	STM MH 85/	0.01 /	238.41	CULTEC 1/	0.00 /	238.83
STM MH 82/	0.00 /	239.73	CULTEC 2/	0.01 /	239.12	STM MH 83/	0.00 /	239.43
CAP 23/	0.00 /	241.36	STM MH 142/	0.00 /	239.05	CAP 14/	0.00 /	241.36
CAP 15/	0.00 /	241.36	CAP 16/	0.00 /	241.36	CAP 24/	0.00 /	241.36
CAP 22/	0.00 /	241.36	CAP 21/	0.00 /	241.36	CAP 20/	0.00 /	241.36
CAP 19/	0.00 /	241.36	CAP 18/	0.00 /	241.36	CAP 17/	0.00 /	241.36
CAP 13/	0.00 /	241.36	CAP 12/	0.00 /	241.36	CAP 11/	0.00 /	241.36
CAP 10/	0.00 /	241.36	CAP 9/	0.00 /	241.36	CAP 8/	0.00 /	241.36
CAP 7/	0.00 /	241.36	CAP 6/	0.00 /	241.36	CAP 5/	0.00 /	241.36
CAP 4/	0.00 /	241.36	CAP 3/	0.00 /	241.36	CAP 2/	0.01 /	241.37
CAP 1/	0.01 /	241.37	STM MH 141/	0.00 /	239.93	STM MH 42/	0.01 /	238.06
CULTEC 4/	0.00 /	234.84	STM MH 43/	0.02 /	235.52	STM MH 238/	0.00 /	237.93
STM MH 237/	0.00 /	238.20	STM MH 31/	0.01 /	232.51	STM MH 239/	0.00 /	234.15
STM MH 30/	0.01 /	233.25	STM MH 255/	0.01 /	232.19	Roof 1/	0.00 /	252.00
Roof 2/	0.00 /	252.00	Node117/	0.65 /	233.14	CB 4/	0.00 /	240.46
CB 3/	0.00 /	240.96	CB 2/	0.00 /	241.16	CB1/	0.00 /	241.17

Conduit/	FLOW	====> "*" Conduit uses the normal flow option.					
STM - (14) (STORM)/	0.00	STM - (15) (STORM)/	0.00	STM - (16) (STORM)/	0.00	STM - (17) (STORM)/	0.00
STM - (18) (STORM)/	0.00	STM - (19) (STORM)/	0.00	STM - (20) (STORM)/	0.00	STM - (21) (STORM)/	0.00
STM - (22) (STORM)/	0.00	STM - (24) (STORM)/	0.00	STM - (25) (STORM)/	0.00	STM - (26) (STORM)/	0.00
STM - (27) (STORM)/	0.00	STM - (28) (STORM)/	0.00	STM - (29) (STORM)/	0.00	STM - (30) (STORM)/	0.00
STM - (32) (STORM)/	0.00	STM - (33) (STORM)/	0.00	STM - (34) (STORM)/	0.00	STM - (35) (STORM)/	0.00
STM - (36) (STORM)/	0.00	STM - (37) (STORM)/	0.00	STM - (38) (STORM)/	0.00	STM - (39) (STORM)/	0.00
STM - (40) (STORM)/	0.00	STM - (41) (STORM)/	0.00	STM - (53) (STORM)/	0.00	STM - (54) (STORM)/	0.00
STM - (55) (STORM)/	0.00	STM - (56) (STORM)/	0.00	STM - (57) (STORM)/	0.00	STM - (58) (STORM)/	0.00
STM - (59) (STORM)/	0.00	ID*352/	0.00	STM - (61) (STORM)/	0.00	STM - (62) (STORM)/	0.00
STM - (63) (STORM)/	0.00	STM - (65) (STORM)/	0.00	STM - (66) (STORM)/	0.00	ID*359/	0.00
STM - (67) (STORM)/	0.00	STM - (68) (STORM)/	0.00	ID*362/	0.00	STM - (69) (STORM)/	0.00
STM - (70) (STORM)/	0.00	ID*365/	0.00	STM - (71) (STORM)/	0.00	STM - (72) (STORM)/	0.00
ID*368/	0.00	STM - (73) (STORM)/	0.00	ID*370/	0.00	STM - (74) (STORM)/	0.00
STM - (75) (STORM)/	0.00	STM - (76) (STORM)/	0.00	ID*374/	0.00	STM - (77) (STORM)/	0.00
ID*376/	0.00	STM - (78) (STORM)/	0.00	ID*378/	0.00	STM - (79) (STORM)/	0.00
STM - (80) (STORM)/	0.00	ID*381/	0.00	STM - (81) (STORM)/	0.00	STM - (82) (STORM)/	0.00
ID*384/	0.00	STM - (83) (STORM)/	0.00	STM - (84) (STORM)/	0.00	ID*387/	0.00
ID*388/	0.00	ID*390/	0.00	STM - (86) (STORM)/	0.00	STM - (87) (STORM)/	0.00
STM - (88) (STORM)/	0.00	STM - (89) (STORM)/	0.00	STM - (95) (STORM)/	0.00	STM - (96) (STORM)/	0.00
ID*397/	0.00	ID*398/	0.00	STM - (119) (STORM)/	0.00	STM - (120) (STORM)/	0.00
ID*401/	0.00	STM - (121) (STORM)/	0.00	STM - (130) (STORM)/	0.00	ID*409/	0.00
STM - (142) (STORM)/	0.00	STM - (143) (STORM)/	0.00	ID*412/	0.00	ID*413/	0.00
ID*414/	0.00	ID*415/	0.00	STM - (151) (STORM)/	0.00	STM - (152) (STORM)/	0.00
ID*418/	0.00	STM - (155) (STORM)/	0.00	STM - (158) (STORM)/	0.00	ID*421/	0.00
STM - (160) (STORM)/	0.00	ID*423/	0.00	STM - (161) (STORM)/	0.00	ID*425/	0.00
STM - (170) (STORM)/	0.00	ID*427/	0.00	Link116/	0.00	Link117/	0.00
Link118/	0.00	Link119/	0.00	Link122/	0.00	spill/	0.00
Roof Control/	0.00	Roof Control2/	0.00	Orifice 1/	0.00	FREE# 1/	0.00

Cycle 16500 Time 22 Hrs - 55.00 Min

Junction / Depth / Elevation	====> "*" Junction is Surcharged.							
STM MH 188/	0.00 /	244.62	STM MH 187/	0.00 /	246.68	STM MH 203/	0.00 /	245.93
STM MH 236/	0.00 /	245.32	STM MH 21/	0.00 /	238.12	STM MH 23/	0.00 /	237.26
STM MH 154/	0.00 /	237.00	STM MH 22/	0.00 /	237.42	CB 6/	0.00 /	241.39
STM MH 227/	0.00 /	240.77	STM MH 132/	0.00 /	241.18	STM MH 116/	0.00 /	240.98
STM MH 221/	0.00 /	237.67	STM MH 35/	0.00 /	240.44	STM MH 36/	0.00 /	240.17

STM MH 118/	0.00 /	240.28	STM MH 34/	0.00 /	240.90	STM MH 121/	0.00 /	240.80
STM MH 120/	0.00 /	240.70	STM MH 117/	0.00 /	240.02	STM MH 119/	0.00 /	240.55
STM MH 20/	0.00 /	238.34	STM MH 37/	0.00 /	239.87	STM MH 40/	0.02 /	239.50
STM MH 86/	0.01 /	240.89	STM MH 115/	0.02 /	240.05	STM MH 87/	0.01 /	240.24
STM MH 223/	0.00 /	240.91	STM MH 220/	0.00 /	237.90	STM MH 205/	0.00 /	239.98
STM MH 128/	0.00 /	239.51	STM MH 127/	0.00 /	240.08	STM MH 122/	0.00 /	240.73
STM MH 123/	0.00 /	240.64	STM MH 126/	0.00 /	240.22	STM MH 125/	0.00 /	240.38
STM MH 124/	0.00 /	240.50	STM MH 129/	0.00 /	239.37	STM MH 133/	0.00 /	239.06
STM MH 170/	0.00 /	236.80	STM MH 38/	0.00 /	239.79	STM MH 18/	0.00 /	238.89
STM MH 218/	0.00 /	240.28	STM MH 131/	0.00 /	239.29	STM MH 219/	0.00 /	239.23
STM MH 17/	0.00 /	239.15	STM MH 39/	0.00 /	239.61	STM MH 153/	0.00 /	236.68
STM MH 204/	0.00 /	240.52	CULTEC 5/	0.00 /	236.47	STM MH 27/	0.00 /	235.58
STM MH 228/	0.00 /	240.00	STM MH 26/	0.00 /	236.06	STM MH 169/	0.00 /	239.87
STM MH 28/	0.00 /	235.10	STM MH 168/	0.00 /	240.23	STM MH 41/	0.02 /	239.32
PROP CB 39/	0.00 /	240.76	STM CBMH 19/	0.00 /	238.72	STM CBMH 250/	0.00 /	238.51
STM MH 134/	0.00 /	239.70	STM MH 135/	0.00 /	239.21	PROP DCB 62/	0.00 /	241.28
STM MH 256/	0.02 /	239.12	STM MH 85/	0.01 /	238.41	CULTEC 1/	0.00 /	238.83
STM MH 82/	0.00 /	239.73	CULTEC 2/	0.01 /	239.12	STM MH 83/	0.00 /	239.43
CAP 23/	0.00 /	241.36	STM MH 142/	0.00 /	239.05	CAP 14/	0.00 /	241.36
CAP 15/	0.00 /	241.36	CAP 16/	0.00 /	241.36	CAP 24/	0.00 /	241.36
CAP 22/	0.00 /	241.36	CAP 21/	0.00 /	241.36	CAP 20/	0.00 /	241.36
CAP 19/	0.00 /	241.36	CAP 18/	0.00 /	241.36	CAP 17/	0.00 /	241.36
CAP 13/	0.00 /	241.36	CAP 12/	0.00 /	241.36	CAP 11/	0.00 /	241.36
CAP 10/	0.00 /	241.36	CAP 9/	0.00 /	241.36	CAP 8/	0.00 /	241.36
CAP 7/	0.00 /	241.36	CAP 6/	0.00 /	241.36	CAP 5/	0.00 /	241.36
CAP 4/	0.00 /	241.36	CAP 3/	0.00 /	241.36	CAP 2/	0.01 /	241.37
CAP 1/	0.01 /	241.37	STM MH 141/	0.00 /	239.93	STM MH 42/	0.01 /	238.06
CULTEC 4/	0.00 /	234.84	STM MH 43/	0.01 /	235.51	STM MH 238/	0.00 /	237.93
STM MH 237/	0.00 /	238.20	STM MH 31/	0.01 /	232.51	STM MH 239/	0.00 /	234.15
STM MH 30/	0.01 /	233.25	STM MH 255/	0.00 /	232.18	Roof 1/	0.00 /	252.00
Roof 2/	0.00 /	252.00	Node117/	0.64 /	233.14	CB 4/	0.00 /	240.46
CB 3/	0.00 /	240.96	CB 2/	0.00 /	241.16	CB1/	0.00 /	241.17

Conduit/	FLOW	===> "*" Conduit uses the	normal flow option.
STM - (14) (STORM) /	0.00	STM - (15) (STORM) /	0.00
STM - (18) (STORM) /	0.00	STM - (19) (STORM) /	0.00
STM - (22) (STORM) /	0.00	STM - (24) (STORM) /	0.00
STM - (27) (STORM) /	0.00	STM - (28) (STORM) /	0.00
STM - (32) (STORM) /	0.00	STM - (33) (STORM) /	0.00
STM - (36) (STORM) /	0.00	STM - (37) (STORM) /	0.00
STM - (40) (STORM) /	0.00	STM - (41) (STORM) /	0.00
STM - (55) (STORM) /	0.00	STM - (56) (STORM) /	0.00
STM - (59) (STORM) /	0.00	ID*352/	0.00
STM - (63) (STORM) /	0.00	STM - (65) (STORM) /	0.00
STM - (67) (STORM) /	0.00	STM - (68) (STORM) /	0.00
STM - (70) (STORM) /	0.00	ID*365/	0.00
ID*368/	0.00	STM - (73) (STORM) /	0.00
STM - (75) (STORM) /	0.00	STM - (76) (STORM) /	0.00
ID*376/	0.00	STM - (78) (STORM) /	0.00
STM - (80) (STORM) /	0.00	ID*381/	0.00
ID*384/	0.00	STM - (83) (STORM) /	0.00
ID*388/	0.00	ID*390/	0.00
STM - (88) (STORM) /	0.00	STM - (89) (STORM) /	0.00
ID*397/	0.00	ID*398/	0.00
ID*401/	0.00	STM - (121) (STORM) /	0.00
STM - (142) (STORM) /	0.00	STM - (143) (STORM) /	0.00
ID*414/	0.00	ID*415/	0.00
ID*418/	0.00	STM - (155) (STORM) /	0.00
STM - (160) (STORM) /	0.00	ID*423/	0.00
STM - (170) (STORM) /	0.00	ID*427/	0.00
Link118/	0.00	Link119/	0.00
Roof Control1/	0.00	Roof Control2/	0.00

Cycle 17000 Time 23 Hrs - 36.67 Min

Junction / Depth / Elevation	===> "*" Junction is Surcharged.
STM MH 188/ 0.00 / 244.62	STM MH 187/ 0.00 / 246.68
STM MH 203/ 0.00 / 245.93	

STM MH 236/	0.00 /	245.32	STM MH 21/	0.00 /	238.12	STM MH 23/	0.00 /	237.26
STM MH 154/	0.00 /	237.00	STM MH 22/	0.00 /	237.42	CB 6/	0.00 /	241.39
STM MH 227/	0.00 /	240.77	STM MH 132/	0.00 /	241.18	STM MH 116/	0.00 /	240.98
STM MH 221/	0.00 /	237.67	STM MH 35/	0.00 /	240.44	STM MH 36/	0.00 /	240.17
STM MH 118/	0.00 /	240.28	STM MH 34/	0.00 /	240.90	STM MH 121/	0.00 /	240.80
STM MH 120/	0.00 /	240.70	STM MH 117/	0.00 /	240.02	STM MH 119/	0.00 /	240.55
STM MH 20/	0.00 /	238.34	STM MH 37/	0.00 /	239.87	STM MH 40/	0.02 /	239.50
STM MH 86/	0.01 /	240.89	STM MH 115/	0.02 /	240.05	STM MH 87/	0.01 /	240.24
STM MH 223/	0.00 /	240.91	STM MH 220/	0.00 /	237.90	STM MH 205/	0.00 /	239.98
STM MH 128/	0.00 /	239.51	STM MH 127/	0.00 /	240.08	STM MH 122/	0.00 /	240.73
STM MH 123/	0.00 /	240.64	STM MH 126/	0.00 /	240.22	STM MH 125/	0.00 /	240.38
STM MH 124/	0.00 /	240.50	STM MH 129/	0.00 /	239.37	STM MH 133/	0.00 /	239.06
STM MH 170/	0.00 /	236.80	STM MH 38/	0.00 /	239.79	STM MH 18/	0.00 /	238.89
STM MH 218/	0.00 /	240.28	STM MH 131/	0.00 /	239.29	STM MH 219/	0.00 /	239.23
STM MH 17/	0.00 /	239.15	STM MH 39/	0.00 /	239.61	STM MH 153/	0.00 /	236.68
STM MH 204/	0.00 /	240.52	CULTEC 5/	0.00 /	236.47	STM MH 27/	0.00 /	235.58
STM MH 228/	0.00 /	240.00	STM MH 26/	0.00 /	236.06	STM MH 169/	0.00 /	239.87
STM MH 28/	0.00 /	235.10	STM MH 168/	0.00 /	240.23	STM MH 41/	0.02 /	239.32
PROP CB 39/	0.00 /	240.76	STM CBMH 19/	0.00 /	238.72	STM CBMH 250/	0.00 /	238.51
STM MH 134/	0.00 /	239.70	STM MH 135/	0.00 /	239.21	PROP DCB 62/	0.00 /	241.28
STM MH 256/	0.01 /	239.11	STM MH 85/	0.01 /	238.41	CULTEC 1/	0.00 /	238.83
STM MH 82/	0.00 /	239.73	CULTEC 2/	0.01 /	239.12	STM MH 83/	0.00 /	239.43
CAP 23/	0.00 /	241.36	STM MH 142/	0.00 /	239.05	CAP 14/	0.00 /	241.36
CAP 15/	0.00 /	241.36	CAP 16/	0.00 /	241.36	CAP 24/	0.00 /	241.36
CAP 22/	0.00 /	241.36	CAP 21/	0.00 /	241.36	CAP 20/	0.00 /	241.36
CAP 19/	0.00 /	241.36	CAP 18/	0.00 /	241.36	CAP 17/	0.00 /	241.36
CAP 13/	0.00 /	241.36	CAP 12/	0.00 /	241.36	CAP 11/	0.00 /	241.36
CAP 10/	0.00 /	241.36	CAP 9/	0.00 /	241.36	CAP 8/	0.00 /	241.36
CAP 7/	0.00 /	241.36	CAP 6/	0.00 /	241.36	CAP 5/	0.00 /	241.36
CAP 4/	0.00 /	241.36	CAP 3/	0.00 /	241.36	CAP 2/	0.01 /	241.37
CAP 1/	0.01 /	241.37	STM MH 141/	0.00 /	239.93	STM MH 42/	0.01 /	238.06
CULTEC 4/	0.00 /	234.84	STM MH 43/	0.01 /	235.51	STM MH 238/	0.00 /	237.93
STM MH 237/	0.00 /	238.20	STM MH 31/	0.01 /	232.51	STM MH 239/	0.00 /	234.15
STM MH 30/	0.01 /	233.24	STM MH 255/	0.00 /	232.18	Roof 1/	0.00 /	252.00
Roof 2/	0.00 /	252.00	Node117/	0.64 /	233.14	CB 4/	0.00 /	240.46
CB 3/	0.00 /	240.96	CB 2/	0.00 /	241.16	CB1/	0.00 /	241.17

Conduit/	FLOW	====>	"*" Conduit uses the	normal	flow	option.
STM - (14) (STORM)/	0.00	STM - (15) (STORM)/	0.00	STM - (16) (STORM)/	0.00	STM - (17) (STORM)/
0.00						
STM - (18) (STORM)/	0.00	STM - (19) (STORM)/	0.00	STM - (20) (STORM)/	0.00	STM - (21) (STORM)/
0.00						
STM - (22) (STORM)/	0.00	STM - (24) (STORM)/	0.00	STM - (25) (STORM)/	0.00	STM - (26) (STORM)/
0.00						
STM - (27) (STORM)/	0.00	STM - (28) (STORM)/	0.00	STM - (29) (STORM)/	0.00	STM - (30) (STORM)/
0.00						
STM - (32) (STORM)/	0.00	STM - (33) (STORM)/	0.00	STM - (34) (STORM)/	0.00	STM - (35) (STORM)/
0.00						
STM - (36) (STORM)/	0.00	STM - (37) (STORM)/	0.00	STM - (38) (STORM)/	0.00	STM - (39) (STORM)/
0.00						
STM - (40) (STORM)/	0.00	STM - (41) (STORM)/	0.00	STM - (53) (STORM)/	0.00	STM - (54) (STORM)/
0.00						
STM - (55) (STORM)/	0.00	STM - (56) (STORM)/	0.00	STM - (57) (STORM)/	0.00	STM - (58) (STORM)/
0.00						
STM - (59) (STORM)/	0.00	ID*352/	0.00	STM - (61) (STORM)/	0.00	STM - (62) (STORM)/
0.00						
STM - (63) (STORM)/	0.00	STM - (65) (STORM)/	0.00	STM - (66) (STORM)/	0.00	ID*359/
0.00						
STM - (67) (STORM)/	0.00	STM - (68) (STORM)/	0.00	ID*362/	0.00	STM - (69) (STORM)/
0.00						
STM - (70) (STORM)/	0.00	ID*365/	0.00	STM - (71) (STORM)/	0.00	STM - (72) (STORM)/
0.00						
ID*368/	0.00	STM - (73) (STORM)/	0.00	ID*370/	0.00	STM - (74) (STORM)/
0.00						
STM - (75) (STORM)/	0.00	STM - (76) (STORM)/	0.00	ID*374/	0.00	STM - (77) (STORM)/
0.00						
ID*376/	0.00	STM - (78) (STORM)/	0.00	ID*378/	0.00	STM - (79) (STORM)/
0.00						
STM - (80) (STORM)/	0.00	ID*381/	0.00	STM - (81) (STORM)/	0.00	STM - (82) (STORM)/
0.00						
ID*384/	0.00	STM - (83) (STORM)/	0.00	STM - (84) (STORM)/	0.00	ID*387/
0.00						
ID*388/	0.00	ID*390/	0.00	STM - (86) (STORM)/	0.00	STM - (87) (STORM)/
0.00						
STM - (88) (STORM)/	0.00	STM - (89) (STORM)/	0.00	STM - (95) (STORM)/	0.00	STM - (96) (STORM)/
0.00						
ID*397/	0.00	ID*398/	0.00	STM - (119) (STORM)/	0.00	STM - (120) (STORM)/
0.00						
ID*401/	0.00	STM - (121) (STORM)/	0.00	STM - (130) (STORM)/	0.00	ID*409/
0.00						
STM - (142) (STORM)/	0.00	STM - (143) (STORM)/	0.00	ID*412/	0.00	ID*413/
0.00						
ID*414/	0.00	ID*415/	0.00	STM - (151) (STORM)/	0.00	STM - (152) (STORM)/
0.00						
ID*418/	0.00	STM - (155) (STORM)/	0.00	STM - (158) (STORM)/	0.00	ID*421/
0.00						
STM - (160) (STORM)/	0.00	ID*423/	0.00	STM - (161) (STORM)/	0.00	ID*425/
0.00						
STM - (170) (STORM)/	0.00	ID*427/	0.00	Link116/	0.00	Link117/
0.00						
Link118/	0.00	Link119/	0.00	Link122/	0.00	spill/
0.00						
Roof Control1/	0.00	Roof Control2/	0.00	Orifice 1/	0.00	FREE# 1/
0.00						

Cycle 17500 Time 24 Hrs - 18.33 Min

Junction / Depth / Elevation	====>	"*" Junction is Surcharged.
STM MH 188/ 0.00 / 244.62		STM MH 187/ 0.00 / 246.68
STM MH 236/ 0.00 / 245.32		STM MH 21/ 0.00 / 238.12
STM MH 154/ 0.00 / 237.00		STM MH 22/ 0.00 / 237.42
STM MH 227/ 0.00 / 240.77		STM MH 132/ 0.00 / 241.18
STM MH 221/ 0.00 / 237.67		STM MH 35/ 0.00 / 240.44
STM MH 118/ 0.00 / 240.28		STM MH 34/ 0.00 / 240.90
STM MH 120/ 0.00 / 240.70		STM MH 117/ 0.00 / 240.02
STM MH 20/ 0.00 / 238.34		STM MH 37/ 0.00 / 239.87
STM MH 86/ 0.01 / 240.89		STM MH 115/ 0.01 / 240.04
STM MH 223/ 0.00 / 240.91		STM MH 220/ 0.00 / 237.90
STM MH 128/ 0.00 / 239.51		STM MH 127/ 0.00 / 240.08
STM MH 123/ 0.00 / 240.64		STM MH 126/ 0.00 / 240.22
STM MH 124/ 0.00 / 240.50		STM MH 129/ 0.00 / 239.37
STM MH 170/ 0.00 / 236.80		STM MH 38/ 0.00 / 239.79
STM MH 218/ 0.00 / 240.28		STM MH 131/ 0.00 / 239.29
STM MH 17/ 0.00 / 239.15		STM MH 39/ 0.00 / 239.61
STM MH 204/ 0.00 / 240.52		CULTEC 5/ 0.00 / 236.47
STM MH 228/ 0.00 / 240.00		STM MH 26/ 0.00 / 236.06
STM MH 28/ 0.00 / 235.10		STM MH 168/ 0.00 / 240.23
PROP CB 39/ 0.00 / 240.76		STM CBMH 19/ 0.00 / 238.72
STM MH 134/ 0.00 / 239.70		STM MH 135/ 0.00 / 239.21
STM MH 256/ 0.01 / 239.11		STM MH 85/ 0.01 / 238.41
STM MH 82/ 0.00 / 239.73		CULTEC 2/ 0.01 / 239.12
CAP 23/ 0.00 / 241.36		STM MH 142/ 0.00 / 239.05
CAP 15/ 0.00 / 241.36		CAP 16/ 0.00 / 241.36
CAP 22/ 0.00 / 241.36		CAP 21/ 0.00 / 241.36
CAP 19/ 0.00 / 241.36		CAP 18/ 0.00 / 241.36
CAP 13/ 0.00 / 241.36		CAP 12/ 0.00 / 241.36
CAP 10/ 0.00 / 241.36		CAP 9/ 0.00 / 241.36
CAP 7/ 0.00 / 241.36		CAP 6/ 0.00 / 241.36
CAP 4/ 0.00 / 241.36		CAP 3/ 0.00 / 241.36
CAP 1/ 0.01 / 241.37		STM MH 141/ 0.00 / 239.93
CULTEC 4/ 0.00 / 234.84		STM MH 43/ 0.01 / 235.51
STM MH 237/ 0.00 / 238.20		STM MH 31/ 0.01 / 232.51
STM MH 30/ 0.01 / 233.24		STM MH 255/ 0.00 / 232.18
Roof 2/ 0.00 / 252.00		Node117/ 0.64 / 233.14
CB 3/ 0.00 / 240.96		CB 2/ 0.00 / 241.16
		STM MH 203/ 0.00 / 245.93
		STM MH 23/ 0.00 / 237.26
		CB 6/ 0.00 / 241.39
		STM MH 116/ 0.00 / 240.98
		STM MH 36/ 0.00 / 240.17
		STM MH 121/ 0.00 / 240.80
		STM MH 119/ 0.00 / 240.55
		STM MH 40/ 0.02 / 239.50
		STM MH 87/ 0.01 / 240.24
		STM MH 205/ 0.00 / 239.98
		STM MH 122/ 0.00 / 240.73
		STM MH 125/ 0.00 / 240.38
		STM MH 133/ 0.00 / 239.06
		STM MH 18/ 0.00 / 238.89
		STM MH 219/ 0.00 / 239.23
		STM MH 153/ 0.00 / 236.68
		STM MH 27/ 0.00 / 235.58
		STM MH 169/ 0.00 / 239.87
		STM MH 41/ 0.02 / 239.32
		STM CBMH 250/ 0.00 / 238.51
		PROP DCB 62/ 0.00 / 241.28
		CULTEC 1/ 0.00 / 238.83
		STM MH 83/ 0.00 / 239.43
		CAP 14/ 0.00 / 241.36
		CAP 24/ 0.00 / 241.36
		CAP 20/ 0.00 / 241.36
		CAP 17/ 0.00 / 241.36
		CAP 11/ 0.00 / 241.36
		CAP 8/ 0.00 / 241.36
		CAP 5/ 0.00 / 241.36
		CAP 2/ 0.01 / 241.37
		STM MH 42/ 0.01 / 238.06
		STM MH 238/ 0.00 / 237.93
		STM MH 239/ 0.00 / 234.15
		Roof 1/ 0.00 / 252.00
		CB 4/ 0.00 / 240.46
		CB1/ 0.00 / 241.17

Conduit/	FLOW	====>	"*" Conduit uses the normal flow option.
STM - (14) (STORM) / 0.00	0.00	STM - (15) (STORM) / 0.00	STM - (16) (STORM) / 0.00
STM - (18) (STORM) / 0.00	0.00	STM - (19) (STORM) / 0.00	STM - (20) (STORM) / 0.00
STM - (22) (STORM) / 0.00	0.00	STM - (24) (STORM) / 0.00	STM - (25) (STORM) / 0.00
STM - (27) (STORM) / 0.00	0.00	STM - (28) (STORM) / 0.00	STM - (29) (STORM) / 0.00
STM - (32) (STORM) / 0.00	0.00	STM - (33) (STORM) / 0.00	STM - (34) (STORM) / 0.00
STM - (36) (STORM) / 0.00	0.00	STM - (37) (STORM) / 0.00	STM - (38) (STORM) / 0.00
STM - (40) (STORM) / 0.00	0.00	STM - (41) (STORM) / 0.00	STM - (53) (STORM) / 0.00
STM - (55) (STORM) / 0.00	0.00	STM - (56) (STORM) / 0.00	STM - (57) (STORM) / 0.00
STM - (59) (STORM) / 0.00	0.00	ID*352/ 0.00	STM - (61) (STORM) / 0.00
STM - (63) (STORM) / 0.00	0.00	STM - (65) (STORM) / 0.00	STM - (66) (STORM) / 0.00
STM - (67) (STORM) / 0.00	0.00	STM - (68) (STORM) / 0.00	ID*362/ 0.00
STM - (70) (STORM) / 0.00	0.00	ID*365/ 0.00	STM - (71) (STORM) / 0.00
ID*368/ 0.00	0.00	STM - (73) (STORM) / 0.00	ID*370/ 0.00
STM - (75) (STORM) / 0.00	0.00	STM - (76) (STORM) / 0.00	ID*374/ 0.00
ID*376/ 0.00	0.00	STM - (78) (STORM) / 0.00	ID*378/ 0.00
STM - (80) (STORM) / 0.00	0.00	ID*381/ 0.00	STM - (81) (STORM) / 0.00
ID*384/ 0.00	0.00	STM - (83) (STORM) / 0.00	STM - (84) (STORM) / 0.00
ID*388/ 0.00	0.00	ID*390/ 0.00	STM - (86) (STORM) / 0.00
STM - (88) (STORM) / 0.00	0.00	STM - (89) (STORM) / 0.00	STM - (95) (STORM) / 0.00
ID*397/ 0.00	0.00	ID*398/ 0.00	STM - (119) (STORM) / 0.00
ID*401/ 0.00	0.00	STM - (121) (STORM) / 0.00	STM - (130) (STORM) / 0.00
STM - (142) (STORM) / 0.00	0.00	STM - (143) (STORM) / 0.00	ID*412/ 0.00
ID*414/ 0.00	0.00	ID*415/ 0.00	STM - (151) (STORM) / 0.00
ID*418/ 0.00	0.00	STM - (155) (STORM) / 0.00	STM - (158) (STORM) / 0.00
STM - (160) (STORM) / 0.00	0.00	ID*423/ 0.00	STM - (161) (STORM) / 0.00
STM - (170) (STORM) / 0.00	0.00	ID*427/ 0.00	Link116/ 0.00
			Link117/ 0.00

0.00 Link118/ 0.00 Link119/ 0.00 Link122/ 0.00 spill/
 0.00 Roof Control/ 0.00 Roof Control2/ 0.00 Orifice 1/ 0.00 FREE# 1/

Cycle 18000 Time 25 Hrs - 0.00 Min

Junction /	Depth /	Elevation	====>	"*" Junction is Surcharged.			
STM MH 188/	0.00 /	244.62		STM MH 187/	0.00 /	246.68	STM MH 203/ 0.00 / 245.93
STM MH 236/	0.00 /	245.32		STM MH 21/	0.00 /	238.12	STM MH 23/ 0.00 / 237.26
STM MH 154/	0.00 /	237.00		STM MH 22/	0.00 /	237.42	CB 6/ 0.00 / 241.39
STM MH 227/	0.00 /	240.77		STM MH 132/	0.00 /	241.18	STM MH 116/ 0.00 / 240.98
STM MH 221/	0.00 /	237.67		STM MH 35/	0.00 /	240.44	STM MH 36/ 0.00 / 240.17
STM MH 118/	0.00 /	240.28		STM MH 34/	0.00 /	240.90	STM MH 121/ 0.00 / 240.80
STM MH 120/	0.00 /	240.70		STM MH 117/	0.00 /	240.02	STM MH 119/ 0.00 / 240.55
STM MH 20/	0.00 /	238.34		STM MH 37/	0.00 /	239.87	STM MH 40/ 0.01 / 239.49
STM MH 86/	0.01 /	240.89		STM MH 115/	0.01 /	240.04	STM MH 87/ 0.01 / 240.24
STM MH 223/	0.00 /	240.91		STM MH 220/	0.00 /	237.90	STM MH 205/ 0.00 / 239.98
STM MH 128/	0.00 /	239.51		STM MH 127/	0.00 /	240.08	STM MH 122/ 0.00 / 240.73
STM MH 123/	0.00 /	240.64		STM MH 126/	0.00 /	240.22	STM MH 125/ 0.00 / 240.38
STM MH 124/	0.00 /	240.50		STM MH 129/	0.00 /	239.37	STM MH 133/ 0.00 / 239.06
STM MH 170/	0.00 /	236.80		STM MH 38/	0.00 /	239.79	STM MH 18/ 0.00 / 238.89
STM MH 218/	0.00 /	240.28		STM MH 131/	0.00 /	239.29	STM MH 219/ 0.00 / 239.23
STM MH 17/	0.00 /	239.15		STM MH 39/	0.00 /	239.61	STM MH 153/ 0.00 / 236.68
STM MH 204/	0.00 /	240.52		CULTEC 5/	0.00 /	236.47	STM MH 27/ 0.00 / 235.58
STM MH 228/	0.00 /	240.00		STM MH 26/	0.00 /	236.06	STM MH 169/ 0.00 / 239.87
STM MH 28/	0.00 /	235.10		STM MH 168/	0.00 /	240.23	STM MH 41/ 0.02 / 239.32
PROP CB 39/	0.00 /	240.76		STM CBMH 19/	0.00 /	238.72	STM CBMH 250/ 0.00 / 238.51
STM MH 134/	0.00 /	239.70		STM MH 135/	0.00 /	239.21	PROP DCB 62/ 0.00 / 241.28
STM MH 256/	0.01 /	239.11		STM MH 85/	0.01 /	238.41	CULTEC 1/ 0.00 / 238.83
STM MH 82/	0.00 /	239.73		CULTEC 2/	0.01 /	239.12	STM MH 83/ 0.00 / 239.43
CAP 23/	0.00 /	241.36		STM MH 142/	0.00 /	239.05	CAP 14/ 0.00 / 241.36
CAP 15/	0.00 /	241.36		CAP 16/	0.00 /	241.36	CAP 24/ 0.00 / 241.36
CAP 22/	0.00 /	241.36		CAP 21/	0.00 /	241.36	CAP 20/ 0.00 / 241.36
CAP 19/	0.00 /	241.36		CAP 18/	0.00 /	241.36	CAP 17/ 0.00 / 241.36
CAP 13/	0.00 /	241.36		CAP 12/	0.00 /	241.36	CAP 11/ 0.00 / 241.36
CAP 10/	0.00 /	241.36		CAP 9/	0.00 /	241.36	CAP 8/ 0.00 / 241.36
CAP 7/	0.00 /	241.36		CAP 6/	0.00 /	241.36	CAP 5/ 0.00 / 241.36
CAP 4/	0.00 /	241.36		CAP 3/	0.00 /	241.36	CAP 2/ 0.01 / 241.37
CAP 1/	0.01 /	241.37		STM MH 141/	0.00 /	239.93	STM MH 42/ 0.01 / 238.06
CULTEC 4/	0.00 /	234.84		STM MH 43/	0.01 /	235.51	STM MH 238/ 0.00 / 237.93
STM MH 237/	0.00 /	238.20		STM MH 31/	0.01 /	232.51	STM MH 239/ 0.00 / 234.15
STM MH 30/	0.01 /	233.24		STM MH 255/	0.00 /	232.18	Roof 1/ 0.00 / 252.00
Roof 2/	0.00 /	252.00		Node117/	0.64 /	233.13	CB 4/ 0.00 / 240.46
CB 3/	0.00 /	240.96		CB 2/	0.00 /	241.16	CB1/ 0.00 / 241.17

Conduit/	FLOW	====>	"*" Conduit uses the normal flow option.				
STM - (14) (STORM)/	0.00		STM - (15) (STORM)/	0.00	STM - (16) (STORM)/	0.00	STM - (17) (STORM)/
STM - (18) (STORM)/	0.00		STM - (19) (STORM)/	0.00	STM - (20) (STORM)/	0.00	STM - (21) (STORM)/
STM - (22) (STORM)/	0.00		STM - (24) (STORM)/	0.00	STM - (25) (STORM)/	0.00	STM - (26) (STORM)/
STM - (27) (STORM)/	0.00		STM - (28) (STORM)/	0.00	STM - (29) (STORM)/	0.00	STM - (30) (STORM)/
STM - (32) (STORM)/	0.00		STM - (33) (STORM)/	0.00	STM - (34) (STORM)/	0.00	STM - (35) (STORM)/
STM - (36) (STORM)/	0.00		STM - (37) (STORM)/	0.00	STM - (38) (STORM)/	0.00	STM - (39) (STORM)/
STM - (40) (STORM)/	0.00		STM - (41) (STORM)/	0.00	STM - (53) (STORM)/	0.00	STM - (54) (STORM)/
STM - (55) (STORM)/	0.00		STM - (56) (STORM)/	0.00	STM - (57) (STORM)/	0.00	STM - (58) (STORM)/
STM - (59) (STORM)/	0.00		ID*352/	0.00	STM - (61) (STORM)/	0.00	STM - (62) (STORM)/
STM - (63) (STORM)/	0.00		STM - (65) (STORM)/	0.00	STM - (66) (STORM)/	0.00	ID*359/
STM - (67) (STORM)/	0.00		STM - (68) (STORM)/	0.00	ID*362/	0.00	STM - (69) (STORM)/
STM - (70) (STORM)/	0.00		ID*365/	0.00	STM - (71) (STORM)/	0.00	STM - (72) (STORM)/
ID*368/	0.00		STM - (73) (STORM)/	0.00	ID*370/	0.00	STM - (74) (STORM)/
STM - (75) (STORM)/	0.00		STM - (76) (STORM)/	0.00	ID*374/	0.00	STM - (77) (STORM)/
ID*376/	0.00		STM - (78) (STORM)/	0.00	ID*378/	0.00	STM - (79) (STORM)/
STM - (80) (STORM)/	0.00		ID*381/	0.00	STM - (81) (STORM)/	0.00	STM - (82) (STORM)/
ID*384/	0.00		STM - (83) (STORM)/	0.00	STM - (84) (STORM)/	0.00	ID*387/
ID*388/	0.00		ID*390/	0.00	STM - (86) (STORM)/	0.00	STM - (87) (STORM)/
STM - (88) (STORM)/	0.00		STM - (89) (STORM)/	0.00	STM - (95) (STORM)/	0.00	STM - (96) (STORM)/
ID*397/	0.00		ID*398/	0.00	STM - (119) (STORM)/	0.00	STM - (120) (STORM)/
ID*401/	0.00		STM - (121) (STORM)/	0.00	STM - (130) (STORM)/	0.00	ID*409/
STM - (142) (STORM)/	0.00		STM - (143) (STORM)/	0.00	ID*412/	0.00	ID*413/
ID*414/	0.00		ID*415/	0.00	STM - (151) (STORM)/	0.00	STM - (152) (STORM)/
ID*418/	0.00		STM - (155) (STORM)/	0.00	STM - (158) (STORM)/	0.00	ID*421/

STM - (160) (STORM)/	0.00	ID*423/	0.00	STM - (161) (STORM)/	0.00	ID*425/
0.00						
STM - (170) (STORM)/	0.00	ID*427/	0.00	Link116/	0.00	Link117/
0.00						
Link118/	0.00	Link119/	0.00	Link122/	0.00	spill/
0.00						
Roof Control1/	0.00	Roof Control2/	0.00	Orifice 1/	0.00	FREE# 1/
0.00						

Cycle 18500 Time 25 Hrs - 41.67 Min

Junction / Depth / Elevation	====>	"*" Junction is Surcharged.				
STM MH 188/ 0.00 / 244.62		STM MH 187/ 0.00 / 246.68		STM MH 203/ 0.00 / 245.93		
STM MH 236/ 0.00 / 245.32		STM MH 21/ 0.00 / 238.12		STM MH 23/ 0.00 / 237.26		
STM MH 154/ 0.00 / 237.00		STM MH 22/ 0.00 / 237.42		CB 6/ 0.00 / 241.39		
STM MH 227/ 0.00 / 240.77		STM MH 132/ 0.00 / 241.18		STM MH 116/ 0.00 / 240.98		
STM MH 221/ 0.00 / 237.67		STM MH 35/ 0.00 / 240.44		STM MH 36/ 0.00 / 240.17		
STM MH 118/ 0.00 / 240.28		STM MH 34/ 0.00 / 240.90		STM MH 121/ 0.00 / 240.80		
STM MH 120/ 0.00 / 240.70		STM MH 117/ 0.00 / 240.02		STM MH 119/ 0.00 / 240.55		
STM MH 20/ 0.00 / 238.34		STM MH 37/ 0.00 / 239.87		STM MH 40/ 0.01 / 239.49		
STM MH 86/ 0.01 / 240.89		STM MH 115/ 0.01 / 240.04		STM MH 87/ 0.01 / 240.24		
STM MH 223/ 0.00 / 240.91		STM MH 220/ 0.00 / 237.90		STM MH 205/ 0.00 / 239.98		
STM MH 128/ 0.00 / 239.51		STM MH 127/ 0.00 / 240.08		STM MH 122/ 0.00 / 240.73		
STM MH 123/ 0.00 / 240.64		STM MH 126/ 0.00 / 240.22		STM MH 125/ 0.00 / 240.38		
STM MH 124/ 0.00 / 240.50		STM MH 129/ 0.00 / 239.37		STM MH 133/ 0.00 / 239.06		
STM MH 170/ 0.00 / 236.80		STM MH 38/ 0.00 / 239.79		STM MH 18/ 0.00 / 238.89		
STM MH 218/ 0.00 / 240.28		STM MH 131/ 0.00 / 239.29		STM MH 219/ 0.00 / 239.23		
STM MH 17/ 0.00 / 239.15		STM MH 39/ 0.00 / 239.61		STM MH 153/ 0.00 / 236.68		
STM MH 204/ 0.00 / 240.52		CULTEC 5/ 0.00 / 236.47		STM MH 27/ 0.00 / 235.58		
STM MH 228/ 0.00 / 240.00		STM MH 26/ 0.00 / 236.06		STM MH 169/ 0.00 / 239.87		
STM MH 28/ 0.00 / 235.10		STM MH 168/ 0.00 / 240.23		STM MH 41/ 0.01 / 239.31		
PROP CB 39/ 0.00 / 240.76		STM CBMH 19/ 0.00 / 238.72		STM CBMH 250/ 0.00 / 238.51		
STM MH 134/ 0.00 / 239.70		STM MH 135/ 0.00 / 239.21		PROP DCB 62/ 0.00 / 241.28		
STM MH 256/ 0.01 / 239.11		STM MH 85/ 0.01 / 238.41		CULTEC 1/ 0.00 / 238.83		
STM MH 82/ 0.00 / 239.73		CULTEC 2/ 0.01 / 239.12		STM MH 83/ 0.00 / 239.43		
CAP 23/ 0.00 / 241.36		STM MH 142/ 0.00 / 239.05		CAP 14/ 0.00 / 241.36		
CAP 15/ 0.00 / 241.36		CAP 16/ 0.00 / 241.36		CAP 24/ 0.00 / 241.36		
CAP 22/ 0.00 / 241.36		CAP 21/ 0.00 / 241.36		CAP 20/ 0.00 / 241.36		
CAP 19/ 0.00 / 241.36		CAP 18/ 0.00 / 241.36		CAP 17/ 0.00 / 241.36		
CAP 13/ 0.00 / 241.36		CAP 12/ 0.00 / 241.36		CAP 11/ 0.00 / 241.36		
CAP 10/ 0.00 / 241.36		CAP 9/ 0.00 / 241.36		CAP 8/ 0.00 / 241.36		
CAP 7/ 0.00 / 241.36		CAP 6/ 0.00 / 241.36		CAP 5/ 0.00 / 241.36		
CAP 4/ 0.00 / 241.36		CAP 3/ 0.00 / 241.36		CAP 2/ 0.01 / 241.37		
CAP 1/ 0.01 / 241.37		STM MH 141/ 0.00 / 239.93		STM MH 42/ 0.01 / 238.06		
CULTEC 4/ 0.00 / 234.84		STM MH 43/ 0.01 / 235.51		STM MH 238/ 0.00 / 237.93		
STM MH 237/ 0.00 / 238.20		STM MH 31/ 0.01 / 232.51		STM MH 239/ 0.00 / 234.15		
STM MH 30/ 0.01 / 233.24		STM MH 255/ 0.00 / 232.18		Roof 1/ 0.00 / 252.00		
Roof 2/ 0.00 / 252.00		Node117/ 0.63 / 233.13		CB 4/ 0.00 / 240.46		
CB 3/ 0.00 / 240.96		CB 2/ 0.00 / 241.16		CB1/ 0.00 / 241.17		

Conduit/	FLOW	====>	"*" Conduit uses the normal flow option.			
STM - (14) (STORM)/	0.00	STM - (15) (STORM)/	0.00	STM - (16) (STORM)/	0.00	STM - (17) (STORM)/
0.00						
STM - (18) (STORM)/	0.00	STM - (19) (STORM)/	0.00	STM - (20) (STORM)/	0.00	STM - (21) (STORM)/
0.00						
STM - (22) (STORM)/	0.00	STM - (24) (STORM)/	0.00	STM - (25) (STORM)/	0.00	STM - (26) (STORM)/
0.00						
STM - (27) (STORM)/	0.00	STM - (28) (STORM)/	0.00	STM - (29) (STORM)/	0.00	STM - (30) (STORM)/
0.00						
STM - (32) (STORM)/	0.00	STM - (33) (STORM)/	0.00	STM - (34) (STORM)/	0.00	STM - (35) (STORM)/
0.00						
STM - (36) (STORM)/	0.00	STM - (37) (STORM)/	0.00	STM - (38) (STORM)/	0.00	STM - (39) (STORM)/
0.00						
STM - (40) (STORM)/	0.00	STM - (41) (STORM)/	0.00	STM - (53) (STORM)/	0.00	STM - (54) (STORM)/
0.00						
STM - (55) (STORM)/	0.00	STM - (56) (STORM)/	0.00	STM - (57) (STORM)/	0.00	STM - (58) (STORM)/
0.00						
STM - (59) (STORM)/	0.00	ID*352/	0.00	STM - (61) (STORM)/	0.00	STM - (62) (STORM)/
0.00						
STM - (63) (STORM)/	0.00	STM - (65) (STORM)/	0.00	STM - (66) (STORM)/	0.00	ID*359/
0.00						
STM - (67) (STORM)/	0.00	STM - (68) (STORM)/	0.00	ID*362/	0.00	STM - (69) (STORM)/
0.00						
STM - (70) (STORM)/	0.00	ID*365/	0.00	STM - (71) (STORM)/	0.00	STM - (72) (STORM)/
0.00						
ID*368/	0.00	STM - (73) (STORM)/	0.00	ID*370/	0.00	STM - (74) (STORM)/
0.00						
STM - (75) (STORM)/	0.00	STM - (76) (STORM)/	0.00	ID*374/	0.00	STM - (77) (STORM)/
0.00						
ID*376/	0.00	STM - (78) (STORM)/	0.00	ID*378/	0.00	STM - (79) (STORM)/
0.00						
STM - (80) (STORM)/	0.00	ID*381/	0.00	STM - (81) (STORM)/	0.00	STM - (82) (STORM)/
0.00						
ID*384/	0.00	STM - (83) (STORM)/	0.00	STM - (84) (STORM)/	0.00	ID*387/
0.00						
ID*388/	0.00	ID*390/	0.00	STM - (86) (STORM)/	0.00	STM - (87) (STORM)/
0.00						
STM - (88) (STORM)/	0.00	STM - (89) (STORM)/	0.00	STM - (95) (STORM)/	0.00	STM - (96) (STORM)/
0.00						
ID*397/	0.00	ID*398/	0.00	STM - (119) (STORM)/	0.00	STM - (120) (STORM)/
0.00						
ID*401/	0.00	STM - (121) (STORM)/	0.00	STM - (130) (STORM)/	0.00	ID*409/
0.00						
STM - (142) (STORM)/	0.00	STM - (143) (STORM)/	0.00	ID*412/	0.00	ID*413/
0.00						

0.00	ID*414/	0.00	ID*415/	0.00	STM - (151) (STORM) /	0.00	STM - (152) (STORM) /
0.00	ID*418/	0.00	STM - (155) (STORM) /	0.00	STM - (158) (STORM) /	0.00	ID*421/
0.00	STM - (160) (STORM) /	0.00	ID*423/	0.00	STM - (161) (STORM) /	0.00	ID*425/
0.00	STM - (170) (STORM) /	0.00	ID*427/	0.00	Link116/	0.00	Link117/
0.00	Link118/	0.00	Link119/	0.00	Link122/	0.00	spill/
0.00	Roof Control/	0.00	Roof Control2/	0.00	Orifice 1/	0.00	FREE# 1/

Cycle 19000 Time 26 Hrs - 23.33 Min

Junction / Depth / Elevation ==> "*" Junction is Surcharged.

STM MH 188/	0.00 /	244.62	STM MH 187/	0.00 /	246.68	STM MH 203/	0.00 /	245.93
STM MH 236/	0.00 /	245.32	STM MH 21/	0.00 /	238.12	STM MH 23/	0.00 /	237.26
STM MH 154/	0.00 /	237.00	STM MH 22/	0.00 /	237.42	CB 6/	0.00 /	241.39
STM MH 227/	0.00 /	240.77	STM MH 132/	0.00 /	241.18	STM MH 116/	0.00 /	240.98
STM MH 221/	0.00 /	237.67	STM MH 35/	0.00 /	240.44	STM MH 36/	0.00 /	240.17
STM MH 118/	0.00 /	240.28	STM MH 34/	0.00 /	240.90	STM MH 121/	0.00 /	240.80
STM MH 120/	0.00 /	240.70	STM MH 117/	0.00 /	240.02	STM MH 119/	0.00 /	240.55
STM MH 20/	0.00 /	238.34	STM MH 37/	0.00 /	239.87	STM MH 40/	0.01 /	239.49
STM MH 86/	0.01 /	240.89	STM MH 115/	0.01 /	240.04	STM MH 87/	0.01 /	240.24
STM MH 223/	0.00 /	240.91	STM MH 220/	0.00 /	237.90	STM MH 205/	0.00 /	239.98
STM MH 128/	0.00 /	239.51	STM MH 127/	0.00 /	240.08	STM MH 122/	0.00 /	240.73
STM MH 123/	0.00 /	240.64	STM MH 126/	0.00 /	240.22	STM MH 125/	0.00 /	240.38
STM MH 124/	0.00 /	240.50	STM MH 129/	0.00 /	239.37	STM MH 133/	0.00 /	239.06
STM MH 170/	0.00 /	236.80	STM MH 38/	0.00 /	239.79	STM MH 18/	0.00 /	238.89
STM MH 218/	0.00 /	240.28	STM MH 131/	0.00 /	239.29	STM MH 219/	0.00 /	239.23
STM MH 17/	0.00 /	239.15	STM MH 39/	0.00 /	239.61	STM MH 153/	0.00 /	236.68
STM MH 204/	0.00 /	240.52	CULTEC 5/	0.00 /	236.47	STM MH 27/	0.00 /	235.58
STM MH 228/	0.00 /	240.00	STM MH 26/	0.00 /	236.06	STM MH 169/	0.00 /	239.87
STM MH 28/	0.00 /	235.10	STM MH 168/	0.00 /	240.23	STM MH 41/	0.01 /	239.31
PROP CB 39/	0.00 /	240.76	STM CBMH 19/	0.00 /	238.72	STM CBMH 250/	0.00 /	238.51
STM MH 134/	0.00 /	239.70	STM MH 135/	0.00 /	239.21	PROP DCB 62/	0.00 /	241.28
STM MH 256/	0.01 /	239.11	STM MH 85/	0.01 /	238.41	CULTEC 1/	0.00 /	238.83
STM MH 82/	0.00 /	239.73	CULTEC 2/	0.01 /	239.12	STM MH 83/	0.00 /	239.43
CAP 23/	0.00 /	241.36	STM MH 142/	0.00 /	239.05	CAP 14/	0.00 /	241.36
CAP 15/	0.00 /	241.36	CAP 16/	0.00 /	241.36	CAP 24/	0.00 /	241.36
CAP 22/	0.00 /	241.36	CAP 21/	0.00 /	241.36	CAP 20/	0.00 /	241.36
CAP 19/	0.00 /	241.36	CAP 18/	0.00 /	241.36	CAP 17/	0.00 /	241.36
CAP 13/	0.00 /	241.36	CAP 12/	0.00 /	241.36	CAP 11/	0.00 /	241.36
CAP 10/	0.00 /	241.36	CAP 9/	0.00 /	241.36	CAP 8/	0.00 /	241.36
CAP 7/	0.00 /	241.36	CAP 6/	0.00 /	241.36	CAP 5/	0.00 /	241.36
CAP 4/	0.00 /	241.36	CAP 3/	0.00 /	241.36	CAP 2/	0.00 /	241.36
CAP 1/	0.00 /	241.36	STM MH 141/	0.00 /	239.93	STM MH 42/	0.01 /	238.06
CULTEC 4/	0.00 /	234.84	STM MH 43/	0.01 /	235.51	STM MH 238/	0.00 /	237.93
STM MH 237/	0.00 /	238.20	STM MH 31/	0.01 /	232.50	STM MH 239/	0.00 /	234.15
STM MH 30/	0.01 /	233.24	STM MH 255/	0.00 /	232.18	Roof 1/	0.00 /	252.00
Roof 2/	0.00 /	252.00	Node117/	0.63 /	233.13	CB 4/	0.00 /	240.46
CB 3/	0.00 /	240.96	CB 2/	0.00 /	241.16	CB1/	0.00 /	241.17

0.00	Conduit/	FLOW	==> "*" Conduit uses the	normal flow option.
0.00	STM - (14) (STORM) /	0.00	STM - (15) (STORM) /	0.00
0.00	STM - (18) (STORM) /	0.00	STM - (19) (STORM) /	0.00
0.00	STM - (22) (STORM) /	0.00	STM - (24) (STORM) /	0.00
0.00	STM - (27) (STORM) /	0.00	STM - (28) (STORM) /	0.00
0.00	STM - (32) (STORM) /	0.00	STM - (33) (STORM) /	0.00
0.00	STM - (36) (STORM) /	0.00	STM - (37) (STORM) /	0.00
0.00	STM - (40) (STORM) /	0.00	STM - (41) (STORM) /	0.00
0.00	STM - (55) (STORM) /	0.00	STM - (56) (STORM) /	0.00
0.00	STM - (59) (STORM) /	0.00	ID*352/	0.00
0.00	STM - (63) (STORM) /	0.00	STM - (65) (STORM) /	0.00
0.00	STM - (67) (STORM) /	0.00	STM - (68) (STORM) /	0.00
0.00	STM - (70) (STORM) /	0.00	ID*365/	0.00
0.00	ID*368/	0.00	STM - (73) (STORM) /	0.00
0.00	STM - (75) (STORM) /	0.00	STM - (76) (STORM) /	0.00
0.00	ID*376/	0.00	STM - (78) (STORM) /	0.00
0.00	STM - (80) (STORM) /	0.00	ID*381/	0.00
0.00	ID*384/	0.00	STM - (83) (STORM) /	0.00
0.00	ID*388/	0.00	ID*390/	0.00
0.00	STM - (88) (STORM) /	0.00	STM - (89) (STORM) /	0.00
0.00	ID*397/	0.00	ID*398/	0.00
0.00			STM - (119) (STORM) /	0.00
0.00			STM - (120) (STORM) /	0.00

0.00	ID*401/	0.00	STM - (121) (STORM) /	0.00	STM - (130) (STORM) /	0.00	ID*409/
0.00	STM - (142) (STORM) /	0.00	STM - (143) (STORM) /	0.00	ID*412/	0.00	ID*413/
0.00	ID*414/	0.00	ID*415/	0.00	STM - (151) (STORM) /	0.00	STM - (152) (STORM) /
0.00	ID*418/	0.00	STM - (155) (STORM) /	0.00	STM - (158) (STORM) /	0.00	ID*421/
0.00	STM - (160) (STORM) /	0.00	ID*423/	0.00	STM - (161) (STORM) /	0.00	ID*425/
0.00	STM - (170) (STORM) /	0.00	ID*427/	0.00	Link116/	0.00	Link117/
0.00	Link118/	0.00	Link119/	0.00	Link122/	0.00	spill/
0.00	Roof Control/	0.00	Roof Control2/	0.00	Orifice 1/	0.00	FREE# 1/

Cycle 19500 Time 27 Hrs - 5.00 Min

Junction /	Depth /	Elevation	====>	"*" Junction is	Surcharged.				
STM MH 188/	0.00 /	244.62		STM MH 187/	0.00 /	246.68	STM MH 203/	0.00 /	245.93
STM MH 236/	0.00 /	245.32		STM MH 21/	0.00 /	238.12	STM MH 23/	0.00 /	237.26
STM MH 154/	0.00 /	237.00		STM MH 22/	0.00 /	237.42	CB 6/	0.00 /	241.39
STM MH 227/	0.00 /	240.77		STM MH 132/	0.00 /	241.18	STM MH 116/	0.00 /	240.98
STM MH 221/	0.00 /	237.67		STM MH 35/	0.00 /	240.44	STM MH 36/	0.00 /	240.17
STM MH 118/	0.00 /	240.28		STM MH 34/	0.00 /	240.90	STM MH 121/	0.00 /	240.80
STM MH 120/	0.00 /	240.70		STM MH 117/	0.00 /	240.02	STM MH 119/	0.00 /	240.55
STM MH 20/	0.00 /	238.34		STM MH 37/	0.00 /	239.87	STM MH 40/	0.01 /	239.49
STM MH 86/	0.01 /	240.89		STM MH 115/	0.01 /	240.04	STM MH 87/	0.01 /	240.24
STM MH 223/	0.00 /	240.91		STM MH 220/	0.00 /	237.90	STM MH 205/	0.00 /	239.98
STM MH 128/	0.00 /	239.51		STM MH 127/	0.00 /	240.08	STM MH 122/	0.00 /	240.73
STM MH 123/	0.00 /	240.64		STM MH 126/	0.00 /	240.22	STM MH 125/	0.00 /	240.38
STM MH 124/	0.00 /	240.50		STM MH 129/	0.00 /	239.37	STM MH 133/	0.00 /	239.06
STM MH 170/	0.00 /	236.80		STM MH 38/	0.00 /	239.79	STM MH 18/	0.00 /	238.89
STM MH 218/	0.00 /	240.28		STM MH 131/	0.00 /	239.29	STM MH 219/	0.00 /	239.23
STM MH 17/	0.00 /	239.15		STM MH 39/	0.00 /	239.61	STM MH 153/	0.00 /	236.68
STM MH 204/	0.00 /	240.52		CULTEC 5/	0.00 /	236.47	STM MH 27/	0.00 /	235.58
STM MH 228/	0.00 /	240.00		STM MH 26/	0.00 /	236.06	STM MH 169/	0.00 /	239.87
STM MH 28/	0.00 /	235.10		STM MH 168/	0.00 /	240.23	STM MH 41/	0.01 /	239.31
PROP CB 39/	0.00 /	240.76		STM CBMH 19/	0.00 /	238.72	STM CBMH 250/	0.00 /	238.51
STM MH 134/	0.00 /	239.70		STM MH 135/	0.00 /	239.21	PROP DCB 62/	0.00 /	241.28
STM MH 256/	0.01 /	239.11		STM MH 85/	0.01 /	238.41	CULTEC 1/	0.00 /	238.83
STM MH 82/	0.00 /	239.73		CULTEC 2/	0.01 /	239.12	STM MH 83/	0.00 /	239.43
CAP 23/	0.00 /	241.36		STM MH 142/	0.00 /	239.05	CAP 14/	0.00 /	241.36
CAP 15/	0.00 /	241.36		CAP 16/	0.00 /	241.36	CAP 24/	0.00 /	241.36
CAP 22/	0.00 /	241.36		CAP 21/	0.00 /	241.36	CAP 20/	0.00 /	241.36
CAP 19/	0.00 /	241.36		CAP 18/	0.00 /	241.36	CAP 17/	0.00 /	241.36
CAP 13/	0.00 /	241.36		CAP 12/	0.00 /	241.36	CAP 11/	0.00 /	241.36
CAP 10/	0.00 /	241.36		CAP 9/	0.00 /	241.36	CAP 8/	0.00 /	241.36
CAP 7/	0.00 /	241.36		CAP 6/	0.00 /	241.36	CAP 5/	0.00 /	241.36
CAP 4/	0.00 /	241.36		CAP 3/	0.00 /	241.36	CAP 2/	0.00 /	241.36
CAP 1/	0.00 /	241.36		STM MH 141/	0.00 /	239.93	STM MH 42/	0.01 /	238.06
CULTEC 4/	0.00 /	234.84		STM MH 43/	0.01 /	235.51	STM MH 238/	0.00 /	237.93
STM MH 237/	0.00 /	238.20		STM MH 31/	0.01 /	232.50	STM MH 239/	0.00 /	234.15
STM MH 30/	0.01 /	233.24		STM MH 255/	0.00 /	232.18	Roof 1/	0.00 /	252.00
Roof 2/	0.00 /	252.00		Node117/	0.63 /	233.13	CB 4/	0.00 /	240.46
CB 3/	0.00 /	240.96		CB 2/	0.00 /	241.16	CB1/	0.00 /	241.17

Conduit/	FLOW	====>	"*" Conduit uses the	normal flow option.				
STM - (14) (STORM) /	0.00	STM - (15) (STORM) /	0.00	STM - (16) (STORM) /	0.00	STM - (17) (STORM) /		
STM - (18) (STORM) /	0.00	STM - (19) (STORM) /	0.00	STM - (20) (STORM) /	0.00	STM - (21) (STORM) /		
STM - (22) (STORM) /	0.00	STM - (24) (STORM) /	0.00	STM - (25) (STORM) /	0.00	STM - (26) (STORM) /		
STM - (27) (STORM) /	0.00	STM - (28) (STORM) /	0.00	STM - (29) (STORM) /	0.00	STM - (30) (STORM) /		
STM - (32) (STORM) /	0.00	STM - (33) (STORM) /	0.00	STM - (34) (STORM) /	0.00	STM - (35) (STORM) /		
STM - (36) (STORM) /	0.00	STM - (37) (STORM) /	0.00	STM - (38) (STORM) /	0.00	STM - (39) (STORM) /		
STM - (40) (STORM) /	0.00	STM - (41) (STORM) /	0.00	STM - (53) (STORM) /	0.00	STM - (54) (STORM) /		
STM - (55) (STORM) /	0.00	STM - (56) (STORM) /	0.00	STM - (57) (STORM) /	0.00	STM - (58) (STORM) /		
STM - (59) (STORM) /	0.00	ID*352/	0.00	STM - (61) (STORM) /	0.00	STM - (62) (STORM) /		
STM - (63) (STORM) /	0.00	STM - (65) (STORM) /	0.00	STM - (66) (STORM) /	0.00	ID*359/		
STM - (67) (STORM) /	0.00	STM - (68) (STORM) /	0.00	ID*362/	0.00	STM - (69) (STORM) /		
STM - (70) (STORM) /	0.00	ID*365/	0.00	STM - (71) (STORM) /	0.00	STM - (72) (STORM) /		
ID*368/	0.00	STM - (73) (STORM) /	0.00	ID*370/	0.00	STM - (74) (STORM) /		
STM - (75) (STORM) /	0.00	STM - (76) (STORM) /	0.00	ID*374/	0.00	STM - (77) (STORM) /		
ID*376/	0.00	STM - (78) (STORM) /	0.00	ID*378/	0.00	STM - (79) (STORM) /		
STM - (80) (STORM) /	0.00	ID*381/	0.00	STM - (81) (STORM) /	0.00	STM - (82) (STORM) /		
ID*384/	0.00	STM - (83) (STORM) /	0.00	STM - (84) (STORM) /	0.00	ID*387/		
ID*388/	0.00	ID*390/	0.00	STM - (86) (STORM) /	0.00	STM - (87) (STORM) /		

0.00	STM - (88) (STORM) /	0.00	STM - (89) (STORM) /	0.00	STM - (95) (STORM) /	0.00	STM - (96) (STORM) /
0.00	ID*397/	0.00	ID*398/	0.00	STM - (119) (STORM) /	0.00	STM - (120) (STORM) /
0.00	ID*401/	0.00	STM - (121) (STORM) /	0.00	STM - (130) (STORM) /	0.00	ID*409/
0.00	STM - (142) (STORM) /	0.00	STM - (143) (STORM) /	0.00	ID*412/	0.00	ID*413/
0.00	ID*414/	0.00	ID*415/	0.00	STM - (151) (STORM) /	0.00	STM - (152) (STORM) /
0.00	ID*418/	0.00	STM - (155) (STORM) /	0.00	STM - (158) (STORM) /	0.00	ID*421/
0.00	STM - (160) (STORM) /	0.00	ID*423/	0.00	STM - (161) (STORM) /	0.00	ID*425/
0.00	STM - (170) (STORM) /	0.00	ID*427/	0.00	Link116/	0.00	Link117/
0.00	Link118/	0.00	Link119/	0.00	Link122/	0.00	spill/
0.00	Roof Control1/	0.00	Roof Control2/	0.00	Orifice 1/	0.00	FREE# 1/

Cycle 20000 Time 27 Hrs - 46.67 Min

Junction /	Depth /	Elevation	====>	"*" Junction is Surcharged.			
STM MH 188/	0.00 /	244.62		STM MH 187/	0.00 /	246.68	STM MH 203/ 0.00 / 245.93
STM MH 236/	0.00 /	245.32		STM MH 21/	0.00 /	238.12	STM MH 23/ 0.00 / 237.26
STM MH 154/	0.00 /	237.00		STM MH 22/	0.00 /	237.42	CB 6/ 0.00 / 241.39
STM MH 227/	0.00 /	240.77		STM MH 132/	0.00 /	241.18	STM MH 116/ 0.00 / 240.98
STM MH 221/	0.00 /	237.67		STM MH 35/	0.00 /	240.44	STM MH 36/ 0.00 / 240.17
STM MH 118/	0.00 /	240.28		STM MH 34/	0.00 /	240.90	STM MH 121/ 0.00 / 240.80
STM MH 120/	0.00 /	240.70		STM MH 117/	0.00 /	240.02	STM MH 119/ 0.00 / 240.55
STM MH 20/	0.00 /	238.34		STM MH 37/	0.00 /	239.87	STM MH 40/ 0.01 / 239.49
STM MH 86/	0.00 /	240.88		STM MH 115/	0.01 /	240.04	STM MH 87/ 0.00 / 240.23
STM MH 223/	0.00 /	240.91		STM MH 220/	0.00 /	237.90	STM MH 205/ 0.00 / 239.98
STM MH 128/	0.00 /	239.51		STM MH 127/	0.00 /	240.08	STM MH 122/ 0.00 / 240.73
STM MH 123/	0.00 /	240.64		STM MH 126/	0.00 /	240.22	STM MH 125/ 0.00 / 240.38
STM MH 124/	0.00 /	240.50		STM MH 129/	0.00 /	239.37	STM MH 133/ 0.00 / 239.06
STM MH 170/	0.00 /	236.80		STM MH 38/	0.00 /	239.79	STM MH 18/ 0.00 / 238.89
STM MH 218/	0.00 /	240.28		STM MH 131/	0.00 /	239.29	STM MH 219/ 0.00 / 239.23
STM MH 17/	0.00 /	239.15		STM MH 39/	0.00 /	239.61	STM MH 153/ 0.00 / 236.68
STM MH 204/	0.00 /	240.52		CULTEC 5/	0.00 /	236.47	STM MH 27/ 0.00 / 235.58
STM MH 228/	0.00 /	240.00		STM MH 26/	0.00 /	236.06	STM MH 169/ 0.00 / 239.87
STM MH 28/	0.00 /	235.10		STM MH 168/	0.00 /	240.23	STM MH 41/ 0.01 / 239.31
PROP CB 39/	0.00 /	240.76		STM CBMH 19/	0.00 /	238.72	STM CBMH 250/ 0.00 / 238.51
STM MH 134/	0.00 /	239.70		STM MH 135/	0.00 /	239.21	PROP DCB 62/ 0.00 / 241.28
STM MH 256/	0.01 /	239.11		STM MH 85/	0.01 /	238.41	CULTEC 1/ 0.00 / 238.83
STM MH 82/	0.00 /	239.73		CULTEC 2/	0.01 /	239.12	STM MH 83/ 0.00 / 239.43
CAP 23/	0.00 /	241.36		STM MH 142/	0.00 /	239.05	CAP 14/ 0.00 / 241.36
CAP 15/	0.00 /	241.36		CAP 16/	0.00 /	241.36	CAP 24/ 0.00 / 241.36
CAP 22/	0.00 /	241.36		CAP 21/	0.00 /	241.36	CAP 20/ 0.00 / 241.36
CAP 19/	0.00 /	241.36		CAP 18/	0.00 /	241.36	CAP 17/ 0.00 / 241.36
CAP 13/	0.00 /	241.36		CAP 12/	0.00 /	241.36	CAP 11/ 0.00 / 241.36
CAP 10/	0.00 /	241.36		CAP 9/	0.00 /	241.36	CAP 8/ 0.00 / 241.36
CAP 7/	0.00 /	241.36		CAP 6/	0.00 /	241.36	CAP 5/ 0.00 / 241.36
CAP 4/	0.00 /	241.36		CAP 3/	0.00 /	241.36	CAP 2/ 0.00 / 241.36
CAP 1/	0.00 /	241.36		STM MH 141/	0.00 /	239.93	STM MH 42/ 0.01 / 238.06
CULTEC 4/	0.00 /	234.84		STM MH 43/	0.01 /	235.51	STM MH 238/ 0.00 / 237.93
STM MH 237/	0.00 /	238.20		STM MH 31/	0.01 /	232.50	STM MH 239/ 0.00 / 234.15
STM MH 30/	0.00 /	233.24		STM MH 255/	0.00 /	232.18	Roof 1/ 0.00 / 252.00
Roof 2/	0.00 /	252.00		Node117/	0.63 /	233.13	CB 4/ 0.00 / 240.46
CB 3/	0.00 /	240.96		CB 2/	0.00 /	241.16	CB1/ 0.00 / 241.17

Conduit/	FLOW	====>	"*" Conduit uses the normal flow option.				
0.00	STM - (14) (STORM) /	0.00	STM - (15) (STORM) /	0.00	STM - (16) (STORM) /	0.00	STM - (17) (STORM) /
0.00	STM - (18) (STORM) /	0.00	STM - (19) (STORM) /	0.00	STM - (20) (STORM) /	0.00	STM - (21) (STORM) /
0.00	STM - (22) (STORM) /	0.00	STM - (24) (STORM) /	0.00	STM - (25) (STORM) /	0.00	STM - (26) (STORM) /
0.00	STM - (27) (STORM) /	0.00	STM - (28) (STORM) /	0.00	STM - (29) (STORM) /	0.00	STM - (30) (STORM) /
0.00	STM - (32) (STORM) /	0.00	STM - (33) (STORM) /	0.00	STM - (34) (STORM) /	0.00	STM - (35) (STORM) /
0.00	STM - (36) (STORM) /	0.00	STM - (37) (STORM) /	0.00	STM - (38) (STORM) /	0.00	STM - (39) (STORM) /
0.00	STM - (40) (STORM) /	0.00	STM - (41) (STORM) /	0.00	STM - (53) (STORM) /	0.00	STM - (54) (STORM) /
0.00	STM - (55) (STORM) /	0.00	STM - (56) (STORM) /	0.00	STM - (57) (STORM) /	0.00	STM - (58) (STORM) /
0.00	STM - (59) (STORM) /	0.00	ID*352/	0.00	STM - (61) (STORM) /	0.00	STM - (62) (STORM) /
0.00	STM - (63) (STORM) /	0.00	STM - (65) (STORM) /	0.00	STM - (66) (STORM) /	0.00	ID*359/
0.00	STM - (67) (STORM) /	0.00	STM - (68) (STORM) /	0.00	ID*362/	0.00	STM - (69) (STORM) /
0.00	STM - (70) (STORM) /	0.00	ID*365/	0.00	STM - (71) (STORM) /	0.00	STM - (72) (STORM) /
0.00	ID*368/	0.00	STM - (73) (STORM) /	0.00	ID*370/	0.00	STM - (74) (STORM) /
0.00	STM - (75) (STORM) /	0.00	STM - (76) (STORM) /	0.00	ID*374/	0.00	STM - (77) (STORM) /
0.00	ID*376/	0.00	STM - (78) (STORM) /	0.00	ID*378/	0.00	STM - (79) (STORM) /
0.00	STM - (80) (STORM) /	0.00	ID*381/	0.00	STM - (81) (STORM) /	0.00	STM - (82) (STORM) /

0.00	ID*384/	0.00	STM - (83) (STORM) /	0.00	STM - (84) (STORM) /	0.00	ID*387/
0.00	ID*388/	0.00	ID*390/	0.00	STM - (86) (STORM) /	0.00	STM - (87) (STORM) /
0.00	STM - (88) (STORM) /	0.00	STM - (89) (STORM) /	0.00	STM - (95) (STORM) /	0.00	STM - (96) (STORM) /
0.00	ID*397/	0.00	ID*398/	0.00	STM - (119) (STORM) /	0.00	STM - (120) (STORM) /
0.00	ID*401/	0.00	STM - (121) (STORM) /	0.00	STM - (130) (STORM) /	0.00	ID*409/
0.00	STM - (142) (STORM) /	0.00	STM - (143) (STORM) /	0.00	ID*412/	0.00	ID*413/
0.00	ID*414/	0.00	ID*415/	0.00	STM - (151) (STORM) /	0.00	STM - (152) (STORM) /
0.00	ID*418/	0.00	STM - (155) (STORM) /	0.00	STM - (158) (STORM) /	0.00	ID*421/
0.00	STM - (160) (STORM) /	0.00	ID*423/	0.00	STM - (161) (STORM) /	0.00	ID*425/
0.00	STM - (170) (STORM) /	0.00	ID*427/	0.00	Link116/	0.00	Link117/
0.00	Link118/	0.00	Link119/	0.00	Link122/	0.00	spill/
0.00	Roof Control/	0.00	Roof Control2/	0.00	Orifice 1/	0.00	FREE# 1/

Cycle 20500 Time 28 Hrs - 28.33 Min

Junction / Depth / Elevation	====>	"*" Junction is Surcharged.				
STM MH 188/ 0.00 / 244.62		STM MH 187/ 0.00 / 246.68		STM MH 203/ 0.00 / 245.93		
STM MH 236/ 0.00 / 245.32		STM MH 21/ 0.00 / 238.12		STM MH 23/ 0.00 / 237.26		
STM MH 154/ 0.00 / 237.00		STM MH 22/ 0.00 / 237.42		CB 6/ 0.00 / 241.39		
STM MH 227/ 0.00 / 240.77		STM MH 132/ 0.00 / 241.18		STM MH 116/ 0.00 / 240.98		
STM MH 221/ 0.00 / 237.67		STM MH 35/ 0.00 / 240.44		STM MH 36/ 0.00 / 240.17		
STM MH 118/ 0.00 / 240.28		STM MH 34/ 0.00 / 240.90		STM MH 121/ 0.00 / 240.80		
STM MH 120/ 0.00 / 240.70		STM MH 117/ 0.00 / 240.02		STM MH 119/ 0.00 / 240.55		
STM MH 20/ 0.00 / 238.34		STM MH 37/ 0.00 / 239.87		STM MH 40/ 0.01 / 239.49		
STM MH 86/ 0.00 / 240.88		STM MH 115/ 0.01 / 240.04		STM MH 87/ 0.00 / 240.23		
STM MH 223/ 0.00 / 240.91		STM MH 220/ 0.00 / 237.90		STM MH 205/ 0.00 / 239.98		
STM MH 128/ 0.00 / 239.51		STM MH 127/ 0.00 / 240.08		STM MH 122/ 0.00 / 240.73		
STM MH 123/ 0.00 / 240.64		STM MH 126/ 0.00 / 240.22		STM MH 125/ 0.00 / 240.38		
STM MH 124/ 0.00 / 240.50		STM MH 129/ 0.00 / 239.37		STM MH 133/ 0.00 / 239.06		
STM MH 170/ 0.00 / 236.80		STM MH 38/ 0.00 / 239.79		STM MH 18/ 0.00 / 238.89		
STM MH 218/ 0.00 / 240.28		STM MH 131/ 0.00 / 239.29		STM MH 219/ 0.00 / 239.23		
STM MH 17/ 0.00 / 239.15		STM MH 39/ 0.00 / 239.61		STM MH 153/ 0.00 / 236.68		
STM MH 204/ 0.00 / 240.52		CULTEC 5/ 0.00 / 236.47		STM MH 27/ 0.00 / 235.58		
STM MH 228/ 0.00 / 240.00		STM MH 26/ 0.00 / 236.06		STM MH 169/ 0.00 / 239.87		
STM MH 28/ 0.00 / 235.10		STM MH 168/ 0.00 / 240.23		STM MH 41/ 0.01 / 239.31		
PROP CB 39/ 0.00 / 240.76		STM CBMH 19/ 0.00 / 238.72		STM CBMH 250/ 0.00 / 238.51		
STM MH 134/ 0.00 / 239.70		STM MH 135/ 0.00 / 239.21		PROP DCB 62/ 0.00 / 241.28		
STM MH 256/ 0.01 / 239.11		STM MH 85/ 0.00 / 238.40		CULTEC 1/ 0.00 / 238.83		
STM MH 82/ 0.00 / 239.73		CULTEC 2/ 0.00 / 239.11		STM MH 83/ 0.00 / 239.43		
CAP 23/ 0.00 / 241.36		STM MH 142/ 0.00 / 239.05		CAP 14/ 0.00 / 241.36		
CAP 15/ 0.00 / 241.36		CAP 16/ 0.00 / 241.36		CAP 24/ 0.00 / 241.36		
CAP 22/ 0.00 / 241.36		CAP 21/ 0.00 / 241.36		CAP 20/ 0.00 / 241.36		
CAP 19/ 0.00 / 241.36		CAP 18/ 0.00 / 241.36		CAP 17/ 0.00 / 241.36		
CAP 13/ 0.00 / 241.36		CAP 12/ 0.00 / 241.36		CAP 11/ 0.00 / 241.36		
CAP 10/ 0.00 / 241.36		CAP 9/ 0.00 / 241.36		CAP 8/ 0.00 / 241.36		
CAP 7/ 0.00 / 241.36		CAP 6/ 0.00 / 241.36		CAP 5/ 0.00 / 241.36		
CAP 4/ 0.00 / 241.36		CAP 3/ 0.00 / 241.36		CAP 2/ 0.00 / 241.36		
CAP 1/ 0.00 / 241.36		STM MH 141/ 0.00 / 239.93		STM MH 42/ 0.01 / 238.06		
CULTEC 4/ 0.00 / 234.84		STM MH 43/ 0.01 / 235.51		STM MH 238/ 0.00 / 237.93		
STM MH 237/ 0.00 / 238.20		STM MH 31/ 0.01 / 232.50		STM MH 239/ 0.00 / 234.15		
STM MH 30/ 0.00 / 233.24		STM MH 255/ 0.00 / 232.18		Roof 1/ 0.00 / 252.00		
Roof 2/ 0.00 / 252.00		Node117/ 0.63 / 233.12		CB 4/ 0.00 / 240.46		
CB 3/ 0.00 / 240.96		CB 2/ 0.00 / 241.16		CB1/ 0.00 / 241.17		

Conduit/ FLOW	====>	"*" Conduit uses the normal flow option.				
STM - (14) (STORM) / 0.00		STM - (15) (STORM) / 0.00		STM - (16) (STORM) / 0.00		STM - (17) (STORM) / 0.00
STM - (18) (STORM) / 0.00		STM - (19) (STORM) / 0.00		STM - (20) (STORM) / 0.00		STM - (21) (STORM) / 0.00
STM - (22) (STORM) / 0.00		STM - (24) (STORM) / 0.00		STM - (25) (STORM) / 0.00		STM - (26) (STORM) / 0.00
STM - (27) (STORM) / 0.00		STM - (28) (STORM) / 0.00		STM - (29) (STORM) / 0.00		STM - (30) (STORM) / 0.00
STM - (32) (STORM) / 0.00		STM - (33) (STORM) / 0.00		STM - (34) (STORM) / 0.00		STM - (35) (STORM) / 0.00
STM - (36) (STORM) / 0.00		STM - (37) (STORM) / 0.00		STM - (38) (STORM) / 0.00		STM - (39) (STORM) / 0.00
STM - (40) (STORM) / 0.00		STM - (41) (STORM) / 0.00		STM - (53) (STORM) / 0.00		STM - (54) (STORM) / 0.00
STM - (55) (STORM) / 0.00		STM - (56) (STORM) / 0.00		STM - (57) (STORM) / 0.00		STM - (58) (STORM) / 0.00
STM - (59) (STORM) / 0.00		ID*352/ 0.00		STM - (61) (STORM) / 0.00		STM - (62) (STORM) / 0.00
STM - (63) (STORM) / 0.00		STM - (65) (STORM) / 0.00		STM - (66) (STORM) / 0.00		ID*359/ 0.00
STM - (67) (STORM) / 0.00		STM - (68) (STORM) / 0.00		ID*362/ 0.00		STM - (69) (STORM) / 0.00
STM - (70) (STORM) / 0.00		ID*365/ 0.00		STM - (71) (STORM) / 0.00		STM - (72) (STORM) / 0.00
ID*368/ 0.00		STM - (73) (STORM) / 0.00		ID*370/ 0.00		STM - (74) (STORM) / 0.00
STM - (75) (STORM) / 0.00		STM - (76) (STORM) / 0.00		ID*374/ 0.00		STM - (77) (STORM) / 0.00

0.00	ID*376/	0.00	STM - (78) (STORM) /	0.00	ID*378/	0.00	STM - (79) (STORM) /
0.00	STM - (80) (STORM) /	0.00	ID*381/	0.00	STM - (81) (STORM) /	0.00	STM - (82) (STORM) /
0.00	ID*384/	0.00	STM - (83) (STORM) /	0.00	STM - (84) (STORM) /	0.00	ID*387/
0.00	ID*388/	0.00	ID*390/	0.00	STM - (86) (STORM) /	0.00	STM - (87) (STORM) /
0.00	STM - (88) (STORM) /	0.00	STM - (89) (STORM) /	0.00	STM - (95) (STORM) /	0.00	STM - (96) (STORM) /
0.00	ID*397/	0.00	ID*398/	0.00	STM - (119) (STORM) /	0.00	STM - (120) (STORM) /
0.00	ID*401/	0.00	STM - (121) (STORM) /	0.00	STM - (130) (STORM) /	0.00	ID*409/
0.00	STM - (142) (STORM) /	0.00	STM - (143) (STORM) /	0.00	ID*412/	0.00	ID*413/
0.00	ID*414/	0.00	ID*415/	0.00	STM - (151) (STORM) /	0.00	STM - (152) (STORM) /
0.00	ID*418/	0.00	STM - (155) (STORM) /	0.00	STM - (158) (STORM) /	0.00	ID*421/
0.00	STM - (160) (STORM) /	0.00	ID*423/	0.00	STM - (161) (STORM) /	0.00	ID*425/
0.00	STM - (170) (STORM) /	0.00	ID*427/	0.00	Link116/	0.00	Link117/
0.00	Link118/	0.00	Link119/	0.00	Link122/	0.00	spill/
0.00	Roof Control/	0.00	Roof Control2/	0.00	Orifice 1/	0.00	FREE# 1/

Cycle 21000 Time 29 Hrs - 10.00 Min

Junction /	Depth /	Elevation	====>	"*" Junction is Surcharged.			
STM MH 188/	0.00 /	244.62		STM MH 187/	0.00 /	246.68	STM MH 203/
STM MH 236/	0.00 /	245.32		STM MH 21/	0.00 /	238.12	STM MH 23/
STM MH 154/	0.00 /	237.00		STM MH 22/	0.00 /	237.42	CB 6/
STM MH 227/	0.00 /	240.77		STM MH 132/	0.00 /	241.18	STM MH 116/
STM MH 221/	0.00 /	237.67		STM MH 35/	0.00 /	240.44	STM MH 36/
STM MH 118/	0.00 /	240.28		STM MH 34/	0.00 /	240.90	STM MH 121/
STM MH 120/	0.00 /	240.70		STM MH 117/	0.00 /	240.02	STM MH 119/
STM MH 20/	0.00 /	238.34		STM MH 37/	0.00 /	239.87	STM MH 40/
STM MH 86/	0.00 /	240.88		STM MH 115/	0.01 /	240.04	STM MH 87/
STM MH 223/	0.00 /	240.91		STM MH 220/	0.00 /	237.90	STM MH 205/
STM MH 128/	0.00 /	239.51		STM MH 127/	0.00 /	240.08	STM MH 122/
STM MH 123/	0.00 /	240.64		STM MH 126/	0.00 /	240.22	STM MH 125/
STM MH 124/	0.00 /	240.50		STM MH 129/	0.00 /	239.37	STM MH 133/
STM MH 170/	0.00 /	236.80		STM MH 38/	0.00 /	239.79	STM MH 18/
STM MH 218/	0.00 /	240.28		STM MH 131/	0.00 /	239.29	STM MH 219/
STM MH 17/	0.00 /	239.15		STM MH 39/	0.00 /	239.61	STM MH 153/
STM MH 204/	0.00 /	240.52		CULTEC 5/	0.00 /	236.47	STM MH 27/
STM MH 228/	0.00 /	240.00		STM MH 26/	0.00 /	236.06	STM MH 169/
STM MH 28/	0.00 /	235.10		STM MH 168/	0.00 /	240.23	STM MH 41/
PROP CB 39/	0.00 /	240.76		STM CBMH 19/	0.00 /	238.72	STM CBMH 250/
STM MH 134/	0.00 /	239.70		STM MH 135/	0.00 /	239.21	PROP DCB 62/
STM MH 256/	0.00 /	239.10		STM MH 85/	0.00 /	238.40	CULTEC 1/
STM MH 82/	0.00 /	239.73		CULTEC 2/	0.00 /	239.11	STM MH 83/
CAP 23/	0.00 /	241.36		STM MH 142/	0.00 /	239.05	CAP 14/
CAP 15/	0.00 /	241.36		CAP 16/	0.00 /	241.36	CAP 24/
CAP 22/	0.00 /	241.36		CAP 21/	0.00 /	241.36	CAP 20/
CAP 19/	0.00 /	241.36		CAP 18/	0.00 /	241.36	CAP 17/
CAP 13/	0.00 /	241.36		CAP 12/	0.00 /	241.36	CAP 11/
CAP 10/	0.00 /	241.36		CAP 9/	0.00 /	241.36	CAP 8/
CAP 7/	0.00 /	241.36		CAP 6/	0.00 /	241.36	CAP 5/
CAP 4/	0.00 /	241.36		CAP 3/	0.00 /	241.36	CAP 2/
CAP 1/	0.00 /	241.36		STM MH 141/	0.00 /	239.93	STM MH 42/
CULTEC 4/	0.00 /	234.84		STM MH 43/	0.01 /	235.51	STM MH 238/
STM MH 237/	0.00 /	238.20		STM MH 31/	0.00 /	232.50	STM MH 239/
STM MH 30/	0.00 /	233.24		STM MH 255/	0.00 /	232.18	Roof 1/
Roof 2/	0.00 /	252.00		Node117/	0.62 /	233.12	CB 4/
CB 3/	0.00 /	240.96		CB 2/	0.00 /	241.16	CB1/

Conduit/	FLOW	====>	"*" Conduit uses the	normal flow option.			
STM - (14) (STORM) /	0.00	STM - (15) (STORM) /	0.00	STM - (16) (STORM) /	0.00	STM - (17) (STORM) /	
STM - (18) (STORM) /	0.00	STM - (19) (STORM) /	0.00	STM - (20) (STORM) /	0.00	STM - (21) (STORM) /	
STM - (22) (STORM) /	0.00	STM - (24) (STORM) /	0.00	STM - (25) (STORM) /	0.00	STM - (26) (STORM) /	
STM - (27) (STORM) /	0.00	STM - (28) (STORM) /	0.00	STM - (29) (STORM) /	0.00	STM - (30) (STORM) /	
STM - (32) (STORM) /	0.00	STM - (33) (STORM) /	0.00	STM - (34) (STORM) /	0.00	STM - (35) (STORM) /	
STM - (36) (STORM) /	0.00	STM - (37) (STORM) /	0.00	STM - (38) (STORM) /	0.00	STM - (39) (STORM) /	
STM - (40) (STORM) /	0.00	STM - (41) (STORM) /	0.00	STM - (53) (STORM) /	0.00	STM - (54) (STORM) /	
STM - (55) (STORM) /	0.00	STM - (56) (STORM) /	0.00	STM - (57) (STORM) /	0.00	STM - (58) (STORM) /	
STM - (59) (STORM) /	0.00	ID*352/	0.00	STM - (61) (STORM) /	0.00	STM - (62) (STORM) /	
STM - (63) (STORM) /	0.00	STM - (65) (STORM) /	0.00	STM - (66) (STORM) /	0.00	ID*359/	
STM - (67) (STORM) /	0.00	STM - (68) (STORM) /	0.00	ID*362/	0.00	STM - (69) (STORM) /	
STM - (70) (STORM) /	0.00	ID*365/	0.00	STM - (71) (STORM) /	0.00	STM - (72) (STORM) /	

0.00	ID*368/	0.00	STM - (73) (STORM) /	0.00	ID*370/	0.00	STM - (74) (STORM) /
0.00	STM - (75) (STORM) /	0.00	STM - (76) (STORM) /	0.00	ID*374/	0.00	STM - (77) (STORM) /
0.00	ID*376/	0.00	STM - (78) (STORM) /	0.00	ID*378/	0.00	STM - (79) (STORM) /
0.00	STM - (80) (STORM) /	0.00	ID*381/	0.00	STM - (81) (STORM) /	0.00	STM - (82) (STORM) /
0.00	ID*384/	0.00	STM - (83) (STORM) /	0.00	STM - (84) (STORM) /	0.00	ID*387/
0.00	ID*388/	0.00	ID*390/	0.00	STM - (86) (STORM) /	0.00	STM - (87) (STORM) /
0.00	STM - (88) (STORM) /	0.00	STM - (89) (STORM) /	0.00	STM - (95) (STORM) /	0.00	STM - (96) (STORM) /
0.00	ID*397/	0.00	ID*398/	0.00	STM - (119) (STORM) /	0.00	STM - (120) (STORM) /
0.00	ID*401/	0.00	STM - (121) (STORM) /	0.00	STM - (130) (STORM) /	0.00	ID*409/
0.00	STM - (142) (STORM) /	0.00	STM - (143) (STORM) /	0.00	ID*412/	0.00	ID*413/
0.00	ID*414/	0.00	ID*415/	0.00	STM - (151) (STORM) /	0.00	STM - (152) (STORM) /
0.00	ID*418/	0.00	STM - (155) (STORM) /	0.00	STM - (158) (STORM) /	0.00	ID*421/
0.00	STM - (160) (STORM) /	0.00	ID*423/	0.00	STM - (161) (STORM) /	0.00	ID*425/
0.00	STM - (170) (STORM) /	0.00	ID*427/	0.00	Link116/	0.00	Link117/
0.00	Link118/	0.00	Link119/	0.00	Link122/	0.00	spill/
0.00	Roof Control1/	0.00	Roof Control2/	0.00	Orifice 1/	0.00	FREE# 1/

Cycle 21500 Time 29 Hrs - 51.67 Min

Junction / Depth / Elevation	====>	"*" Junction is Surcharged.			
STM MH 188/ 0.00 / 244.62		STM MH 187/ 0.00 / 246.68		STM MH 203/ 0.00 / 245.93	
STM MH 236/ 0.00 / 245.32		STM MH 21/ 0.00 / 238.12		STM MH 23/ 0.00 / 237.26	
STM MH 154/ 0.00 / 237.00		STM MH 22/ 0.00 / 237.42		CB 6/ 0.00 / 241.39	
STM MH 227/ 0.00 / 240.77		STM MH 132/ 0.00 / 241.18		STM MH 116/ 0.00 / 240.98	
STM MH 221/ 0.00 / 237.67		STM MH 35/ 0.00 / 240.44		STM MH 36/ 0.00 / 240.17	
STM MH 118/ 0.00 / 240.28		STM MH 34/ 0.00 / 240.90		STM MH 121/ 0.00 / 240.80	
STM MH 120/ 0.00 / 240.70		STM MH 117/ 0.00 / 240.02		STM MH 119/ 0.00 / 240.55	
STM MH 20/ 0.00 / 238.34		STM MH 37/ 0.00 / 239.87		STM MH 40/ 0.01 / 239.49	
STM MH 86/ 0.00 / 240.88		STM MH 115/ 0.01 / 240.04		STM MH 87/ 0.00 / 240.23	
STM MH 223/ 0.00 / 240.91		STM MH 220/ 0.00 / 237.90		STM MH 205/ 0.00 / 239.98	
STM MH 128/ 0.00 / 239.51		STM MH 127/ 0.00 / 240.08		STM MH 122/ 0.00 / 240.73	
STM MH 123/ 0.00 / 240.64		STM MH 126/ 0.00 / 240.22		STM MH 125/ 0.00 / 240.38	
STM MH 124/ 0.00 / 240.50		STM MH 129/ 0.00 / 239.37		STM MH 133/ 0.00 / 239.06	
STM MH 170/ 0.00 / 236.80		STM MH 38/ 0.00 / 239.79		STM MH 18/ 0.00 / 238.89	
STM MH 218/ 0.00 / 240.28		STM MH 131/ 0.00 / 239.29		STM MH 219/ 0.00 / 239.23	
STM MH 17/ 0.00 / 239.15		STM MH 39/ 0.00 / 239.61		STM MH 153/ 0.00 / 236.68	
STM MH 204/ 0.00 / 240.52		CULTEC 5/ 0.00 / 236.47		STM MH 27/ 0.00 / 235.58	
STM MH 228/ 0.00 / 240.00		STM MH 26/ 0.00 / 236.06		STM MH 169/ 0.00 / 239.87	
STM MH 28/ 0.00 / 235.10		STM MH 168/ 0.00 / 240.23		STM MH 41/ 0.01 / 239.31	
PROP CB 39/ 0.00 / 240.76		STM CBMH 19/ 0.00 / 238.72		STM CBMH 250/ 0.00 / 238.51	
STM MH 134/ 0.00 / 239.70		STM MH 135/ 0.00 / 239.21		PROP DCB 62/ 0.00 / 241.28	
STM MH 256/ 0.00 / 239.10		STM MH 85/ 0.00 / 238.40		CULTEC 1/ 0.00 / 238.83	
STM MH 82/ 0.00 / 239.73		CULTEC 2/ 0.00 / 239.11		STM MH 83/ 0.00 / 239.43	
CAP 23/ 0.00 / 241.36		STM MH 142/ 0.00 / 239.05		CAP 14/ 0.00 / 241.36	
CAP 15/ 0.00 / 241.36		CAP 16/ 0.00 / 241.36		CAP 24/ 0.00 / 241.36	
CAP 22/ 0.00 / 241.36		CAP 21/ 0.00 / 241.36		CAP 20/ 0.00 / 241.36	
CAP 19/ 0.00 / 241.36		CAP 18/ 0.00 / 241.36		CAP 17/ 0.00 / 241.36	
CAP 13/ 0.00 / 241.36		CAP 12/ 0.00 / 241.36		CAP 11/ 0.00 / 241.36	
CAP 10/ 0.00 / 241.36		CAP 9/ 0.00 / 241.36		CAP 8/ 0.00 / 241.36	
CAP 7/ 0.00 / 241.36		CAP 6/ 0.00 / 241.36		CAP 5/ 0.00 / 241.36	
CAP 4/ 0.00 / 241.36		CAP 3/ 0.00 / 241.36		CAP 2/ 0.00 / 241.36	
CAP 1/ 0.00 / 241.36		STM MH 141/ 0.00 / 239.93		STM MH 42/ 0.00 / 238.05	
CULTEC 4/ 0.00 / 234.84		STM MH 43/ 0.00 / 235.51		STM MH 238/ 0.00 / 237.93	
STM MH 237/ 0.00 / 238.20		STM MH 31/ 0.00 / 232.50		STM MH 239/ 0.00 / 234.15	
STM MH 30/ 0.00 / 233.24		STM MH 255/ 0.00 / 232.18		Roof 1/ 0.00 / 252.00	
Roof 2/ 0.00 / 252.00		Node117/ 0.62 / 233.12		CB 4/ 0.00 / 240.46	
CB 3/ 0.00 / 240.96		CB 2/ 0.00 / 241.16		CB1/ 0.00 / 241.17	

Conduit/	FLOW	====>	"*" Conduit uses the normal flow option.			
STM - (14) (STORM) /	0.00	STM - (15) (STORM) /	0.00	STM - (16) (STORM) /	0.00	STM - (17) (STORM) /
0.00		0.00		0.00		0.00
STM - (18) (STORM) /	0.00	STM - (19) (STORM) /	0.00	STM - (20) (STORM) /	0.00	STM - (21) (STORM) /
0.00		0.00		0.00		0.00
STM - (22) (STORM) /	0.00	STM - (24) (STORM) /	0.00	STM - (25) (STORM) /	0.00	STM - (26) (STORM) /
0.00		0.00		0.00		0.00
STM - (27) (STORM) /	0.00	STM - (28) (STORM) /	0.00	STM - (29) (STORM) /	0.00	STM - (30) (STORM) /
0.00		0.00		0.00		0.00
STM - (32) (STORM) /	0.00	STM - (33) (STORM) /	0.00	STM - (34) (STORM) /	0.00	STM - (35) (STORM) /
0.00		0.00		0.00		0.00
STM - (36) (STORM) /	0.00	STM - (37) (STORM) /	0.00	STM - (38) (STORM) /	0.00	STM - (39) (STORM) /
0.00		0.00		0.00		0.00
STM - (40) (STORM) /	0.00	STM - (41) (STORM) /	0.00	STM - (53) (STORM) /	0.00	STM - (54) (STORM) /
0.00		0.00		0.00		0.00
STM - (55) (STORM) /	0.00	STM - (56) (STORM) /	0.00	STM - (57) (STORM) /	0.00	STM - (58) (STORM) /
0.00		0.00		0.00		0.00
STM - (59) (STORM) /	0.00	ID*352/	0.00	STM - (61) (STORM) /	0.00	STM - (62) (STORM) /
0.00				0.00		0.00
STM - (63) (STORM) /	0.00	STM - (65) (STORM) /	0.00	STM - (66) (STORM) /	0.00	ID*359/
0.00		0.00		0.00		0.00

0.00	STM - (67) (STORM) /	0.00	STM - (68) (STORM) /	0.00	ID*362/	0.00	STM - (69) (STORM) /
0.00	STM - (70) (STORM) /	0.00	ID*365/	0.00	STM - (71) (STORM) /	0.00	STM - (72) (STORM) /
0.00	ID*368/	0.00	STM - (73) (STORM) /	0.00	ID*370/	0.00	STM - (74) (STORM) /
0.00	STM - (75) (STORM) /	0.00	STM - (76) (STORM) /	0.00	ID*374/	0.00	STM - (77) (STORM) /
0.00	ID*376/	0.00	STM - (78) (STORM) /	0.00	ID*378/	0.00	STM - (79) (STORM) /
0.00	STM - (80) (STORM) /	0.00	ID*381/	0.00	STM - (81) (STORM) /	0.00	STM - (82) (STORM) /
0.00	ID*384/	0.00	STM - (83) (STORM) /	0.00	STM - (84) (STORM) /	0.00	ID*387/
0.00	ID*388/	0.00	ID*390/	0.00	STM - (86) (STORM) /	0.00	STM - (87) (STORM) /
0.00	STM - (88) (STORM) /	0.00	STM - (89) (STORM) /	0.00	STM - (95) (STORM) /	0.00	STM - (96) (STORM) /
0.00	ID*397/	0.00	ID*398/	0.00	STM - (119) (STORM) /	0.00	STM - (120) (STORM) /
0.00	ID*401/	0.00	STM - (121) (STORM) /	0.00	STM - (130) (STORM) /	0.00	ID*409/
0.00	STM - (142) (STORM) /	0.00	STM - (143) (STORM) /	0.00	ID*412/	0.00	ID*413/
0.00	ID*414/	0.00	ID*415/	0.00	STM - (151) (STORM) /	0.00	STM - (152) (STORM) /
0.00	ID*418/	0.00	STM - (155) (STORM) /	0.00	STM - (158) (STORM) /	0.00	ID*421/
0.00	STM - (160) (STORM) /	0.00	ID*423/	0.00	STM - (161) (STORM) /	0.00	ID*425/
0.00	STM - (170) (STORM) /	0.00	ID*427/	0.00	Link116/	0.00	Link117/
0.00	Link118/	0.00	Link119/	0.00	Link122/	0.00	spill/
0.00	Roof Control1/	0.00	Roof Control2/	0.00	Orifice 1/	0.00	FREE# 1/

```

*****
| Table E5 - Junction Time Limitation Summary |
| (0.10 or 0.25)* Depth * Area |
| Time step = ----- |
| Sum of Flow |
*****
| The time this junction was the limiting junction |
| is listed in the third column. |
*****

```

Junction	Time(.10)	Time(.25)	Time(sec)
STM MH 188	4.70	11.76	8195.0
STM MH 187	2.20	5.49	30.0
STM MH 203	2.91	7.27	5.0
STM MH 236	2.96	7.39	15.0
STM MH 21	0.97	2.42	0.0
STM MH 23	0.90	2.25	5.0
STM MH 154	2.06	5.16	0.0
STM MH 22	1.30	3.26	0.0
CB 6	0.52	1.31	20.0
STM MH 227	1.25	3.13	115.0
STM MH 132	2.61	6.52	10.0
STM MH 116	50.00	50.00	0.0
STM MH 221	0.83	2.07	5.0
STM MH 35	11.30	28.26	0.0
STM MH 36	11.25	28.11	0.0
STM MH 118	13.08	32.70	0.0
STM MH 34	12.87	32.18	0.0
STM MH 121	18.44	46.10	0.0
STM MH 120	17.07	42.67	0.0
STM MH 117	13.01	32.52	0.0
STM MH 119	14.36	35.90	0.0
STM MH 20	0.77	1.93	5.0
STM MH 37	21.79	50.00	0.0
STM MH 40	36.71	50.00	0.0
STM MH 86	50.00	50.00	0.0
STM MH 115	25.83	50.00	0.0
STM MH 87	29.67	50.00	0.0
STM MH 223	0.90	2.25	5.0
STM MH 220	0.50	1.26	10.0
STM MH 205	2.07	5.19	75.0
STM MH 128	1.04	2.60	5.0
STM MH 127	1.32	3.30	10.0
STM MH 122	1.66	4.16	5.0
STM MH 123	2.00	5.01	5.0
STM MH 126	2.48	6.20	0.0
STM MH 125	2.07	5.19	5.0
STM MH 124	2.25	5.63	5.0
STM MH 129	1.19	2.97	5.0
STM MH 133	1.21	3.02	10.0
STM MH 170	2.06	5.15	70.0
STM MH 38	21.69	50.00	0.0
STM MH 18	0.25	0.64	10.0
STM MH 218	2.32	5.79	70.0
STM MH 131	0.78	1.94	5.0
STM MH 219	0.61	1.53	0.0

STM MH 17	0.41	1.02	5.0
STM MH 39	30.23	50.00	0.0
STM MH 153	2.64	6.59	5.0
STM MH 204	1.60	4.01	215.0
CULTEC 5	1.26	3.15	5.0
STM MH 27	6.76	16.91	0.0
STM MH 228	1.63	4.07	15.0
STM MH 26	2.50	6.25	850.0
STM MH 169	50.00	50.00	0.0
STM MH 28	2.23	5.58	0.0
STM MH 168	50.00	50.00	0.0
STM MH 41	50.00	50.00	0.0
PROP CB 39	50.00	50.00	0.0
STM CBMH 19	1.30	3.26	0.0
STM CBMH 250	0.78	1.95	0.0
STM MH 134	0.42	1.04	555.0
STM MH 135	0.42	1.05	25.0
PROP DCB 62	50.00	50.00	0.0
STM MH 256	0.81	2.03	5.0
STM MH 85	0.63	1.57	5.0
CULTEC 1	0.27	0.68	25.0
STM MH 82	1.24	3.09	5.0
CULTEC 2	0.24	0.61	5.0
STM MH 83	0.59	1.47	1820.0
CAP 23	2.48	6.19	5.0
STM MH 142	10.85	27.12	0.0
CAP 14	1.84	4.60	15.0
CAP 15	1.66	4.15	5.0
CAP 16	1.88	4.70	0.0
CAP 24	2.93	7.31	0.0
CAP 22	0.81	2.03	35.0
CAP 21	1.00	2.50	525.0
CAP 20	2.75	6.87	0.0
CAP 19	2.11	5.28	0.0
CAP 18	2.23	5.59	0.0
CAP 17	1.85	4.62	10.0
CAP 13	50.00	50.00	0.0
CAP 12	50.00	50.00	0.0
CAP 11	50.00	50.00	0.0
CAP 10	50.00	50.00	0.0
CAP 9	50.00	50.00	0.0
CAP 8	50.00	50.00	0.0
CAP 7	50.00	50.00	0.0
CAP 6	50.00	50.00	0.0
CAP 5	50.00	50.00	0.0
CAP 4	50.00	50.00	0.0
CAP 3	50.00	50.00	0.0
CAP 2	50.00	50.00	0.0
CAP 1	50.00	50.00	0.0
STM MH 141	9.73	24.32	0.0
STM MH 42	1.23	3.07	0.0
CULTEC 4	0.50	1.25	10.0
STM MH 43	2.16	5.40	15.0
STM MH 238	50.00	50.00	0.0
STM MH 237	50.00	50.00	0.0
STM MH 31	50.00	50.00	0.0
STM MH 239	1.07	2.69	0.0
STM MH 30	1.21	3.02	340.0
STM MH 255	50.00	50.00	0.0
Roof 1	50.00	50.00	0.0
Roof 2	50.00	50.00	0.0
Node117	0.94	2.35	92310.0
CB 4	2.17	5.42	60.0
CB 3	4.09	10.22	0.0
CB 2	2.00	4.99	2415.0
CB1	2.59	6.48	15.0

The junction requiring the smallest time step was...Node117

```

*****
| Table E5a - Conduit Explicit Condition Summary |
| Courant = Conduit Length |
| Time step = ----- |
| Velocity + sqrt(g*depth) |
| |
| Conduit Implicit Condition Summary |
| Courant = Conduit Length |
| Time step = ----- |
| Velocity |
|-----|
| The 3rd column is the Explicit time step times the |
| minimum courant time step factor |
| |
| Minimum Conduit Time Step in seconds in the 4th column |
| in the list. Maximum possible is 10 * maximum time step |
| |
| The 5th column is the maximum change at any time step |
| during the simulation. The 6th column is the wobble |
| value which is an indicator of the flow stability. |
| |
| You should use this section to find those conduits that |
| are slowing your model down. Use modify conduits to |
| alter the length of the slow conduits to make your |
| simulation faster, or change the conduit name to |
| "CHME?????" where ????? are any characters, this will |

```

| lengthen the conduit based on the model time step, |
 | not the value listed in modify conduits. |

Conduit	Time(exp)	Expl*Cmin	Time(imp)	Time(min)	Max Qchange	Wobble	Type of Soln
STM - (14) (STORM)	6.24	6.24	28.63	96.4	-0.026	3.896	Normal Soln
STM - (15) (STORM)	5.41	5.41	28.85	0.0	-0.017	3.522	Normal Soln
STM - (16) (STORM)	3.19	3.19	16.95	0.0	0.010	2.923	Normal Soln
STM - (17) (STORM)	6.94	6.94	34.71	0.0	-0.016	2.589	Normal Soln
STM - (18) (STORM)	8.82	8.82	46.60	0.0	-0.033	2.433	Normal Soln
STM - (19) (STORM)	7.52	7.52	41.27	0.0	-0.017	2.291	Normal Soln
STM - (20) (STORM)	8.31	8.31	34.03	0.0	-0.026	2.714	Normal Soln
STM - (21) (STORM)	2.31	2.31	8.98	0.0	-0.011	2.326	Normal Soln
STM - (22) (STORM)	5.67	5.67	21.89	0.0	-0.010	2.224	Normal Soln
STM - (24) (STORM)	13.02	13.02	50.00	0.0	-0.012	1.693	Normal Soln
STM - (25) (STORM)	12.72	12.72	50.00	0.0	0.013	1.945	Normal Soln
STM - (26) (STORM)	12.42	12.42	50.00	0.0	0.031	2.395	Normal Soln
STM - (27) (STORM)	10.51	10.51	44.69	0.0	0.033	3.303	Normal Soln
STM - (28) (STORM)	7.49	7.49	27.72	0.0	-0.033	2.919	Normal Soln
STM - (29) (STORM)	2.90	2.90	9.02	0.0	-0.026	2.782	Normal Soln
STM - (30) (STORM)	1.98	1.98	4.48	19.3	0.005	1.260	Normal Soln
STM - (32) (STORM)	6.19	6.19	26.62	0.0	-0.001	0.753	Normal Soln
STM - (33) (STORM)	9.00	9.00	36.30	0.0	0.001	1.466	Normal Soln
STM - (34) (STORM)	6.13	6.13	24.74	0.0	0.001	1.867	Normal Soln
STM - (35) (STORM)	3.79	3.79	14.21	0.0	0.002	1.865	Normal Soln
STM - (36) (STORM)	8.86	8.86	32.95	0.0	0.002	1.856	Normal Soln
STM - (37) (STORM)	5.03	5.03	16.83	0.0	0.002	2.193	Normal Soln
STM - (38) (STORM)	9.81	9.81	26.20	0.0	0.002	2.928	Normal Soln
STM - (39) (STORM)	12.88	12.88	39.37	0.0	-0.007	3.209	Normal Soln
STM - (40) (STORM)	11.59	11.59	28.43	0.0	0.007	1.526	Normal Soln
STM - (41) (STORM)	9.73	9.73	29.39	0.0	-0.015	1.871	Normal Soln
STM - (53) (STORM)	13.91	13.91	49.79	0.0	0.006	3.159	Normal Soln
STM - (54) (STORM)	13.94	13.94	41.60	0.0	0.005	3.830	Normal Soln
STM - (55) (STORM)	13.77	13.77	45.48	0.0	0.005	3.502	Normal Soln
STM - (56) (STORM)	8.11	8.11	27.04	0.0	0.006	2.708	Normal Soln
STM - (57) (STORM)	28.43	28.43	50.00	0.0	-0.000	0.741	Normal Soln
STM - (58) (STORM)	8.50	8.50	23.61	0.0	0.000	0.925	Normal Soln
STM - (59) (STORM)	6.77	6.77	11.00	0.0	0.000	0.713	Normal Soln
ID*352	14.94	14.94	38.95	0.0	0.000	1.558	Normal Soln
STM - (61) (STORM)	6.76	6.76	10.71	0.0	0.000	0.438	Normal Soln
STM - (62) (STORM)	7.34	7.34	11.65	0.0	-0.001	0.298	Normal Soln
STM - (63) (STORM)	9.27	9.27	14.70	0.0	-0.001	0.353	Normal Soln
STM - (65) (STORM)	3.13	3.13	4.78	0.0	0.001	0.215	Normal Soln
STM - (66) (STORM)	4.44	4.44	7.04	0.0	-0.001	0.395	Normal Soln
ID*359	9.28	9.28	34.66	0.0	0.001	2.056	Normal Soln
STM - (67) (STORM)	7.40	7.40	12.17	0.0	-0.000	0.202	Normal Soln
STM - (68) (STORM)	6.55	6.55	11.34	0.0	-0.001	0.240	Normal Soln
ID*362	6.75	6.75	29.23	0.0	0.001	1.672	Normal Soln
STM - (69) (STORM)	6.38	6.38	11.39	0.0	-0.001	0.239	Normal Soln
STM - (70) (STORM)	6.23	6.23	10.98	0.0	-0.001	0.276	Normal Soln
ID*365	7.44	7.44	31.23	0.0	0.001	1.691	Normal Soln
STM - (71) (STORM)	6.30	6.30	12.07	0.0	-0.001	0.237	Normal Soln
STM - (72) (STORM)	6.11	6.11	12.43	0.0	0.000	0.268	Normal Soln
ID*368	7.94	7.94	31.44	0.0	-0.001	1.386	Normal Soln
STM - (73) (STORM)	6.19	6.19	12.16	0.0	-0.000	0.226	Normal Soln
ID*370	7.67	7.67	32.99	0.0	-0.001	1.032	Normal Soln
STM - (74) (STORM)	6.28	6.28	12.97	0.0	-0.000	0.187	Normal Soln
STM - (75) (STORM)	6.85	6.85	23.18	0.0	-0.012	1.545	Normal Soln
STM - (76) (STORM)	4.25	4.25	26.01	0.0	-0.011	4.203	Normal Soln
ID*374	4.99	4.99	27.26	0.0	-0.008	4.221	Normal Soln
STM - (77) (STORM)	6.82	6.82	22.83	0.0	-0.012	1.306	Normal Soln
ID*376	5.15	5.15	21.44	0.0	-0.014	4.226	Normal Soln
STM - (78) (STORM)	6.55	6.55	19.50	0.0	0.006	1.083	Normal Soln
ID*378	6.02	6.02	24.29	0.0	-0.020	4.303	Normal Soln
STM - (79) (STORM)	6.40	6.40	18.02	0.0	0.007	1.036	Normal Soln
STM - (80) (STORM)	6.09	6.09	15.72	0.0	0.004	0.914	Normal Soln
ID*381	4.25	4.25	17.48	0.0	0.021	4.071	Normal Soln
STM - (81) (STORM)	5.99	5.99	15.22	0.0	-0.004	0.768	Normal Soln
STM - (82) (STORM)	5.84	5.84	14.39	0.0	0.005	0.814	Normal Soln
ID*384	2.48	2.48	12.23	0.0	-0.011	3.705	Normal Soln
STM - (83) (STORM)	5.92	5.92	14.90	0.0	0.010	1.178	Normal Soln
STM - (84) (STORM)	6.00	6.00	15.61	0.0	-0.025	1.264	Normal Soln
ID*387	2.16	2.16	10.36	43.1	-0.010	3.588	Normal Soln
ID*388	6.89	6.89	22.37	0.0	-0.005	1.647	Normal Soln
ID*390	5.50	5.50	27.07	0.0	-0.027	2.689	Normal Soln
STM - (86) (STORM)	5.38	5.38	10.48	0.0	0.003	0.730	Normal Soln
STM - (87) (STORM)	18.85	18.85	50.00	0.0	0.005	2.721	Normal Soln
STM - (88) (STORM)	13.59	13.59	45.54	0.0	-0.024	3.234	Normal Soln
STM - (89) (STORM)	15.02	15.02	50.00	0.0	0.030	3.431	Normal Soln
STM - (95) (STORM)	20.01	20.01	46.77	0.0	-0.002	1.669	Normal Soln
STM - (96) (STORM)	17.63	17.63	40.59	0.0	-0.002	2.184	Normal Soln
ID*397	8.31	8.31	29.30	0.0	0.031	3.128	Normal Soln
ID*398	4.70	4.70	20.46	0.0	0.016	1.993	Normal Soln
STM - (119) (STORM)	17.00	17.00	38.41	0.0	-0.001	0.484	Normal Soln
STM - (120) (STORM)	19.41	19.41	43.10	0.0	-0.002	1.257	Normal Soln
ID*401	2.58	2.58	9.71	0.0	0.021	2.391	Normal Soln
STM - (121) (STORM)	10.37	10.37	22.55	0.0	-0.001	1.718	Normal Soln
STM - (130) (STORM)	15.11	15.11	47.47	0.0	-0.002	1.790	Normal Soln
ID*409	10.44	10.44	31.78	0.0	0.002	1.918	Normal Soln
STM - (142) (STORM)	10.31	10.31	50.00	0.0	-0.017	5.010	Normal Soln
STM - (143) (STORM)	14.77	14.77	50.00	0.0	0.010	4.840	Normal Soln
ID*412	14.47	14.47	50.00	0.0	-0.013	4.914	Normal Soln
ID*413	2.86	2.86	16.38	0.0	-0.009	2.784	Normal Soln
ID*414	8.92	8.92	35.75	0.0	0.007	2.628	Normal Soln

ID*415	8.62	8.62	33.97	0.0	-0.009	2.650	Normal Soln
STM - (151) (STORM)	13.16	13.16	50.00	0.0	0.005	3.255	Normal Soln
STM - (152) (STORM)	5.59	5.59	35.25	0.0	0.009	3.912	Normal Soln
ID*418	11.99	11.99	50.00	0.0	-0.007	3.142	Normal Soln
STM - (155) (STORM)	17.29	17.29	50.00	0.0	0.006	1.898	Normal Soln
STM - (158) (STORM)	50.00	50.00	50.00	0.0	0.000	0.000	Normal Soln
ID*421	9.79	9.79	28.46	0.0	-0.003	2.135	Normal Soln
STM - (160) (STORM)	9.10	9.10	23.10	0.0	-0.000	0.246	Normal Soln
ID*423	4.09	4.09	15.14	0.0	-0.031	2.064	Normal Soln
STM - (161) (STORM)	16.75	16.75	34.59	0.0	-0.001	1.636	Normal Soln
ID*425	6.77	6.77	38.33	0.0	-0.009	2.494	Normal Soln
STM - (170) (STORM)	2.51	2.51	5.18	1641.2	-0.018	1.343	Normal Soln
ID*427	10.80	10.80	26.72	0.0	-0.006	1.856	Normal Soln
Link116	5.26	5.26	19.72	0.0	-0.006	6.624	Normal Soln
Link117	6.31	6.31	19.91	0.0	-0.005	4.795	Normal Soln
Link118	6.07	6.07	19.86	0.0	-0.004	4.709	Normal Soln
Link119	5.52	5.52	20.44	0.0	0.014	5.842	Normal Soln
Link122	10.68	10.68	26.00	0.0	-0.002	2.788	Normal Soln
spill	23.62	23.62	50.00	0.0	0.002	2.750	Normal Soln
Roof Control	50.00	50.00	50.00	0.0	0.000	0.000	Special Cnd
Roof Control2	50.00	50.00	50.00	0.0	0.000	0.000	Special Cnd
Orifice 1	25.63	25.63	50.00	0.0	-0.010	3.737	Normal Soln

The conduit with the smallest time step limitation was..STM - (170) (STORM)
The conduit with the largest wobble was.....Link116
The conduit with the largest flow change in any consecutive time step.....STM - (28) (STORM)

* End of time step DO-loop in Runoff *

Final Date (Mo/Day/Year) = 1/ 1/2022
Total number of time steps = 360
Final Julian Date = 2022001
Final time of day = 21600. seconds.
Final time of day = 6.00 hours.
Final running time = 6.0000 hours.
Final running time = 0.2500 days.

* Extrapolation Summary for Watersheds *
* Explains the number of time steps and iterations *
* used in the solution of the subcatchments. *
* # Steps ==> Total Number of Extrapolated Steps *
* # Calls ==> Total Number of OVERLND Calls *

Calls	Subcatchment	# Steps	# Calls	Subcatchment	# Steps	# Calls	Subcatchment	# Steps	#
650	STM MH 187#1	3334	650	STM MH 203#1	3362	650	STM MH 236#1	3606	
786	STM MH 188#1	3558	650	CAP 23#1	3921	787	CAP 14#1	3966	
650	CB 6#1	3574	650	CB1#1	3662	650	CB 2#1	3410	
788	CAP 15#1	3987	785	CAP 16#1	3913	787	CAP 17#1	3904	
789	CAP 18#1	3854	790	CB 3#1	3402	650	CAP 19#1	3887	
650	CAP 20#1	3887	789	STM MH 204#1	3542	650	STM MH 218#1	3466	
650	CB 4#1	3402	650	CAP 21#1	3937	787	STM MH 129#1	3630	
800	CAP 22#1	4023	785	STM MH 17#1	3630	650	CAP 24#1	3368	
650	STM MH 18#1	3662	650	STM CBMH 250#1	3646	650	STM MH 20#1	3654	
0	STM MH 21#1	0	0	STM MH 220#1	0	0	STM MH 221#1	0	
650	STM MH 23#1	0	0	PROP CB 39#1	3630	650	STM MH 168#1	3410	
650	STM MH 169#1	3474	650	STM MH 153#1	3378	650	CULTEC 5#1	3526	
650	STM MH 26#1	3342	650	STM MH 27#1	3346	650	STM MH 28#1	3442	
650	STM MH 141#1	2962	650	STM MH 142#1	2974	650	STM MH 237#1	3638	
650	STM MH 238#1	3386	650	STM MH 227#1	3630	650	STM MH 228#1	2814	
650	STM MH 82#1	2966	650	STM MH 83#1	3358	650	CULTEC 2#1	3358	
650	STM MH 134#1	3006	650	STM MH 135#1	3178	650	CULTEC 1#1	3434	
789	STM MH 85#1	3434	650	CAP 5#1	3718	794	CAP 7#1	3887	
787	CAP 9#1	3854	790	CAP 10#1	3908	788	CAP 11#1	3921	
789	CAP 13#1	3883	789	CAP 12#1	3987	785	CAP 8#1	3887	
650	CAP 6#1	3937	787	CAP 4#1	3787	793	Roof 2#1	2346	
650	Roof 1#1	2342	650	CAP 3#1	3824	792	STM MH 42#1	3174	

 # Rainfall input summary from Runoff Continuity Check #
 #####

Total rainfall read for gage # 1 is 79.91 mm
 Total rainfall duration for gage # 1 is 345.00 minutes

 * Table R5. CONTINUITY CHECK FOR SURFACE WATER *
 * Any continuity error can be fixed by lowering the *
 * wet and transition time step. The transition time *
 * should not be much greater than the wet time step. *

	cubic meters	Millimeters over Total Basin
Total Precipitation (Rain plus Snow)	2.977194E+04	79.908
Total Infiltration	5.089023E+03	13.659
Total Evaporation	2.677964E+02	0.719
Surface Runoff from Watersheds	2.397298E+04	64.343
Total Water remaining in Surface Storage	4.488923E+02	1.205
Infiltration over the Pervious Area...	5.089023E+03	77.128

Infiltration + Evaporation + Surface Runoff + Snow removal + Water remaining in Surface Storage + Water remaining in Snow Cover.....	2.977869E+04	79.926
Total Precipitation + Initial Storage.	2.977194E+04	79.908

The error in continuity is calculated as

 * Precipitation + Initial Snow Cover *
 * - Infiltration - *
 *Evaporation - Snow removal - *
 *Surface Runoff from Watersheds - *
 *Water in Surface Storage - *
 *Water remaining in Snow Cover *

 * Precipitation + Initial Snow Cover *

 Percent Continuity Error..... -0.0227

 * Table R6. Continuity Check for Channel/Pipes *
 * You should have zero continuity error *
 * if you are not using runoff hydraulics *

	cubic meters	Millimeters over Total Basin
Initial Channel/Pipe Storage.....	0.000000E+00	0.000
Final Channel/Pipe Storage.....	0.000000E+00	0.000
Surface Runoff from Watersheds.....	2.397298E+04	64.343
Groundwater Subsurface Inflow or Diversion..	0.000000E+00	0.000
Evaporation Loss from Channels.....	0.000000E+00	0.000
Groundwater Flow Diverted Out of Network...	0.000000E+00	0.000
Channel/Pipe/Inlet Outflow.....	2.397298E+04	64.343
Initial Storage + Inflow.....	2.397298E+04	64.343
Final Storage + Outflow + Diverted GW.....	2.397298E+04	64.343

* Final Storage + Outflow + Evaporation - *		
* Watershed Runoff - Groundwater Inflow - *		
* Initial Channel/Pipe Storage *		
* ----- *		
* Final Storage + Outflow + Evaporation *		

Percent Continuity Error.....		0.0000

 # Table R9. Summary Statistics for Subcatchments #
 #####

Note: Total Runoff Depth includes pervious & impervious areas.
 Pervious and Impervious Runoff Depth is only the runoff from those two areas.
 For catchments receiving redirected flow, this flow will only be shown if the flow is not
 directed directly to the outlet. Flow that is getting redirected is also listed with
 the original subcatchment.

Subcatchment.....	STM MH 187#1	STM MH 203#1	STM MH 236#1	STM MH 188#1	CAP 23#1
Area (hectares).....	0.73602	0.60201	0.44801	0.53401	0.21300
Percent Impervious....	90.00000	90.00000	75.00000	70.00000	90.00000
Total Rainfall (mm)...	79.90750	79.90750	79.90750	79.90750	79.90750
Max Intensity (mm/hr)..	73.88000	73.88000	73.88000	73.88000	73.88000

Pervious Area	-----				
Total Runoff Depth (mm)	0.00000	0.00000	0.00000	0.00000	23.36389
Peak Runoff Rate (cms).	0.00000	0.00000	0.00000	0.00000	0.00284

Total Impervious Area

Total Runoff Depth (mm)	3.06357	3.06517	3.06955	3.06931	3.06758
Peak Runoff Rate (cms).	0.13570	0.11099	0.06884	0.07658	0.03927
Impervious Area with depression storage					

Total Runoff Depth (mm)	58.17353	58.20401	58.28754	58.28287	58.24994
Peak Runoff Rate (cms).	0.10177	0.08325	0.05163	0.05744	0.02946
Impervious Area without depression storage					

Total Runoff Depth (mm)	19.64113	19.65129	19.67914	19.67758	19.66660
Peak Runoff Rate (cms).	0.03392	0.02775	0.01721	0.01915	0.00982
Total Area					

Total Runoff Depth (mm)	70.03320	70.06977	58.47501	54.57232	72.46128
Peak Runoff Rate (cms).	0.13570	0.11099	0.06884	0.07658	0.04211
Rational Formula					

Pervious Tc. (mins)...	0.00000	0.00000	0.00000	0.00000	0.00000
Perv. Intensity (mm/hr)	0.00000	0.00000	0.00000	0.00000	0.00000
Pervious C	0.00000	0.00000	0.00000	0.00000	0.00000
Impervious Tc. (mins)..	0.00000	0.00000	0.00000	0.00000	0.00000
Imp. Intensity (mm/hr)..	0.00000	0.00000	0.00000	0.00000	0.00000
Impervious C	0.00000	0.00000	0.00000	0.00000	0.00000
Partial Area (Ha).....	0.00000	0.00000	0.00000	0.00000	0.00000
Partial Area Tc.....	0.00000	0.00000	0.00000	0.00000	0.00000
Partial Area Intensity.	0.00000	0.00000	0.00000	0.00000	0.00000
UK Methods					

Runoff percentage (%)..	0.00000	0.00000	0.00000	0.00000	0.00000
Effective Area (Ha)....	0.00000	0.00000	0.00000	0.00000	0.00000
Depression Storage (mm)	0.00000	0.00000	0.00000	0.00000	0.00000
Routing coefficient....	0.00000	0.00000	0.00000	0.00000	0.00000
Subcatchment.....					
Area (hectares).....	CAP 14#1	CB 6#1	CB1#1	CB 2#1	CAP 15#1
Percent Impervious.....	0.19000	0.31801	0.30901	0.49501	0.17900
Total Rainfall (mm)....	90.00000	90.00000	71.00000	90.00000	90.00000
Max Intensity (mm/hr)..	79.90750	79.90750	79.90750	79.90750	79.90750
	73.88000	73.88000	73.88000	73.88000	73.88000
Pervious Area					

Total Runoff Depth (mm)	23.41300	0.00000	0.00000	0.00000	23.43317
Peak Runoff Rate (cms).	0.00257	0.00000	0.00000	0.00000	0.00243
Total Impervious Area					

Total Runoff Depth (mm)	3.06836	3.06941	3.07224	3.06655	3.06868
Peak Runoff Rate (cms).	0.03503	0.05863	0.04495	0.09127	0.03300
Impervious Area with depression storage					

Total Runoff Depth (mm)	58.26477	58.28473	58.33876	58.23029	58.27092
Peak Runoff Rate (cms).	0.02627	0.04398	0.03371	0.06845	0.02475
Impervious Area without depression storage					

Total Runoff Depth (mm)	19.67154	19.67820	19.69621	19.66005	19.67360
Peak Runoff Rate (cms).	0.00876	0.01466	0.01124	0.02282	0.00825
Total Area					

Total Runoff Depth (mm)	72.48398	70.16664	55.40483	70.10131	72.49338
Peak Runoff Rate (cms).	0.03760	0.05863	0.04495	0.09127	0.03544
Rational Formula					

Pervious Tc. (mins)...	0.00000	0.00000	0.00000	0.00000	0.00000
Perv. Intensity (mm/hr)	0.00000	0.00000	0.00000	0.00000	0.00000
Pervious C	0.00000	0.00000	0.00000	0.00000	0.00000
Impervious Tc. (mins)..	0.00000	0.00000	0.00000	0.00000	0.00000
Imp. Intensity (mm/hr)..	0.00000	0.00000	0.00000	0.00000	0.00000
Impervious C	0.00000	0.00000	0.00000	0.00000	0.00000
Partial Area (Ha).....	0.00000	0.00000	0.00000	0.00000	0.00000
Partial Area Tc.....	0.00000	0.00000	0.00000	0.00000	0.00000
Partial Area Intensity.	0.00000	0.00000	0.00000	0.00000	0.00000
UK Methods					

Runoff percentage (%)..	0.00000	0.00000	0.00000	0.00000	0.00000
Effective Area (Ha)....	0.00000	0.00000	0.00000	0.00000	0.00000
Depression Storage (mm)	0.00000	0.00000	0.00000	0.00000	0.00000
Routing coefficient....	0.00000	0.00000	0.00000	0.00000	0.00000
Subcatchment.....					
Area (hectares).....	CAP 16#1	CAP 17#1	CAP 18#1	CB 3#1	CAP 19#1
Percent Impervious.....	0.21700	0.27201	0.27201	0.49801	0.23901
Total Rainfall (mm)....	90.00000	90.00000	90.00000	90.00000	90.00000
Max Intensity (mm/hr)..	79.90750	79.90750	79.90750	79.90750	79.90750
	73.88000	73.88000	73.88000	73.88000	73.88000

Pervious Area					

Total Runoff Depth (mm)	23.35410	23.33626	23.25301	0.00000	23.31188
Peak Runoff Rate (cms).	0.00289	0.00300	0.00352	0.00000	0.00314
Total Impervious Area					

Total Runoff Depth (mm)	3.06743	3.06715	3.06586	3.06650	3.06677
Peak Runoff Rate (cms).	0.04001	0.04185	0.05015	0.09182	0.04407
Impervious Area with depression storage					

Total Runoff Depth (mm)	58.24701	58.24169	58.21720	58.22931	58.23447
Peak Runoff Rate (cms).	0.03001	0.03139	0.03761	0.06887	0.03305
Impervious Area without depression storage					

Total Runoff Depth (mm)	19.66563	19.66385	19.65569	19.65972	19.66144
Peak Runoff Rate (cms).	0.01000	0.01046	0.01254	0.02296	0.01102
Total Area					

Total Runoff Depth (mm)	72.45678	72.44862	72.41090	70.10013	72.43751
Peak Runoff Rate (cms).	0.04290	0.04486	0.05367	0.09182	0.04721
Rational Formula					

Pervious Tc. (mins)....	0.00000	0.00000	0.00000	0.00000	0.00000
Perv. Intensity (mm/hr)	0.00000	0.00000	0.00000	0.00000	0.00000
Pervious C	0.00000	0.00000	0.00000	0.00000	0.00000
Impervious Tc. (mins)..	0.00000	0.00000	0.00000	0.00000	0.00000
Imp. Intensity (mm/hr)..	0.00000	0.00000	0.00000	0.00000	0.00000
Impervious C	0.00000	0.00000	0.00000	0.00000	0.00000
Partial Area (Ha).....	0.00000	0.00000	0.00000	0.00000	0.00000
Partial Area Tc.....	0.00000	0.00000	0.00000	0.00000	0.00000
Partial Area Intensity.	0.00000	0.00000	0.00000	0.00000	0.00000
UK Methods					

Runoff percentage (%)..	0.00000	0.00000	0.00000	0.00000	0.00000
Effective Area (Ha)....	0.00000	0.00000	0.00000	0.00000	0.00000
Depression Storage (mm)	0.00000	0.00000	0.00000	0.00000	0.00000
Routing coefficient....	0.00000	0.00000	0.00000	0.00000	0.00000
Subcatchment.....					

Area (hectares).....	CAP 20#1	STM MH 204#1	STM MH 218#1	CB 4#1	CAP 21#1
Percent Impervious....	0.23901	0.76402	1.73104	0.49601	0.20600
Total Rainfall (mm)....	90.00000	59.00000	43.00000	90.00000	90.00000
Max Intensity (mm/hr)..	79.90750	79.90750	79.90750	79.90750	79.90750
	73.88000	73.88000	73.88000	73.88000	73.88000
Pervious Area					

Total Runoff Depth (mm)	23.31188	0.00000	0.00000	0.00000	23.37694
Peak Runoff Rate (cms).	0.00314	0.00000	0.00000	0.00000	0.00276
Total Impervious Area					

Total Runoff Depth (mm)	3.06677	3.06922	3.06806	3.06652	3.06779
Peak Runoff Rate (cms).	0.04407	0.09235	0.15249	0.09145	0.03798
Impervious Area with depression storage					

Total Runoff Depth (mm)	58.23447	58.28112	58.25909	58.22976	58.25386
Peak Runoff Rate (cms).	0.03305	0.06926	0.11437	0.06859	0.02849
Impervious Area without depression storage					

Total Runoff Depth (mm)	19.66144	19.67700	19.66965	19.65987	19.66791
Peak Runoff Rate (cms).	0.01102	0.02309	0.03812	0.02286	0.00950
Total Area					

Total Runoff Depth (mm)	72.43751	45.99529	33.50936	70.10067	72.46728
Peak Runoff Rate (cms).	0.04721	0.09235	0.15249	0.09145	0.04074
Rational Formula					

Pervious Tc. (mins)....	0.00000	0.00000	0.00000	0.00000	0.00000
Perv. Intensity (mm/hr)	0.00000	0.00000	0.00000	0.00000	0.00000
Pervious C	0.00000	0.00000	0.00000	0.00000	0.00000
Impervious Tc. (mins)..	0.00000	0.00000	0.00000	0.00000	0.00000
Imp. Intensity (mm/hr)..	0.00000	0.00000	0.00000	0.00000	0.00000
Impervious C	0.00000	0.00000	0.00000	0.00000	0.00000
Partial Area (Ha).....	0.00000	0.00000	0.00000	0.00000	0.00000
Partial Area Tc.....	0.00000	0.00000	0.00000	0.00000	0.00000
Partial Area Intensity.	0.00000	0.00000	0.00000	0.00000	0.00000
UK Methods					

Runoff percentage (%)..	0.00000	0.00000	0.00000	0.00000	0.00000
Effective Area (Ha)....	0.00000	0.00000	0.00000	0.00000	0.00000
Depression Storage (mm)	0.00000	0.00000	0.00000	0.00000	0.00000
Routing coefficient....	0.00000	0.00000	0.00000	0.00000	0.00000

Subcatchment.....	STM MH 129#1	CAP 22#1	STM MH 17#1	CAP 24#1	STM MH 18#1
Area (hectares).....	0.29701	0.16800	0.27801	0.69502	0.19200
Percent Impervious.....	90.00000	90.00000	90.00000	90.00000	90.00000
Total Rainfall (mm)....	79.90750	79.90750	79.90750	79.90750	79.90750
Max Intensity (mm/hr)..	73.88000	73.88000	73.88000	73.88000	73.88000
Pervious Area					

Total Runoff Depth (mm)	0.00000	23.45791	0.00000	22.71401	0.00000
Peak Runoff Rate (cms).	0.00000	0.00230	0.00000	0.00767	0.00000
Total Impervious Area					

Total Runoff Depth (mm)	3.06984	3.06908	3.07022	3.05806	3.07225
Peak Runoff Rate (cms).	0.05476	0.03098	0.05126	0.12809	0.03540
Impervious Area with depression storage					

Total Runoff Depth (mm)	58.29295	58.27853	58.30027	58.06857	58.33891
Peak Runoff Rate (cms).	0.04107	0.02323	0.03844	0.09607	0.02655
Impervious Area without depression storage					

Total Runoff Depth (mm)	19.68094	19.67613	19.68338	19.60614	19.69627
Peak Runoff Rate (cms).	0.01369	0.00774	0.01281	0.03202	0.00885
Total Area					

Total Runoff Depth (mm)	70.17651	72.50499	70.18529	72.17864	70.23166
Peak Runoff Rate (cms).	0.05476	0.03327	0.05126	0.13576	0.03540
Rational Formula					

Pervious Tc. (mins)....	0.00000	0.00000	0.00000	0.00000	0.00000
Perv. Intensity (mm/hr)	0.00000	0.00000	0.00000	0.00000	0.00000
Pervious C	0.00000	0.00000	0.00000	0.00000	0.00000
Impervious Tc. (mins)..	0.00000	0.00000	0.00000	0.00000	0.00000
Imp. Intensity (mm/hr)..	0.00000	0.00000	0.00000	0.00000	0.00000
Impervious C	0.00000	0.00000	0.00000	0.00000	0.00000
Partial Area (Ha).....	0.00000	0.00000	0.00000	0.00000	0.00000
Partial Area Tc.....	0.00000	0.00000	0.00000	0.00000	0.00000
Partial Area Intensity.	0.00000	0.00000	0.00000	0.00000	0.00000
UK Methods					

Runoff percentage (%)..	0.00000	0.00000	0.00000	0.00000	0.00000
Effective Area (Ha)....	0.00000	0.00000	0.00000	0.00000	0.00000
Depression Storage (mm)	0.00000	0.00000	0.00000	0.00000	0.00000
Routing coefficient....	0.00000	0.00000	0.00000	0.00000	0.00000
Subcatchment.....	STM CBMH 250#1	STM MH 20#1	STM MH 21#1	STM MH 220#1	STM MH 221#1
Area (hectares).....	0.22600	0.21000	0.27201	0.61401	0.33501
Percent Impervious.....	90.00000	90.00000	0.00000	0.00000	0.00000
Total Rainfall (mm)....	79.90750	79.90750	79.90750	79.90750	79.90750
Max Intensity (mm/hr)..	73.88000	73.88000	73.88000	73.88000	73.88000
Pervious Area					

Total Runoff Depth (mm)	0.00000	0.00000	0.00000	0.00000	0.00000
Peak Runoff Rate (cms).	0.00000	0.00000	0.00000	0.00000	0.00000
Total Impervious Area					

Total Runoff Depth (mm)	3.07135	3.07180	0.00000	0.00000	0.00000
Peak Runoff Rate (cms).	0.04167	0.03872	0.00000	0.00000	0.00000
Impervious Area with depression storage					

Total Runoff Depth (mm)	58.32170	58.33038	0.00000	0.00000	0.00000
Peak Runoff Rate (cms).	0.03125	0.02904	0.00000	0.00000	0.00000
Impervious Area without depression storage					

Total Runoff Depth (mm)	19.69053	19.69342	0.00000	0.00000	0.00000
Peak Runoff Rate (cms).	0.01042	0.00968	0.00000	0.00000	0.00000
Total Area					

Total Runoff Depth (mm)	70.21101	70.22142	0.00000	0.00000	0.00000
Peak Runoff Rate (cms).	0.04167	0.03872	0.00000	0.00000	0.00000
Rational Formula					

Pervious Tc. (mins)....	0.00000	0.00000	0.00000	0.00000	0.00000
Perv. Intensity (mm/hr)	0.00000	0.00000	0.00000	0.00000	0.00000
Pervious C	0.00000	0.00000	0.00000	0.00000	0.00000
Impervious Tc. (mins)..	0.00000	0.00000	0.00000	0.00000	0.00000
Imp. Intensity (mm/hr)..	0.00000	0.00000	0.00000	0.00000	0.00000
Impervious C	0.00000	0.00000	0.00000	0.00000	0.00000
Partial Area (Ha).....	0.00000	0.00000	0.00000	0.00000	0.00000
Partial Area Tc.....	0.00000	0.00000	0.00000	0.00000	0.00000
Partial Area Intensity.	0.00000	0.00000	0.00000	0.00000	0.00000

UK Methods						

Runoff percentage (%)..	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Effective Area (Ha)....	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Depression Storage (mm)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Routing coefficient....	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Subcatchment.....	STM MH 23#1	PROP CB 39#1	STM MH 168#1	STM MH 169#1	STM MH 153#1	
Area (hectares).....	0.18200	0.48701	0.91102	0.38201	0.55701	
Percent Impervious....	0.00000	68.00000	66.00000	90.00000	90.00000	
Total Rainfall (mm)....	79.90750	79.90750	79.90750	79.90750	79.90750	
Max Intensity (mm/hr)..	73.88000	73.88000	73.88000	73.88000	73.88000	
Pervious Area						

Total Runoff Depth (mm)	0.00000	0.00000	0.00000	0.00000	0.00000	
Peak Runoff Rate (cms).	0.00000	0.00000	0.00000	0.00000	0.00000	
Total Impervious Area						

Total Runoff Depth (mm)	0.00000	3.07021	3.06660	3.06826	3.06571	
Peak Runoff Rate (cms).	0.00000	0.06785	0.12318	0.07043	0.10270	
Impervious Area with depression storage						

Total Runoff Depth (mm)	0.00000	58.30000	58.23134	58.26284	58.21428	
Peak Runoff Rate (cms).	0.00000	0.05088	0.09238	0.05283	0.07702	
Impervious Area without depression storage						

Total Runoff Depth (mm)	0.00000	19.68329	19.66040	19.67090	19.65471	
Peak Runoff Rate (cms).	0.00000	0.01696	0.03079	0.01761	0.02567	
Total Area						

Total Runoff Depth (mm)	0.00000	53.02864	51.40855	70.14036	70.08209	
Peak Runoff Rate (cms).	0.00000	0.06785	0.12318	0.07043	0.10270	
Rational Formula						

Pervious Tc. (mins)....	0.00000	0.00000	0.00000	0.00000	0.00000	
Perv. Intensity (mm/hr)	0.00000	0.00000	0.00000	0.00000	0.00000	
Pervious C	0.00000	0.00000	0.00000	0.00000	0.00000	
Impervious Tc. (mins)..	0.00000	0.00000	0.00000	0.00000	0.00000	
Imp. Intensity (mm/hr)..	0.00000	0.00000	0.00000	0.00000	0.00000	
Impervious C	0.00000	0.00000	0.00000	0.00000	0.00000	
Partial Area (Ha).....	0.00000	0.00000	0.00000	0.00000	0.00000	
Partial Area Tc.....	0.00000	0.00000	0.00000	0.00000	0.00000	
Partial Area Intensity.	0.00000	0.00000	0.00000	0.00000	0.00000	
UK Methods						

Runoff percentage (%)..	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Effective Area (Ha)....	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Depression Storage (mm)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Routing coefficient....	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Subcatchment.....	CULTEC 5#1	STM MH 26#1	STM MH 27#1	STM MH 28#1	STM MH 141#1	
Area (hectares).....	0.33701	0.67801	0.64501	0.42701	1.24403	
Percent Impervious....	90.00000	90.00000	90.00000	90.00000	90.00000	
Total Rainfall (mm)....	79.90750	79.90750	79.90750	79.90750	79.90750	
Max Intensity (mm/hr)..	73.88000	73.88000	73.88000	73.88000	73.88000	
Pervious Area						

Total Runoff Depth (mm)	0.00000	0.00000	0.00000	0.00000	0.00000	
Peak Runoff Rate (cms).	0.00000	0.00000	0.00000	0.00000	0.00000	
Total Impervious Area						

Total Runoff Depth (mm)	3.06905	3.06424	3.06463	3.06754	3.05910	
Peak Runoff Rate (cms).	0.06214	0.12500	0.11892	0.07873	0.22930	
Impervious Area with depression storage						

Total Runoff Depth (mm)	58.27785	58.18632	58.19380	58.24921	58.08840	
Peak Runoff Rate (cms).	0.04660	0.09375	0.08919	0.05905	0.17197	
Impervious Area without depression storage						

Total Runoff Depth (mm)	19.67591	19.64539	19.64789	19.66636	19.61275	
Peak Runoff Rate (cms).	0.01553	0.03125	0.02973	0.01968	0.05732	
Total Area						

Total Runoff Depth (mm)	70.15838	70.04855	70.05752	70.12401	69.93104	
Peak Runoff Rate (cms).	0.06214	0.12500	0.11892	0.07873	0.22930	
Rational Formula						

Pervious Tc. (mins)....	0.00000	0.00000	0.00000	0.00000	0.00000	
Perv. Intensity (mm/hr)	0.00000	0.00000	0.00000	0.00000	0.00000	

Pervious C	0.00000	0.00000	0.00000	0.00000	0.00000
Impervious Tc. (mins)...	0.00000	0.00000	0.00000	0.00000	0.00000
Imp. Intensity (mm/hr)...	0.00000	0.00000	0.00000	0.00000	0.00000
Impervious C	0.00000	0.00000	0.00000	0.00000	0.00000
Partial Area (Ha).....	0.00000	0.00000	0.00000	0.00000	0.00000
Partial Area Tc.....	0.00000	0.00000	0.00000	0.00000	0.00000
Partial Area Intensity.	0.00000	0.00000	0.00000	0.00000	0.00000

UK Methods

Runoff percentage (%)..	0.00000	0.00000	0.00000	0.00000	0.00000
Effective Area (Ha)....	0.00000	0.00000	0.00000	0.00000	0.00000
Depression Storage (mm)	0.00000	0.00000	0.00000	0.00000	0.00000
Routing coefficient....	0.00000	0.00000	0.00000	0.00000	0.00000

Subcatchment.....	STM MH 142#1	STM MH 237#1	STM MH 238#1	STM MH 227#1	STM MH 228#1
Area (hectares).....	1.22203	0.11500	0.53501	0.35401	2.14905
Percent Impervious....	90.00000	90.00000	90.00000	75.00000	83.00000
Total Rainfall (mm)...	79.90750	79.90750	79.90750	79.90750	79.90750
Max Intensity (mm/hr)..	73.88000	73.88000	73.88000	73.88000	73.88000

Pervious Area

Total Runoff Depth (mm)	0.00000	0.00000	0.00000	0.00000	0.00000
Peak Runoff Rate (cms).	0.00000	0.00000	0.00000	0.00000	0.00000

Total Impervious Area

Total Runoff Depth (mm)	3.05927	3.07131	3.06600	3.07091	3.05525
Peak Runoff Rate (cms).	0.22524	0.02120	0.09864	0.05439	0.36513

Impervious Area with depression storage

Total Runoff Depth (mm)	58.09161	58.32101	58.21984	58.31340	58.01507
Peak Runoff Rate (cms).	0.16893	0.01590	0.07398	0.04080	0.27384

Impervious Area without depression storage

Total Runoff Depth (mm)	19.61382	19.69030	19.65657	19.68776	19.58831
Peak Runoff Rate (cms).	0.05631	0.00530	0.02466	0.01360	0.09128

Total Area

Total Runoff Depth (mm)	69.93489	70.21017	70.08877	58.50087	64.41080
Peak Runoff Rate (cms).	0.22524	0.02120	0.09864	0.05439	0.36513

Rational Formula

Pervious Tc. (mins)...	0.00000	0.00000	0.00000	0.00000	0.00000
Perv. Intensity (mm/hr)	0.00000	0.00000	0.00000	0.00000	0.00000
Pervious C	0.00000	0.00000	0.00000	0.00000	0.00000
Impervious Tc. (mins)...	0.00000	0.00000	0.00000	0.00000	0.00000
Imp. Intensity (mm/hr)...	0.00000	0.00000	0.00000	0.00000	0.00000
Impervious C	0.00000	0.00000	0.00000	0.00000	0.00000
Partial Area (Ha).....	0.00000	0.00000	0.00000	0.00000	0.00000
Partial Area Tc.....	0.00000	0.00000	0.00000	0.00000	0.00000
Partial Area Intensity.	0.00000	0.00000	0.00000	0.00000	0.00000

UK Methods

Runoff percentage (%)..	0.00000	0.00000	0.00000	0.00000	0.00000
Effective Area (Ha)....	0.00000	0.00000	0.00000	0.00000	0.00000
Depression Storage (mm)	0.00000	0.00000	0.00000	0.00000	0.00000
Routing coefficient....	0.00000	0.00000	0.00000	0.00000	0.00000

Subcatchment.....	STM MH 82#1	STM MH 83#1	CULTEC 2#1	STM MH 134#1	STM MH 135#1
Area (hectares).....	1.24303	0.62301	0.62201	1.57703	0.88302
Percent Impervious....	90.00000	90.00000	90.00000	78.00000	90.00000
Total Rainfall (mm)...	79.90750	79.90750	79.90750	79.90750	79.90750
Max Intensity (mm/hr)..	73.88000	73.88000	73.88000	73.88000	73.88000

Pervious Area

Total Runoff Depth (mm)	0.00000	0.00000	0.00000	0.00000	0.00000
Peak Runoff Rate (cms).	0.00000	0.00000	0.00000	0.00000	0.00000

Total Impervious Area

Total Runoff Depth (mm)	3.05912	3.06488	3.06490	3.05956	3.06212
Peak Runoff Rate (cms).	0.22911	0.11487	0.11468	0.25193	0.16279

Impervious Area with depression storage

Total Runoff Depth (mm)	58.08869	58.19845	58.19890	58.09708	58.14594
Peak Runoff Rate (cms).	0.17183	0.08615	0.08601	0.18895	0.12209

Impervious Area without depression storage

Total Runoff Depth (mm)	19.61285	19.64943	19.64959	19.61565	19.63193
Peak Runoff Rate (cms).	0.05728	0.02872	0.02867	0.06298	0.04070

Total Area

Total Runoff Depth (mm)	69.93139	70.06309	70.06364	60.61593	70.00009
Peak Runoff Rate (cms).	0.22911	0.11487	0.11468	0.25193	0.16279
Rational Formula					
Pervious Tc. (mins)...	0.00000	0.00000	0.00000	0.00000	0.00000
Perv. Intensity (mm/hr)	0.00000	0.00000	0.00000	0.00000	0.00000
Pervious C	0.00000	0.00000	0.00000	0.00000	0.00000
Impervious Tc. (mins)..	0.00000	0.00000	0.00000	0.00000	0.00000
Imp. Intensity (mm/hr)..	0.00000	0.00000	0.00000	0.00000	0.00000
Impervious C	0.00000	0.00000	0.00000	0.00000	0.00000
Partial Area (Ha).....	0.00000	0.00000	0.00000	0.00000	0.00000
Partial Area Tc.....	0.00000	0.00000	0.00000	0.00000	0.00000
Partial Area Intensity.	0.00000	0.00000	0.00000	0.00000	0.00000
UK Methods					
Runoff percentage (%)..	0.00000	0.00000	0.00000	0.00000	0.00000
Effective Area (Ha)....	0.00000	0.00000	0.00000	0.00000	0.00000
Depression Storage (mm)	0.00000	0.00000	0.00000	0.00000	0.00000
Routing coefficient....	0.00000	0.00000	0.00000	0.00000	0.00000
Subcatchment.....					
Area (hectares).....	CULTEC 1#1	STM MH 85#1	CAP 5#1	CAP 7#1	CAP 9#1
Percent Impervious.....	0.44201	0.44201	0.40501	0.23801	0.27101
Total Rainfall (mm)....	90.00000	90.00000	90.00000	90.00000	90.00000
Max Intensity (mm/hr)..	79.90750	79.90750	79.90750	79.90750	79.90750
	73.88000	73.88000	73.88000	73.88000	73.88000
Pervious Area					
Total Runoff Depth (mm)	0.00000	0.00000	23.05209	23.31559	23.25645
Peak Runoff Rate (cms).	0.00000	0.00000	0.00494	0.00313	0.00351
Total Impervious Area					
Total Runoff Depth (mm)	3.06731	3.06731	3.06286	3.06683	3.06591
Peak Runoff Rate (cms).	0.08150	0.08150	0.07467	0.04388	0.04997
Impervious Area with depression storage					
Total Runoff Depth (mm)	58.24484	58.24484	58.15995	58.23556	58.21821
Peak Runoff Rate (cms).	0.06112	0.06112	0.05600	0.03291	0.03747
Impervious Area without depression storage					
Total Runoff Depth (mm)	19.66490	19.66490	19.63660	19.66181	19.65602
Peak Runoff Rate (cms).	0.02037	0.02037	0.01867	0.01097	0.01249
Total Area					
Total Runoff Depth (mm)	70.11877	70.11877	72.32210	72.43919	72.41245
Peak Runoff Rate (cms).	0.08150	0.08150	0.07961	0.04701	0.05347
Rational Formula					
Pervious Tc. (mins)...	0.00000	0.00000	0.00000	0.00000	0.00000
Perv. Intensity (mm/hr)	0.00000	0.00000	0.00000	0.00000	0.00000
Pervious C	0.00000	0.00000	0.00000	0.00000	0.00000
Impervious Tc. (mins)..	0.00000	0.00000	0.00000	0.00000	0.00000
Imp. Intensity (mm/hr)..	0.00000	0.00000	0.00000	0.00000	0.00000
Impervious C	0.00000	0.00000	0.00000	0.00000	0.00000
Partial Area (Ha).....	0.00000	0.00000	0.00000	0.00000	0.00000
Partial Area Tc.....	0.00000	0.00000	0.00000	0.00000	0.00000
Partial Area Intensity.	0.00000	0.00000	0.00000	0.00000	0.00000
UK Methods					
Runoff percentage (%)..	0.00000	0.00000	0.00000	0.00000	0.00000
Effective Area (Ha)....	0.00000	0.00000	0.00000	0.00000	0.00000
Depression Storage (mm)	0.00000	0.00000	0.00000	0.00000	0.00000
Routing coefficient....	0.00000	0.00000	0.00000	0.00000	0.00000
Subcatchment.....					
Area (hectares).....	CAP 10#1	CAP 11#1	CAP 13#1	CAP 12#1	CAP 8#1
Percent Impervious.....	0.22600	0.21600	0.24701	0.17900	0.23701
Total Rainfall (mm)....	90.00000	90.00000	90.00000	90.00000	90.00000
Max Intensity (mm/hr)..	79.90750	79.90750	79.90750	79.90750	79.90750
	73.88000	73.88000	73.88000	73.88000	73.88000
Pervious Area					
Total Runoff Depth (mm)	23.33711	23.35803	23.29729	23.43317	23.31635
Peak Runoff Rate (cms).	0.00299	0.00288	0.00323	0.00243	0.00312
Total Impervious Area					
Total Runoff Depth (mm)	3.06716	3.06749	3.06654	3.06868	3.06684
Peak Runoff Rate (cms).	0.04167	0.03983	0.04554	0.03300	0.04370
Impervious Area with depression storage					
Total Runoff Depth (mm)	58.24195	58.24819	58.23016	58.27092	58.23579
Peak Runoff Rate (cms).	0.03125	0.02987	0.03416	0.02475	0.03277

Impervious Area without depression storage					

Total Runoff Depth (mm)	19.66394	19.66602	19.66001	19.67360	19.66188
Peak Runoff Rate (cms).	0.01042	0.00996	0.01139	0.00825	0.01092
Total Area					

Total Runoff Depth (mm)	72.44901	72.45858	72.43089	72.49338	72.43954
Peak Runoff Rate (cms).	0.04466	0.04270	0.04878	0.03544	0.04682
Rational Formula					

Pervious Tc. (mins)...	0.00000	0.00000	0.00000	0.00000	0.00000
Perv. Intensity (mm/hr)	0.00000	0.00000	0.00000	0.00000	0.00000
Pervious C	0.00000	0.00000	0.00000	0.00000	0.00000
Impervious Tc. (mins)..	0.00000	0.00000	0.00000	0.00000	0.00000
Imp. Intensity (mm/hr)..	0.00000	0.00000	0.00000	0.00000	0.00000
Impervious C	0.00000	0.00000	0.00000	0.00000	0.00000
Partial Area (Ha).....	0.00000	0.00000	0.00000	0.00000	0.00000
Partial Area Tc.....	0.00000	0.00000	0.00000	0.00000	0.00000
Partial Area Intensity.	0.00000	0.00000	0.00000	0.00000	0.00000
UK Methods					

Runoff percentage (%)..	0.00000	0.00000	0.00000	0.00000	0.00000
Effective Area (Ha)....	0.00000	0.00000	0.00000	0.00000	0.00000
Depression Storage (mm)	0.00000	0.00000	0.00000	0.00000	0.00000
Routing coefficient....	0.00000	0.00000	0.00000	0.00000	0.00000
Subcatchment.....					
Area (hectares).....	CAP 6#1	CAP 4#1	Roof 2#1	Roof 1#1	CAP 3#1
Percent Impervious.....	0.20500	0.36101	2.13105	2.13305	0.30501
Total Rainfall (mm)....	90.00000	90.00000	99.00000	99.00000	90.00000
Max Intensity (mm/hr)..	79.90750	79.90750	79.90750	79.90750	79.90750
	73.88000	73.88000	73.88000	73.88000	73.88000
Pervious Area					

Total Runoff Depth (mm)	23.37798	23.11366	0.00000	0.00000	23.19866
Peak Runoff Rate (cms).	0.00274	0.00448	0.00000	0.00000	0.00388
Total Impervious Area					

Total Runoff Depth (mm)	3.06780	3.06376	3.04164	3.04161	3.06504
Peak Runoff Rate (cms).	0.03780	0.06656	0.42987	0.43027	0.05623
Impervious Area with depression storage					

Total Runoff Depth (mm)	58.25417	58.17724	57.75587	57.75529	58.20148
Peak Runoff Rate (cms).	0.02835	0.04992	0.32240	0.32270	0.04218
Impervious Area without depression storage					

Total Runoff Depth (mm)	19.66801	19.64236	19.50191	19.50172	19.65045
Peak Runoff Rate (cms).	0.00945	0.01664	0.10747	0.10757	0.01406
Total Area					

Total Runoff Depth (mm)	72.46777	72.34901	76.48520	76.48444	72.38660
Peak Runoff Rate (cms).	0.04054	0.07104	0.42987	0.43027	0.06012
Rational Formula					

Pervious Tc. (mins)....	0.00000	0.00000	0.00000	0.00000	0.00000
Perv. Intensity (mm/hr)	0.00000	0.00000	0.00000	0.00000	0.00000
Pervious C	0.00000	0.00000	0.00000	0.00000	0.00000
Impervious Tc. (mins)..	0.00000	0.00000	0.00000	0.00000	0.00000
Imp. Intensity (mm/hr)..	0.00000	0.00000	0.00000	0.00000	0.00000
Impervious C	0.00000	0.00000	0.00000	0.00000	0.00000
Partial Area (Ha).....	0.00000	0.00000	0.00000	0.00000	0.00000
Partial Area Tc.....	0.00000	0.00000	0.00000	0.00000	0.00000
Partial Area Intensity.	0.00000	0.00000	0.00000	0.00000	0.00000
UK Methods					

Runoff percentage (%)..	0.00000	0.00000	0.00000	0.00000	0.00000
Effective Area (Ha)....	0.00000	0.00000	0.00000	0.00000	0.00000
Depression Storage (mm)	0.00000	0.00000	0.00000	0.00000	0.00000
Routing coefficient....	0.00000	0.00000	0.00000	0.00000	0.00000
Subcatchment.....					
Area (hectares).....	STM MH 42#1	STM MH 43#1	STM MH 30#1	STM MH 30#2	
Percent Impervious.....	0.88602	0.76002	0.09200	0.10900	
Total Rainfall (mm)....	90.00000	90.00000	99.00000	90.00000	
Max Intensity (mm/hr)..	79.90750	79.90750	79.90750	79.90750	
	73.88000	73.88000	73.88000	73.88000	
Pervious Area					

Total Runoff Depth (mm)	0.00000	0.00000	24.24356	0.00000	
Peak Runoff Rate (cms).	0.00000	0.00000	0.00014	0.00000	
Total Impervious Area					

Total Runoff Depth (mm)	3.06209	3.06336	3.07149	3.07499	

Peak Runoff Rate (cms).	0.16334	0.14012	0.01866	0.02010
Impervious Area with depression storage				
Total Runoff Depth (mm)	58.14541	58.16956	58.32436	58.39113
Peak Runoff Rate (cms).	0.12251	0.10509	0.01399	0.01507
Impervious Area without depression storage				
Total Runoff Depth (mm)	19.63176	19.63980	19.69141	19.71368
Peak Runoff Rate (cms).	0.04084	0.03503	0.00466	0.00502
Total Area				
Total Runoff Depth (mm)	69.99945	70.02843	77.47805	70.29433
Peak Runoff Rate (cms).	0.16334	0.14012	0.01880	0.02010
Rational Formula				
Pervious Tc. (mins)...	0.00000	0.00000	0.00000	0.00000
Perv. Intensity (mm/hr)	0.00000	0.00000	0.00000	0.00000
Pervious C	0.00000	0.00000	0.00000	0.00000
Impervious Tc. (mins) ..	0.00000	0.00000	0.00000	0.00000
Imp. Intensity (mm/hr) ..	0.00000	0.00000	0.00000	0.00000
Impervious C	0.00000	0.00000	0.00000	0.00000
Partial Area (Ha)	0.00000	0.00000	0.00000	0.00000
Partial Area Tc	0.00000	0.00000	0.00000	0.00000
Partial Area Intensity ..	0.00000	0.00000	0.00000	0.00000
UK Methods				
Runoff percentage (%) ..	0.00000	0.00000	0.00000	0.00000
Effective Area (Ha)	0.00000	0.00000	0.00000	0.00000
Depression Storage (mm)	0.00000	0.00000	0.00000	0.00000
Routing coefficient	0.00000	0.00000	0.00000	0.00000

====> Runoff simulation ended normally.

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*****
| Table E6. Final Model Condition |
| This table is used for steady state |
| flow comparison and is the information |
| saved to the hot-restart file. |
| Final Time = 30.000 hours |
*****

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Junction / Depth / Elevation	====>	"*" Junction is Surcharged.
STM MH 188/ 0.00 / 244.62/		STM MH 187/ 0.00 / 246.68/
STM MH 236/ 0.00 / 245.32/		STM MH 21/ 0.00 / 238.12/
STM MH 154/ 0.00 / 237.00/		STM MH 22/ 0.00 / 237.42/
STM MH 227/ 0.00 / 240.77/		STM MH 132/ 0.00 / 241.18/
STM MH 221/ 0.00 / 237.67/		STM MH 35/ 0.00 / 240.44/
STM MH 118/ 0.00 / 240.28/		STM MH 34/ 0.00 / 240.90/
STM MH 120/ 0.00 / 240.70/		STM MH 117/ 0.00 / 240.02/
STM MH 20/ 0.00 / 238.34/		STM MH 37/ 0.00 / 239.87/
STM MH 86/ 0.00 / 240.88/		STM MH 115/ 0.01 / 240.04/
STM MH 223/ 0.00 / 240.91/		STM MH 220/ 0.00 / 237.90/
STM MH 128/ 0.00 / 239.51/		STM MH 127/ 0.00 / 240.08/
STM MH 123/ 0.00 / 240.64/		STM MH 126/ 0.00 / 240.22/
STM MH 124/ 0.00 / 240.50/		STM MH 129/ 0.00 / 239.37/
STM MH 170/ 0.00 / 236.80/		STM MH 38/ 0.00 / 239.79/
STM MH 218/ 0.00 / 240.28/		STM MH 131/ 0.00 / 239.29/
STM MH 17/ 0.00 / 239.15/		STM MH 39/ 0.00 / 239.61/
STM MH 204/ 0.00 / 240.52/		CULTEC 5/ 0.00 / 236.47/
STM MH 228/ 0.00 / 240.00/		STM MH 26/ 0.00 / 236.06/
STM MH 28/ 0.00 / 235.10/		STM MH 168/ 0.00 / 240.23/
PROP CB 39/ 0.00 / 240.76/		STM CBMH 19/ 0.00 / 238.72/
STM MH 134/ 0.00 / 239.70/		STM MH 135/ 0.00 / 239.21/
STM MH 256/ 0.00 / 239.10/		STM MH 85/ 0.00 / 238.40/
STM MH 82/ 0.00 / 239.73/		CULTEC 2/ 0.00 / 239.11/
CAP 23/ 0.00 / 241.36/		STM MH 142/ 0.00 / 239.05/
CAP 15/ 0.00 / 241.36/		CAP 16/ 0.00 / 241.36/
CAP 22/ 0.00 / 241.36/		CAP 21/ 0.00 / 241.36/
CAP 19/ 0.00 / 241.36/		CAP 18/ 0.00 / 241.36/
CAP 13/ 0.00 / 241.36/		CAP 12/ 0.00 / 241.36/
CAP 10/ 0.00 / 241.36/		CAP 9/ 0.00 / 241.36/
CAP 7/ 0.00 / 241.36/		CAP 6/ 0.00 / 241.36/
CAP 4/ 0.00 / 241.36/		CAP 3/ 0.00 / 241.36/
CAP 1/ 0.00 / 241.36/		STM MH 141/ 0.00 / 239.93/
CULTEC 4/ 0.00 / 234.84/		STM MH 43/ 0.00 / 235.51/
STM MH 237/ 0.00 / 238.20/		STM MH 31/ 0.00 / 232.50/
STM MH 30/ 0.00 / 233.24/		STM MH 255/ 0.00 / 232.18/
Roof 2/ 0.00 / 252.00/		Node117/ 0.62 / 233.12/
CB 3/ 0.00 / 240.96/		CB 2/ 0.00 / 241.16/
		CB1/ 0.00 / 241.17/

Conduit/	Flow	====>	"*" Conduit uses the normal flow option.
STM - (14) (STORM)/	0.00 /	STM - (15) (STORM)/	0.00 /
STM - (17) (STORM)/	0.00 /	STM - (18) (STORM)/	0.00 /
STM - (20) (STORM)/	0.00 /	STM - (21) (STORM)/	0.00 /
STM - (24) (STORM)/	0.00 /	STM - (25) (STORM)/	0.00 /
STM - (27) (STORM)/	0.00 /	STM - (28) (STORM)/	0.00 /
STM - (30) (STORM)/	0.00 /	STM - (32) (STORM)/	0.00 /
STM - (34) (STORM)/	0.00 /	STM - (35) (STORM)/	0.00 /
STM - (37) (STORM)/	0.00 /	STM - (38) (STORM)/	0.00 /
STM - (40) (STORM)/	0.00 /	STM - (41) (STORM)/	0.00 /
		STM - (16) (STORM)/	0.00 /
		STM - (19) (STORM)/	0.00 /
		STM - (22) (STORM)/	0.00 /
		STM - (26) (STORM)/	0.00 /
		STM - (29) (STORM)/	0.00 /
		STM - (33) (STORM)/	0.00 /
		STM - (36) (STORM)/	0.00 /
		STM - (39) (STORM)/	0.00 /
		Roof 1/ 0.00 /	252.00/
		CB 4/ 0.00 /	240.46/

STM - (54) (STORM) /	0.00 /	STM - (55) (STORM) /	0.00 /	STM - (56) (STORM) /	0.00 /
STM - (57) (STORM) /	0.00 /	STM - (58) (STORM) /	0.00 /	STM - (59) (STORM) /	0.00 /
ID*352/	0.00 /	STM - (61) (STORM) /	0.00 /	STM - (62) (STORM) /	0.00 /
STM - (63) (STORM) /	0.00 /	STM - (65) (STORM) /	0.00 /	STM - (66) (STORM) /	0.00 /
ID*359/	0.00 /	STM - (67) (STORM) /	0.00 /	STM - (68) (STORM) /	0.00 /
ID*362/	0.00 /	STM - (69) (STORM) /	0.00 /	STM - (70) (STORM) /	0.00 /
ID*365/	0.00 /	STM - (71) (STORM) /	0.00 /	STM - (72) (STORM) /	0.00 /
ID*368/	0.00 /	STM - (73) (STORM) /	0.00 /	ID*370/	0.00 /
STM - (74) (STORM) /	0.00 /	STM - (75) (STORM) /	0.00 /	STM - (76) (STORM) /	0.00 /
ID*374/	0.00 /	STM - (77) (STORM) /	0.00 /	ID*376/	0.00 /
STM - (78) (STORM) /	0.00 /	ID*378/	0.00 /	STM - (79) (STORM) /	0.00 /
STM - (80) (STORM) /	0.00 /	ID*381/	0.00 /	STM - (81) (STORM) /	0.00 /
STM - (82) (STORM) /	0.00 /	ID*384/	0.00 /	STM - (83) (STORM) /	0.00 /
STM - (84) (STORM) /	0.00 /	ID*387/	0.00 /	ID*388/	0.00 /
ID*390/	0.00 /	STM - (86) (STORM) /	0.00 /	STM - (87) (STORM) /	0.00 /
STM - (88) (STORM) /	0.00 /	STM - (89) (STORM) /	0.00 /	STM - (95) (STORM) /	0.00 /
STM - (96) (STORM) /	0.00 /	ID*397/	0.00 /	ID*398/	0.00 /
STM - (119) (STORM) /	0.00 /	STM - (120) (STORM) /	0.00 /	ID*401/	0.00 /
STM - (121) (STORM) /	0.00 /	STM - (130) (STORM) /	0.00 /	ID*409/	0.00 /
STM - (142) (STORM) /	0.00 /	STM - (143) (STORM) /	0.00 /	ID*412/	0.00 /
ID*413/	0.00 /	ID*414/	0.00 /	ID*415/	0.00 /
STM - (151) (STORM) /	0.00 /	STM - (152) (STORM) /	0.00 /	ID*418/	0.00 /
STM - (155) (STORM) /	0.00 /	STM - (158) (STORM) /	0.00 /	ID*421/	0.00 /
STM - (160) (STORM) /	0.00 /	ID*423/	0.00 /	STM - (161) (STORM) /	0.00 /
ID*425/	0.00 /	STM - (170) (STORM) /	0.00 /	ID*427/	0.00 /
Link116/	0.00 /	Link117/	0.00 /	Link118/	0.00 /
Link119/	0.00 /	Link122/	0.00 /	spill/	0.00 /
Roof Control/	0.00 /	Roof Control2/	0.00 /	Orifice 1/	0.00 /
FREE# 1/	0.00 /				

Conduit/	Velocity				
STM - (14) (STORM) /	0.00 /	STM - (15) (STORM) /	0.00 /	STM - (16) (STORM) /	0.00 /
STM - (17) (STORM) /	0.00 /	STM - (18) (STORM) /	0.00 /	STM - (19) (STORM) /	0.00 /
STM - (20) (STORM) /	0.00 /	STM - (21) (STORM) /	0.00 /	STM - (22) (STORM) /	0.00 /
STM - (24) (STORM) /	0.00 /	STM - (25) (STORM) /	0.00 /	STM - (26) (STORM) /	0.00 /
STM - (27) (STORM) /	0.00 /	STM - (28) (STORM) /	0.00 /	STM - (29) (STORM) /	0.16 /
STM - (30) (STORM) /	0.00 /	STM - (32) (STORM) /	0.00 /	STM - (33) (STORM) /	0.00 /
STM - (34) (STORM) /	0.00 /	STM - (35) (STORM) /	0.00 /	STM - (36) (STORM) /	0.00 /
STM - (37) (STORM) /	0.00 /	STM - (38) (STORM) /	0.09 /	STM - (39) (STORM) /	0.10 /
STM - (40) (STORM) /	0.25 /	STM - (41) (STORM) /	0.24 /	STM - (53) (STORM) /	0.00 /
STM - (54) (STORM) /	0.00 /	STM - (55) (STORM) /	0.09 /	STM - (56) (STORM) /	0.13 /
STM - (57) (STORM) /	0.10 /	STM - (58) (STORM) /	0.11 /	STM - (59) (STORM) /	0.15 /
ID*352/	0.13 /	STM - (61) (STORM) /	0.15 /	STM - (62) (STORM) /	0.00 /
STM - (63) (STORM) /	0.00 /	STM - (65) (STORM) /	0.00 /	STM - (66) (STORM) /	0.00 /
ID*359/	0.00 /	STM - (67) (STORM) /	0.00 /	STM - (68) (STORM) /	0.00 /
ID*362/	0.00 /	STM - (69) (STORM) /	0.00 /	STM - (70) (STORM) /	0.00 /
ID*365/	0.00 /	STM - (71) (STORM) /	0.00 /	STM - (72) (STORM) /	0.00 /
ID*368/	0.00 /	STM - (73) (STORM) /	0.00 /	ID*370/	0.00 /
STM - (74) (STORM) /	0.00 /	STM - (75) (STORM) /	0.00 /	STM - (76) (STORM) /	0.00 /
ID*374/	0.00 /	STM - (77) (STORM) /	0.00 /	ID*376/	0.00 /
STM - (78) (STORM) /	0.00 /	ID*378/	0.00 /	STM - (79) (STORM) /	0.00 /
STM - (80) (STORM) /	0.00 /	ID*381/	0.00 /	STM - (81) (STORM) /	0.00 /
STM - (82) (STORM) /	0.00 /	ID*384/	0.00 /	STM - (83) (STORM) /	0.00 /
STM - (84) (STORM) /	0.00 /	ID*387/	0.00 /	ID*388/	0.00 /
ID*390/	0.00 /	STM - (86) (STORM) /	0.00 /	STM - (87) (STORM) /	0.00 /
STM - (88) (STORM) /	0.00 /	STM - (89) (STORM) /	0.09 /	STM - (95) (STORM) /	0.00 /
STM - (96) (STORM) /	0.00 /	ID*397/	0.00 /	ID*398/	0.00 /
STM - (119) (STORM) /	0.00 /	STM - (120) (STORM) /	0.00 /	ID*401/	0.00 /
STM - (121) (STORM) /	0.00 /	STM - (130) (STORM) /	0.00 /	ID*409/	0.00 /
STM - (142) (STORM) /	0.00 /	STM - (143) (STORM) /	0.00 /	ID*412/	0.00 /
ID*413/	0.00 /	ID*414/	0.00 /	ID*415/	0.00 /
STM - (151) (STORM) /	0.00 /	STM - (152) (STORM) /	0.00 /	ID*418/	0.00 /
STM - (155) (STORM) /	0.00 /	STM - (158) (STORM) /	0.00 /	ID*421/	0.00 /
STM - (160) (STORM) /	0.00 /	ID*423/	0.00 /	STM - (161) (STORM) /	0.00 /
ID*425/	0.00 /	STM - (170) (STORM) /	0.25 /	ID*427/	0.15 /
Link116/	0.00 /	Link117/	0.00 /	Link118/	0.00 /
Link119/	0.00 /	Link122/	0.00 /	spill/	0.00 /
Roof Control/	0.50 /	Roof Control2/	0.50 /	Orifice 1/	0.07 /

Conduit/	Width				
STM - (14) (STORM) /	0.26 /	STM - (15) (STORM) /	0.32 /	STM - (16) (STORM) /	0.35 /
STM - (17) (STORM) /	0.35 /	STM - (18) (STORM) /	0.35 /	STM - (19) (STORM) /	0.35 /
STM - (20) (STORM) /	0.35 /	STM - (21) (STORM) /	0.35 /	STM - (22) (STORM) /	0.35 /
STM - (24) (STORM) /	0.38 /	STM - (25) (STORM) /	0.38 /	STM - (26) (STORM) /	0.38 /
STM - (27) (STORM) /	0.38 /	STM - (28) (STORM) /	0.35 /	STM - (29) (STORM) /	0.41 /
STM - (30) (STORM) /	0.18 /	STM - (32) (STORM) /	0.21 /	STM - (33) (STORM) /	0.24 /
STM - (34) (STORM) /	0.24 /	STM - (35) (STORM) /	0.26 /	STM - (36) (STORM) /	0.26 /
STM - (37) (STORM) /	0.26 /	STM - (38) (STORM) /	0.26 /	STM - (39) (STORM) /	0.26 /
STM - (40) (STORM) /	0.29 /	STM - (41) (STORM) /	0.29 /	STM - (53) (STORM) /	0.26 /
STM - (54) (STORM) /	0.26 /	STM - (55) (STORM) /	0.26 /	STM - (56) (STORM) /	0.29 /
STM - (57) (STORM) /	0.18 /	STM - (58) (STORM) /	0.18 /	STM - (59) (STORM) /	0.15 /
ID*352/	0.18 /	STM - (61) (STORM) /	0.18 /	STM - (62) (STORM) /	0.18 /
STM - (63) (STORM) /	0.18 /	STM - (65) (STORM) /	0.21 /	STM - (66) (STORM) /	0.18 /
ID*359/	0.24 /	STM - (67) (STORM) /	0.18 /	STM - (68) (STORM) /	0.18 /
ID*362/	0.24 /	STM - (69) (STORM) /	0.18 /	STM - (70) (STORM) /	0.18 /
ID*365/	0.21 /	STM - (71) (STORM) /	0.18 /	STM - (72) (STORM) /	0.18 /
ID*368/	0.21 /	STM - (73) (STORM) /	0.18 /	ID*370/	0.21 /
STM - (74) (STORM) /	0.18 /	STM - (75) (STORM) /	0.18 /	STM - (76) (STORM) /	0.21 /
ID*374/	0.21 /	STM - (77) (STORM) /	0.18 /	ID*376/	0.24 /
STM - (78) (STORM) /	0.18 /	ID*378/	0.24 /	STM - (79) (STORM) /	0.18 /
STM - (80) (STORM) /	0.18 /	ID*381/	0.26 /	STM - (81) (STORM) /	0.18 /
STM - (82) (STORM) /	0.18 /	ID*384/	0.32 /	STM - (83) (STORM) /	0.18 /
STM - (84) (STORM) /	0.18 /	ID*387/	0.32 /	ID*388/	0.18 /
ID*390/	0.35 /	STM - (86) (STORM) /	0.18 /	STM - (87) (STORM) /	0.21 /
STM - (88) (STORM) /	0.24 /	STM - (89) (STORM) /	0.26 /	STM - (95) (STORM) /	0.18 /

STM - (96) (STORM)/	0.21 /	ID*397/	0.38 /	ID*398/	0.38 /
STM - (119) (STORM)/	0.18 /	STM - (120) (STORM)/	0.21 /	ID*401/	0.38 /
STM - (121) (STORM)/	0.21 /	STM - (130) (STORM)/	0.15 /	ID*409/	0.18 /
STM - (142) (STORM)/	0.21 /	STM - (143) (STORM)/	0.24 /	ID*412/	0.24 /
ID*413/	0.35 /	ID*414/	0.35 /	ID*415/	0.35 /
STM - (151) (STORM)/	0.18 /	STM - (152) (STORM)/	0.18 /	ID*418/	0.24 /
STM - (155) (STORM)/	0.18 /	STM - (158) (STORM)/	0.12 /	ID*421/	0.18 /
STM - (160) (STORM)/	0.15 /	ID*423/	0.35 /	STM - (161) (STORM)/	0.15 /
ID*425/	0.35 /	STM - (170) (STORM)/	0.41 /	ID*427/	0.26 /
Link116/	0.15 /	Link117/	0.15 /	Link118/	0.15 /
Link119/	0.15 /	Link122/	0.18 /	spill/	2.01 /
Roof Control/	0.00 /	Roof Control2/	0.00 /	Orifice 1/	0.29 /

Junction/	EGL				
STM MH 188/	0.03 /	STM MH 187/	0.00 /	STM MH 203/	0.03 /
STM MH 236/	0.07 /	STM MH 21/	5.87 /	STM MH 23/	0.08 /
STM MH 154/	0.06 /	STM MH 22/	0.06 /	CB 6/	0.00 /
STM MH 227/	0.00 /	STM MH 132/	0.04 /	STM MH 116/	0.10 /
STM MH 221/	0.03 /	STM MH 35/	0.54 /	STM MH 36/	0.81 /
STM MH 118/	0.70 /	STM MH 34/	0.06 /	STM MH 121/	0.17 /
STM MH 120/	0.27 /	STM MH 117/	0.95 /	STM MH 119/	0.41 /
STM MH 20/	0.03 /	STM MH 37/	0.79 /	STM MH 40/	1.46 /
STM MH 86/	0.03 /	STM MH 115/	0.90 /	STM MH 87/	0.03 /
STM MH 223/	0.34 /	STM MH 220/	0.03 /	STM MH 205/	0.06 /
STM MH 128/	0.96 /	STM MH 127/	0.48 /	STM MH 122/	0.36 /
STM MH 123/	0.42 /	STM MH 126/	0.49 /	STM MH 125/	0.45 /
STM MH 124/	0.43 /	STM MH 129/	0.98 /	STM MH 133/	1.14 /
STM MH 170/	2.89 /	STM MH 38/	0.03 /	STM MH 18/	0.06 /
STM MH 218/	0.08 /	STM MH 131/	0.99 /	STM MH 219/	0.02 /
STM MH 17/	1.75 /	STM MH 39/	1.19 /	STM MH 153/	0.03 /
STM MH 204/	0.00 /	CULTEC 5/	0.03 /	STM MH 27/	0.03 /
STM MH 228/	0.06 /	STM MH 26/	0.03 /	STM MH 169/	0.05 /
STM MH 28/	0.03 /	STM MH 168/	0.03 /	STM MH 41/	0.04 /
PROP CB 39/	0.00 /	STM CBMH 19/	0.03 /	STM CBMH 250/	0.03 /
STM MH 134/	0.00 /	STM MH 135/	0.04 /	PROP DCB 62/	0.00 /
STM MH 256/	0.04 /	STM MH 85/	0.48 /	CULTEC 1/	0.03 /
STM MH 82/	0.04 /	CULTEC 2/	0.06 /	STM MH 83/	0.03 /
CAP 23/	0.00 /	STM MH 142/	0.07 /	CAP 14/	0.00 /
CAP 15/	0.00 /	CAP 16/	0.00 /	CAP 24/	0.00 /
CAP 22/	0.00 /	CAP 21/	0.00 /	CAP 20/	0.00 /
CAP 19/	0.00 /	CAP 18/	0.00 /	CAP 17/	0.00 /
CAP 13/	0.00 /	CAP 12/	0.00 /	CAP 11/	0.00 /
CAP 10/	0.00 /	CAP 9/	0.00 /	CAP 8/	0.00 /
CAP 7/	0.00 /	CAP 6/	0.00 /	CAP 5/	0.00 /
CAP 4/	0.00 /	CAP 3/	0.00 /	CAP 2/	0.00 /
CAP 1/	0.00 /	STM MH 141/	0.00 /	STM MH 42/	0.55 /
CULTEC 4/	3.35 /	STM MH 43/	0.60 /	STM MH 238/	0.06 /
STM MH 237/	0.00 /	STM MH 31/	0.60 /	STM MH 239/	3.42 /
STM MH 30/	0.60 /	STM MH 255/	0.00 /	Roof 1/	0.00 /
Roof 2/	0.00 /	Node117/	0.62 /	CB 4/	0.00 /
CB 3/	0.00 /	CB 2/	0.00 /	CB1/	0.00 /

Junction/	Freeboard				
STM MH 188/	4.27 /	STM MH 187/	1.70 /	STM MH 203/	2.14 /
STM MH 236/	2.53 /	STM MH 21/	8.50 /	STM MH 23/	6.99 /
STM MH 154/	6.44 /	STM MH 22/	5.74 /	CB 6/	1.76 /
STM MH 227/	2.37 /	STM MH 132/	1.78 /	STM MH 116/	1.94 /
STM MH 221/	5.18 /	STM MH 35/	2.39 /	STM MH 36/	2.66 /
STM MH 118/	2.55 /	STM MH 34/	1.92 /	STM MH 121/	2.02 /
STM MH 120/	2.12 /	STM MH 117/	2.80 /	STM MH 119/	2.27 /
STM MH 20/	4.46 /	STM MH 37/	2.92 /	STM MH 40/	3.30 /
STM MH 86/	1.90 /	STM MH 115/	2.75 /	STM MH 87/	2.54 /
STM MH 223/	1.83 /	STM MH 220/	4.87 /	STM MH 205/	2.56 /
STM MH 128/	3.23 /	STM MH 127/	2.66 /	STM MH 122/	2.02 /
STM MH 123/	2.10 /	STM MH 126/	2.53 /	STM MH 125/	2.36 /
STM MH 124/	2.24 /	STM MH 129/	3.37 /	STM MH 133/	3.67 /
STM MH 170/	5.93 /	STM MH 38/	2.94 /	STM MH 18/	3.83 /
STM MH 218/	2.28 /	STM MH 131/	3.40 /	STM MH 219/	3.46 /
STM MH 17/	3.53 /	STM MH 39/	3.04 /	STM MH 153/	5.96 /
STM MH 204/	2.04 /	CULTEC 5/	6.07 /	STM MH 27/	6.95 /
STM MH 228/	2.53 /	STM MH 26/	6.44 /	STM MH 169/	2.62 /
STM MH 28/	7.36 /	STM MH 168/	2.16 /	STM MH 41/	3.08 /
PROP CB 39/	1.55 /	STM CBMH 19/	3.56 /	STM CBMH 250/	3.76 /
STM MH 134/	2.49 /	STM MH 135/	2.96 /	PROP DCB 62/	0.87 /
STM MH 256/	3.01 /	STM MH 85/	3.66 /	CULTEC 1/	3.23 /
STM MH 82/	2.32 /	CULTEC 2/	2.88 /	STM MH 83/	2.50 /
CAP 23/	1.67 /	STM MH 142/	2.80 /	CAP 14/	1.67 /
CAP 15/	1.67 /	CAP 16/	1.67 /	CAP 24/	1.67 /
CAP 22/	1.67 /	CAP 21/	1.67 /	CAP 20/	1.67 /
CAP 19/	1.67 /	CAP 18/	1.67 /	CAP 17/	1.67 /
CAP 13/	1.67 /	CAP 12/	1.67 /	CAP 11/	1.67 /
CAP 10/	1.67 /	CAP 9/	1.67 /	CAP 8/	1.67 /
CAP 7/	1.67 /	CAP 6/	1.67 /	CAP 5/	1.67 /
CAP 4/	1.67 /	CAP 3/	1.67 /	CAP 2/	1.67 /
CAP 1/	1.67 /	STM MH 141/	1.91 /	STM MH 42/	3.59 /
CULTEC 4/	6.80 /	STM MH 43/	5.60 /	STM MH 238/	3.02 /
STM MH 237/	2.72 /	STM MH 31/	8.26 /	STM MH 239/	6.58 /
STM MH 30/	7.45 /	STM MH 255/	8.42 /	Roof 1/	0.15 /
Roof 2/	0.15 /	Node117/	7.65 /	CB 4/	2.10 /
CB 3/	1.60 /	CB 2/	1.40 /	CB1/	1.39 /

Junction/	Max Volume				
STM MH 188/	1.54 /	STM MH 187/	1.31 /	STM MH 203/	1.62 /
STM MH 236/	1.73 /	STM MH 21/	4.39 /	STM MH 23/	3.77 /
STM MH 154/	3.74 /	STM MH 22/	3.83 /	CB 6/	1.49 /

STM MH 227/	1.94 /	STM MH 132/	1.44 /	STM MH 116/	0.14 /
STM MH 221/	3.98 /	STM MH 35/	1.14 /	STM MH 36/	1.28 /
STM MH 118/	1.25 /	STM MH 34/	0.72 /	STM MH 121/	0.84 /
STM MH 120/	0.94 /	STM MH 117/	1.32 /	STM MH 119/	1.08 /
STM MH 20/	4.31 /	STM MH 37/	1.26 /	STM MH 40/	1.22 /
STM MH 86/	0.24 /	STM MH 115/	0.76 /	STM MH 87/	0.55 /
STM MH 223/	2.05 /	STM MH 220/	4.17 /	STM MH 205/	3.02 /
STM MH 128/	3.61 /	STM MH 127/	2.95 /	STM MH 122/	2.25 /
STM MH 123/	2.35 /	STM MH 126/	2.81 /	STM MH 125/	2.64 /
STM MH 124/	2.51 /	STM MH 129/	3.75 /	STM MH 133/	3.97 /
STM MH 170/	3.76 /	STM MH 38/	1.23 /	STM MH 18/	4.07 /
STM MH 218/	195.61 /	STM MH 131/	3.81 /	STM MH 219/	3.84 /
STM MH 17/	3.91 /	STM MH 39/	1.26 /	STM MH 153/	3.67 /
STM MH 204/	114.38 /	CULTEC 5/	996.56 /	STM MH 27/	3.88 /
STM MH 228/	2.83 /	STM MH 26/	3.72 /	STM MH 169/	0.45 /
STM MH 28/	4.02 /	STM MH 168/	0.37 /	STM MH 41/	709.49 /
PROP CB 39/	0.18 /	STM CBMH 19/	4.14 /	STM CBMH 250/	4.24 /
STM MH 134/	1.66 /	STM MH 135/	2.21 /	PROP DCB 62/	0.00 /
STM MH 256/	1.37 /	STM MH 85/	2.66 /	CULTEC 1/	918.90 /
STM MH 82/	2.63 /	CULTEC 2/	918.59 /	STM MH 83/	2.24 /
CAP 23/	1.22 /	STM MH 142/	0.94 /	CAP 14/	1.48 /
CAP 15/	1.48 /	CAP 16/	1.46 /	CAP 24/	1.24 /
CAP 22/	1.29 /	CAP 21/	1.32 /	CAP 20/	1.35 /
CAP 19/	1.39 /	CAP 18/	1.43 /	CAP 17/	1.45 /
CAP 13/	0.15 /	CAP 12/	0.12 /	CAP 11/	0.14 /
CAP 10/	0.14 /	CAP 9/	0.15 /	CAP 8/	0.13 /
CAP 7/	0.13 /	CAP 6/	0.12 /	CAP 5/	0.17 /
CAP 4/	0.16 /	CAP 3/	0.14 /	CAP 2/	0.17 /
CAP 1/	0.19 /	STM MH 141/	0.60 /	STM MH 42/	2.43 /
CULTEC 4/	1385.51 /	STM MH 43/	3.87 /	STM MH 238/	0.31 /
STM MH 237/	0.11 /	STM MH 31/	1.32 /	STM MH 239/	4.13 /
STM MH 30/	4.83 /	STM MH 255/	0.77 /	Roof 1/	1032.43 /
Roof 2/	1031.48 /	Node117/	4.92 /	CB 4/	74.94 /
CB 3/	117.51 /	CB 2/	158.18 /	CB1/	31.57 /
Junction/Total Fldng					
STM MH 188/	0.00 /	STM MH 187/	0.00 /	STM MH 203/	0.00 /
STM MH 236/	0.00 /	STM MH 21/	0.00 /	STM MH 23/	0.00 /
STM MH 154/	0.00 /	STM MH 22/	0.00 /	CB 6/	0.00 /
STM MH 227/	0.00 /	STM MH 132/	0.00 /	STM MH 116/	0.00 /
STM MH 221/	0.00 /	STM MH 35/	0.00 /	STM MH 36/	0.00 /
STM MH 118/	0.00 /	STM MH 34/	0.00 /	STM MH 121/	0.00 /
STM MH 120/	0.00 /	STM MH 117/	0.00 /	STM MH 119/	0.00 /
STM MH 20/	0.00 /	STM MH 37/	0.00 /	STM MH 40/	0.00 /
STM MH 86/	0.00 /	STM MH 115/	0.00 /	STM MH 87/	0.00 /
STM MH 223/	0.00 /	STM MH 220/	0.00 /	STM MH 205/	0.00 /
STM MH 128/	0.00 /	STM MH 127/	0.00 /	STM MH 122/	0.00 /
STM MH 123/	0.00 /	STM MH 126/	0.00 /	STM MH 125/	0.00 /
STM MH 124/	0.00 /	STM MH 129/	0.00 /	STM MH 133/	0.00 /
STM MH 170/	0.00 /	STM MH 38/	0.00 /	STM MH 18/	0.00 /
STM MH 218/	0.00 /	STM MH 131/	0.00 /	STM MH 219/	0.00 /
STM MH 17/	0.00 /	STM MH 39/	0.00 /	STM MH 153/	0.00 /
STM MH 204/	0.00 /	CULTEC 5/	0.00 /	STM MH 27/	0.00 /
STM MH 228/	0.00 /	STM MH 26/	0.00 /	STM MH 169/	0.00 /
STM MH 28/	0.00 /	STM MH 168/	0.00 /	STM MH 41/	0.00 /
PROP CB 39/	0.00 /	STM CBMH 19/	0.00 /	STM CBMH 250/	0.00 /
STM MH 134/	0.00 /	STM MH 135/	0.00 /	PROP DCB 62/	0.00 /
STM MH 256/	0.00 /	STM MH 85/	0.00 /	CULTEC 1/	0.00 /
STM MH 82/	0.00 /	CULTEC 2/	0.00 /	STM MH 83/	0.00 /
CAP 23/	0.00 /	STM MH 142/	0.00 /	CAP 14/	0.00 /
CAP 15/	0.00 /	CAP 16/	0.00 /	CAP 24/	0.00 /
CAP 22/	0.00 /	CAP 21/	0.00 /	CAP 20/	0.00 /
CAP 19/	0.00 /	CAP 18/	0.00 /	CAP 17/	0.00 /
CAP 13/	0.00 /	CAP 12/	0.00 /	CAP 11/	0.00 /
CAP 10/	0.00 /	CAP 9/	0.00 /	CAP 8/	0.00 /
CAP 7/	0.00 /	CAP 6/	0.00 /	CAP 5/	0.00 /
CAP 4/	0.00 /	CAP 3/	0.00 /	CAP 2/	0.00 /
CAP 1/	0.00 /	STM MH 141/	0.00 /	STM MH 42/	0.00 /
CULTEC 4/	0.00 /	STM MH 43/	0.00 /	STM MH 238/	0.00 /
STM MH 237/	0.00 /	STM MH 31/	0.00 /	STM MH 239/	0.00 /
STM MH 30/	0.00 /	STM MH 255/	0.00 /	Roof 1/	0.00 /
Roof 2/	0.00 /	Node117/	0.00 /	CB 4/	0.00 /
CB 3/	0.00 /	CB 2/	0.00 /	CB1/	0.00 /
Conduit/ Cross Sectional Area					
STM - (14) (STORM)/	0.00 /	STM - (15) (STORM)/	0.00 /	STM - (16) (STORM)/	0.00 /
STM - (17) (STORM)/	0.00 /	STM - (18) (STORM)/	0.00 /	STM - (19) (STORM)/	0.00 /
STM - (20) (STORM)/	0.00 /	STM - (21) (STORM)/	0.00 /	STM - (22) (STORM)/	0.00 /
STM - (24) (STORM)/	0.00 /	STM - (25) (STORM)/	0.00 /	STM - (26) (STORM)/	0.00 /
STM - (27) (STORM)/	0.00 /	STM - (28) (STORM)/	0.00 /	STM - (29) (STORM)/	0.00 /
STM - (30) (STORM)/	0.00 /	STM - (32) (STORM)/	0.00 /	STM - (33) (STORM)/	0.00 /
STM - (34) (STORM)/	0.00 /	STM - (35) (STORM)/	0.00 /	STM - (36) (STORM)/	0.00 /
STM - (37) (STORM)/	0.00 /	STM - (38) (STORM)/	0.00 /	STM - (39) (STORM)/	0.00 /
STM - (40) (STORM)/	0.00 /	STM - (41) (STORM)/	0.00 /	STM - (53) (STORM)/	0.00 /
STM - (54) (STORM)/	0.00 /	STM - (55) (STORM)/	0.00 /	STM - (56) (STORM)/	0.00 /
STM - (57) (STORM)/	0.00 /	STM - (58) (STORM)/	0.00 /	STM - (59) (STORM)/	0.00 /
STM - (63) (STORM)/	0.00 /	STM - (61) (STORM)/	0.00 /	STM - (62) (STORM)/	0.00 /
ID*352/	0.00 /	STM - (65) (STORM)/	0.00 /	STM - (66) (STORM)/	0.00 /
ID*359/	0.00 /	STM - (67) (STORM)/	0.00 /	STM - (68) (STORM)/	0.00 /
ID*362/	0.00 /	STM - (69) (STORM)/	0.00 /	STM - (70) (STORM)/	0.00 /
ID*365/	0.00 /	STM - (71) (STORM)/	0.00 /	STM - (72) (STORM)/	0.00 /
ID*368/	0.00 /	STM - (73) (STORM)/	0.00 /	ID*370/	0.00 /
STM - (74) (STORM)/	0.00 /	STM - (75) (STORM)/	0.00 /	STM - (76) (STORM)/	0.00 /
ID*374/	0.00 /	STM - (77) (STORM)/	0.00 /	ID*376/	0.00 /
STM - (78) (STORM)/	0.00 /	ID*378/	0.00 /	STM - (79) (STORM)/	0.00 /

Conduit/ Upstream/ Downstream Elevation											
STM - (14)	(STORM)	240.22/	240.11	STM - (15)	(STORM)	239.51/	239.40	STM - (16)	(STORM)	239.15/	239.09/
STM - (17)	(STORM)	238.89/	238.75	STM - (18)	(STORM)	238.72/	238.54	STM - (19)	(STORM)	238.34/	238.18/
STM - (20)	(STORM)	238.12/	237.93	STM - (21)	(STORM)	237.42/	237.34	STM - (22)	(STORM)	237.26/	237.06/
STM - (24)	(STORM)	236.47/	236.09	STM - (25)	(STORM)	236.06/	235.61	STM - (26)	(STORM)	235.58/	235.13/
STM - (27)	(STORM)	235.10/	234.87	STM - (28)	(STORM)	234.84/	234.55	STM - (29)	(STORM)	233.24/	233.12/
STM - (30)	(STORM)	241.36/	241.22	STM - (32)	(STORM)	240.90/	240.85	STM - (33)	(STORM)	240.44/	240.34/
STM - (34)	(STORM)	240.17/	240.09	STM - (35)	(STORM)	239.87/	239.82	STM - (36)	(STORM)	239.79/	239.68/
STM - (37)	(STORM)	239.49/	239.49	STM - (38)	(STORM)	239.49/	239.34	STM - (39)	(STORM)	239.31/	239.14/
STM - (40)	(STORM)	238.05/	236.10	STM - (41)	(STORM)	235.51/	233.83	STM - (53)	(STORM)	239.73/	239.46/
STM - (54)	(STORM)	239.43/	239.17	STM - (55)	(STORM)	239.11/	238.88	STM - (56)	(STORM)	238.40/	238.08/
STM - (57)	(STORM)	240.88/	240.26	STM - (58)	(STORM)	240.23/	240.06	STM - (59)	(STORM)	241.36/	240.91/
STM - (63)	ID*352/	240.04/	239.64	STM - (61)	(STORM)	241.36/	240.93	STM - (62)	(STORM)	241.36/	240.94/
	ID*359/	241.36/	240.80	STM - (65)	(STORM)	240.98/	240.66	STM - (66)	(STORM)	241.36/	241.08/
	ID*362/	240.02/	239.90	STM - (67)	(STORM)	241.36/	240.97	STM - (68)	(STORM)	241.36/	240.98/
	ID*365/	240.28/	240.20	STM - (69)	(STORM)	241.36/	240.98	STM - (70)	(STORM)	241.36/	240.98/
STM - (74)	ID*368/	240.55/	240.47	STM - (71)	(STORM)	241.36/	240.96	STM - (72)	(STORM)	241.36/	240.96/
	ID*374/	240.70/	240.62	STM - (73)	(STORM)	241.36/	240.97	ID*370/	240.80/	240.73/	240.67/
	ID*374/	241.36/	240.97	STM - (75)	(STORM)	241.36/	241.08	STM - (76)	(STORM)	240.73/	240.67/
	ID*374/	240.64/	240.57	STM - (77)	(STORM)	241.36/	241.06	ID*376/	240.50/	240.42/	240.42/
STM - (78)	(STORM)	241.36/	240.93	ID*378/	240.38/	240.29	STM - (79)	(STORM)	241.36/	240.83/	
STM - (80)	(STORM)	241.36/	240.70	ID*381/	240.08/	240.00	STM - (81)	(STORM)	241.36/	240.56/	
STM - (82)	(STORM)	241.36/	240.46	ID*384/	239.37/	239.32	STM - (83)	(STORM)	241.36/	240.35/	
STM - (84)	(STORM)	241.36/	240.28	ID*387/	239.29/	239.25	ID*388/	241.18/	240.90/	240.90/	
STM - (88)	ID*390/	239.06/	238.95	STM - (86)	(STORM)	241.36/	240.20	STM - (87)	(STORM)	239.70/	239.25/
	ID*425/	239.21/	238.86	STM - (89)	(STORM)	238.83/	238.43	STM - (95)	(STORM)	239.93/	239.12/
STM - (96)	(STORM)	239.05/	238.19	ID*397/	236.68/	236.50	ID*398/	237.00/	236.84/	236.84/	
STM - (119)	(STORM)	240.76/	240.26	STM - (120)	(STORM)	240.23/	239.92	ID*401/	236.80/	236.71/	
STM - (121)	(STORM)	239.87/	239.69	STM - (130)	(STORM)	246.68/	245.96	ID*409/	245.93/	245.39/	
STM - (142)	ID*413/	240.52/	240.36	STM - (143)	(STORM)	239.98/	239.73	ID*412/	240.28/	240.04/	240.04/
	ID*413/	239.23/	239.18	ID*414/	237.90/	237.70	ID*415/	237.67/	237.48/	237.48/	237.48/
STM - (151)	(STORM)	241.39/	241.25	STM - (152)	(STORM)	240.91/	240.80	ID*418/	240.00/	239.77/	
STM - (155)	(STORM)	240.77/	240.06	STM - (158)	(STORM)	239.70/	239.70	ID*421/	245.32/	244.65/	
STM - (160)	ID*425/	238.20/	237.99	ID*423/	234.15/	233.83	STM - (161)	(STORM)	237.93/	237.57/	237.57/
	ID*425/	238.51/	238.37	STM - (170)	(STORM)	232.50/	232.18	ID*427/	239.10/	238.60/	238.60/
Link116/	241.17/	241.05	Link117/	241.16/	240.85	Link118/	240.96/	240.96/	240.65/	240.65/	
Link119/	240.46/	240.15	Link122/	244.62/	243.99	spill/	241.16/	241.16/	241.16/	241.16/	
Roof Control/	252.00/	241.36	Roof Control2/	252.00/	241.36	Orifice 1/	233.12/	233.10/	233.10/	233.10/	

| Table E7 - Iteration Summary |

Total number of time steps simulated.....	21600
Total number of passes in the simulation.....	26617
Total number of time steps during simulation....	25866
Ratio of actual # of time steps / NTCYC.....	1.198
Average number of iterations per time step.....	1.029
Average time step size(seconds).....	4.175
Smallest time step size(seconds).....	0.238
Largest time step size(seconds).....	5.000
Average minimum Conduit Courant time step (sec).	4.751
Average minimum implicit time step (sec).....	1.642
Average minimum junction time step (sec).....	1.642
Average Courant Factor Tf.....	1.642
Number of times omega reduced.....	2817

| Table E8 - Junction Time Step Limitation Summary |

Not Convr = Number of times this junction did not	
converge during the simulation.	
Avg Convr = Average junction iterations.	
Convr err = Mean convergence error.	
Omega Cng = Change of omega during iterations	
Max Itern = Maximum number of iterations	

	Junction	Not Convr	Avg Convr	Total Itt	Omega Cng	Max Itern	Ittrn >10	Ittrn >25	Ittrn >40
STM MH 188	0	1.05	27038	0	5	0	0	0	
STM MH 187	0	1.02	26345	0	7	0	0	0	
STM MH 203	0	1.05	27125	0	6	0	0	0	
STM MH 236	0	1.04	26994	0	6	0	0	0	
STM MH 21	0	1.29	33270	0	7	0	0	0	
STM MH 23	0	1.33	34489	52	7	0	0	0	
STM MH 154	0	1.35	35048	8	7	0	0	0	
STM MH 22	0	1.38	35742	287	10	1	0	0	
CB 6	0	1.02	26427	0	7	0	0	0	
STM MH 227	0	1.02	26476	0	6	0	0	0	
STM MH 132	0	1.05	27201	9	7	0	0	0	
STM MH 116	3	1.37	35452	42	501	45	45	44	
STM MH 221	0	1.29	33389	0	11	1	0	0	
STM MH 35	0	1.08	27806	9	126	5	4	4	
STM MH 36	2	1.14	29609	8	501	10	9	9	
STM MH 118	0	1.11	28606	13	134	12	11	11	
STM MH 34	0	1.05	27249	12	126	12	11	10	
STM MH 121	0	1.06	27296	11	100	9	8	6	
STM MH 120	0	1.06	27423	11	114	11	8	7	
STM MH 117	1	1.23	31704	32	501	32	30	28	
STM MH 119	0	1.08	27963	11	116	11	10	9	
STM MH 20	0	1.27	32876	0	7	0	0	0	
STM MH 37	3	1.29	33475	24	501	27	26	24	

STM MH 40	10	1.63	42190	52	501	62	59	56
STM MH 86	0	1.00	25908	0	4	0	0	0
STM MH 115	0	1.01	26124	0	5	0	0	0
STM MH 87	0	1.00	25969	0	4	0	0	0
STM MH 223	0	1.05	27211	2	9	0	0	0
STM MH 220	0	1.25	32321	1	37	1	1	0
STM MH 205	0	1.12	28844	1	12	1	0	0
STM MH 128	0	1.26	32588	16	156	6	5	5
STM MH 127	0	1.16	30077	4	46	1	1	1
STM MH 122	0	1.28	33006	19	419	19	17	17
STM MH 123	0	1.09	28257	1	13	2	0	0
STM MH 126	0	1.16	29945	7	132	2	2	2
STM MH 125	0	1.13	29277	2	79	2	1	1
STM MH 124	0	1.12	28929	4	104	4	1	1
STM MH 129	0	1.31	33843	111	134	4	3	3
STM MH 133	0	1.33	34459	74	140	17	15	15
STM MH 170	0	3.53	91379	462	439	373	356	332
STM MH 38	0	1.12	28924	0	5	0	0	0
STM MH 18	0	1.27	32873	4	24	2	0	0
STM MH 218	0	1.12	29001	1	11	1	0	0
STM MH 131	0	1.34	34707	184	133	3	2	2
STM MH 219	0	1.34	34769	248	8	0	0	0
STM MH 17	0	1.30	33521	202	11	1	0	0
STM MH 39	5	1.86	48172	115	501	117	115	113
STM MH 153	0	1.42	36837	296	8	0	0	0
STM MH 204	0	1.05	27040	0	11	1	0	0
CULTEC 5	0	1.31	33942	3	31	3	1	0
STM MH 27	0	1.26	32631	1	6	0	0	0
STM MH 228	0	1.08	27975	1	8	0	0	0
STM MH 26	0	1.25	32460	3	6	0	0	0
STM MH 169	5	1.96	50633	81	501	84	84	83
STM MH 28	0	1.34	34598	2	6	0	0	0
STM MH 168	0	1.10	28375	13	237	9	9	9
STM MH 41	0	1.15	29706	0	5	0	0	0
PROP CB 39	0	1.01	26118	0	4	0	0	0
STM CBMH 19	0	1.28	33009	3	11	1	0	0
STM CBMH 250	0	1.25	32320	1	9	0	0	0
STM MH 134	0	1.04	26860	0	8	0	0	0
STM MH 135	0	1.09	28253	0	6	0	0	0
PROP DCB 62	0	1.00	25866	0	1	0	0	0
STM MH 256	0	1.15	29622	0	7	0	0	0
STM MH 85	0	1.23	31801	1	500	1	1	1
CULTEC 1	0	1.13	29165	1	16	1	0	0
STM MH 82	0	1.12	29063	0	7	0	0	0
CULTEC 2	1	1.18	30573	1	501	1	1	1
STM MH 83	0	1.11	28705	0	6	0	0	0
CAP 23	0	1.04	26994	0	6	0	0	0
STM MH 142	0	1.05	27204	0	5	0	0	0
CAP 14	0	1.02	26332	0	6	0	0	0
CAP 15	0	1.02	26329	0	7	0	0	0
CAP 16	0	1.02	26354	0	9	0	0	0
CAP 24	0	1.08	27950	17	139	16	15	15
CAP 22	0	1.02	26322	2	12	3	0	0
CAP 21	0	1.03	26665	6	135	5	4	2
CAP 20	0	1.03	26628	5	102	4	4	3
CAP 19	0	1.02	26359	1	28	1	1	0
CAP 18	0	1.02	26366	1	6	0	0	0
CAP 17	0	1.02	26327	0	6	0	0	0
CAP 13	0	1.04	26949	14	123	14	11	10
CAP 12	0	1.03	26736	11	104	11	11	9
CAP 11	2	1.07	27759	11	501	13	11	10
CAP 10	0	1.04	26842	10	119	9	9	9
CAP 9	0	1.01	26142	1	123	1	1	1
CAP 8	0	1.00	25986	0	4	0	0	0
CAP 7	0	1.01	26108	1	102	1	1	1
CAP 6	0	1.01	26126	2	91	2	2	2
CAP 5	0	1.17	30302	24	298	22	21	21
CAP 4	0	1.02	26468	2	230	2	2	2
CAP 3	0	1.20	31119	30	325	29	29	27
CAP 2	0	1.00	25930	1	6	0	0	0
CAP 1	0	1.00	25925	0	5	0	0	0
STM MH 141	0	1.02	26497	0	5	0	0	0
STM MH 42	0	1.26	32534	0	6	0	0	0
CULTEC 4	0	1.33	34276	2	45	3	1	1
STM MH 43	0	1.32	34079	8	260	8	8	7
STM MH 238	0	1.07	27585	6	409	6	6	6
STM MH 237	0	1.00	25892	0	3	0	0	0
STM MH 31	0	1.22	31650	1	12	1	0	0
STM MH 239	1	1.57	40539	83	501	73	68	63
STM MH 30	0	1.53	39473	114	264	11	11	11
STM MH 255	0	1.35	34915	0	6	0	0	0
Roof 1	0	1.00	25866	0	1	0	0	0
Roof 2	0	1.00	25866	0	1	0	0	0
Node117	0	1.31	33884	2	13	1	0	0
CB 4	0	1.04	26879	0	12	1	0	0
CB 3	0	1.03	26750	0	4	0	0	0
CB 2	0	1.10	28455	0	7	0	0	0
CB1	0	1.23	31742	16	386	15	14	14

Total number of iterations for all junctions.. 3395953
Minimum number of possible iterations..... 2871126
Efficiency of the simulation..... 1.18
Good Efficiency

| Extran Efficiency is an indicator of the efficiency of |

| the simulation. Ideal efficiency is one iteration per |
 | time step. Altering the underrelaxation parameter, |
 | lowering the time step, increasing the flow and head |
 | tolerance are good ways of improving the efficiency, |
 | another is lowering the internal time step. The lower the |
 | efficiency generally the faster your model will run. |
 | If your efficiency is less than 1.5 then you may try |
 | increasing your time step so that your overall simulation |
 | is faster. Ideal efficiency would be around 2.0 |
 |
 | Good Efficiency < 1.5 mean iterations |
 | Excellent Efficiency < 2.5 and > 1.5 mean iterations |
 | Good Efficiency < 4.0 and > 2.5 mean iterations |
 | Fair Efficiency < 7.5 and > 4.0 mean iterations |
 | Poor Efficiency > 7.5 mean iterations |

 | Table E9 - JUNCTION SUMMARY STATISTICS |
 | The Maximum area is only the area of the node, it |
 | does not include the area of the surrounding conduits |

Junction Name	Ground Elevation meters	Uppermost Pipe Crown Elevation meters	Maximum Junction Elevation meters	Time of Occurrence Hr. Min.	Meters of Surcharge at Max Elevation	Freeboard of node meters	Maximum Junction Area m^2	Maximum Gutter Depth meters	Maximum Gutter Width meters	Maximum Gutter Velocity m/s
STM MH 188	248.8926	245.1030	245.8789	2 45	0.7759	3.0137	1.2200	0.0000	0.00	0.0000
STM MH 187	248.3788	247.0550	247.7506	2 45	0.6956	0.6282	1.2200	0.0000	0.00	0.0000
STM MH 203	248.0697	246.3800	247.2539	2 45	0.8739	0.8158	1.2200	0.0000	0.00	0.0000
STM MH 236	247.8540	245.8400	246.7402	2 45	0.9002	1.1138	1.2200	0.0000	0.00	0.0000
STM MH 21	246.6194	244.4400	241.7196	2 45	0.0000	4.8998	1.2200	0.0000	0.00	0.0000
STM MH 23	244.2541	238.2360	240.3542	2 45	2.1182	3.8999	1.2200	0.0000	0.00	0.0000
STM MH 154	243.4386	237.9750	240.0643	2 45	2.0893	3.3743	1.2200	0.0000	0.00	0.0000
STM MH 22	243.1649	238.3800	240.5605	2 45	2.1805	2.6044	1.2200	0.0000	0.00	0.0000
CB 6	243.1497	241.8370	242.6074	2 45	0.7704	0.5423	1.2200	0.0000	0.00	0.0000
STM MH 227	243.1430	241.2200	242.3593	2 45	1.1393	0.7837	1.2200	0.0000	0.00	0.0000
STM MH 132	242.9638	241.6670	242.3605	2 45	0.6935	0.6033	1.2200	0.0000	0.00	0.0000
STM MH 116	242.9168	241.5320	241.0980	2 45	0.0000	1.8188	1.2200	0.0000	0.00	0.0000
STM MH 221	242.8547	238.6000	240.9316	2 45	2.3316	1.9231	1.2200	0.0000	0.00	0.0000
STM MH 35	242.8307	241.4270	241.3730	2 45	0.0000	1.4577	1.2200	0.0000	0.00	0.0000
STM MH 36	242.8306	241.4280	241.2169	2 45	0.0000	1.6137	1.2200	0.0000	0.00	0.0000
STM MH 118	242.8305	241.4270	241.3044	2 45	0.0000	1.5261	1.2200	0.0000	0.00	0.0000
STM MH 34	242.8238	241.4250	241.4924	2 45	0.0674	1.3314	1.2200	0.0000	0.00	0.0000
STM MH 121	242.8222	241.4190	241.4885	2 45	0.0695	1.3337	1.2200	0.0000	0.00	0.0000
STM MH 120	242.8199	241.4160	241.4738	2 45	0.0578	1.3461	1.2200	0.0000	0.00	0.0000
STM MH 117	242.8196	241.4150	241.0996	2 45	0.0000	1.7200	1.2200	0.0000	0.00	0.0000
STM MH 119	242.8172	241.4130	241.4385	2 45	0.0255	1.3787	1.2200	0.0000	0.00	0.0000
STM MH 20	242.7996	239.2700	241.8710	2 45	2.6010	0.9286	1.2200	0.0000	0.00	0.0000
STM MH 37	242.7908	241.1850	240.9064	2 45	0.0000	1.8844	1.2200	0.0000	0.00	0.0000
STM MH 40	242.7892	241.3850	240.4792	2 46	0.0000	2.3100	1.2200	0.0000	0.00	0.0000
STM MH 86	242.7856	241.3300	241.0770	3 27	0.0000	1.7086	1.2200	0.0000	0.00	0.0000
STM MH 115	242.7801	241.3750	240.6555	2 47	0.0000	2.1246	1.2200	0.0000	0.00	0.0000
STM MH 87	242.7761	240.7070	240.6813	2 47	0.0000	2.0948	1.2200	0.0000	0.00	0.0000
STM MH 223	242.7400	241.7000	242.5863	2 45	0.8863	0.1537	1.2200	0.0000	0.00	0.0000
STM MH 220	242.7689	238.8290	241.3161	2 45	2.4871	1.4528	1.2200	0.0000	0.00	0.0000
STM MH 205	242.5400	240.6420	242.4532	2 45	1.8112	0.0868	1.2200	0.0000	0.00	0.0000
STM MH 128	242.7400	240.9100	242.4604	2 45	1.5504	0.2796	1.2200	0.0000	0.00	0.0000
STM MH 127	242.7400	241.0100	242.4944	2 45	1.4844	0.2456	1.2200	0.0000	0.00	0.0000
STM MH 122	242.7448	241.5330	242.5694	2 45	1.0364	0.1754	1.2200	0.0000	0.00	0.0000
STM MH 123	242.7400	241.5050	242.5662	2 45	1.0612	0.1738	1.2200	0.0000	0.00	0.0000
STM MH 126	242.7441	241.1500	242.5194	2 45	1.3694	0.2247	1.2200	0.0000	0.00	0.0000
STM MH 125	242.7400	241.2800	242.5439	2 45	1.2639	0.1961	1.2200	0.0000	0.00	0.0000
STM MH 124	242.7433	241.3800	242.5537	2 45	1.1737	0.1896	1.2200	0.0000	0.00	0.0000
STM MH 129	242.7375	240.8000	242.4404	2 45	1.6404	0.2971	1.2200	0.0000	0.00	0.0000
STM MH 133	242.7319	240.6500	242.3152	2 45	1.6652	0.4167	1.2200	0.0000	0.00	0.0000
STM MH 170	242.7290	240.2120	239.8848	2 45	0.0000	2.8442	1.2200	0.0000	0.00	0.0000
STM MH 38	242.7261	240.4960	240.7995	2 45	0.3035	1.9266	1.2200	0.0000	0.00	0.0000
STM MH 18	242.7161	239.8510	242.2235	2 45	2.3725	0.4926	1.2200	0.0000	0.00	0.0000
STM MH 218	242.5600	240.8830	242.4531	2 48	1.5701	0.1069	2651.7580	0.0000	0.00	0.0000
STM MH 131	242.6925	240.7300	242.4119	2 45	1.6819	0.2806	1.2200	0.0000	0.00	0.0000
STM MH 219	242.6873	240.1300	242.3788	2 45	2.2488	0.3085	1.2200	0.0000	0.00	0.0000
STM MH 17	242.6829	241.3520	242.3544	2 45	1.0024	0.3285	1.2200	0.0000	0.00	0.0000
STM MH 39	242.6544	241.2490	240.6413	2 45	0.0000	2.0131	1.2200	0.0000	0.00	0.0000
STM MH 153	242.6442	237.6810	239.6884	2 49	2.0074	2.9558	1.2200	0.0000	0.00	0.0000
STM MH 204	242.5600	241.0450	242.4593	2 51	1.4143	0.1007	1391.1761	0.0000	0.00	0.0000
CULTEC 5	242.5404	237.4730	239.4240	2 52	1.9510	3.1164	770.0000	0.0000	0.00	0.0000
STM MH 27	242.5292	236.5849	238.7606	2 54	2.1757	3.7686	1.2200	0.0000	0.00	0.0000
STM MH 228	242.5260	240.6000	242.3233	2 45	1.7233	0.2027	1.2200	0.0000	0.00	0.0000
STM MH 26	242.5031	237.0649	239.1055	2 52	2.0406	3.3976	1.2200	0.0000	0.00	0.0000
STM MH 169	242.4872	240.4400	240.2404	2 45	0.0000	2.2468	1.2200	0.0000	0.00	0.0000
STM MH 28	242.4647	236.1050	238.3969	2 56	2.2919	4.0678	1.2200	0.0000	0.00	0.0000
STM MH 168	242.3903	240.7550	240.5342	2 45	0.0000	1.8561	1.2200	0.0000	0.00	0.0000
STM MH 41	242.3812	240.0090	240.1666	2 54	0.1576	2.2146	1199.9419	0.0000	0.00	0.0000
PROP CB 39	242.3090	241.2100	240.9094	2 45	0.0000	1.3996	1.2200	0.0000	0.00	0.0000
STM CBMH 19	242.2755	239.6500	242.1095	2 45	2.4595	0.1660	1.2200	0.0000	0.00	0.0000
STM CBMH 250	242.2746	239.4400	241.9891	2 45	2.5491	0.2855	1.2200	0.0000	0.00	0.0000
STM MH 134	242.1918	241.0400	241.0604	2 48	0.0204	1.1314	1.2200	0.0000	0.00	0.0000
STM MH 135	242.1691	239.8100	241.0207	2 48	1.2107	1.1484	1.2200	0.0000	0.00	0.0000
PROP DCB 62	242.1541	241.5800	241.2800	0 0	0.0000	0.8741	1.2200	0.0000	0.00	0.0000
STM MH 256	242.1150	239.8140	240.2242	2 48	0.4102	1.8908	1.2200	0.0000	0.00	0.0000
STM MH 85	242.0684	239.5500	240.5808	2 48	1.0308	1.4876	1.2200	0.0000	0.00	0.0000
CULTEC 1	242.0677	239.5050	240.9559	2 47	1.4509	1.1118	834.0000	0.0000	0.00	0.0000

STM - (18)	(STORM)	21.33	185.21	0.00	1593.46	0.274	0.665	3.534
STM - (19)	(STORM)	16.42	174.00	0.00	1609.58	0.274	0.667	3.977
STM - (20)	(STORM)	19.33	192.63	0.00	1588.04	0.273	0.660	5.966
STM - (21)	(STORM)	43.08	130.50	0.00	1626.42	0.274	0.667	5.245
STM - (22)	(STORM)	47.50	138.79	0.00	1613.71	0.273	0.658	5.189
STM - (24)	(STORM)	19.00	152.29	0.00	1628.71	0.291	0.766	4.346
STM - (25)	(STORM)	16.08	156.92	0.00	1627.00	0.291	0.766	4.718
STM - (26)	(STORM)	16.17	244.92	0.00	1538.92	0.291	0.774	5.110
STM - (27)	(STORM)	16.17	200.54	0.00	1583.29	0.296	0.777	5.243
STM - (28)	(STORM)	23.50	140.08	0.00	1636.42	0.274	0.666	6.444
STM - (29)	(STORM)	16.33	1732.50	0.00	51.17	0.319	0.908	10.801
STM - (30)	(STORM)	16.75	57.56	0.00	1725.69	0.134	0.163	0.280
STM - (32)	(STORM)	18.00	63.82	0.00	1718.18	0.160	0.226	0.124
STM - (33)	(STORM)	18.00	86.08	0.00	1695.92	0.182	0.296	0.704
STM - (34)	(STORM)	18.00	76.76	0.00	1705.24	0.182	0.296	1.078
STM - (35)	(STORM)	20.00	133.50	0.00	1646.50	0.205	0.375	1.160
STM - (36)	(STORM)	25.00	331.08	0.00	1443.92	0.205	0.375	1.136
STM - (37)	(STORM)	1200.75	505.88	0.00	93.38	0.205	0.374	1.317
STM - (38)	(STORM)	19.67	389.97	0.00	1390.36	0.205	0.375	1.544
STM - (39)	(STORM)	32.83	57.39	0.00	1709.78	0.205	0.375	1.037
STM - (40)	(STORM)	16.00	116.79	0.00	1667.21	0.224	0.454	6.118
STM - (41)	(STORM)	16.00	151.79	0.00	1632.21	0.224	0.455	9.279
STM - (53)	(STORM)	15.83	171.04	0.00	1613.12	0.205	0.367	3.468
STM - (54)	(STORM)	16.08	234.76	0.00	1549.15	0.203	0.368	3.040
STM - (55)	(STORM)	52.58	80.65	0.00	1666.76	0.205	0.375	2.507
STM - (56)	(STORM)	16.17	805.29	0.00	978.54	0.228	0.463	3.852
STM - (57)	(STORM)	86.83	153.99	0.00	1559.18	0.103	0.102	0.332
STM - (58)	(STORM)	89.75	570.37	0.00	1139.88	0.134	0.159	0.276
STM - (59)	(STORM)	80.92	212.72	0.00	1506.36	0.082	0.045	0.325
	ID*352	83.42	124.58	0.00	1592.00	0.136	0.163	0.681
STM - (61)	(STORM)	80.92	0.00	0.00	1719.08	0.081	0.043	0.290
STM - (62)	(STORM)	16.58	0.00	0.00	1783.42	0.068	0.033	0.213
STM - (63)	(STORM)	16.58	0.00	0.00	1783.42	0.074	0.037	0.244
STM - (65)	(STORM)	19.00	7.49	0.00	1773.51	0.076	0.065	0.336
STM - (66)	(STORM)	16.42	0.00	0.00	1783.58	0.077	0.040	0.267
	ID*359	18.17	194.71	0.00	1587.12	0.183	0.296	1.236
STM - (67)	(STORM)	16.75	2.39	0.00	1780.86	0.059	0.032	0.174
STM - (68)	(STORM)	16.75	6.86	0.00	1776.39	0.067	0.053	0.237
	ID*362	17.92	176.67	0.00	1605.42	0.183	0.296	0.914
STM - (69)	(STORM)	16.75	10.73	0.00	1772.52	0.070	0.070	0.262
STM - (70)	(STORM)	16.75	14.00	0.00	1769.25	0.079	0.085	0.288
	ID*365	19.75	170.50	0.00	1609.75	0.160	0.227	0.660
STM - (71)	(STORM)	16.75	18.50	0.00	1764.75	0.073	0.088	0.292
STM - (72)	(STORM)	16.75	33.54	0.00	1749.71	0.075	0.093	0.325
	ID*368	19.83	39.97	0.00	1740.19	0.160	0.226	0.433
STM - (73)	(STORM)	16.75	21.11	0.00	1762.14	0.071	0.089	0.294
	ID*370	20.00	151.79	0.00	1628.21	0.159	0.225	0.259
STM - (74)	(STORM)	16.92	27.36	0.00	1755.72	0.065	0.086	0.267
STM - (75)	(STORM)	16.92	66.08	0.00	1717.00	0.134	0.163	0.314
STM - (76)	(STORM)	20.50	173.45	0.00	1606.05	0.160	0.227	1.056
	ID*374	18.50	104.92	0.00	1676.58	0.160	0.227	1.147
STM - (77)	(STORM)	16.92	66.25	0.00	1716.83	0.134	0.163	0.299
	ID*376	18.25	121.21	0.00	1660.54	0.182	0.296	1.831
STM - (78)	(STORM)	16.75	68.21	0.00	1715.04	0.134	0.163	0.375
	ID*378	18.25	105.71	0.00	1676.04	0.182	0.296	1.849
STM - (79)	(STORM)	16.75	68.83	0.00	1714.42	0.134	0.164	0.404
STM - (80)	(STORM)	16.75	69.58	0.00	1713.67	0.134	0.164	0.497
	ID*381	18.25	73.50	0.00	1708.25	0.205	0.375	2.121
STM - (81)	(STORM)	16.75	70.12	0.00	1713.12	0.134	0.164	0.501
STM - (82)	(STORM)	16.75	69.96	0.00	1713.29	0.134	0.164	0.545
	ID*384	16.33	201.38	0.00	1582.29	0.251	0.560	3.265
STM - (83)	(STORM)	16.75	70.25	0.00	1713.00	0.134	0.164	0.558
STM - (84)	(STORM)	16.92	70.17	0.00	1712.92	0.134	0.164	0.534
	ID*387	18.67	223.88	0.00	1557.46	0.251	0.560	3.286
	ID*388	17.67	61.10	0.00	1721.24	0.134	0.163	0.343
	ID*390	17.67	119.79	0.00	1662.54	0.274	0.666	3.317
STM - (86)	(STORM)	16.25	68.67	0.00	1715.08	0.134	0.164	1.321
STM - (87)	(STORM)	15.83	127.71	0.00	1656.46	0.159	0.222	1.263
STM - (88)	(STORM)	16.00	284.50	0.00	1499.50	0.182	0.296	1.660
STM - (89)	(STORM)	54.58	318.00	0.00	1427.42	0.202	0.367	1.714
STM - (95)	(STORM)	15.75	58.36	0.00	1725.89	0.134	0.163	0.828
STM - (96)	(STORM)	15.83	0.00	0.00	1784.17	0.159	0.210	1.290
	ID*397	16.17	150.13	0.00	1633.71	0.297	0.783	5.447
	ID*398	53.33	205.46	0.00	1541.21	0.296	0.772	4.427
STM - (119)	(STORM)	16.25	212.71	0.00	1571.04	0.088	0.073	0.279
STM - (120)	(STORM)	15.92	31.64	0.00	1752.44	0.143	0.135	0.459
	ID*401	20.33	277.42	0.00	1502.25	0.297	0.782	5.396
STM - (121)	(STORM)	16.25	0.00	0.00	1783.75	0.155	0.157	0.578
STM - (130)	(STORM)	16.00	121.88	0.00	1662.12	0.112	0.113	1.436
	ID*409	16.17	30.15	0.00	1753.68	0.135	0.163	2.048
STM - (142)	(STORM)	18.25	106.79	0.00	1674.96	0.157	0.222	1.853
STM - (143)	(STORM)	21.33	105.75	0.00	1672.92	0.179	0.290	2.072
	ID*412	17.58	77.79	0.00	1704.62	0.179	0.290	1.973
	ID*413	21.83	218.21	0.00	1559.96	0.274	0.667	2.744
	ID*414	26.25	192.83	0.00	1580.92	0.273	0.667	5.672
	ID*415	34.58	133.21	0.00	1632.21	0.273	0.667	5.406
STM - (151)	(STORM)	16.33	64.42	0.00	1719.25	0.134	0.163	0.465
STM - (152)	(STORM)	22.33	101.83	0.00	1675.83	0.134	0.163	0.761
	ID*418	15.67	186.71	0.00	1597.62	0.183	0.296	3.215
STM - (155)	(STORM)	16.33	224.08	0.00	1559.58	0.134	0.164	0.691
STM - (158)	(STORM)	1800.00	0.00	0.00	0.00	0.000	0.000	0.000
	ID*421	16.25	96.29	0.00	1687.46	0.136	0.163	2.590
STM - (160)	(STORM)	17.25	93.44	0.00	1689.31	0.057	0.037	0.127
	ID*423	20.67	149.67	0.00	1629.67	0.272	0.655	7.110
STM - (161)	(STORM)	16.17	0.00	0.00	1783.83	0.110	0.081	0.380

STM - (170)	ID*425	16.42	204.46	0.00	1579.12	0.274	0.666	3.768
	(STORM)	49.50	1750.50	0.00	0.00	0.314	0.704	2.627
	ID*427	37.00	85.31	0.00	1677.69	0.202	0.367	1.218
	Link116	19.25	65.74	0.00	1715.01	0.112	0.113	1.372
	Link117	18.58	68.37	0.00	1713.04	0.112	0.113	1.738
	Link118	18.58	68.92	0.00	1712.50	0.112	0.113	1.646
	Link119	18.58	74.12	0.00	1707.29	0.112	0.114	2.094
	Link122	16.17	0.00	0.00	1783.83	0.137	0.157	2.051
	spill	1742.27	57.28	0.21	0.24	0.163	3.221	0.009
	Roof Control	1800.00	0.00	0.00	0.00	0.000	0.000	0.000
	Roof Control2	1800.00	0.00	0.00	0.00	0.000	0.000	0.000
	Orifice 1	49.25	144.92	0.00	1605.83	0.226	0.431	11.518

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| Table E12. Mean Conduit Flow Information |
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Conduit Name	Mean Flow (cms)	Total Flow (m ³)	Mean Percent Change	Low Flow Weightng	Mean Froude Number	Mean Hydraulic Radius	Mean Cross Area	Mean Conduit Roughness
STM - (14) (STORM)	0.0174	1876.4424	0.0006	0.4693	0.3405	0.0360	0.0496	0.0130
STM - (15) (STORM)	0.0324	3498.4220	0.0009	0.5317	0.4566	0.0457	0.0786	0.0130
STM - (16) (STORM)	0.0401	4329.2007	0.0009	0.5437	0.4805	0.0503	0.0943	0.0130
STM - (17) (STORM)	0.0460	4965.8323	0.0009	0.5650	0.5206	0.0512	0.0959	0.0130
STM - (18) (STORM)	0.0460	4966.5575	0.0009	0.5807	0.5489	0.0511	0.0960	0.0130
STM - (19) (STORM)	0.0488	5275.4107	0.0007	0.6098	0.5771	0.0526	0.1002	0.0130
STM - (20) (STORM)	0.0626	6763.2565	0.0011	0.6276	0.6108	0.0550	0.1057	0.0130
STM - (21) (STORM)	0.0627	6767.4468	0.0011	0.6548	0.7939	0.0545	0.1083	0.0130
STM - (22) (STORM)	0.0627	6767.9469	0.0010	0.6572	0.7971	0.0536	0.1078	0.0130
STM - (24) (STORM)	0.0777	8387.1681	0.0011	0.7197	0.8814	0.0594	0.1317	0.0130
STM - (25) (STORM)	0.0821	8862.1754	0.0011	0.7359	0.9665	0.0595	0.1351	0.0130
STM - (26) (STORM)	0.0863	9317.5681	0.0015	0.7526	0.9864	0.0598	0.1383	0.0130
STM - (27) (STORM)	0.0891	9621.4664	0.0015	0.7775	0.8245	0.0626	0.1444	0.0130
STM - (28) (STORM)	0.1050	11337.658	0.0014	0.7842	0.9821	0.0589	0.1258	0.0130
STM - (29) (STORM)	0.2216	23927.466	0.0024	0.9919	0.6530	0.1004	0.2159	0.0130
STM - (30) (STORM)	0.0014	154.2724	0.0001	0.3308	0.3920	0.0146	0.0127	0.0130
STM - (32) (STORM)	0.0017	178.7008	0.0001	0.3568	0.2194	0.0164	0.0100	0.0130
STM - (33) (STORM)	0.0076	823.2451	0.0002	0.4198	0.3017	0.0269	0.0240	0.0130
STM - (34) (STORM)	0.0108	1166.7796	0.0002	0.4405	0.3221	0.0299	0.0286	0.0130
STM - (35) (STORM)	0.0149	1608.9448	0.0003	0.4627	0.3479	0.0353	0.0400	0.0130
STM - (36) (STORM)	0.0149	1607.4076	0.0003	0.4747	0.3454	0.0359	0.0417	0.0130
STM - (37) (STORM)	0.0173	1869.4062	0.0003	0.4408	0.1147	0.0471	0.0567	0.0130
STM - (38) (STORM)	0.0493	5321.9799	0.0005	0.9899	0.6426	0.0751	0.0824	0.0130
STM - (39) (STORM)	0.0493	5328.7126	0.0005	0.9843	0.6478	0.0758	0.0804	0.0130
STM - (40) (STORM)	0.1060	11450.021	0.0010	0.9916	1.5902	0.0637	0.0840	0.0130
STM - (41) (STORM)	0.1110	11985.175	0.0012	0.9916	1.4530	0.0652	0.0939	0.0130
STM - (53) (STORM)	0.0228	2460.7496	0.0005	0.4934	0.4001	0.0383	0.0483	0.0130
STM - (54) (STORM)	0.0267	2878.5853	0.0005	0.5287	0.4419	0.0398	0.0537	0.0130
STM - (55) (STORM)	0.0307	3315.5134	0.0004	0.9753	0.6939	0.0473	0.0591	0.0130
STM - (56) (STORM)	0.0509	5497.8193	0.0008	0.9916	0.8685	0.0516	0.0758	0.0130
STM - (57) (STORM)	0.0150	1618.0416	0.0001	0.9589	0.8721	0.0410	0.0208	0.0130
STM - (58) (STORM)	0.0150	1617.8978	0.0001	0.9577	0.7754	0.0451	0.0271	0.0130
STM - (59) (STORM)	0.0150	1617.3630	0.0001	0.9610	1.4767	0.0328	0.0133	0.0130
ID*352	0.0300	3241.5011	0.0001	0.9592	0.8068	0.0552	0.0399	0.0130
STM - (61) (STORM)	0.0150	1619.0144	0.0001	0.9611	1.5361	0.0319	0.0135	0.0130
STM - (62) (STORM)	0.0020	220.7285	0.0000	0.3382	0.5386	0.0103	0.0034	0.0130
STM - (63) (STORM)	0.0024	261.1173	0.0000	0.3418	0.5501	0.0110	0.0038	0.0130
STM - (65) (STORM)	0.0027	292.7992	0.0001	0.3345	0.6655	0.0105	0.0037	0.0130
STM - (66) (STORM)	0.0027	292.8256	0.0000	0.3345	0.5366	0.0116	0.0041	0.0130
ID*359	0.0122	1315.7460	0.0002	0.4597	0.3379	0.0313	0.0313	0.0130
STM - (67) (STORM)	0.0014	148.4767	0.0000	0.3372	0.5304	0.0087	0.0026	0.0130
STM - (68) (STORM)	0.0016	172.2905	0.0000	0.3370	0.5302	0.0093	0.0029	0.0130
ID*362	0.0092	994.6091	0.0002	0.4303	0.3042	0.0286	0.0269	0.0130
STM - (69) (STORM)	0.0016	171.5507	0.0000	0.3370	0.5279	0.0093	0.0029	0.0130
STM - (70) (STORM)	0.0018	196.0773	0.0000	0.3370	0.5273	0.0099	0.0032	0.0130
ID*365	0.0058	627.3631	0.0001	0.4040	0.2683	0.0241	0.0190	0.0130
STM - (71) (STORM)	0.0015	163.5887	0.0000	0.3373	0.5201	0.0093	0.0030	0.0130
STM - (72) (STORM)	0.0017	178.8058	0.0000	0.3375	0.5174	0.0097	0.0033	0.0130
ID*368	0.0043	464.1982	0.0001	0.3895	0.2595	0.0220	0.0161	0.0130
STM - (73) (STORM)	0.0014	156.3641	0.0000	0.3372	0.5174	0.0091	0.0029	0.0130
ID*370	0.0029	308.1003	0.0001	0.3737	0.2332	0.0195	0.0133	0.0130
STM - (74) (STORM)	0.0012	129.6429	0.0000	0.3370	0.5110	0.0085	0.0026	0.0130
STM - (75) (STORM)	0.0013	137.4752	0.0001	0.3490	0.2939	0.0157	0.0157	0.0130
STM - (76) (STORM)	0.0049	530.3215	0.0003	0.4242	0.2507	0.0249	0.0270	0.0130
ID*374	0.0061	660.1696	0.0003	0.4351	0.2657	0.0259	0.0280	0.0130
STM - (77) (STORM)	0.0012	129.5612	0.0001	0.3476	0.3052	0.0154	0.0156	0.0130
ID*376	0.0108	1165.6351	0.0004	0.4450	0.2931	0.0309	0.0379	0.0130
STM - (78) (STORM)	0.0015	156.9992	0.0001	0.3440	0.3552	0.0155	0.0156	0.0130
ID*378	0.0123	1330.2563	0.0005	0.4575	0.3117	0.0317	0.0388	0.0130
STM - (79) (STORM)	0.0015	164.2543	0.0001	0.3420	0.3881	0.0153	0.0155	0.0130
STM - (80) (STORM)	0.0018	196.7252	0.0001	0.3399	0.4309	0.0154	0.0154	0.0130
ID*381	0.0190	2047.8171	0.0006	0.4751	0.3644	0.0363	0.0500	0.0130
STM - (81) (STORM)	0.0016	172.8382	0.0001	0.3384	0.4660	0.0149	0.0151	0.0130
STM - (82) (STORM)	0.0016	172.7883	0.0001	0.3373	0.4934	0.0147	0.0149	0.0130
ID*384	0.0357	3856.6152	0.0010	0.5350	0.4528	0.0471	0.0813	0.0130
STM - (83) (STORM)	0.0014	149.0311	0.0001	0.3368	0.5130	0.0143	0.0145	0.0130
STM - (84) (STORM)	0.0011	121.5448	0.0002	0.3364	0.5264	0.0139	0.0140	0.0130
ID*387	0.0368	3978.6476	0.0010	0.5365	0.4485	0.0475	0.0820	0.0130
ID*388	0.0014	154.1644	0.0001	0.3492	0.3026	0.0156	0.0146	0.0130
ID*390	0.0447	4830.9405	0.0009	0.5522	0.5005	0.0510	0.0952	0.0130
STM - (86) (STORM)	0.0046	500.8568	0.0001	0.3370	0.5947	0.0163	0.0128	0.0130
STM - (87) (STORM)	0.0088	953.1356	0.0002	0.4270	0.3571	0.0269	0.0239	0.0130
STM - (88) (STORM)	0.0145	1563.3431	0.0004	0.4421	0.3395	0.0326	0.0398	0.0130
STM - (89) (STORM)	0.0174	1876.5710	0.0005	0.9744	0.8223	0.0407	0.0536	0.0130
STM - (95) (STORM)	0.0081	869.4919	0.0002	0.3905	0.4607	0.0210	0.0133	0.0130

STM - (96)	(STORM)	0.0160	1723.8791	0.0003	0.4132	0.5317	0.0266	0.0213	0.0130
	ID*397	0.0755	8154.8729	0.0015	0.6991	0.7283	0.0606	0.1327	0.0130
	ID*398	0.0627	6771.3188	0.0012	0.6585	0.8288	0.0568	0.1257	0.0130
STM - (119)	(STORM)	0.0024	258.1301	0.0000	0.3666	0.4145	0.0131	0.0052	0.0130
STM - (120)	(STORM)	0.0067	726.0172	0.0001	0.4062	0.3816	0.0221	0.0132	0.0130
	ID*401	0.0719	7766.4268	0.0013	0.6763	0.8368	0.0592	0.1308	0.0130
STM - (121)	(STORM)	0.0092	994.5939	0.0002	0.4156	0.3935	0.0248	0.0164	0.0130
STM - (130)	(STORM)	0.0048	515.3268	0.0001	0.3863	0.4180	0.0169	0.0093	0.0130
	ID*409	0.0087	936.5699	0.0002	0.3972	0.4503	0.0212	0.0146	0.0130
STM - (142)	(STORM)	0.0033	351.6353	0.0003	0.4452	0.2780	0.0229	0.0252	0.0130
STM - (143)	(STORM)	0.0086	929.0409	0.0005	0.5272	0.3890	0.0297	0.0372	0.0130
	ID*412	0.0086	927.4992	0.0005	0.4976	0.3617	0.0296	0.0363	0.0130
	ID*413	0.0368	3979.6589	0.0009	0.5374	0.4710	0.0497	0.0933	0.0130
	ID*414	0.0626	6764.6583	0.0009	0.6441	0.6349	0.0551	0.1065	0.0130
	ID*415	0.0626	6764.7487	0.0008	0.6579	0.6534	0.0554	0.1079	0.0130
STM - (151)	(STORM)	0.0021	222.0367	0.0001	0.4143	0.2278	0.0192	0.0175	0.0130
STM - (152)	(STORM)	0.0021	222.5838	0.0002	0.4144	0.2667	0.0188	0.0180	0.0130
	ID*418	0.0147	1589.7798	0.0004	0.4516	0.3341	0.0326	0.0346	0.0130
STM - (155)	(STORM)	0.0019	206.8394	0.0001	0.4018	0.3580	0.0147	0.0108	0.0130
STM - (158)	(STORM)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0130
	ID*421	0.0111	1198.4592	0.0002	0.4077	0.5097	0.0221	0.0157	0.0130
STM - (160)	(STORM)	0.0007	80.7033	0.0000	0.3449	0.3587	0.0082	0.0023	0.0130
	ID*423	0.1092	11793.608	0.0014	0.7854	1.3891	0.0567	0.1242	0.0130
STM - (161)	(STORM)	0.0042	455.6791	0.0001	0.3822	0.3740	0.0174	0.0081	0.0130
	ID*425	0.0475	5125.9159	0.0008	0.5950	0.5591	0.0519	0.0982	0.0130
STM - (170)	(STORM)	0.2217	23944.307	0.0023	0.9768	1.5693	0.0890	0.1663	0.0130
	ID*427	0.0494	5330.1991	0.0005	0.9815	1.0616	0.0625	0.0628	0.0130
	Link116	0.0016	170.1031	0.0002	0.4090	0.2809	0.0157	0.0123	0.0130
	Link117	0.0032	348.2348	0.0002	0.3879	0.3618	0.0167	0.0128	0.0130
	Link118	0.0032	348.8523	0.0002	0.3879	0.3574	0.0167	0.0129	0.0130
	Link119	0.0032	347.3301	0.0003	0.3879	0.3504	0.0168	0.0133	0.0130
	Link122	0.0138	1490.1520	0.0003	0.4253	0.5227	0.0245	0.0179	0.0130
	spill	0.0000	0.9231	0.0001	0.0838	0.0019	0.0110	0.1876	0.0150
	Roof Control	0.0150	1619.0662	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
	Roof Control2	0.0150	1617.5569	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
	Orifice 1	0.2217	23943.420	0.0020	0.9770	0.8909	0.0963	0.1373	0.0052
	FREE# 1	0.2217	23944.782						

| Table E13. Channel losses(H), headwater depth (HW), tailwater |
| depth (TW), critical and normal depth (Yc and Yn). |
| Use this section for culvert comparisons |

Conduit Name	Maximum Flow	Head Loss	Friction Loss	Critical Depth	Normal Depth	HW Elevat	TW Elevat		
STM - (14)	(STORM)	0.4293	0.0724	0.0887	0.4153	0.5171	241.5792	241.4187	Max Flow
STM - (15)	(STORM)	0.6430	0.0721	0.0787	0.4824	0.5672	241.8713	241.7324	Max Flow
STM - (16)	(STORM)	0.7666	0.0679	0.0465	0.5149	0.5934	240.2064	240.1048	Max Flow
STM - (17)	(STORM)	0.8356	0.1046	0.1067	0.5388	0.6336	239.7553	239.5543	Max Flow
STM - (18)	(STORM)	0.7717	0.0702	0.1395	0.5166	0.5971	239.6900	239.5225	Max Flow
STM - (19)	(STORM)	0.8236	0.0994	0.1200	0.5347	0.6262	241.4431	241.2360	Max Flow
STM - (20)	(STORM)	1.2072	0.2132	0.2742	0.6509	0.9000	241.2460	240.7546	Max Flow
STM - (21)	(STORM)	1.2020	0.1780	0.0725	0.6496	0.6929	239.8531	239.6003	Max Flow
STM - (22)	(STORM)	1.2008	0.1779	0.1764	0.6492	0.6918	239.6055	239.2492	Max Flow
STM - (24)	(STORM)	1.1016	0.1082	0.3189	0.6072	0.6335	239.4215	239.1018	Max Flow
STM - (25)	(STORM)	1.1573	0.1193	0.3915	0.6232	0.6189	239.0791	238.7256	Max Flow
STM - (26)	(STORM)	1.2253	0.1336	0.3905	0.6415	0.6439	238.6829	238.2887	Max Flow
STM - (27)	(STORM)	1.2983	0.1499	0.2503	0.6612	0.8648	238.2081	237.8071	Max Flow
STM - (28)	(STORM)	1.3446	0.2203	0.3079	0.6864	0.7881	238.0565	237.5270	Max Flow
STM - (29)	(STORM)	2.5931	0.4410	0.2317	0.9027	1.0500	237.1228	236.4454	Max Flow
STM - (30)	(STORM)	0.0429	0.0000	0.1428	0.1413	0.0988	242.1200	242.1185	Max Flow
STM - (32)	(STORM)	0.0482	0.0029	0.0377	0.1434	0.1610	241.3687	241.3597	Max Flow
STM - (33)	(STORM)	0.2152	0.0282	0.0794	0.3000	0.3491	241.1789	241.1105	Max Flow
STM - (34)	(STORM)	0.2993	0.0566	0.0614	0.3568	0.4418	241.2005	241.0825	Max Flow
STM - (35)	(STORM)	0.4153	0.0682	0.0399	0.4083	0.5033	240.8655	240.7574	Max Flow
STM - (36)	(STORM)	0.4146	0.0681	0.0921	0.4080	0.5016	240.7623	240.6020	Max Flow
STM - (37)	(STORM)	0.4848	0.0930	0.0752	0.4423	0.5946	240.5994	240.4309	Max Flow
STM - (38)	(STORM)	0.6663	0.1738	0.3005	0.5189	0.6750	240.4441	239.9787	Max Flow
STM - (39)	(STORM)	0.4526	0.0788	0.1528	0.4270	0.5427	240.1249	239.9060	Max Flow
STM - (40)	(STORM)	1.1996	0.3693	1.7467	0.6625	0.4756	240.0282	238.6552	Max Flow
STM - (41)	(STORM)	1.2823	0.4129	1.4879	0.6765	0.5142	238.6631	237.1932	Max Flow
STM - (53)	(STORM)	0.6457	0.1611	0.5100	0.5113	0.6750	241.8821	241.2081	Max Flow
STM - (54)	(STORM)	0.7595	0.2241	0.7015	0.5512	0.6750	241.2061	240.2752	Max Flow
STM - (55)	(STORM)	0.6200	0.1504	0.4189	0.5010	0.6750	240.6406	240.0733	Max Flow
STM - (56)	(STORM)	0.8660	0.1914	0.3103	0.5762	0.6125	240.4764	239.9718	Max Flow
STM - (57)	(STORM)	0.0880	0.0913	0.5622	0.2054	0.1891	241.0770	240.4625	Max Flow
STM - (58)	(STORM)	0.0884	0.0691	0.1354	0.2058	0.1896	240.4680	240.3754	Max Flow
STM - (59)	(STORM)	0.0881	0.0000	0.4463	0.2173	0.1543	241.5144	241.0770	Max Flow
	ID*352	0.1787	0.1040	0.2851	0.2973	0.2907	240.3795	240.0756	Max Flow
STM - (61)	(STORM)	0.0881	0.0000	0.4349	0.2055	0.1429	241.5029	241.0679	Max Flow
STM - (62)	(STORM)	0.0601	0.0000	0.4239	0.1682	0.1171	241.4775	241.0521	Max Flow
STM - (63)	(STORM)	0.0710	0.0000	0.5606	0.1836	0.1278	241.4879	240.9268	Max Flow
STM - (65)	(STORM)	0.0794	0.0000	0.3194	0.1858	0.1154	241.0975	240.8901	Max Flow
STM - (66)	(STORM)	0.0796	0.0000	0.2776	0.1949	0.1353	241.4956	241.2173	Max Flow
	ID*359	0.3376	0.0719	0.1234	0.3798	0.4935	241.0614	240.8648	Max Flow
STM - (67)	(STORM)	0.0405	0.0000	0.3941	0.1371	0.0960	241.4563	241.0627	Max Flow
STM - (68)	(STORM)	0.0470	0.0000	0.3809	0.1481	0.1035	241.4637	241.2087	Max Flow
	ID*362	0.2567	0.0417	0.0623	0.3291	0.3933	241.2442	241.1532	Max Flow
STM - (69)	(STORM)	0.0467	0.0000	0.3817	0.1476	0.1031	241.4634	241.2601	Max Flow
STM - (70)	(STORM)	0.0530	0.0000	0.3826	0.1576	0.1101	241.4702	241.2416	Max Flow
	ID*365	0.1745	0.0330	0.0639	0.2801	0.3364	241.2374	241.1597	Max Flow
STM - (71)	(STORM)	0.0446	0.0000	0.3957	0.1443	0.1007	241.4716	241.3599	Max Flow
STM - (72)	(STORM)	0.0485	0.0000	0.3914	0.1505	0.1052	241.4778	241.3819	Max Flow

STM - (73)	(STORM)	ID*368	0.1343	0.0186	0.0629	0.2442	0.2834	241.2621	241.2195	Max Flow
		ID*370	0.0425	0.0000	0.3928	0.1407	0.0983	241.4679	241.3787	Max Flow
		ID*374	0.0911	0.0110	0.0524	0.1993	0.2269	241.2569	241.2374	Max Flow
STM - (74)	(STORM)	ID*376	0.0353	0.0000	0.3427	0.1278	0.0901	241.4549	241.3665	Max Flow
STM - (75)	(STORM)	ID*378	0.0429	0.0000	0.2756	0.1414	0.1178	241.8300	241.8063	Max Flow
STM - (76)	(STORM)	ID*379	0.1613	0.0277	0.0451	0.2689	0.3193	242.1350	242.0788	Max Flow
		ID*376	0.1895	0.0388	0.0543	0.2926	0.3572	241.4290	241.3440	Max Flow
STM - (77)	(STORM)	ID*376	0.0386	0.0000	0.3033	0.1336	0.1091	242.2447	242.2367	Max Flow
		ID*376	0.3521	0.0776	0.0854	0.3882	0.5246	241.9990	241.8370	Max Flow
STM - (78)	(STORM)	ID*378	0.0479	0.0000	0.4261	0.1495	0.1116	241.9096	241.8951	Max Flow
		ID*378	0.3699	0.0857	0.1125	0.3981	0.6000	241.8028	241.6036	Max Flow
STM - (79)	(STORM)	ID*381	0.0503	0.0000	0.5255	0.1534	0.1088	241.8964	241.8915	Max Flow
STM - (80)	(STORM)	ID*381	0.0584	0.0000	0.6537	0.1657	0.1106	241.9057	241.8918	Max Flow
		ID*381	0.4509	0.0798	0.0675	0.4261	0.5124	241.4854	241.3388	Max Flow
STM - (81)	(STORM)	ID*384	0.0471	0.0000	0.7408	0.1482	0.0945	242.5009	242.4934	Max Flow
STM - (82)	(STORM)	ID*384	0.0490	0.0000	0.7638	0.1512	0.0935	242.2989	242.2934	Max Flow
		ID*384	0.6958	0.0868	0.0370	0.5027	0.6017	240.4618	240.3394	Max Flow
STM - (83)	(STORM)	ID*387	0.0689	0.0000	0.5669	0.1808	0.1087	241.8368	241.8202	Max Flow
STM - (84)	(STORM)	ID*388	0.0750	0.0000	0.2865	0.1888	0.1117	241.9231	241.8465	Max Flow
		ID*388	0.7180	0.0942	0.0342	0.5110	0.6228	240.3279	240.2103	Max Flow
		ID*390	0.0450	0.0000	0.2767	0.1449	0.1206	242.1185	242.1122	Max Flow
		ID*390	0.8454	0.0982	0.0819	0.5421	0.6390	240.1048	239.9332	Max Flow
STM - (86)	(STORM)	ID*398	0.1354	0.0000	1.1521	0.2573	0.1491	242.3769	242.3131	Max Flow
STM - (87)	(STORM)	ID*398	0.2530	0.0694	0.4043	0.3402	0.3659	240.4252	240.0445	Max Flow
STM - (88)	(STORM)	ID*401	0.4162	0.1099	0.3212	0.4227	0.4713	240.0455	239.6171	Max Flow
STM - (89)	(STORM)	ID*401	0.3951	0.1071	0.3459	0.3977	0.4023	239.3414	239.0789	Max Flow
STM - (95)	(STORM)	ID*401	0.2293	0.0956	0.7219	0.3371	0.3055	240.4192	239.8216	Max Flow
STM - (96)	(STORM)	ID*401	0.4545	0.2116	0.9430	0.4498	0.4644	239.8216	238.6418	Max Flow
		ID*401	1.5579	0.2186	0.2893	0.7244	0.9750	238.7685	238.2591	Max Flow
		ID*401	1.1990	0.1293	0.1289	0.6345	0.6341	239.2556	239.0340	Max Flow
STM - (119)	(STORM)	ID*401	0.0678	0.0000	0.4045	0.1793	0.1492	240.9094	240.5342	Max Flow
STM - (120)	(STORM)	ID*401	0.1910	0.0000	0.3148	0.2939	0.3018	240.5342	240.2404	Max Flow
		ID*401	1.4575	0.1910	0.0782	0.7011	0.7368	239.0379	238.7671	Max Flow
STM - (121)	(STORM)	ID*401	0.2615	0.0000	0.1923	0.3460	0.3750	240.2404	240.0330	Max Flow
STM - (130)	(STORM)	ID*401	0.1357	0.0753	0.6392	0.2716	0.2478	247.7486	247.2504	Max Flow
		ID*401	0.2467	0.1197	0.4642	0.3492	0.3232	247.2539	246.7402	Max Flow
STM - (142)	(STORM)	ID*401	0.2265	0.0541	0.1456	0.3212	0.4141	242.3374	242.1385	Max Flow
STM - (143)	(STORM)	ID*401	0.2766	0.0473	0.2057	0.3422	0.4143	242.1013	241.8891	Max Flow
		ID*412	0.2757	0.0471	0.1911	0.3416	0.4135	242.3057	242.1031	Max Flow
		ID*413	0.7036	0.0567	0.0402	0.4922	0.5613	240.2689	240.1875	Max Flow
		ID*414	1.2052	0.1778	0.2882	0.6504	0.9000	240.7621	240.2950	Max Flow
		ID*415	1.2031	0.1778	0.2737	0.6498	0.9000	240.3009	239.8478	Max Flow
STM - (151)	(STORM)	ID*415	0.0757	0.0000	0.1374	0.1897	0.2301	242.2037	242.1518	Max Flow
STM - (152)	(STORM)	ID*415	0.0925	0.0169	0.0857	0.2107	0.2223	242.1994	242.1582	Max Flow
		ID*418	0.4176	0.1071	0.3335	0.4235	0.6000	242.3233	241.8811	Max Flow
STM - (155)	(STORM)	ID*418	0.0614	0.0074	0.4031	0.1700	0.1494	242.2309	242.1837	Max Flow
STM - (158)	(STORM)	ID*421	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	Max Flow
		ID*421	0.3155	0.1950	0.6643	0.3887	0.3740	246.7402	245.8789	Max Flow
STM - (160)	(STORM)	ID*423	0.0212	0.0000	0.1359	0.1036	0.0879	238.2887	238.1881	Max Flow
		ID*423	1.3805	0.2318	0.2527	0.6949	0.5885	237.5303	237.1166	Max Flow
STM - (161)	(STORM)	ID*425	0.1198	0.0000	0.3599	0.2551	0.2577	238.1881	237.8250	Max Flow
		ID*425	0.7885	0.0760	0.1084	0.5225	0.6068	241.5874	241.4229	Max Flow
STM - (170)	(STORM)	Link116	2.5929	0.3572	0.2141	0.9027	0.6300	233.5824	232.8100	Max Flow
		Link117	0.4571	0.0963	0.4243	0.4292	0.3549	239.7066	239.5004	Max Flow
		Link118	0.1361	0.0000	0.1409	0.2719	0.3750	242.2904	242.1503	Max Flow
		Link119	0.1687	0.0000	0.3096	0.3016	0.2956	242.2496	241.9620	Max Flow
		Link120	0.1152	0.0000	0.3096	0.2499	0.2219	242.4779	242.3496	Max Flow
		Link121	0.1155	0.0000	0.3096	0.2502	0.2222	242.4214	242.2940	Max Flow
		Link122	0.3921	0.2949	1.1608	0.4167	0.4500	245.8789	244.4067	Max Flow
		spill	0.0526	0.0000	0.0041	0.0343	0.3000	242.4450	242.4450	Max Flow
		Roof Control1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	Max Flow
		Roof Control2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	Max Flow
		Orifice 1	2.5931	0.0000	2.6229	1.2416	0.7500	236.4471	233.5821	Max Flow

 | Table E13a. CULVERT ANALYSIS CLASSIFICATION, |
 | and the time the culvert was in a particular |
 | classification during the simulation. The time is |
 | in minutes. The Dynamic Wave Equation is used for |
 | all conduit analysis but the culvert flow classification |
 | condition is based on the HW and TW depths. |

	Mild Slope	Mild Slope TW	Steep Slope TW	Slug Flow	Mild Slope TW > D	Mild Slope TW ≤ D			
Conduit Name	Critical D Outlet Control	Control Outlet Control	Insignf Entrance Control	Outlet/ Entrance Control	Outlet Control	Outlet Control	Outlet Control	Inlet Control	Inlet Configuration
STM - (14)	191.8333	397.2500	1143.7500	0.0000	67.1667	0.0000	0.0000	0.0000	None
STM - (15)	243.5833	473.9167	1009.0000	0.0000	73.5000	0.0000	0.0000	0.0000	None
STM - (16)	261.6667	482.3333	983.4167	0.0000	72.5833	0.0000	0.0000	0.0000	None
STM - (17)	279.3333	508.4167	937.4167	0.0000	74.8333	0.0000	0.0000	0.0000	None
STM - (18)	287.5000	531.9167	903.5833	0.0000	77.0000	0.0000	0.0000	0.0000	None
STM - (19)	315.2500	563.0000	840.8333	0.0000	80.9167	0.0000	0.0000	0.0000	None
STM - (20)	333.6667	580.0833	802.3333	0.0000	83.9167	0.0000	0.0000	0.0000	None
STM - (21)	352.2500	604.3333	756.4167	13.4167	29.2500	64.0000	180.3333	0.0000	None
STM - (22)	350.9167	610.3333	870.7500	10.4167	29.0000	68.0833	60.5000	0.0000	None
STM - (24)	411.5833	556.2500	695.9167	14.9167	99.5000	7.0833	14.7500	0.0000	None
STM - (25)	423.3333	497.6667	735.9167	10.9167	0.0000	114.0833	18.0833	0.0000	None
STM - (26)	438.4167	516.5000	696.5000	6.5000	8.8333	114.3333	18.9167	0.0000	None
STM - (27)	457.5833	731.5000	479.2500	0.0000	131.6667	0.0000	0.0000	0.0000	None
STM - (28)	469.9167	549.7500	615.5000	5.0000	109.5833	21.0000	29.2500	0.0000	None
STM - (29)	35.5000	957.0000	132.6667	131.5000	133.1667	12.4167	397.7500	0.0000	None
STM - (30)	0.0000	0.0000	1744.2500	21.0000	0.0000	33.3333	1.4167	0.0000	None

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| Kinematic Wave Approximations |

| Time in Minutes for Each Condition |

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	Conduit Name	Duration of Normal Flow	Slope Criteria	Super-Critical	Roll Waves
STM - (14)	(STORM)	0.0000	64.8944	0.0000	0.0000
STM - (15)	(STORM)	0.0000	78.3504	0.0000	0.0000
STM - (16)	(STORM)	0.0000	36.8480	0.0000	0.0000
STM - (17)	(STORM)	0.0000	40.5429	0.0000	0.0000
STM - (18)	(STORM)	0.0000	92.1377	0.0000	0.0000
STM - (19)	(STORM)	0.0000	61.8132	0.0000	0.0000
STM - (20)	(STORM)	0.0000	36.4417	0.0000	0.0000
STM - (21)	(STORM)	0.0000	38.2500	0.0000	0.0000
STM - (22)	(STORM)	0.0000	80.8804	0.0000	0.0000
STM - (24)	(STORM)	0.0000	128.8333	0.0000	0.0000
STM - (25)	(STORM)	0.0000	138.4583	0.0000	0.0000
STM - (26)	(STORM)	0.0000	282.9167	0.0000	0.0000
STM - (27)	(STORM)	0.0000	59.7576	0.0000	0.0000
STM - (28)	(STORM)	0.0000	37.7361	0.0000	0.0000
STM - (29)	(STORM)	0.0000	1573.7083	0.0000	0.0000
STM - (30)	(STORM)	1.6389	57.5556	1648.0278	0.0000
STM - (32)	(STORM)	0.0000	33.8194	0.0000	0.0000
STM - (33)	(STORM)	0.0000	36.3333	0.0000	0.0000
STM - (34)	(STORM)	0.0000	28.1667	0.0000	0.0000
STM - (35)	(STORM)	0.0000	33.6528	0.0000	0.0000
STM - (36)	(STORM)	0.0000	1632.0764	0.0000	0.0000
STM - (37)	(STORM)	0.0000	1628.1667	0.0000	0.0000
STM - (38)	(STORM)	0.0000	66.6944	0.0000	0.0000
STM - (39)	(STORM)	0.0000	8.4667	0.0000	0.0000
STM - (40)	(STORM)	0.0000	116.3750	1630.7083	0.0000
STM - (41)	(STORM)	0.0000	151.4167	1589.6250	0.0000
STM - (53)	(STORM)	0.0040	83.4696	0.0000	0.0000
STM - (54)	(STORM)	42.2635	1629.3508	0.0000	0.0000
STM - (55)	(STORM)	0.0000	27.3472	0.0000	0.0000
STM - (56)	(STORM)	0.0000	1617.7677	0.0000	0.0000
STM - (57)	(STORM)	0.2500	211.6944	0.0000	0.0000
STM - (58)	(STORM)	0.0000	1657.7500	0.0000	0.0000
STM - (59)	(STORM)	133.0000	210.4167	1657.7500	0.0000
	ID*352	28.0417	136.8750	2.8333	0.0000
STM - (61)	(STORM)	0.0833	0.0833	1657.7500	0.0000
STM - (62)	(STORM)	1.0863	1.1102	1720.1667	0.0000
STM - (63)	(STORM)	1.7725	1.7725	1720.4167	0.0000
STM - (65)	(STORM)	4.5409	7.7354	1721.1667	0.0000
STM - (66)	(STORM)	0.8936	0.8936	1703.5833	0.0000
	ID*359	0.0000	77.8472	0.0000	0.0000
STM - (67)	(STORM)	2.5391	2.5391	1719.5000	0.0000
STM - (68)	(STORM)	6.6389	6.7222	1720.1667	0.0000
	ID*362	0.0000	46.4482	0.0000	0.0000
STM - (69)	(STORM)	7.3889	10.0417	1719.9167	0.0000
STM - (70)	(STORM)	4.5556	10.4167	1719.6111	0.0000
	ID*365	0.0000	33.5000	0.0000	0.0000
STM - (71)	(STORM)	3.3289	10.6389	1714.2292	0.0000
STM - (72)	(STORM)	22.1250	33.3750	1697.4722	0.0000
	ID*368	0.0000	30.5556	0.0000	0.0000
STM - (73)	(STORM)	3.3889	11.6389	1697.8472	0.0000
	ID*370	0.0000	1663.4583	0.0000	0.0000
STM - (74)	(STORM)	19.5000	27.1667	1696.3373	0.0000
STM - (75)	(STORM)	1.4097	65.5972	1638.1667	0.0000
STM - (76)	(STORM)	0.0000	73.6139	0.0000	0.0000
	ID*374	0.0000	72.1250	0.0000	0.0000
STM - (77)	(STORM)	2.5139	65.7778	1653.9583	0.0000
	ID*376	0.0000	56.7262	0.0000	0.0000
STM - (78)	(STORM)	4.4306	67.8056	1655.7083	0.0000
	ID*378	0.0000	56.0083	0.0000	0.0000
STM - (79)	(STORM)	5.7083	68.4861	1655.2083	0.0000
STM - (80)	(STORM)	6.7917	69.5417	1656.1528	0.0000
	ID*381	0.0000	47.2669	0.0000	0.0000
STM - (81)	(STORM)	7.7917	70.0833	1655.6806	0.0000
STM - (82)	(STORM)	8.6944	69.8750	1656.2639	0.0000
	ID*384	0.0000	22.6549	0.0000	0.0000
STM - (83)	(STORM)	10.0694	69.8611	1656.9167	0.0000
STM - (84)	(STORM)	10.7917	69.4663	1656.7083	0.0000
	ID*387	0.0000	11.1766	0.0000	0.0000
	ID*388	2.0000	60.5625	1658.5417	0.0000
	ID*390	0.0000	30.0863	0.0000	0.0000
STM - (86)	(STORM)	9.1819	68.6667	1667.1667	0.0000
STM - (87)	(STORM)	6.6667	134.4440	0.0000	0.0000
STM - (88)	(STORM)	134.7500	309.6607	1328.7500	0.0000
STM - (89)	(STORM)	31.4583	1708.2708	0.0000	0.0000
STM - (95)	(STORM)	0.0000	38.8056	1696.4722	0.0000
STM - (96)	(STORM)	0.0417	0.0417	1708.1250	0.0000
	ID*397	0.0000	64.3472	0.0000	0.0000
	ID*398	0.0000	142.5000	0.0000	0.0000
STM - (119)	(STORM)	206.7500	209.2083	1720.2500	0.0000
STM - (120)	(STORM)	3.5246	30.9028	0.0000	0.0000
	ID*401	0.0000	57.1667	0.0000	0.0000
STM - (121)	(STORM)	6.7778	6.7778	0.0000	0.0000
STM - (130)	(STORM)	0.0000	137.5833	1693.5486	0.0000
	ID*409	0.0000	28.5000	1693.3889	0.0000
STM - (142)	(STORM)	0.0000	94.0139	0.0000	0.0000
STM - (143)	(STORM)	0.2500	93.6091	0.0000	0.0000

	ID*412	0.0000	66.9861	0.0000	0.0000
	ID*413	0.0000	37.8790	0.0000	0.0000
	ID*414	0.0000	42.2897	0.0000	0.0000
	ID*415	0.0000	43.1250	0.0000	0.0000
STM - (151)	(STORM)	0.1250	63.5694	0.0000	0.0000
STM - (152)	(STORM)	0.0000	74.8730	0.0000	0.0000
	ID*418	0.0000	89.9239	0.0000	0.0000
STM - (155)	(STORM)	187.0417	1717.3750	0.0000	0.0000
STM - (158)	(STORM)	0.0000	0.0000	0.0000	0.0000
	ID*421	0.0000	65.3681	1691.9722	0.0000
STM - (160)	(STORM)	35.8194	92.7917	1659.0833	0.0000
	ID*423	0.0000	59.4583	1575.2083	0.0000
STM - (161)	(STORM)	4.5047	4.5325	0.0000	0.0000
	ID*425	0.0000	49.3615	0.0000	0.0000
STM - (170)	(STORM)	0.0000	0.0000	1721.0000	0.0000
	ID*427	0.0000	83.9167	1635.5833	0.0000
	Link116	0.4583	40.5833	0.0000	0.0000
	Link117	1.7083	50.2361	1654.9444	0.0000
	Link118	2.1667	68.3611	1654.1667	0.0000
	Link119	2.5833	73.5972	1649.1667	0.0000
	Link122	0.0000	0.0000	1717.0486	0.0000
	spill	0.0000	11.9722	0.0000	0.0000
	Roof Control1	0.0000	0.0000	0.0000	0.0000
	Roof Control2	0.0000	0.0000	0.0000	0.0000
	Orifice 1	0.0000	0.0000	146.8333	0.0000

Table E15 - SPREADSHEET INFO LIST
 Conduit Flow and Junction Depth Information for use in
 spreadsheets. The maximum values in this table are the
 true maximum values because they sample every time step.
 The values in the review results may only be the
 maximum of a subset of all the time steps in the run.
 Note: These flows are only the flows in a single barrel.

Conduit Name	Maximum Flow (cms)	Total Flow (m^3)	Maximum Velocity (m/s)	Maximum Volume (m^3)	##	Junction Name	Invert Elevation (m)	Maximum Elevation (m)	
STM - (14) (STORM)	0.4294	1876.4424	1.2032	12.9183	##	STM MH 188	244.6200	245.8789	
STM - (15) (STORM)	0.6431	3498.4220	1.1889	19.2214	##	STM MH 187	246.6800	247.7506	
STM - (16) (STORM)	0.7666	4329.2007	1.1940	13.4977	##	STM MH 203	245.9300	247.2539	
STM - (17) (STORM)	0.8356	4965.8323	1.3452	31.1296	##	STM MH 236	245.3200	246.7402	
STM - (18) (STORM)	0.7718	4966.5575	1.2874	39.9192	##	STM MH 21	238.1200	241.7196	
STM - (19) (STORM)	0.8238	5275.4107	1.2751	35.0787	##	STM MH 23	237.2600	240.3542	
STM - (20) (STORM)	1.2072	6763.2565	1.8687	42.2009	##	STM MH 154	237.0000	240.0643	
STM - (21) (STORM)	1.2020	6767.4468	1.8695	11.1955	##	STM MH 22	237.4200	240.5605	
STM - (22) (STORM)	1.2008	6767.9469	1.8686	27.0726	##	CB 6	241.3870	242.6074	
STM - (24) (STORM)	1.1016	8387.1681	1.6770	68.4806	##	STM MH 227	240.7700	242.3593	
STM - (25) (STORM)	1.1573	8862.1754	1.7809	68.1465	##	STM MH 132	241.1800	242.3605	
STM - (26) (STORM)	1.2253	9317.5681	1.6958	69.6305	##	STM MH 116	240.9800	241.0980	
STM - (27) (STORM)	1.2983	9621.4664	1.7152	59.7831	##	STM MH 221	237.6700	240.9316	
STM - (28) (STORM)	1.3446	11337.6578	2.0798	38.4072	##	STM MH 35	240.4400	241.3730	
STM - (29) (STORM)	2.5933	23927.4665	2.9450	24.1211	##	STM MH 36	240.1700	241.2169	
STM - (30) (STORM)	0.0435	154.2724	1.5988	1.1586	##	STM MH 118	240.2800	241.3044	
STM - (32) (STORM)	0.0484	178.7008	0.6295	3.7957	##	STM MH 34	240.9000	241.4924	
STM - (33) (STORM)	0.2153	823.2451	0.9471	10.1834	##	STM MH 121	240.8000	241.4885	
STM - (34) (STORM)	0.2993	1166.7796	1.0540	7.7291	##	STM MH 120	240.7000	241.4738	
STM - (35) (STORM)	0.4153	1608.9448	1.1571	6.1677	##	STM MH 117	240.0200	241.0996	
STM - (36) (STORM)	0.4146	1607.4076	1.1555	14.2768	##	STM MH 119	240.5500	241.4385	
STM - (37) (STORM)	0.4848	1869.4062	1.3510	8.5307	##	STM MH 20	238.3400	241.8710	
STM - (38) (STORM)	0.6663	5321.9799	1.8620	18.2965	##	STM MH 37	239.8700	240.9064	
STM - (39) (STORM)	0.4526	5328.7126	1.3602	20.0870	##	STM MH 40	239.4800	240.4792	
STM - (40) (STORM)	1.1998	11450.0214	3.1426	40.0690	##	STM MH 86	240.8800	241.0770	
STM - (41) (STORM)	1.2826	11985.1751	2.8443	37.7396	##	STM MH 115	240.0300	240.6555	
STM - (53) (STORM)	0.6457	2460.7496	1.7812	32.8096	##	STM MH 87	240.2300	240.6813	
STM - (54) (STORM)	0.7595	2878.5853	2.1034	32.4251	##	STM MH 223	240.9100	242.5863	
STM - (55) (STORM)	0.6203	3315.5134	1.7199	29.3003	##	STM MH 220	237.9000	241.3161	
STM - (56) (STORM)	0.8660	5497.8193	1.9388	24.2714	##	STM MH 205	239.9800	242.4532	
STM - (57) (STORM)	0.0881	1618.0416	1.3084	6.1455	##	STM MH 128	239.5050	242.4604	
STM - (58) (STORM)	0.0884	1617.8978	1.0364	3.9430	##	STM MH 127	240.0800	242.4944	
STM - (59) (STORM)	0.0881	1617.3630	2.0361	0.3695	##	STM MH 122	240.7250	242.5694	
	ID*352	0.1787	3241.5011	1.4419	9.0544	##	STM MH 123	240.6400	242.5662
STM - (61) (STORM)	0.0881	1619.0144	2.0296	0.3098	##	STM MH 126	240.2150	242.5194	
STM - (62) (STORM)	0.0601	220.7285	1.8233	0.1933	##	STM MH 125	240.3800	242.5439	
STM - (63) (STORM)	0.0710	261.1173	1.9131	0.2378	##	STM MH 124	240.5000	242.5537	
STM - (65) (STORM)	0.0795	292.7992	2.2329	0.5323	##	STM MH 129	239.3700	242.4404	
STM - (66) (STORM)	0.0796	292.8256	1.9800	0.2730	##	STM MH 133	239.0600	242.3152	
	ID*359	0.3376	1315.7460	1.1884	12.1924	##	STM MH 170	236.8000	239.8848
STM - (67) (STORM)	0.0405	148.4767	1.6208	0.2125	##	STM MH 38	239.7900	240.7995	
STM - (68) (STORM)	0.0470	172.2905	1.6869	0.6377	##	STM MH 18	238.8900	242.2235	
	ID*362	0.2567	994.6091	0.9393	8.1372	##	STM MH 218	240.2800	242.4531
STM - (69) (STORM)	0.0467	171.5507	1.6810	1.1447	##	STM MH 131	239.2900	242.4119	
STM - (70) (STORM)	0.0530	196.0773	1.7442	1.6316	##	STM MH 219	239.2300	242.3788	
	ID*365	0.1746	627.3631	0.8853	6.2728	##	STM MH 17	239.1500	242.3544
STM - (71) (STORM)	0.0446	163.5887	1.6447	1.8351	##	STM MH 39	239.6100	240.6413	
STM - (72) (STORM)	0.0485	178.8058	1.6087	2.1379	##	STM MH 153	236.6800	239.6884	
	ID*368	0.1343	464.1982	0.8540	6.0874	##	STM MH 204	240.5200	242.4593
STM - (73) (STORM)	0.0425	156.3641	1.6188	1.9695	##	CULTEC 5	236.4700	239.4240	
	ID*370	0.0912	308.1003	0.7126	5.3280	##	STM MH 27	235.5789	238.7606
STM - (74) (STORM)	0.0353	129.6429	1.5099	1.9579	##	STM MH 228	240.0000	242.3233	
STM - (75) (STORM)	0.0429	137.4752	1.1971	4.4778	##	STM MH 26	236.0599	239.1055	
STM - (76) (STORM)	0.1613	530.3215	0.7586	4.4719	##	STM MH 169	239.8700	240.2404	
	ID*374	0.1896	660.1696	0.8732	5.3975	##	STM MH 28	235.1000	238.3969

STM - (77) (STORM)	0.0387	129.5612	1.2161	4.4813	##	STM MH 168	240.2300	240.5342
ID*376	0.3523	1165.6351	1.2343	7.8378	##	STM MH 41	239.3000	240.1666
STM - (78) (STORM)	0.0479	156.9992	1.4306	4.5090	##	PROP CB 39	240.7600	240.9094
ID*378	0.3699	1330.2563	1.2973	9.3410	##	STM CBMH 19	238.7200	242.1095
STM - (79) (STORM)	0.0504	164.2543	1.5536	4.5325	##	STM CBMH 250	238.5100	241.9891
STM - (80) (STORM)	0.0585	196.7252	1.7651	4.4981	##	STM MH 134	239.7000	241.0604
ID*381	0.4510	2047.8171	1.3607	8.9162	##	STM MH 135	239.2100	241.0207
STM - (81) (STORM)	0.0471	172.8382	1.8280	4.5168	##	PROP DCB 62	241.2800	241.2800
STM - (82) (STORM)	0.0495	172.7883	1.9171	4.4828	##	STM MH 256	239.1000	240.2242
ID*384	0.6958	3856.6152	1.2970	8.8895	##	STM MH 85	238.4000	240.5808
STM - (83) (STORM)	0.0693	149.0311	1.8992	4.6055	##	CULTEC 1	238.8300	240.9559
STM - (84) (STORM)	0.0787	121.5448	1.8353	4.6647	##	STM MH 82	239.7300	241.8823
ID*387	0.7180	3978.6476	1.3349	7.7468	##	CULTEC 2	239.1100	240.9195
ID*388	0.0450	154.1644	1.2415	4.4793	##	STM MH 83	239.4300	241.2644
ID*390	0.8455	4830.9405	1.3406	24.2035	##	CAP 23	241.3600	242.3616
STM - (86) (STORM)	0.1354	500.8568	2.7703	4.7248	##	STM MH 142	239.0500	239.8216
STM - (87) (STORM)	0.2531	953.1356	1.3214	19.7371	##	CAP 14	241.3600	242.5737
STM - (88) (STORM)	0.4163	1563.3431	1.5430	20.8226	##	CAP 15	241.3600	242.5701
STM - (89) (STORM)	0.3951	1876.5710	1.4172	29.3152	##	CAP 16	241.3600	242.5595
STM - (95) (STORM)	0.2293	869.4919	1.7138	11.2800	##	CAP 24	241.3600	242.3781
STM - (96) (STORM)	0.4545	1723.8791	2.1125	9.3126	##	CAP 22	241.3600	242.4155
ID*397	1.5579	8154.8729	2.0721	47.4715	##	CAP 21	241.3600	242.4460
ID*398	1.1991	6771.3188	1.5927	25.4624	##	CAP 20	241.3600	242.4675
STM - (119) (STORM)	0.0678	258.1301	1.3092	2.0126	##	CAP 19	241.3600	242.5014
STM - (120) (STORM)	0.1910	726.0172	1.4651	8.5370	##	CAP 18	241.3600	242.5286
ID*401	1.4581	7766.4268	1.9372	14.7105	##	CAP 17	241.3600	242.5503
STM - (121) (STORM)	0.2615	994.5939	1.6196	5.7404	##	CAP 13	241.3600	241.4826
STM - (130) (STORM)	0.1357	515.3268	1.5225	8.1002	##	CAP 12	241.3600	241.4595
ID*409	0.2467	936.5699	1.6978	8.7254	##	CAP 11	241.3600	241.4710
STM - (142) (STORM)	0.2265	351.6353	1.0304	11.9864	##	CAP 10	241.3600	241.4725
STM - (143) (STORM)	0.2766	929.0409	0.9628	24.1621	##	CAP 9	241.3600	241.4852
ID*412	0.2757	927.4992	1.0995	22.8801	##	CAP 8	241.3600	241.4661
ID*413	0.7037	3979.6589	1.0848	11.8477	##	CAP 7	241.3600	241.4637
ID*414	1.2052	6764.6583	1.8689	44.5601	##	CAP 6	241.3600	241.4563
ID*415	1.2031	6764.7487	1.8687	42.3247	##	CAP 5	241.3600	241.4956
STM - (151) (STORM)	0.0757	222.0367	0.8589	8.5339	##	CAP 4	241.3600	241.4879
STM - (152) (STORM)	0.0925	222.5838	0.7179	4.1674	##	CAP 3	241.3600	241.4775
ID*418	0.4176	1589.7798	1.4515	22.1032	##	CAP 2	241.3600	241.5029
STM - (155) (STORM)	0.0614	206.8394	0.9408	14.2171	##	CAP 1	241.3600	241.5144
STM - (158) (STORM)	0.0000	0.0000	0.0000	0.6897	##	STM MH 141	239.9250	240.4192
ID*421	0.3155	1198.4592	1.9577	8.9992	##	STM MH 42	238.0500	240.0414
STM - (160) (STORM)	0.0212	80.7033	0.8988	0.7299	##	CULTEC 4	234.8400	238.0612
ID*423	1.3805	11793.6083	2.1328	21.2610	##	STM MH 43	235.5010	238.6741
STM - (161) (STORM)	0.1198	455.6791	1.4905	2.9355	##	STM MH 238	237.9300	238.1881
ID*425	0.7885	5125.9159	1.2207	31.1939	##	STM MH 237	238.2000	238.2887
STM - (170) (STORM)	2.5929	23944.3069	3.0641	11.1854	##	STM MH 31	232.4975	233.5824
ID*427	0.4571	5330.1991	1.8678	18.0236	##	STM MH 239	234.1529	237.5368
Link116	0.1361	170.1031	1.2168	2.7108	##	STM MH 30	233.2328	237.1937
Link117	0.1687	348.2348	1.5573	3.5011	##	STM MH 255	232.1800	232.8100
Link118	0.1152	348.8523	1.5612	3.5107	##	Roof 1	252.0000	252.0968
Link119	0.1155	347.3301	1.5170	3.5363	##	Roof 2	252.0000	252.0967
Link122	0.3921	1490.1520	2.4484	6.6199	##	Node117	232.4980	236.5322
spill	0.0526	0.9231	-0.2019	96.6161	##	CB 4	240.4600	242.4702
Roof Control1	0.0881	1619.0662	0.5441	0.0030	##	CB 3	240.9600	242.5235
Roof Control2	0.0880	1617.5569	0.5440	0.0030	##	CB 2	241.1600	242.5561
Orifice 1	2.5931	23943.4199	5.9393	129.2278	##	CB1	241.1700	242.5561
FREE# 1	2.5929	23944.7815	0.0000	0.0000	##			

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| Table E15a - SPREADSHEET REACH LIST |

| Peak flow and Total Flow listed by Reach or those |

| conduits or diversions having the same |

| upstream and downstream nodes. |

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Upstream Node	Downstream Node	Maximum Flow (cms)	Total Flow (m^3)
STM MH 126	STM MH 127	0.4294	1876.4424
STM MH 128	STM MH 129	0.6431	3498.4220
STM MH 17	STM MH 133	0.7666	4329.2007
STM MH 18	STM CBMH 19	0.8356	4965.8323
STM CBMH 19	STM CBMH 250	0.7718	4966.5575
STM MH 20	STM MH 21	0.8238	5275.4107
STM MH 21	STM MH 220	1.2072	6763.2565
STM MH 22	STM MH 23	1.2020	6767.4468
STM MH 23	STM MH 154	1.2008	6767.9469
CULTEC 5	STM MH 26	1.1016	8387.1681
STM MH 26	STM MH 27	1.1573	8862.1754
STM MH 27	STM MH 28	1.2253	9317.5681
STM MH 28	CULTEC 4	1.2983	9621.4664
CULTEC 4	STM MH 239	1.3446	11337.6578
STM MH 30	Node117	2.5933	23927.4665
CAP 23	STM MH 132	0.0435	154.2724
STM MH 34	STM MH 121	0.0484	178.7008
STM MH 35	STM MH 118	0.2153	823.2451
STM MH 36	STM MH 117	0.2993	1166.7796
STM MH 37	STM MH 38	0.4153	1608.9448
STM MH 38	STM MH 39	0.4146	1607.4076
STM MH 39	STM MH 40	0.4848	1869.4062
STM MH 40	STM MH 41	0.6663	5321.9799
STM MH 41	STM MH 256	0.4526	5328.7126
STM MH 42	STM MH 43	1.1998	11450.0214
STM MH 43	STM MH 30	1.2826	11985.1751

STM MH 82	STM MH 83	0.6457	2460.7496
STM MH 83	CULTEC 2	0.7595	2878.5853
CULTEC 2	STM MH 85	0.6203	3315.5134
STM MH 85	STM MH 42	0.8660	5497.8193
STM MH 86	STM MH 87	0.0881	1618.0416
STM MH 87	STM MH 115	0.0884	1617.8978
CAP 1	STM MH 86	0.0881	1617.3630
STM MH 115	STM MH 40	0.1787	3241.5011
CAP 2	STM MH 115	0.0881	1619.0144
CAP 3	STM MH 40	0.0601	220.7285
CAP 4	STM MH 39	0.0710	261.1173
STM MH 116	STM MH 37	0.0795	292.7992
CAP 5	STM MH 116	0.0796	292.8256
STM MH 117	STM MH 37	0.3376	1315.7460
CAP 6	STM MH 117	0.0405	148.4767
CAP 7	STM MH 36	0.0470	172.2905
STM MH 118	STM MH 36	0.2567	994.6091
CAP 8	STM MH 118	0.0467	171.5507
CAP 9	STM MH 35	0.0530	196.0773
STM MH 119	STM MH 35	0.1746	627.3631
CAP 10	STM MH 119	0.0446	163.5887
CAP 13	STM MH 34	0.0485	178.8058
STM MH 120	STM MH 119	0.1343	464.1982
CAP 11	STM MH 120	0.0425	156.3641
STM MH 121	STM MH 120	0.0912	308.1003
CAP 12	STM MH 121	0.0353	129.6429
CAP 14	STM MH 122	0.0429	137.4752
STM MH 122	STM MH 123	0.1613	530.3215
STM MH 123	STM MH 124	0.1896	660.1696
CAP 15	STM MH 123	0.0387	129.5612
STM MH 124	STM MH 125	0.3523	1165.6351
CAP 16	STM MH 124	0.0479	156.9992
STM MH 125	STM MH 126	0.3699	1330.2563
CAP 17	STM MH 125	0.0504	164.2543
CAP 18	STM MH 126	0.0585	196.7252
STM MH 127	STM MH 128	0.4510	2047.8171
CAP 19	STM MH 127	0.0471	172.8382
CAP 20	STM MH 128	0.0495	172.7883
STM MH 129	STM MH 131	0.6958	3856.6152
CAP 21	STM MH 129	0.0693	149.0311
CAP 22	STM MH 131	0.0787	121.5448
STM MH 131	STM MH 219	0.7180	3978.6476
STM MH 132	STM MH 17	0.0450	154.1644
STM MH 133	STM MH 18	0.8455	4830.9405
CAP 24	STM MH 133	0.1354	500.8568
STM MH 134	STM MH 135	0.2531	953.1356
STM MH 135	CULTEC 1	0.4163	1563.3431
CULTEC 1	STM MH 85	0.3951	1876.5710
STM MH 141	STM MH 142	0.2293	869.4919
STM MH 142	CULTEC 4	0.4545	1723.8791
STM MH 153	CULTEC 5	1.5579	8154.8729
STM MH 154	STM MH 170	1.1991	6771.3188
PROP CB 39	STM MH 168	0.0678	258.1301
STM MH 168	STM MH 169	0.1910	726.0172
STM MH 170	STM MH 153	1.4581	7766.4268
STM MH 169	STM MH 170	0.2615	994.5939
STM MH 187	STM MH 203	0.1357	515.3268
STM MH 203	STM MH 236	0.2467	936.5699
STM MH 204	STM MH 218	0.2265	351.6353
STM MH 205	STM MH 128	0.2766	929.0409
STM MH 218	STM MH 205	0.2757	927.4992
STM MH 219	STM MH 17	0.7037	3979.6589
STM MH 220	STM MH 221	1.2052	6764.6583
STM MH 221	STM MH 22	1.2031	6764.7487
CB 6	STM MH 223	0.0757	222.0367
STM MH 223	STM MH 122	0.0925	222.5838
STM MH 228	STM MH 82	0.4176	1589.7798
STM MH 227	STM MH 228	0.0614	206.8394
STM MH 236	STM MH 188	0.3155	1198.4592
STM MH 237	STM MH 238	0.0212	80.7033
STM MH 239	STM MH 30	1.3805	11793.6083
STM MH 238	STM MH 239	0.1198	455.6791
STM CBMH 250	STM MH 20	0.7885	5125.9159
STM MH 31	STM MH 255	2.5929	23944.3069
STM MH 256	STM MH 42	0.4571	5330.1991
CB1	STM MH 122	0.1361	170.1031
CB 2	STM MH 124	0.1687	348.2348
CB 3	STM MH 126	0.1152	348.8523
CB 4	STM MH 128	0.1155	347.3301
STM MH 188	STM MH 21	0.3921	1490.1520
CB1	CB 2	0.0526	0.9231
Roof 1	CAP 2	0.0881	1619.0662
Roof 2	CAP 1	0.0880	1617.5569
Node117	STM MH 31	2.5931	23943.4199

Table E16. New Conduit Information Section #
Conduit Invert (IE) Elevation and Conduit #
Maximum Water Surface (WS) Elevations #
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Conduit Name	Upstream Node	Downstream Node	IE Up	IE Dn	WS Up	WS Dn	Conduit Type
STM - (14) (STORM)	STM MH 126	STM MH 127	240.2	240.1	242.5	242.5	Circular
STM - (15) (STORM)	STM MH 128	STM MH 129	239.5	239.4	242.5	242.4	Circular

STM - (16) (STORM)	STM MH 17	STM MH 133	239.2	239.1	242.4	242.3	Circular
STM - (17) (STORM)	STM MH 18	STM CBMH 19	238.9	238.8	242.2	242.1	Circular
STM - (18) (STORM)	STM CBMH 19	STM CBMH 250	238.7	238.5	242.1	242.0	Circular
STM - (19) (STORM)	STM MH 20	STM MH 21	238.3	238.2	241.9	241.7	Circular
STM - (20) (STORM)	STM MH 21	STM MH 220	238.1	237.9	241.7	241.3	Circular
STM - (21) (STORM)	STM MH 22	STM MH 23	237.4	237.3	240.6	240.4	Circular
STM - (22) (STORM)	STM MH 23	STM MH 154	237.3	237.1	240.4	240.1	Circular
STM - (24) (STORM)	CULTEC 5	STM MH 26	236.5	236.1	239.4	239.1	Circular
STM - (25) (STORM)	STM MH 26	STM MH 27	236.1	235.6	239.1	238.8	Circular
STM - (26) (STORM)	STM MH 27	STM MH 28	235.6	235.1	238.8	238.4	Circular
STM - (27) (STORM)	STM MH 28	CULTEC 4	235.1	234.9	238.4	238.1	Circular
STM - (28) (STORM)	CULTEC 4	STM MH 239	234.8	234.6	238.1	237.5	Circular
STM - (29) (STORM)	STM MH 30	Node117	233.2	233.1	237.2	236.5	Circular
STM - (30) (STORM)	CAP 23	STM MH 132	241.4	241.2	242.4	242.4	Circular
STM - (32) (STORM)	STM MH 34	STM MH 121	240.9	240.9	241.5	241.5	Circular
STM - (33) (STORM)	STM MH 35	STM MH 118	240.4	240.3	241.4	241.3	Circular
STM - (34) (STORM)	STM MH 36	STM MH 117	240.2	240.1	241.2	241.1	Circular
STM - (35) (STORM)	STM MH 37	STM MH 38	239.9	239.8	240.9	240.8	Circular
STM - (36) (STORM)	STM MH 38	STM MH 39	239.8	239.7	240.8	240.6	Circular
STM - (37) (STORM)	STM MH 39	STM MH 40	239.6	239.5	240.6	240.5	Circular
STM - (38) (STORM)	STM MH 40	STM MH 41	239.5	239.3	240.5	240.2	Circular
STM - (39) (STORM)	STM MH 41	STM MH 256	239.3	239.1	240.2	240.2	Circular
STM - (40) (STORM)	STM MH 42	STM MH 43	238.1	236.1	240.0	238.7	Circular
STM - (41) (STORM)	STM MH 43	STM MH 30	235.5	233.8	238.7	237.2	Circular
STM - (53) (STORM)	STM MH 82	STM MH 83	239.7	239.5	241.9	241.3	Circular
STM - (54) (STORM)	STM MH 83	CULTEC 2	239.4	239.2	241.3	240.9	Circular
STM - (55) (STORM)	CULTEC 2	STM MH 85	239.1	238.9	240.9	240.6	Circular
STM - (56) (STORM)	STM MH 85	STM MH 42	238.4	238.1	240.6	240.0	Circular
STM - (57) (STORM)	STM MH 86	STM MH 87	240.9	240.3	241.1	240.7	Circular
STM - (58) (STORM)	STM MH 87	STM MH 115	240.2	240.1	240.7	240.7	Circular
STM - (59) (STORM)	CAP 1	STM MH 86	241.4	240.9	241.5	241.1	Circular
	ID*352	STM MH 40	240.0	239.6	240.7	240.5	Circular
STM - (61) (STORM)	CAP 2	STM MH 115	241.4	240.9	241.5	241.1	Circular
STM - (62) (STORM)	CAP 3	STM MH 40	241.4	240.9	241.5	241.1	Circular
STM - (63) (STORM)	CAP 4	STM MH 39	241.4	240.8	241.5	240.9	Circular
STM - (65) (STORM)	STM MH 116	STM MH 37	241.0	240.7	241.1	240.9	Circular
STM - (66) (STORM)	CAP 5	STM MH 116	241.4	241.1	241.5	241.2	Circular
	ID*359	STM MH 37	240.0	239.9	241.1	240.9	Circular
STM - (67) (STORM)	CAP 6	STM MH 117	241.4	241.0	241.5	241.1	Circular
STM - (68) (STORM)	CAP 7	STM MH 36	241.4	241.0	241.5	241.2	Circular
	ID*362	STM MH 36	240.3	240.2	241.3	241.2	Circular
STM - (69) (STORM)	CAP 8	STM MH 118	241.4	241.0	241.5	241.3	Circular
STM - (70) (STORM)	CAP 9	STM MH 35	241.4	241.0	241.5	241.4	Circular
	ID*365	STM MH 35	240.6	240.5	241.4	241.4	Circular
STM - (71) (STORM)	CAP 10	STM MH 119	241.4	241.0	241.5	241.4	Circular
STM - (72) (STORM)	CAP 13	STM MH 34	241.4	241.0	241.5	241.5	Circular
	ID*368	STM MH 119	240.7	240.6	241.5	241.4	Circular
STM - (73) (STORM)	CAP 11	STM MH 120	241.4	241.0	241.5	241.5	Circular
	ID*370	STM MH 121	240.8	240.7	241.5	241.5	Circular
STM - (74) (STORM)	CAP 12	STM MH 121	241.4	241.0	241.5	241.5	Circular
STM - (75) (STORM)	CAP 14	STM MH 122	241.4	241.1	242.6	242.6	Circular
STM - (76) (STORM)	STM MH 122	STM MH 123	240.7	240.7	242.6	242.6	Circular
	ID*374	STM MH 124	240.6	240.6	242.6	242.6	Circular
STM - (77) (STORM)	CAP 15	STM MH 123	241.4	241.1	242.6	242.6	Circular
	ID*376	STM MH 125	240.5	240.4	242.6	242.5	Circular
STM - (78) (STORM)	CAP 16	STM MH 124	241.4	240.9	242.6	242.6	Circular
	ID*378	STM MH 126	240.4	240.3	242.5	242.5	Circular
STM - (79) (STORM)	CAP 17	STM MH 125	241.4	240.8	242.6	242.5	Circular
STM - (80) (STORM)	CAP 18	STM MH 126	241.4	240.7	242.5	242.5	Circular
	ID*381	STM MH 128	240.1	240.0	242.5	242.5	Circular
STM - (81) (STORM)	CAP 19	STM MH 127	241.4	240.6	242.5	242.5	Circular
STM - (82) (STORM)	CAP 20	STM MH 128	241.4	240.5	242.5	242.5	Circular
	ID*384	STM MH 131	239.4	239.3	242.4	242.4	Circular
STM - (83) (STORM)	CAP 21	STM MH 129	241.4	240.3	242.4	242.4	Circular
STM - (84) (STORM)	CAP 22	STM MH 131	241.4	240.3	242.4	242.4	Circular
	ID*387	STM MH 131	239.3	239.2	242.4	242.4	Circular
	ID*388	STM MH 132	241.2	240.9	242.4	242.4	Circular
	ID*390	STM MH 133	239.1	239.0	242.3	242.2	Circular
STM - (86) (STORM)	CAP 24	STM MH 133	241.4	240.2	242.4	242.3	Circular
STM - (87) (STORM)	STM MH 134	STM MH 135	239.7	239.3	241.1	241.0	Circular
STM - (88) (STORM)	STM MH 135	CULTEC 1	239.2	238.9	241.0	241.0	Circular
STM - (89) (STORM)	CULTEC 1	STM MH 85	238.8	238.4	241.0	240.6	Circular
STM - (95) (STORM)	STM MH 141	STM MH 142	239.9	239.1	240.4	239.8	Circular
STM - (96) (STORM)	STM MH 142	CULTEC 4	239.1	238.2	239.8	238.6	Circular
	ID*397	STM MH 153	236.7	236.5	239.7	239.4	Circular
	ID*398	STM MH 170	237.0	236.8	240.1	239.9	Circular
STM - (119) (STORM)	PROP CB 39	STM MH 168	240.8	240.3	240.9	240.5	Circular
STM - (120) (STORM)	STM MH 168	STM MH 169	240.2	239.9	240.5	240.2	Circular
	ID*401	STM MH 170	236.8	236.7	239.9	239.7	Circular
STM - (121) (STORM)	STM MH 169	STM MH 170	239.9	239.7	240.2	240.0	Circular
STM - (130) (STORM)	STM MH 187	STM MH 203	246.7	246.0	247.8	247.3	Circular
	ID*409	STM MH 203	245.9	245.4	247.3	246.7	Circular
STM - (142) (STORM)	STM MH 204	STM MH 218	240.5	240.4	242.5	242.5	Circular
STM - (143) (STORM)	STM MH 205	STM MH 128	240.0	239.7	242.5	242.5	Circular
	ID*412	STM MH 205	240.3	240.0	242.5	242.5	Circular
	ID*413	STM MH 219	239.2	239.2	242.4	242.4	Circular
	ID*414	STM MH 220	237.9	237.7	241.3	240.9	Circular
	ID*415	STM MH 221	237.7	237.5	240.9	240.6	Circular
STM - (151) (STORM)	CB 6	STM MH 223	241.4	241.2	242.6	242.6	Circular
STM - (152) (STORM)	STM MH 223	STM MH 122	240.9	240.8	242.6	242.6	Circular
	ID*418	STM MH 82	240.0	239.8	242.3	241.9	Circular
STM - (155) (STORM)	STM MH 227	STM MH 228	240.8	240.1	242.4	242.3	Circular
STM - (158) (STORM)	PROP DCB 62	STM MH 134	241.3	240.7	241.3	241.1	Circular
	ID*421	STM MH 236	245.3	244.7	246.7	245.9	Circular
STM - (160) (STORM)	STM MH 237	STM MH 238	238.2	238.0	238.3	238.2	Circular

STM - (161)	ID*423 (STORM)	STM MH 239	STM MH 30	234.2	233.8	237.5	237.2	Circular
	ID*425 (STORM)	STM MH 238	STM MH 239	237.9	237.6	238.2	237.8	Circular
	ID*425 (STORM)	STM CBMH 250	STM MH 20	238.5	238.4	242.0	241.9	Circular
	ID*427 (STORM)	STM MH 31	STM MH 255	232.5	232.2	233.6	232.8	Circular
Link116	Link117	CB1	STM MH 122	241.2	241.0	242.6	242.6	Circular
Link118	Link119	CB 2	STM MH 124	241.2	240.8	242.6	242.6	Circular
Link122	spill	CB 3	STM MH 126	241.0	240.7	242.5	242.5	Circular
Roof Control	Roof Control1	CB 4	STM MH 128	240.5	240.2	242.5	242.5	Circular
Roof Control2	Orifice 1	STM MH 188	STM MH 21	244.6	244.0	245.9	244.4	Circular
		CB1	CB 2	242.3	242.3	242.6	242.6	Trapezoid
		Roof 1	CAP 2	252.0	252.0	252.1	241.5	Closed Cnd
		Roof 2	CAP 1	252.0	252.0	252.1	241.5	Closed Cnd
		Node117	STM MH 31	233.1	233.1	236.5	233.8	Circ Orif

 Table E18 - Junction Continuity Error. Division by Volume added 11/96
 Continuity Error = Net Flow + Beginning Volume - Ending Volume

 Total Flow + (Beginning Volume + Ending Volume)/2

 Net Flow = Node Inflow - Node Outflow
 Total Flow = absolute (Inflow + Outflow)
 Intermediate column is a judgement on the node continuity error.

 Excellent < 1 percent Great 1 to 2 percent Good 2 to 5 percent
 Fair 5 to 10 percent Poor 10 to 25 percent Bad 25 to 50 percent
 Terrible > 50 percent

Junction Name	<-----Continuity Error ----->			Remaining Volume	Beginning Volume	Net Flow Thru Node	Total Flow Thru Node	Failed to Converge
	Volume	% of Node	% of Inflow					
STM MH 188	-0.3915	-0.0131	0.0016	0.0007	0.0000	-0.3908	2979.9327	0
STM MH 187	-0.0642	-0.0062	0.0003	0.0005	0.0000	-0.0638	1030.5976	0
STM MH 203	0.4480	0.0239	0.0019	0.0007	0.0000	0.4488	1873.5763	0
STM MH 236	-0.0193	-0.0008	0.0001	0.0006	0.0000	-0.0187	2396.9122	0
STM MH 21	1.8820	0.0139	0.0079	0.0009	0.0000	1.8829	13528.8191	0
STM MH 23	0.3786	0.0028	0.0016	0.0003	0.0000	0.3790	13535.3937	0
STM MH 154	-3.1904	-0.0236	0.0133	0.0004	0.0000	-3.1899	13539.2657	0
STM MH 22	-2.6211	-0.0194	0.0109	0.0004	0.0000	-2.6207	13532.1955	0
CB 6	1.0598	0.2381	0.0044	0.0004	0.0000	1.0602	445.0943	0
STM MH 227	0.2204	0.0533	0.0009	0.0005	0.0000	0.2210	413.8658	0
STM MH 132	-0.0514	-0.0167	0.0002	0.0003	0.0000	-0.0511	308.4367	0
STM MH 116	0.0507	0.0087	0.0002	0.0002	0.0000	0.0509	585.6248	3
STM MH 221	-0.6804	-0.0050	0.0028	0.0007	0.0000	-0.6797	13529.4069	0
STM MH 35	0.3061	0.0186	0.0013	0.0005	0.0000	0.3066	1646.6855	0
STM MH 36	0.1244	0.0053	0.0005	0.0004	0.0000	0.1248	2333.6792	2
STM MH 118	0.2477	0.0124	0.0010	0.0005	0.0000	0.2481	1989.4049	0
STM MH 34	0.1819	0.0509	0.0008	0.0003	0.0000	0.1822	357.5066	0
STM MH 121	0.3492	0.0566	0.0015	0.0004	0.0000	0.3495	616.4441	0
STM MH 120	0.3891	0.0419	0.0016	0.0004	0.0000	0.3896	928.6626	0
STM MH 117	-0.5786	-0.0220	0.0024	0.0005	0.0000	-0.5781	2631.0024	1
STM MH 119	0.5026	0.0400	0.0021	0.0005	0.0000	0.5031	1255.1500	0
STM MH 20	-2.5747	-0.0244	0.0107	0.0005	0.0000	-2.5741	10548.7443	0
STM MH 37	-0.5927	-0.0184	0.0025	0.0004	0.0000	-0.5923	3217.4900	3
STM MH 40	9.1173	0.0856	0.0380	0.0298	0.0000	9.1471	10653.6157	10
STM MH 86	-0.7344	-0.0227	0.0031	0.0154	0.0000	-0.7190	3235.4046	0
STM MH 115	-4.6886	-0.0724	0.0196	0.0214	0.0000	-4.6672	6478.4134	0
STM MH 87	0.0754	0.0023	0.0003	0.0167	0.0000	0.0921	3235.9395	0
STM MH 223	-0.4436	-0.0998	0.0019	0.0005	0.0000	-0.4431	444.6206	0
STM MH 220	-1.5494	-0.0115	0.0065	0.0007	0.0000	-1.5487	13527.9148	0
STM MH 205	-1.5324	-0.0825	0.0064	0.0009	0.0000	-1.5315	1856.5401	0
STM MH 128	-1.5317	-0.0219	0.0064	0.0011	0.0000	-1.5306	6995.3983	0
STM MH 127	1.6462	0.0402	0.0069	0.0005	0.0000	1.6467	4097.0977	0
STM MH 122	0.0474	0.0045	0.0002	0.0006	0.0000	0.0480	1060.4836	0
STM MH 123	0.0150	0.0011	0.0001	0.0004	0.0000	0.0154	1320.0522	0
STM MH 126	-0.5387	-0.0144	0.0022	0.0007	0.0000	-0.5380	3752.2763	0
STM MH 125	-0.1648	-0.0062	0.0007	0.0005	0.0000	-0.1643	2660.1457	0
STM MH 124	0.0626	0.0027	0.0003	0.0006	0.0000	0.0633	2331.0387	0
STM MH 129	-0.5399	-0.0070	0.0023	0.0004	0.0000	-0.5395	7712.4251	0
STM MH 133	-0.4188	-0.0043	0.0017	0.0005	0.0000	-0.4183	9660.9980	0
STM MH 170	0.2809	0.0018	0.0012	0.0005	0.0000	0.2814	15532.3394	0
STM MH 38	1.1944	0.0371	0.0050	0.0003	0.0000	1.1948	3216.3523	0
STM MH 18	-0.3597	-0.0036	0.0015	0.0005	0.0000	-0.3592	9931.5745	0
STM MH 218	3.9354	0.2117	0.0164	0.0014	0.0000	3.9368	1858.9920	0
STM MH 131	-0.2273	-0.0029	0.0009	0.0003	0.0000	-0.2269	7956.8076	0
STM MH 219	-0.4554	-0.0057	0.0019	0.0002	0.0000	-0.4552	7958.3065	0
STM MH 17	-0.2115	-0.0024	0.0009	0.0004	0.0000	-0.2111	8658.0760	0
STM MH 39	-1.2380	-0.0331	0.0052	0.0004	0.0000	-1.2375	3737.9311	5
STM MH 153	1.8775	0.0115	0.0078	0.0004	0.0000	1.8779	16311.5274	0
STM MH 204	-0.2928	-0.0417	0.0012	0.0011	0.0000	-0.2917	702.9252	0
CULTEC 5	3.4133	0.0203	0.0142	0.0012	0.0000	3.4144	16778.3979	0
STM MH 27	-3.7897	-0.0203	0.0158	0.0009	0.0000	-3.7887	18631.4635	0
STM MH 228	0.5713	0.0180	0.0024	0.0009	0.0000	0.5722	3180.3103	0
STM MH 26	-0.7828	-0.0044	0.0033	0.0009	0.0000	-0.7818	17724.1136	0
STM MH 169	-0.8626	-0.0434	0.0036	0.0006	0.0000	-0.8620	1988.4598	5
STM MH 28	-4.8000	-0.0249	0.0200	0.0009	0.0000	-4.7991	19238.3659	0
STM MH 168	0.2371	0.0163	0.0010	0.0007	0.0000	0.2378	1452.3248	0
STM MH 41	-7.2677	-0.0682	0.0303	0.1493	0.0000	-7.1184	10650.6925	0
PROP CB 39	0.0400	0.0077	0.0002	0.0004	0.0000	0.0404	516.2962	0
STM CBMH 19	-1.0758	-0.0108	0.0045	0.0006	0.0000	-1.0752	9932.3898	0
STM CBMH 250	-0.8859	-0.0086	0.0037	0.0006	0.0000	-0.8853	10251.0994	0
STM MH 134	2.3857	0.1250	0.0100	0.0007	0.0000	2.3864	1908.7172	0

STM MH 135	7.5348	0.2404	0.0314	0.0009	0.0000	7.5357	3134.3693	0
PROP DCB 62	-0.0002	0.0000	0.0000	0.0002	0.0000	0.0000	0.0000	0
STM MH 256	-1.7542	-0.0165	0.0073	0.0303	0.0000	-1.7239	10658.9117	0
STM MH 85	3.5961	0.0327	0.0150	0.0468	0.0000	3.6429	10999.7269	0
CULTEC 1	-5.6675	-0.1511	0.0236	2.3200	0.0000	-3.3475	3749.7373	0
STM MH 82	-2.2214	-0.0452	0.0093	0.0009	0.0000	-2.2206	4919.4740	0
CULTEC 2	-5.2241	-0.0788	0.0218	3.7066	0.0000	-1.5175	6629.7492	1
STM MH 83	18.0974	0.3133	0.0755	0.0009	0.0000	18.0984	5775.6824	0
CAP 23	-0.0699	-0.0226	0.0003	0.0001	0.0000	-0.0698	308.5659	0
STM MH 142	-0.1018	-0.0030	0.0004	0.0009	0.0000	-0.1009	3447.6783	0
CAP 14	0.2765	0.1005	0.0012	0.0002	0.0000	0.2767	275.1512	0
CAP 15	0.1840	0.0710	0.0008	0.0002	0.0000	0.1842	259.2835	0
CAP 16	0.2106	0.0670	0.0009	0.0002	0.0000	0.2108	314.1805	0
CAP 24	0.5729	0.0572	0.0024	0.0002	0.0000	0.5732	1002.3274	0
CAP 22	0.2415	0.0993	0.0010	0.0002	0.0000	0.2418	243.3149	0
CAP 21	0.1937	0.0649	0.0008	0.0002	0.0000	0.1939	298.2664	0
CAP 20	0.2710	0.0784	0.0011	0.0002	0.0000	0.2712	345.8587	0
CAP 19	0.2383	0.0689	0.0010	0.0002	0.0000	0.2386	345.9086	0
CAP 18	0.1771	0.0450	0.0007	0.0002	0.0000	0.1773	393.6196	0
CAP 17	0.1967	0.0599	0.0008	0.0002	0.0000	0.1970	328.6603	0
CAP 13	0.0526	0.0147	0.0002	0.0002	0.0000	0.0528	357.6529	0
CAP 12	0.0819	0.0316	0.0003	0.0002	0.0000	0.0821	259.3651	0
CAP 11	0.0999	0.0319	0.0004	0.0002	0.0000	0.1001	312.8249	2
CAP 10	0.0985	0.0301	0.0004	0.0002	0.0000	0.0987	327.2713	0
CAP 9	0.0956	0.0244	0.0004	0.0002	0.0000	0.0958	392.2520	0
CAP 8	0.0792	0.0231	0.0003	0.0002	0.0000	0.0794	343.1776	0
CAP 7	0.0615	0.0178	0.0003	0.0002	0.0000	0.0617	344.6408	0
CAP 6	0.0383	0.0129	0.0002	0.0002	0.0000	0.0385	296.9886	0
CAP 5	-0.0265	-0.0045	0.0001	0.0002	0.0000	-0.0263	585.6340	0
CAP 4	-0.0495	-0.0095	0.0002	0.0002	0.0000	-0.0493	522.2121	0
CAP 3	-0.0211	-0.0048	0.0001	0.0002	0.0000	-0.0209	441.4363	0
CAP 2	-0.0003	-0.0000	0.0000	0.0039	0.0000	0.0036	3238.0806	0
CAP 1	0.1147	0.0035	0.0005	0.0045	0.0000	0.1191	3234.9198	0
STM MH 141	0.1572	0.0090	0.0007	0.0005	0.0000	0.1577	1739.1313	0
STM MH 42	-2.2571	-0.0099	0.0094	0.0540	0.0000	-2.2031	22898.0239	0
CULTEC 4	7.4093	0.0327	0.0309	0.0016	0.0000	7.4109	22683.0033	0
STM MH 43	-3.4267	-0.0143	0.0143	0.0544	0.0000	-3.3723	23967.2331	0
STM MH 238	-0.1910	-0.0210	0.0008	0.0005	0.0000	-0.1905	911.2331	0
STM MH 237	0.0063	0.0039	0.0000	0.0002	0.0000	0.0065	161.4191	0
STM MH 31	-1.7014	-0.0036	0.0071	0.3281	0.0000	-1.3734	47887.7268	0
STM MH 239	-0.7515	-0.0032	0.0031	0.0008	0.0000	-0.7508	23586.9452	1
STM MH 30	-2.5528	-0.0053	0.0107	0.0673	0.0000	-2.4854	47854.1034	0
STM MH 255	-0.6685	-0.0014	0.0028	0.0065	0.0000	-0.6620	47889.0885	0
Roof 1	11.1813	0.3440	0.0467	0.3672	0.0000	11.5484	3249.8221	0
Roof 2	11.1782	0.3443	0.0466	0.3668	0.0000	11.5450	3246.8000	0
Node117	-18.1355	-0.0379	0.0757	1.1171	0.0000	-17.0183	47870.8864	0
CB 4	0.2878	0.0414	0.0012	0.0013	0.0000	0.2891	694.9147	0
CB 3	0.1783	0.0255	0.0007	0.0013	0.0000	0.1795	697.8358	0
CB 2	-0.2980	-0.0428	0.0012	0.0014	0.0000	-0.2966	696.0449	0
CB1	0.1966	0.0575	0.0008	0.0014	0.0000	0.1980	342.1724	0

The total continuity error was 3.8735 cubic meters
The remaining total volume was 8.7559 cubic meters
Your mean node continuity error was Excellent
Your worst node continuity error was Excellent

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| Table E19 - Junction Inflow & Outflow Listing |
| Units are either ft^3 or m^3 |
| depending on the units in your model. |

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Evaporation	Junction Basin	Constant	User	Interface	DWF	Inflow	RNF Layer	Inflow	Outflow
from Node	Name	to Node	to Node	to Node	to Node	through	Inflow	from	
	Infil.					Outfall	to Node	2D Layer	from Node
0.0000	STM MH 188	0.0000	0.0000	0.0000	0.0000	0.0000	291.2368	0.0000	-0.0078
0.0000	0.00								
0.0000	STM MH 187	0.0000	0.0000	0.0000	0.0000	0.0000	515.1286	0.0000	0.0000
0.0000	0.00								
0.0000	STM MH 203	0.0000	0.0000	0.0000	0.0000	0.0000	421.5613	0.0000	0.0000
0.0000	0.00								
0.0000	STM MH 236	0.0000	0.0000	0.0000	0.0000	0.0000	261.8068	0.0000	0.0000
0.0000	0.00								
0.0000	CB 6	0.0000	0.0000	0.0000	0.0000	0.0000	222.9926	0.0000	0.0000
0.0000	0.00								
0.0000	STM MH 227	0.0000	0.0000	0.0000	0.0000	0.0000	206.9655	0.0000	0.0000
0.0000	0.00								
0.0000	STM MH 20	0.0000	0.0000	0.0000	0.0000	0.0000	147.3741	0.0000	0.0000
0.0000	0.00								
0.0000	STM MH 129	0.0000	0.0000	0.0000	0.0000	0.0000	208.2959	0.0000	0.0000
0.0000	0.00								
0.0000	STM MH 18	0.0000	0.0000	0.0000	0.0000	0.0000	134.7616	0.0000	0.0000
0.0000	0.00								
0.0000	STM MH 218	0.0000	0.0000	0.0000	0.0000	0.0000	579.6903	0.0000	0.0000
0.0000	0.00								
0.0000	STM MH 17	0.0000	0.0000	0.0000	0.0000	0.0000	194.9949	0.0000	0.0000
0.0000	0.00								
0.0000	STM MH 153	0.0000	0.0000	0.0000	0.0000	0.0000	390.1177	0.0000	0.0000
0.0000	0.00								
0.0000	STM MH 204	0.0000	0.0000	0.0000	0.0000	0.0000	351.1877	0.0000	0.0000
0.0000	0.00								

0.0000	CULTEC 5 0.00	0.0000	0.0000	0.0000	0.0000	0.0000	236.2882	0.0000	0.0000
0.0000	STM MH 27 0.00	0.0000	0.0000	0.0000	0.0000	0.0000	451.5939	0.0000	0.0000
0.0000	STM MH 228 0.00	0.0000	0.0000	0.0000	0.0000	0.0000	1383.3430	0.0000	0.0000
0.0000	STM MH 26 0.00	0.0000	0.0000	0.0000	0.0000	0.0000	474.6380	0.0000	0.0000
0.0000	STM MH 169 0.00	0.0000	0.0000	0.0000	0.0000	0.0000	267.7714	0.0000	0.0000
0.0000	STM MH 28 0.00	0.0000	0.0000	0.0000	0.0000	0.0000	299.2455	0.0000	0.0000
0.0000	STM MH 168 0.00	0.0000	0.0000	0.0000	0.0000	0.0000	468.0442	0.0000	0.0000
0.0000	PROP CB 39 0.00	0.0000	0.0000	0.0000	0.0000	0.0000	258.0904	0.0000	0.0000
0.0000	STM CBMH 250 0.00	0.0000	0.0000	0.0000	0.0000	0.0000	158.5791	0.0000	0.0000
0.0000	STM MH 134 0.00	0.0000	0.0000	0.0000	0.0000	0.0000	955.3290	0.0000	0.0000
0.0000	STM MH 135 0.00	0.0000	0.0000	0.0000	0.0000	0.0000	617.7225	0.0000	0.0000
0.0000	STM MH 85 0.00	0.0000	0.0000	0.0000	0.0000	0.0000	309.7345	0.0000	-0.0085
0.0000	CULTEC 1 0.00	0.0000	0.0000	0.0000	0.0000	0.0000	309.7345	0.0000	-0.0254
0.0000	STM MH 82 0.00	0.0000	0.0000	0.0000	0.0000	0.0000	868.7160	0.0000	0.0000
0.0000	CULTEC 2 0.00	0.0000	0.0000	0.0000	0.0000	0.0000	435.5286	0.0000	0.0000
0.0000	STM MH 83 0.00	0.0000	0.0000	0.0000	0.0000	0.0000	436.2254	0.0000	0.0000
0.0000	CAP 23 0.00	0.0000	0.0000	0.0000	0.0000	0.0000	154.2507	0.0000	-0.0035
0.0000	STM MH 142 0.00	0.0000	0.0000	0.0000	0.0000	0.0000	854.0822	0.0000	0.0000
0.0000	CAP 14 0.00	0.0000	0.0000	0.0000	0.0000	0.0000	137.6375	0.0000	0.0000
0.0000	CAP 15 0.00	0.0000	0.0000	0.0000	0.0000	0.0000	129.6859	0.0000	0.0000
0.0000	CAP 16 0.00	0.0000	0.0000	0.0000	0.0000	0.0000	157.1377	0.0000	0.0000
0.0000	CAP 24 0.00	0.0000	0.0000	0.0000	0.0000	0.0000	501.3451	0.0000	0.0000
0.0000	CAP 22 0.00	0.0000	0.0000	0.0000	0.0000	0.0000	121.7358	0.0000	0.0000
0.0000	CAP 21 0.00	0.0000	0.0000	0.0000	0.0000	0.0000	149.1937	0.0000	0.0000
0.0000	CAP 20 0.00	0.0000	0.0000	0.0000	0.0000	0.0000	173.0227	0.0000	0.0000
0.0000	CAP 19 0.00	0.0000	0.0000	0.0000	0.0000	0.0000	173.0227	0.0000	0.0000
0.0000	CAP 18 0.00	0.0000	0.0000	0.0000	0.0000	0.0000	196.8406	0.0000	0.0000
0.0000	CAP 17 0.00	0.0000	0.0000	0.0000	0.0000	0.0000	164.3605	0.0000	0.0000
0.0000	CAP 13 0.00	0.0000	0.0000	0.0000	0.0000	0.0000	178.7979	0.0000	0.0000
0.0000	CAP 12 0.00	0.0000	0.0000	0.0000	0.0000	0.0000	129.6859	0.0000	0.0000
0.0000	CAP 11 0.00	0.0000	0.0000	0.0000	0.0000	0.0000	156.4174	0.0000	0.0000
0.0000	CAP 10 0.00	0.0000	0.0000	0.0000	0.0000	0.0000	163.6373	0.0000	0.0000
0.0000	CAP 9 0.00	0.0000	0.0000	0.0000	0.0000	0.0000	196.1211	0.0000	0.0000
0.0000	CAP 8 0.00	0.0000	0.0000	0.0000	0.0000	0.0000	171.5796	0.0000	-0.0041
0.0000	CAP 7 0.00	0.0000	0.0000	0.0000	0.0000	0.0000	172.3027	0.0000	0.0000
0.0000	CAP 6 0.00	0.0000	0.0000	0.0000	0.0000	0.0000	148.4705	0.0000	-0.0036
0.0000	CAP 5 0.00	0.0000	0.0000	0.0000	0.0000	0.0000	292.7309	0.0000	0.0000
0.0000	CAP 4 0.00	0.0000	0.0000	0.0000	0.0000	0.0000	261.0250	0.0000	0.0000
0.0000	CAP 3 0.00	0.0000	0.0000	0.0000	0.0000	0.0000	220.6480	0.0000	0.0000
0.0000	STM MH 141 0.00	0.0000	0.0000	0.0000	0.0000	0.0000	869.4106	0.0000	0.0000
0.0000	STM MH 42 0.00	0.0000	0.0000	0.0000	0.0000	0.0000	619.8156	0.0000	0.0000
0.0000	STM MH 43 0.00	0.0000	0.0000	0.0000	0.0000	0.0000	531.8900	0.0000	0.0000
0.0000	STM MH 238 0.00	0.0000	0.0000	0.0000	0.0000	0.0000	374.7447	0.0000	0.0000
0.0000	STM MH 237 0.00	0.0000	0.0000	0.0000	0.0000	0.0000	80.6919	0.0000	0.0000
0.0000	STM MH 30 0.00	0.0000	0.0000	0.0000	0.0000	0.0000	147.8095	0.0000	0.0000
0.0000	STM MH 255 0.00	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	23944.7815
0.0000	Roof 1 0.00	0.0000	0.0000	0.0000	0.0000	0.0000	1630.4061	0.0000	0.0000

0.0000	Roof 2	0.0000	0.0000	0.0000	0.0000	0.0000	1628.8934	0.0000	0.0000
	0.00								
0.0000	CB 4	0.0000	0.0000	0.0000	0.0000	0.0000	347.4858	0.0000	-0.0090
	0.00								
0.0000	CB 3	0.0000	0.0000	0.0000	0.0000	0.0000	348.8842	0.0000	0.0000
	0.00								
0.0000	CB 2	0.0000	0.0000	0.0000	0.0000	0.0000	346.7884	0.0000	0.0000
	0.00								
0.0000	CB1	0.0000	0.0000	0.0000	0.0000	0.0000	171.0954	0.0000	0.0000
	0.00								

```

*****
| Table E20 - Junction Flooding and Volume Listing. |
| The maximum volume is the total volume |
| in the node including the volume in the |
| flooded storage area. This is the max |
| volume at any time. The volume in the |
| flooded storage area is the total volume |
| above the ground elevation, where the |
| flooded pond storage area starts. |
| The fourth column is instantaneous, the fifth is the |
| sum of the flooded volume over the entire simulation. |
| Units are either ft^3 or m^3 depending on the units. |
*****

```

Junction Name	Surcharged Time (min)	Flooded Time (min)	Out of 1D-System (Flooded Volume)	Maximum Volume	Passed to 2D cell OR Volume Stored in allowed Flood Pond of 1D-System
STM MH 188	29.3	0.000	0.000	1.54	0.000
STM MH 187	22.7	0.000	0.000	1.31	0.000
STM MH 203	24.7	0.000	0.000	1.62	0.000
STM MH 236	26.5	0.000	0.000	1.73	0.000
STM MH 21	0.000	0.000	0.000	4.39	0.000
STM MH 23	95.6	0.000	0.000	3.77	0.000
STM MH 154	102.	0.000	0.000	3.74	0.000
STM MH 22	92.3	0.000	0.000	3.83	0.000
CB 6	59.2	0.000	0.000	1.49	0.000
STM MH 227	26.8	0.000	0.000	1.94	0.000
STM MH 132	44.6	0.000	0.000	1.44	0.000
STM MH 116	0.000	0.000	0.000	0.144	0.000
STM MH 221	87.7	0.000	0.000	3.98	0.000
STM MH 35	0.000	0.000	0.000	1.14	0.000
STM MH 36	0.000	0.000	0.000	1.28	0.000
STM MH 118	0.000	0.000	0.000	1.25	0.000
STM MH 34	3.42	0.000	0.000	0.723	0.000
STM MH 121	3.50	0.000	0.000	0.840	0.000
STM MH 120	3.06	0.000	0.000	0.944	0.000
STM MH 117	0.000	0.000	0.000	1.32	0.000
STM MH 119	1.64	0.000	0.000	1.08	0.000
STM MH 20	78.7	0.000	0.000	4.31	0.000
STM MH 37	0.000	0.000	0.000	1.26	0.000
STM MH 40	0.000	0.000	0.000	1.22	0.000
STM MH 86	0.000	0.000	0.000	0.240	0.000
STM MH 115	0.000	0.000	0.000	0.763	0.000
STM MH 87	0.000	0.000	0.000	0.551	0.000
STM MH 223	60.4	0.000	0.000	2.05	0.000
STM MH 220	83.9	0.000	0.000	4.17	0.000
STM MH 205	69.1	0.000	0.000	3.02	0.000
STM MH 128	65.0	0.000	0.000	3.61	0.000
STM MH 127	64.8	0.000	0.000	2.95	0.000
STM MH 122	62.3	0.000	0.000	2.25	0.000
STM MH 123	62.2	0.000	0.000	2.35	0.000
STM MH 126	64.4	0.000	0.000	2.81	0.000
STM MH 125	63.8	0.000	0.000	2.64	0.000
STM MH 124	63.3	0.000	0.000	2.51	0.000
STM MH 129	65.3	0.000	0.000	3.75	0.000
STM MH 133	64.2	0.000	0.000	3.97	0.000
STM MH 170	0.000	0.000	0.000	3.76	0.000
STM MH 38	23.6	0.000	0.000	1.23	0.000
STM MH 18	73.2	0.000	0.000	4.07	0.000
STM MH 218	65.5	0.000	0.000	196.	0.000
STM MH 131	65.3	0.000	0.000	3.81	0.000
STM MH 219	72.4	0.000	0.000	3.84	0.000
STM MH 17	56.4	0.000	0.000	3.91	0.000
STM MH 39	0.000	0.000	0.000	1.26	0.000
STM MH 153	106.	0.000	0.000	3.67	0.000
STM MH 204	63.5	0.000	0.000	114.	0.000
CULTEC 5	108.	0.000	0.000	997.	0.000
STM MH 27	124.	0.000	0.000	3.88	0.000
STM MH 228	35.2	0.000	0.000	2.83	0.000
STM MH 26	115.	0.000	0.000	3.72	0.000
STM MH 169	0.000	0.000	0.000	0.452	0.000
STM MH 28	130.	0.000	0.000	4.02	0.000
STM MH 168	0.000	0.000	0.000	0.371	0.000
STM MH 41	28.6	0.000	0.000	709.	0.000
PROP CB 39	0.000	0.000	0.000	0.182	0.000
STM CBMH 19	74.8	0.000	0.000	4.14	0.000
STM CBMH 250	77.0	0.000	0.000	4.24	0.000
STM MH 134	0.318	0.000	0.000	1.66	0.000
STM MH 135	53.8	0.000	0.000	2.21	0.000
PROP DCB 62	0.000	0.000	0.000	0.000	0.000
STM MH 256	27.8	0.000	0.000	1.37	0.000
STM MH 85	60.3	0.000	0.000	2.66	0.000

CULTEC 1	71.2	0.000	0.000	919.	0.000
STM MH 82	41.4	0.000	0.000	2.63	0.000
CULTEC 2	59.5	0.000	0.000	919.	0.000
STM MH 83	55.4	0.000	0.000	2.24	0.000
CAP 23	33.3	0.000	0.000	1.22	0.000
STM MH 142	20.8	0.000	0.000	0.941	0.000
CAP 14	59.7	0.000	0.000	1.48	0.000
CAP 15	59.6	0.000	0.000	1.48	0.000
CAP 16	59.4	0.000	0.000	1.46	0.000
CAP 24	28.2	0.000	0.000	1.24	0.000
CAP 22	47.9	0.000	0.000	1.29	0.000
CAP 21	51.1	0.000	0.000	1.32	0.000
CAP 20	55.0	0.000	0.000	1.35	0.000
CAP 19	56.2	0.000	0.000	1.39	0.000
CAP 18	57.3	0.000	0.000	1.43	0.000
CAP 17	59.0	0.000	0.000	1.45	0.000
CAP 13	0.000	0.000	0.000	0.150	0.000
CAP 12	0.000	0.000	0.000	0.121	0.000
CAP 11	0.000	0.000	0.000	0.135	0.000
CAP 10	0.000	0.000	0.000	0.137	0.000
CAP 9	0.000	0.000	0.000	0.153	0.000
CAP 8	0.000	0.000	0.000	0.129	0.000
CAP 7	0.000	0.000	0.000	0.127	0.000
CAP 6	0.000	0.000	0.000	0.118	0.000
CAP 5	0.000	0.000	0.000	0.165	0.000
CAP 4	0.000	0.000	0.000	0.156	0.000
CAP 3	0.000	0.000	0.000	0.143	0.000
CAP 2	0.000	0.000	0.000	0.174	0.000
CAP 1	0.000	0.000	0.000	0.188	0.000
STM MH 141	10.5	0.000	0.000	0.603	0.000
STM MH 42	60.5	0.000	0.000	2.43	0.000
CULTEC 4	0.000	0.000	0.000	1.386E+03	0.000
STM MH 43	107.	0.000	0.000	3.87	0.000
STM MH 238	0.000	0.000	0.000	0.315	0.000
STM MH 237	0.000	0.000	0.000	0.108	0.000
STM MH 31	37.9	0.000	0.000	1.32	0.000
STM MH 239	0.000	0.000	0.000	4.13	0.000
STM MH 30	142.	0.000	0.000	4.83	0.000
STM MH 255	0.000	0.000	0.000	0.769	0.000
Roof 1	0.000	0.000	0.000	1.032E+03	0.000
Roof 2	0.000	0.000	0.000	1.031E+03	0.000
Node117	148.	0.000	0.000	4.92	0.000
CB 4	65.6	0.000	0.000	74.9	0.000
CB 3	62.3	0.000	0.000	118.	0.000
CB 2	0.000	0.000	0.000	158.	0.000
CB1	0.000	0.000	0.000	31.6	0.000

 | Simulation Specific Information |

Number of Input Conduits.....	110	Number of Simulated Conduits.....	112
Number of Natural Channels.....	0	Number of Junctions.....	111
Number of Storage Junctions.....	13	Number of Weirs.....	0
Number of Orifices.....	1	Number of Pumps.....	0
Number of Free Outfalls.....	1	Number of Tide Gate Outfalls.....	0

 | Average % Change in Junction or Conduit is defined as: |
 | Conduit % Change ==> 100.0 (Q(n+1) - Q(n)) / Qfull |
 | Junction % Change ==> 100.0 (Y(n+1) - Y(n)) / Yfull |

The Conduit with the largest average change was..	FREE# 1 with	0.002 percent
The Junction with the largest average change was.	Node117 with	0.022 percent
The Conduit with the largest sinuosity was.....	Link116 with	6.624

 | Table E21. Continuity balance at the end of the simulation |
 | Junction Inflow, Outflow or Street Flooding |
 | Error = Inflow + Initial Volume - Outflow - Final Volume |

Junction	Inflow Volume, m^3	Average Inflow, cms
STM MH 188	291.3216	0.0027
STM MH 187	515.2708	0.0048
STM MH 203	421.6796	0.0039
STM MH 236	261.8832	0.0024
CB 6	223.0575	0.0021
STM MH 227	207.0264	0.0019
STM MH 20	147.4177	0.0014
STM MH 129	208.3568	0.0019
STM MH 18	134.8017	0.0012
STM MH 218	579.8575	0.0054
STM MH 17	195.0521	0.0018
STM MH 153	390.2278	0.0036
STM MH 204	351.2899	0.0033
CULTEC 5	236.3569	0.0022
STM MH 27	451.7200	0.0042
STM MH 228	1383.6911	0.0128
STM MH 26	474.7700	0.0044
STM MH 169	267.8487	0.0025

STM MH 28	299.3314	0.0028
STM MH 168	468.1775	0.0043
PROP CB 39	258.1661	0.0024
STM CBMH 250	158.6259	0.0015
STM MH 134	955.5816	0.0088
STM MH 135	617.8905	0.0057
STM MH 85	309.8232	0.0029
CULTEC 1	309.8232	0.0029
STM MH 82	868.9446	0.0080
CULTEC 2	435.6505	0.0040
STM MH 83	436.3475	0.0040
CAP 23	154.2935	0.0014
STM MH 142	854.3073	0.0079
CAP 14	137.6761	0.0013
CAP 15	129.7222	0.0012
CAP 16	157.1813	0.0015
CAP 24	501.4706	0.0046
CAP 22	121.7701	0.0011
CAP 21	149.2353	0.0014
CAP 20	173.0704	0.0016
CAP 19	173.0704	0.0016
CAP 18	196.8944	0.0018
CAP 17	164.4060	0.0015
CAP 13	178.8471	0.0017
CAP 12	129.7222	0.0012
CAP 11	156.4608	0.0014
CAP 10	163.6826	0.0015
CAP 9	196.1747	0.0018
CAP 8	171.6269	0.0016
CAP 7	172.3503	0.0016
CAP 6	148.5118	0.0014
CAP 5	292.8084	0.0027
CAP 4	261.0948	0.0024
CAP 3	220.7078	0.0020
STM MH 141	869.6393	0.0081
STM MH 42	619.9842	0.0057
STM MH 43	532.0366	0.0049
STM MH 238	374.8508	0.0035
STM MH 237	80.7158	0.0007
STM MH 30	147.8536	0.0014
Roof 1	1630.7559	0.0151
Roof 2	1629.2431	0.0151
CB 4	347.5846	0.0032
CB 3	348.9834	0.0032
CB 2	346.8870	0.0032
CB1	171.1462	0.0016
STM MH 255	-23944.7815	-0.2217
Outflow Junction	Outflow Volume m^3	Average Outflow, cms
STM MH 255	23944.7815	0.2217

```

*****
| Initial system volume      =      0.0000 Cu M |
| Total system inflow volume = 23958.3450 Cu M |
| Inflow + Initial volume   = 23958.3450 Cu M |
*****
| Total system outflow      = 23944.7815 Cu M |
| Volume left (Final volume) =      8.7559 Cu M |
| Evaporation               =      0.0000 Cu M |
| Basin Infiltration       =      0.0000 Cu M |
| Outflow + Final Volume   = 23953.5374 Cu M |
*****

```

```

*****
| Total Model Continuity Error |
| Error in Continuity, Percent =      0.0201 |
| Error in Continuity, m^3     =      4.8076 |
| + Error means a continuity loss, - a gain |
*****

```

```

#####
# Table E22. Numerical Model judgement section #
#####

```

```

Overall error was (minimum of Table E18 & E21)          0.0162 percent
Worst nodal error was in node Node117                  with  -0.0379 percent
Of the total inflow this loss was                      0.0757 percent
Your overall continuity error was                       Excellent
                                                         Excellent Efficiency
Efficiency of the simulation                            1.18
Most Number of Non Convergences at one Node           10.
Total Number Non Convergences at all Nodes            33.
Total Number of Nodes with Non Convergences           10.

```

```

#####
# Table E23. New Basin Design Information #
# Maximum Hydraulic Grade Line, #
# Out Conduit Sizes and Maximum Flow #
#####

```

- A) Resize d/s Pipes based on given HGL
- B) Resize Basin based on given HGL
- C) Resize d/s Pipes and Basin based on HGL and max discharge
- D) Resize d/s pipes based on given max discharge

Basin Name	Type	Max.HGL (m)	Conduit	Depth (m)	Width (m)	Barrels	Max.Flow (m ³ /s)
------------	------	----------------	---------	--------------	--------------	---------	---------------------------------

```

====> Hydraulic model simulation ended normally.
====> XP-SWMM Simulation ended normally.
====> Your input file was named : P:\2021\21264\Design and Reports\Computer Analysis\XPSWMM\1D\DC Kentucky - Caledon_100YR 6HR
AES\DC Kentucky - Caledon_100YR 6HR AES.DAT
====> Your output file was named : P:\2021\21264\Design and Reports\Computer Analysis\XPSWMM\1D\DC Kentucky - Caledon_100YR 6HR
AES\DC Kentucky - Caledon_100YR 6HR AES.out

```

```

*====*
| XPSWMM/XPSTORM Simulation Date and Time Summary |
*====*
| Starting Date... June 22, 2022 Time... 15:19:21.206 |
| Ending Date... June 22, 2022 Time... 15:20:13.296 |
| Elapsed Time... 0.73542 minutes or 44.12500 seconds |
*====*

```


300mm DIA. FIRE PROTECTION MAIN & APPURTENANCES ARE SHOWN ONLY FOR REFERENCE ONLY. LAYOUT PROVIDED FOR CIVIL CONTRACTOR LAYOUT PURPOSES. FOR FINAL DESIGN AND LOCATION REFER TO FIRE PROTECTION DRAWINGS PREPARED BY FIRE CONSULTANT FOR ADDITIONAL DETAILS AND SPECIFICATIONS

ALL SERVICES TO BUILDING SHALL BE REVIEWED & COORDINATED WITH MECHANICAL/STRUCTURAL CONSULTANTS AT BUILDING PERMIT STAGE AND WHERE REQUIRED ADJUSTMENTS SHALL BE MADE

ALL PROPOSED WATER PIPING MUST BE ISOLATED THROUGH A TEMPORARY CONNECTION THAT SHALL INCLUDE APPROPRIATE CROSS-CONNECTION CONTROL DEVICE(S) CONSISTENT WITH THE DEGREE OF HAZARD FOR BACKFLOW PREVENTION OF THE ACTIVE DISTRIBUTION SYSTEM CONFORMING TO REGION OF PEEL STANDARDS 1-7-7 OR 1-7-8

CONTRACTOR TO MAINTAIN A MINIMUM HORIZONTAL SEPARATION OF 2.5m BETWEEN WATER MAINS AND ALL STORM AND SANITARY SEWERS (TYP.). A MINIMUM VERTICAL SEPARATION BETWEEN WATER MAINS AND ALL STORM AND SANITARY SEWERS IS 0.50m (WATER IS BELOW) OR 0.3m (WATER IS ABOVE) (TYP.)

CONTRACTOR TO VERIFY ALL INVERTS, SIZE, MATERIAL, AND LOCATION OF ALL SERVICES PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ODAN/DETECH GROUP

SLEEVE DETAIL FOR SERVICES ENTERING BUILDING AND EXACT ENTRY LOCATIONS TO BE PROVIDED BY OTHERS. LOCATION OF RISERS TO BE COORDINATED AT TIME OF CONSTRUCTION BETWEEN MECHANICAL AND THE CONTRACTOR

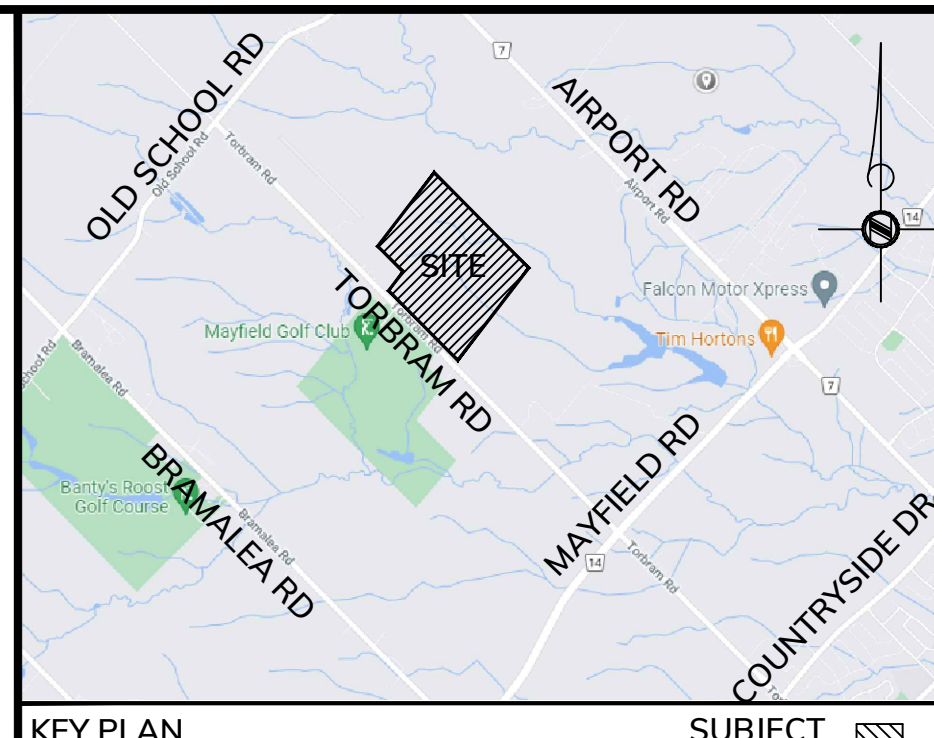
CONTRACTOR TO PROVIDE AS-BUILT DRAWINGS UPON COMPLETION OF ALL WORKS TO THE ODAN/DETECH GROUP

CONTRACTOR TO VERIFY ALL INVERTS, SIZE, MATERIAL, AND LOCATION OF ALL SERVICES PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ODAN/DETECH GROUP

CONTRACTOR TO MAINTAIN A MINIMUM HORIZONTAL SEPARATION OF 2.5m & MINIMUM VERTICAL SEPARATION OF 0.50m BETWEEN WATER MAIN(S) AND ALL STORM AND SANITARY SEWERS (TYP.)

ALL SERVICES TO BUILDING SHALL BE REVIEWED & COORDINATED WITH MECHANICAL/STRUCTURAL CONSULTANTS AT BUILDING PERMIT STAGE AND WHERE REQUIRED ADJUSTMENTS SHALL BE MADE

CONTRACTOR TO PROVIDE AS-BUILT DRAWINGS UPON COMPLETION OF ALL WORKS TO THE ODAN/DETECH GROUP



KEY PLAN
Scale: 1:1.5

NOTES:
THE POSITION OF POLE LINES, CONDUITS, WATERMANS, SEWERS AND UNDERGROUND AND ABOVE GROUND UTILITIES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING THE WORK THE CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

THE CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS ON THE JOB AND REPORT ANY DISCREPANCY TO THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORKS.

ALL DRAWINGS AND SPECIFICATIONS ARE INSTRUMENTS OF SERVICE AND THE PROPERTY OF THE ENGINEER WHICH MUST BE RETURNED AT THE COMPLETION OF WORK.

THIS DRAWING IS NOT TO BE SCALED. CONTRACTOR TO USE DIGITAL FILES FOR LAYOUT PROVIDED BY ENGINEER. THIS PLAN MUST NOT BE USED TO SITE THE PROPOSED BUILDINGS.

THE APPROVAL OF THIS PLAN DOES NOT EXEMPT THE OWNER'S CONTRACTOR FROM OBTAINING, BUT NOT LIMITED TO THE FOLLOWING PERMITS: ROAD CUT, SEWER PERMITS, RELOCATION OF SERVICES, ENCROACHMENT AGREEMENTS, APPROACH APPROVAL PERMITS, ETC.

EXISTING TOPOGRAPHICAL INFORMATION SUPPLIED BY YOUNG & YOUNG SURVEYING INC.

BENCH MARK:
1) ELEVATIONS HEREON ARE GEODETIC IN ORIGIN AND WERE DERIVED FROM GPS OBSERVATIONS USING THE "TOPNET" GPS NETWORK AND ARE REFERRED TO THE CGVD-1928: 1978 DATUM.
2) ELEVATIONS HEREON ARE GEODETIC IN ORIGIN AND WERE DERIVED FROM CITY OF BRAMPTON MONUMENT NO. 04220365 (NAD83 ADJUSTMENT) HAVING A PUBLISHED ELEVATION OF 242.135 m.
LOCATED 75.80m SOUTH OF CENTRELINE OF MAYFIELD ROAD AND 19.81m EAST OF CENTRELINE OF TORBRAM ROAD.

SITE BENCHMARK:
A CUT CROSS HAVING ELEVATION 242.51 m WAS SET ON THE NORTH-EAST CORNER OF THE INTERSECTION BETWEEN MAYFIELD ROAD AND TORBRAM ROAD.

BEARING NOTE:
BEARINGS ARE UTM GRID, DERIVED FROM GPS OBSERVATION USING THE "TOPNET" GPS NETWORK OBSERVATIONS, UTM ZONE 17, NAD83 (CSRS) (1997.0).

METRIC NOTE:
DISTANCES AND ELEVATIONS ON THIS PLAN ARE TYPICALLY SHOWN IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048.

NO.	ISSUED FOR SPA	DATE	BY
2.	ISSUED FOR SPA	JULY 15/22	M.E.H.
1.	ISSUED FOR REVIEW & COORDINATION	JUNE 22/22	M.E.H.

NO.	REVISIONS	DATE	BY

SCALE(S):
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1:750

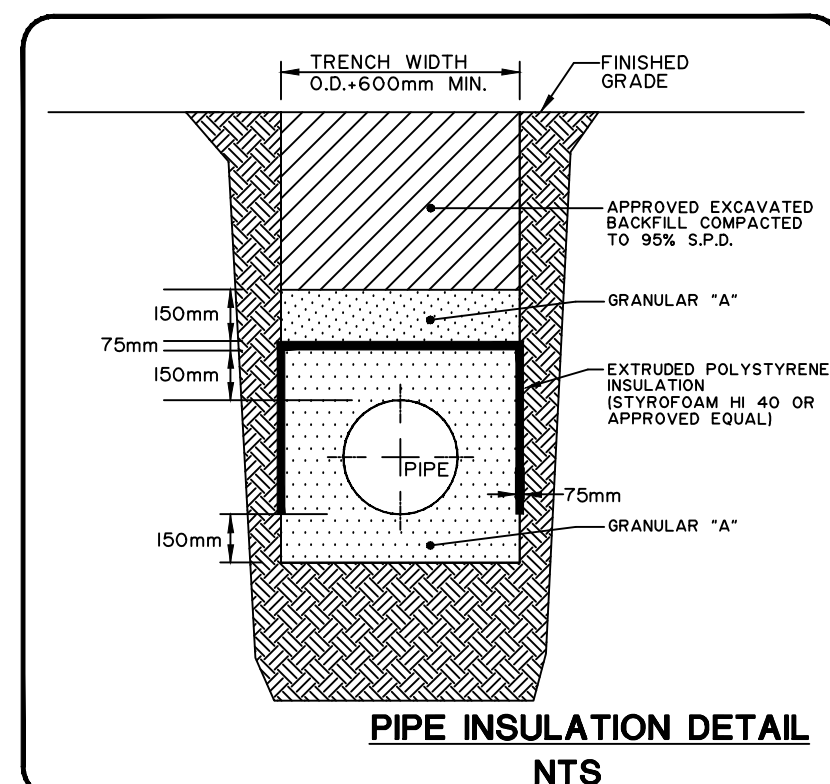
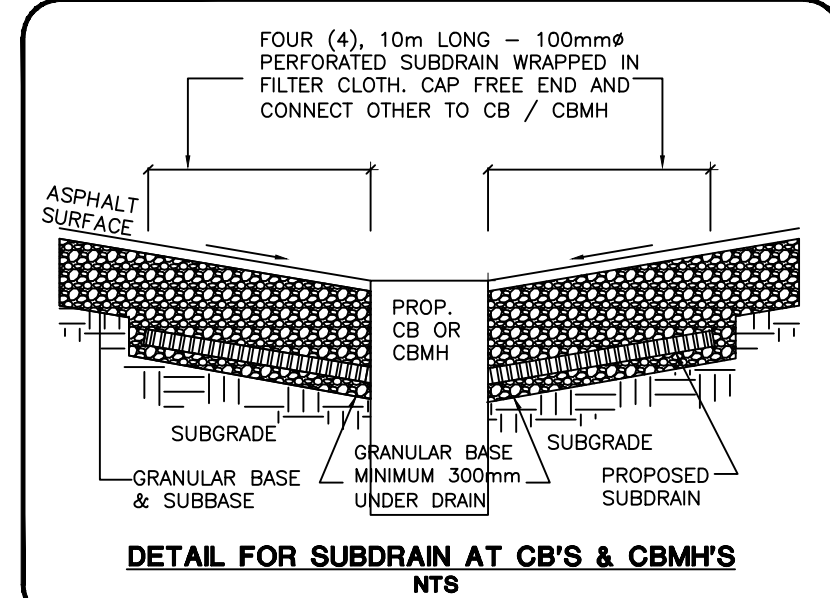
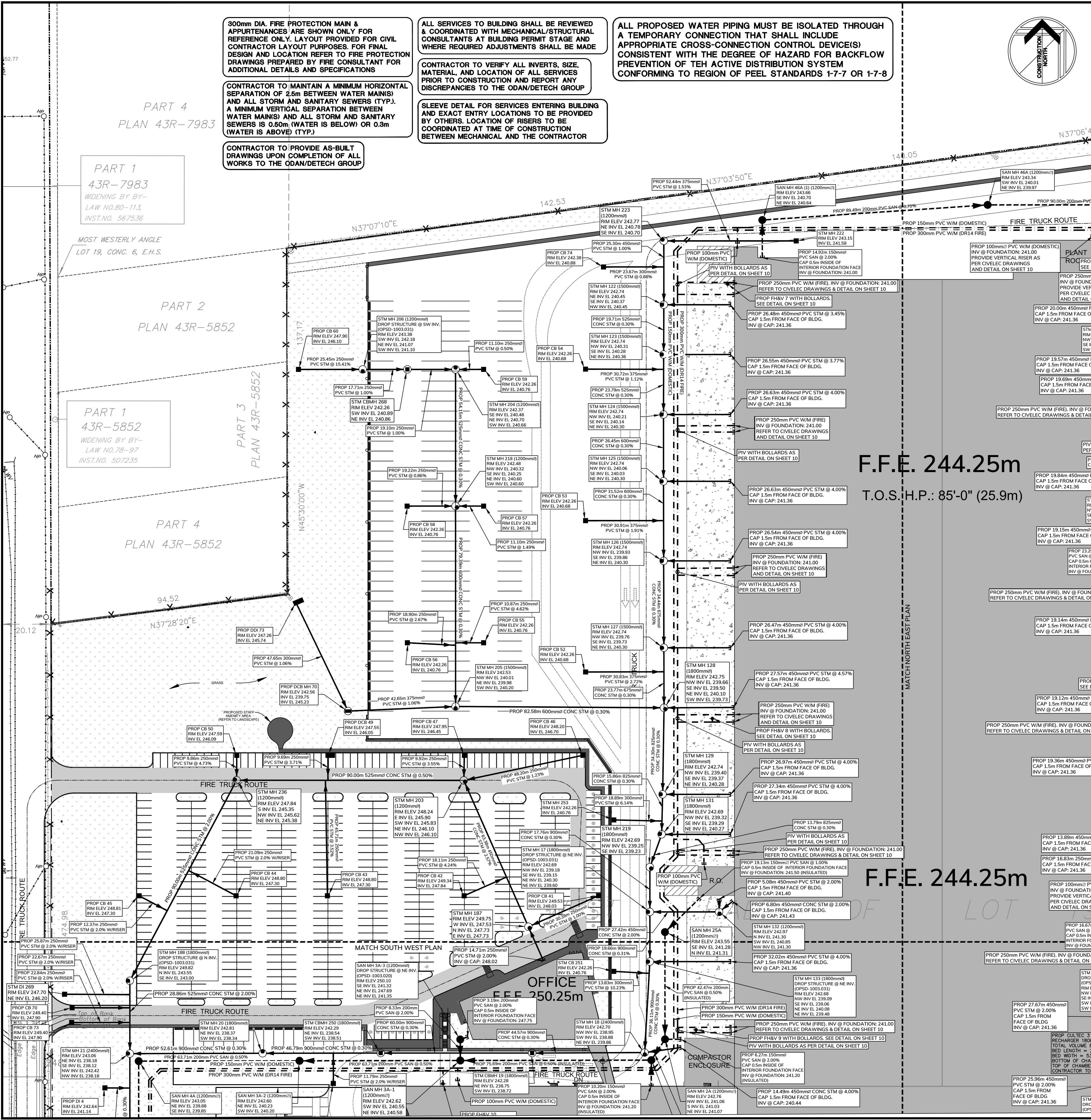
DRAWING TITLE:
SITE SERVICING PLAN
(NORTH WEST)

PROJECT:
PROPOSED INDUSTRIAL DEVELOPMENT
TULLAMORE LANDS
CALEDON, ONTARIO

CLIENT:
TULLAMORE LANDS

ODAN-DETECH CONSULTING ENGINEERS
The Odan/Detech Group Inc. P. (905) 632-3811 F. (905) 632-3363
5230 SOUTH SERVICE ROAD, BURLINGTON, ONTARIO, L7L 5K2

DESIGNED BY: M.H.H.
DRAWN BY: Z.Z.
CHECKED BY: J.K.
APPROVED BY: J.K.
PROJECT NO.: 21264
DATE: SEP 2021
DRAWING No.: 1 of 13



F.F.E. 244.25m
T.O.S.H.P.: 85'-0" (25.9m)

F.F.E. 244.25m

SERVICING LEGEND:

	DENOTES EXISTING STORM MANHOLE		DENOTES PROPOSED DETECTOR CHECK VALVE IN CHAMBER
	DENOTES EXISTING STORM MANHOLE		DENOTES PROPOSED HYDRANT
	DENOTES PROPOSED CATCHBASIN MANHOLE		DENOTES EXISTING HYDRANT
	DENOTES EXISTING CATCH BASIN		DENOTES PROPOSED HYDRANT PUMPER NOZZLE
	DENOTES PROPOSED CATCHBASIN		DENOTES PROPOSED WATER VALVE & BOX (OR PIV)
	DENOTES PROPOSED STORMCEPTOR		DENOTES EXISTING WATER METER
	DENOTES EXISTING STORM SEWER		DENOTES PROPOSED WATER METER
	DENOTES PROPOSED STORM SEWER		DENOTES PROPOSED WATER MAIN
	DENOTES PROPOSED SUB-DRAIN		DENOTES PROPOSED SIAMESE CONNECTION
	DENOTES EXISTING SANITARY MANHOLE		DENOTES PROPOSED CAP FOR SANITARY, STORM AND/OR WATER AS NOTED
	DENOTES PROPOSED SANITARY MANHOLE		DENOTES PROPOSED ENTRANCE LOCATION
	DENOTES PROPOSED SANITARY SEWER		DENOTES PROPOSED LIMIT OF CONSTRUCTION
	DENOTES EXISTING SANITARY SEWER		DENOTES PROPOSED HEAVY DUTY ASPHALT AREA

CONTRACTOR TO VERIFY ALL INVERTS, SIZE, MATERIAL, AND LOCATION OF ALL SERVICES PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ODAN/DETECH GROUP

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CONTRACTOR TO PROVIDE AS-BUILT DRAWINGS UPON COMPLETION OF ALL WORKS TO THE ODAN/DETECH GROUP

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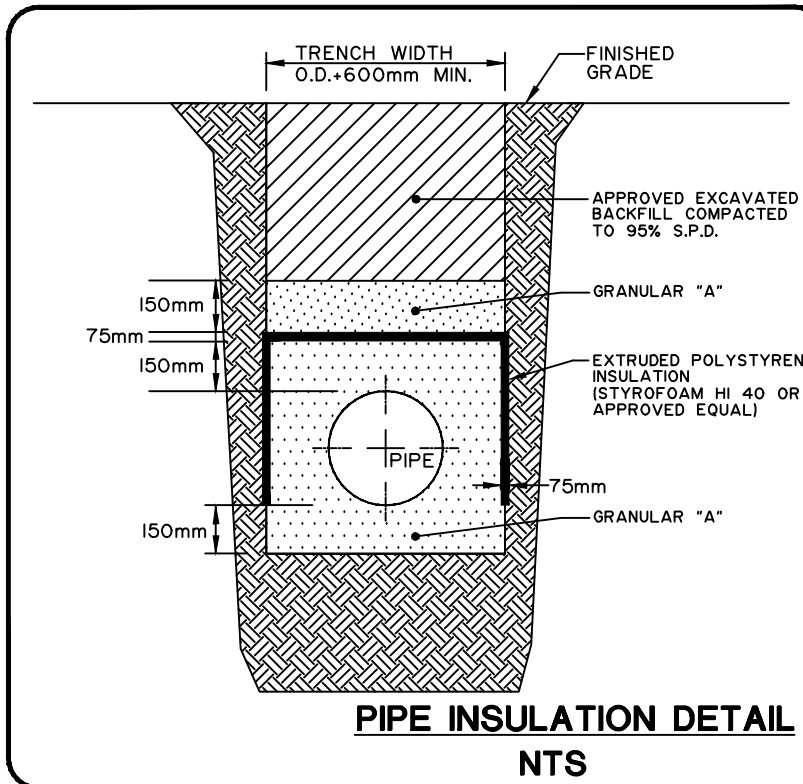
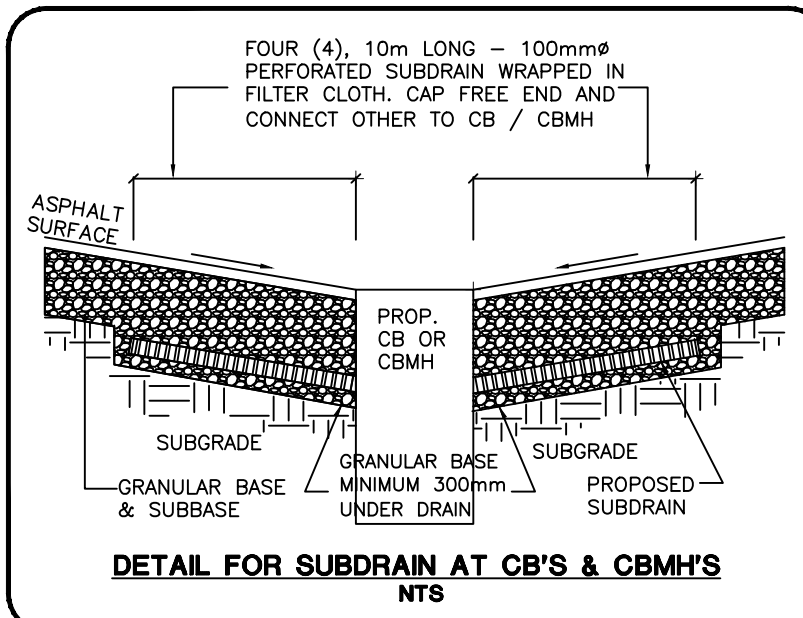
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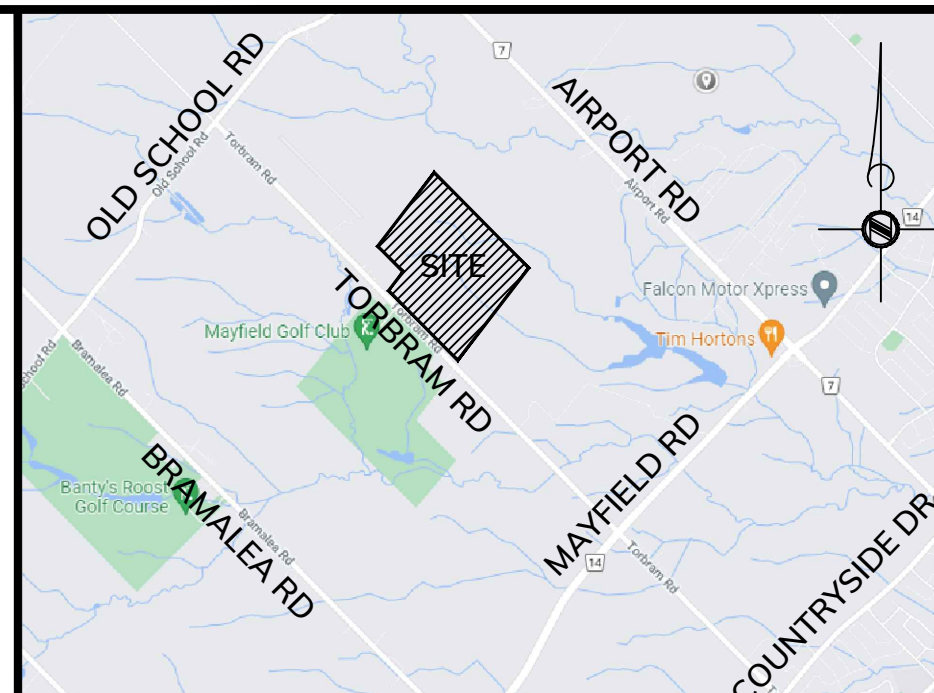
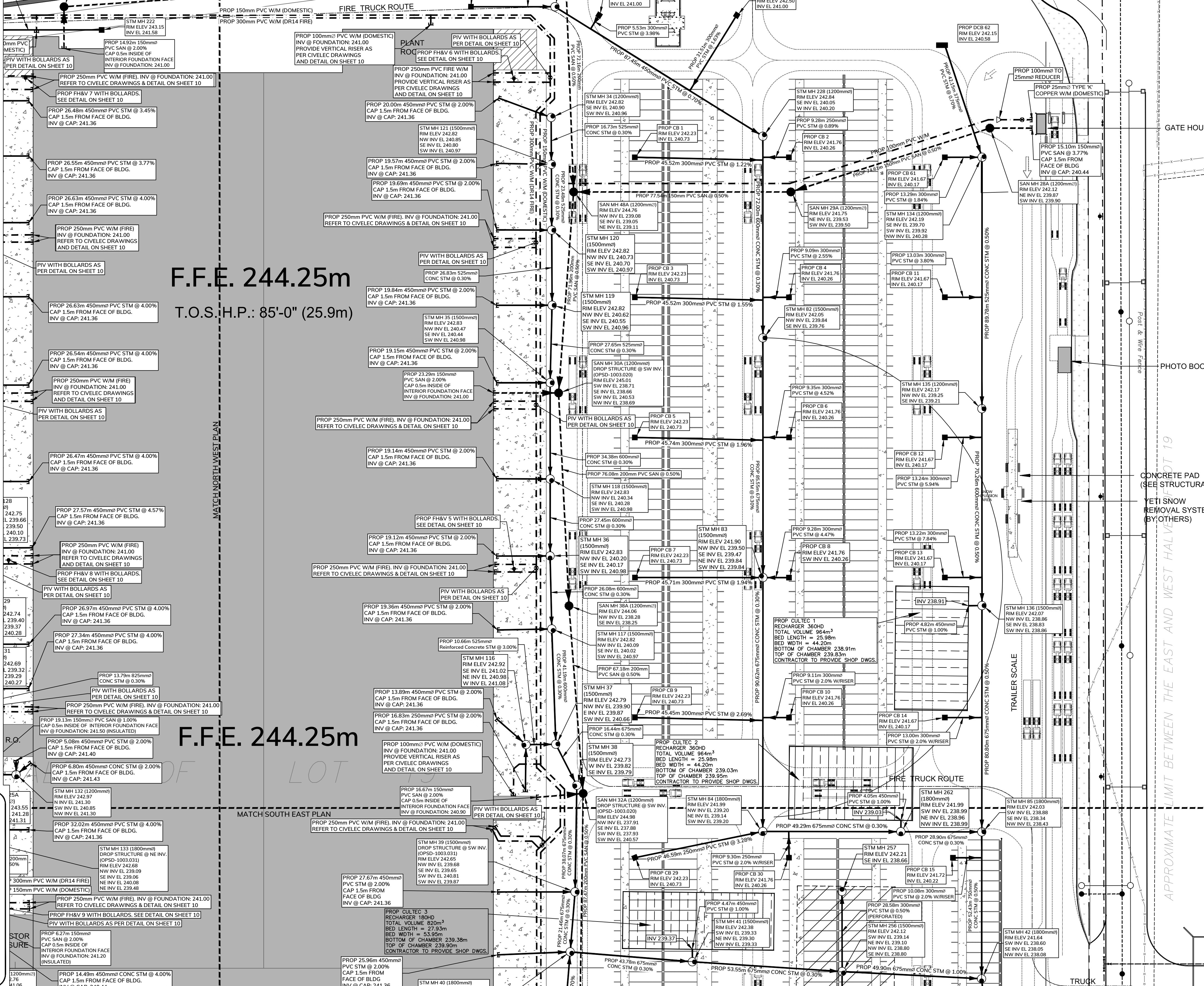
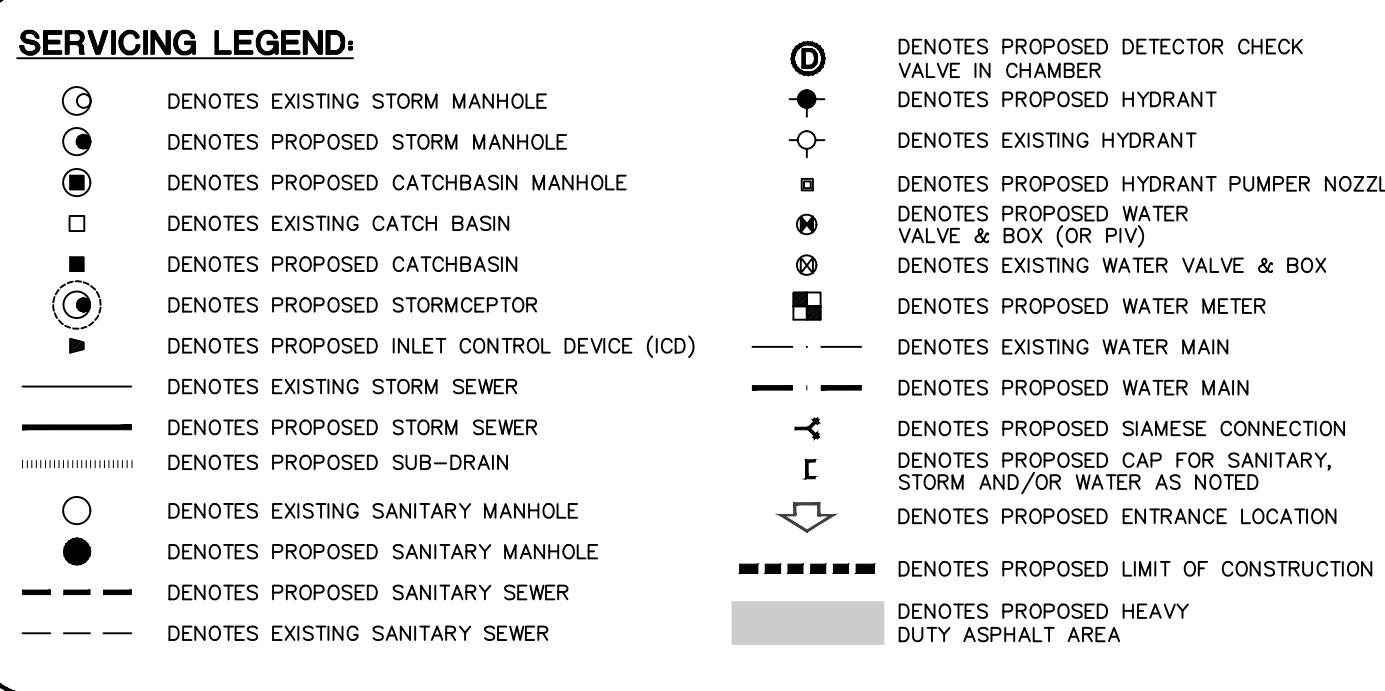
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REGION OF PEEL NOTES:

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2. WATERMAIN AND / OR WATER SERVICE MATERIALS 100 mm(4") AND LARGER MUST BE PVC-DR 18 CONFORMING TO AWWA SPECIFICATIONS C900-16. SIZE 50mm (2") AND SMALLER MUST BE TYPE "K" SOFT COPPER.
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12. THE CONTRACTOR(S) SHALL BE SOLELY RESPONSIBLE FOR LOCATES, EXPOSING SUPPORTING AND PROTECTING OF ALL UNDERGROUND AND OVERHEAD UTILITIES AND STRUCTURES EXISTING AT THE TIME OF CONSTRUCTION IN THE AREA OF THEIR WORK, WHETHER SHOWN ON THE PLANS OR NOT AND FOR ALL REPAIRS AND CONSEQUENCES RESULTING FROM DAMAGE TO SAME.
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KEY PLAN
Scale: 1:1.5

SUBJECT LANDS

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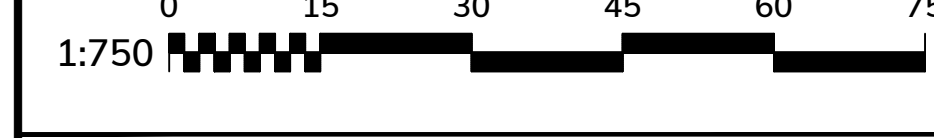
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LOCATED 75.60m SOUTH OF CENTRELINE OF MAYFIELD ROAD AND 19.81m EAST OF CENTRELINE OF TORBRAM ROAD.

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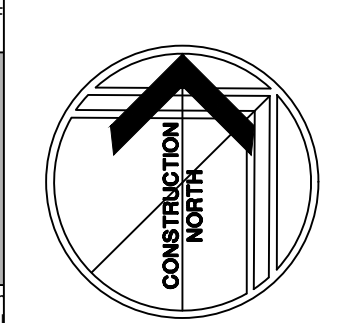
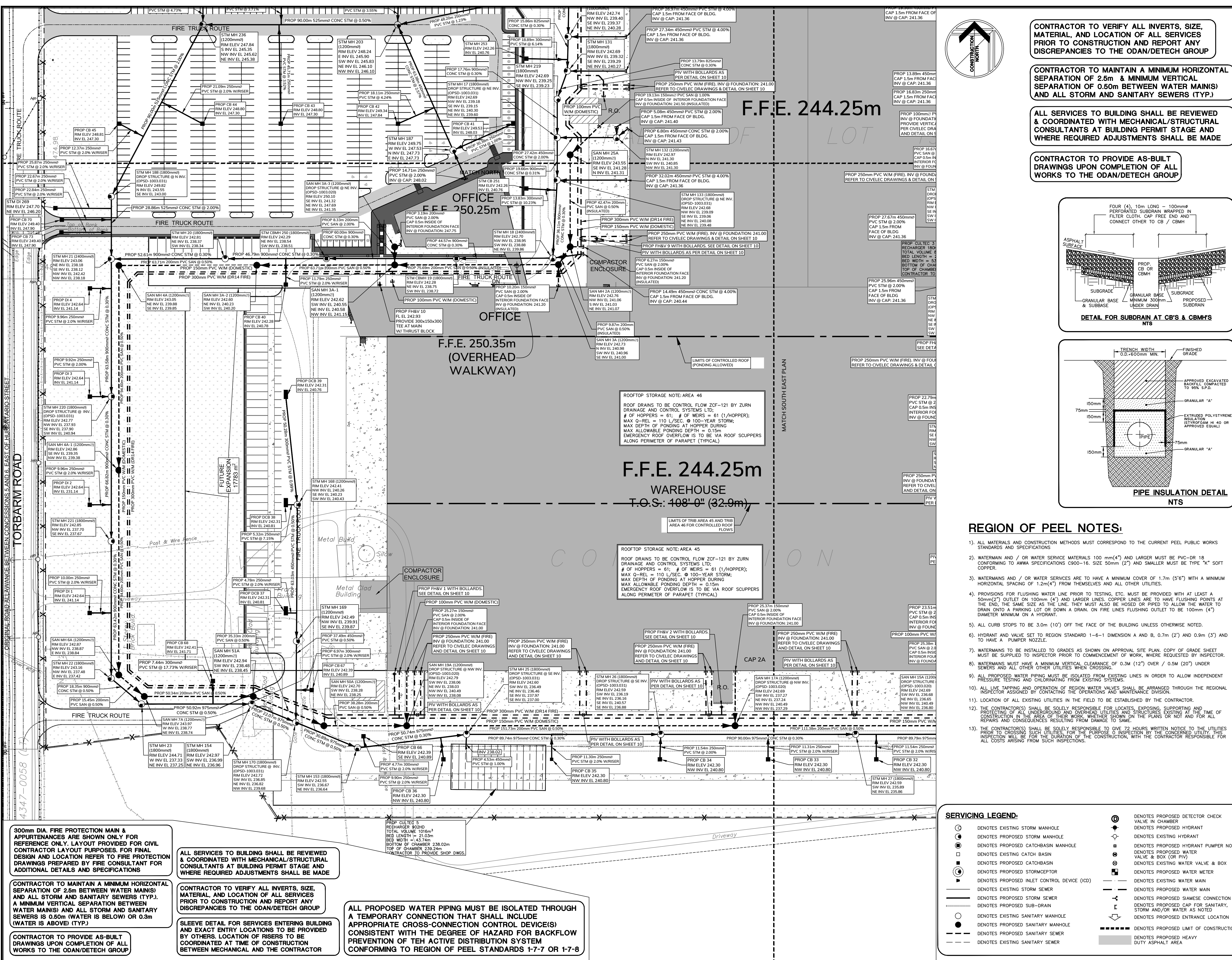
DRAWING TITLE:
SITE SERVICING PLAN (NORTH EAST)

PROJECT:
PROPOSED INDUSTRIAL DEVELOPMENT
TULLAMORE LANDS
CALEDON, ONTARIO

CLIENT:
TULLAMORE LANDS



DESIGNED BY: M.H.H.	PROJECT NO: 21264
DRAWN BY: Z.Z.	DATE: SEP 2021
CHECKED BY: J.K.	DRAWING No.: 2 of 13
APPROVED BY: J.K.	ENGINEER



CONTRACTOR TO VERIFY ALL INVERTS, SIZE, MATERIAL, AND LOCATION OF ALL SERVICES PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ODAN/DETECH GROUP

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F.F.E. 244.25m

OFFICE
F.F.E. 250.25m

OFFICE
F.F.E. 250.35m
(OVERHEAD WALKWAY)

F.F.E. 244.25m

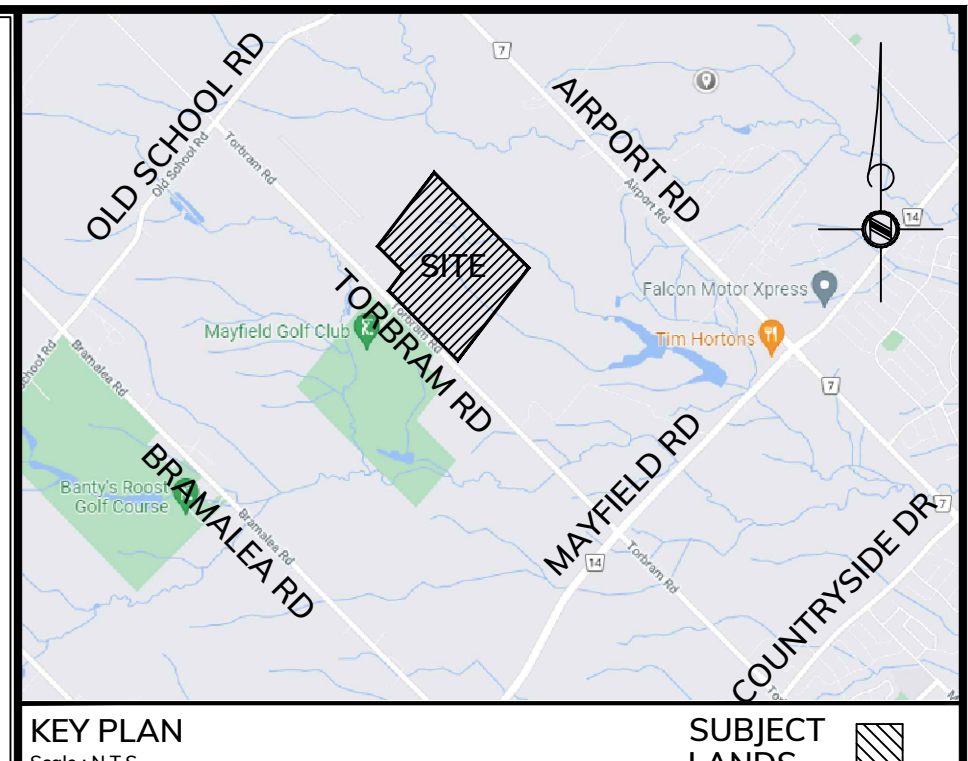
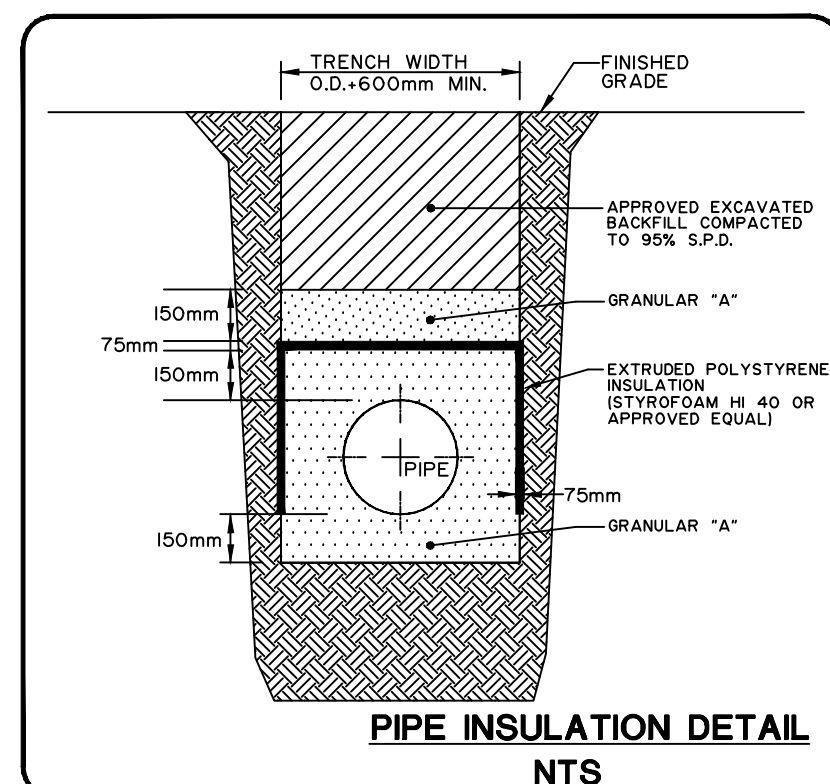
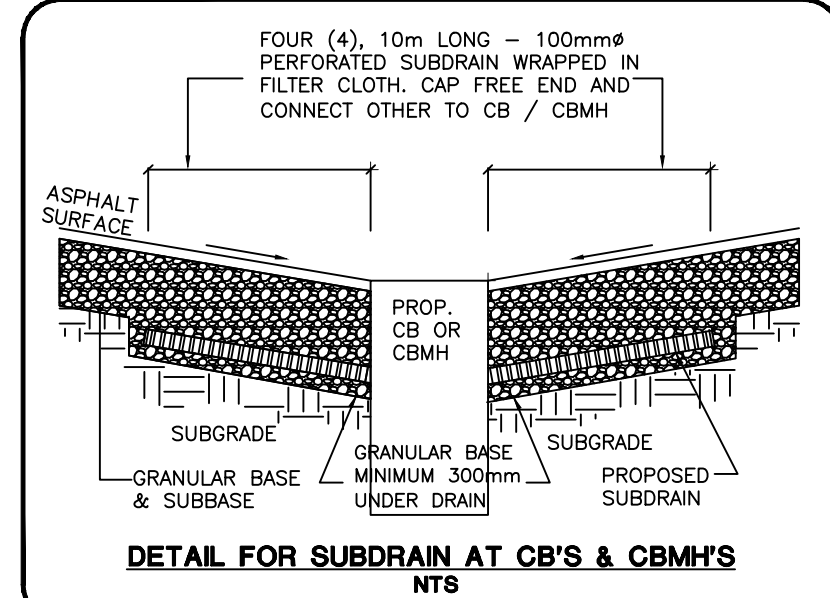
WAREHOUSE
T.O.S.: 108' 0" (32.9m)

F.F.E. 244.25m

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T.O.S.: 108' 0" (32.9m)

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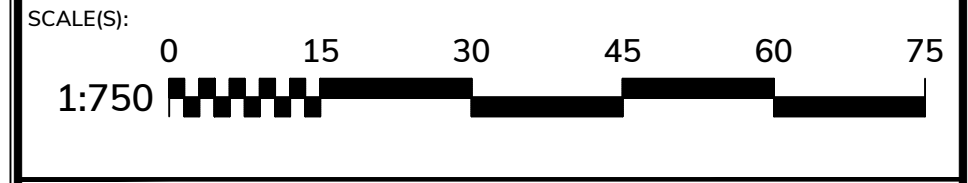
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2.	ISSUED FOR REVIEW & COORDINATION	JUNE 22/22	M.E.H.



DRAWING TITLE:
SITE SERVICING PLAN
(SOUTH WEST)

PROJECT:
PROPOSED INDUSTRIAL DEVELOPMENT

TULLAMORE LANDS
CALEDON, ONTARIO

CLIENT:
TULLAMORE LANDS



DESIGNED BY: M.H.H.	PROJECT NO: 21264
DRAWN BY: Z.Z.	DATE: SEP 2021
CHECKED BY: J.K.	DRAWING No.:
APPROVED BY: J.K.	3 of 13

SERVICING LEGEND:

	DENOTES EXISTING STORM MANHOLE		DENOTES PROPOSED DETECTOR CHECK VALVE IN CHAMBER
	DENOTES PROPOSED STORM MANHOLE		DENOTES PROPOSED HYDRANT
	DENOTES PROPOSED CATCHBASIN MANHOLE		DENOTES EXISTING HYDRANT
	DENOTES EXISTING CATCH BASIN		DENOTES PROPOSED HYDRANT PUMPER NOZZLE
	DENOTES PROPOSED CATCHBASIN		DENOTES VALVE & BOX (OR PIV)
	DENOTES PROPOSED STORMCEPTOR		DENOTES EXISTING WATER METER
	DENOTES PROPOSED INLET CONTROL DEVICE (ICD)		DENOTES EXISTING WATER MAIN
	DENOTES EXISTING STORM SEWER		DENOTES PROPOSED WATER MAIN CONNECTION
	DENOTES PROPOSED STORM SEWER		DENOTES PROPOSED CAP FOR SANITARY, STORM AND/OR WATER AS NOTED
	DENOTES PROPOSED SUB-DRAIN		DENOTES PROPOSED ENTRANCE LOCATION
	DENOTES EXISTING SANITARY MANHOLE		DENOTES PROPOSED LIMIT OF CONSTRUCTION
	DENOTES PROPOSED SANITARY MANHOLE		DENOTES PROPOSED HEAVY DUTY ASPHALT AREA
	DENOTES PROPOSED SANITARY SEWER		
	DENOTES EXISTING SANITARY SEWER		

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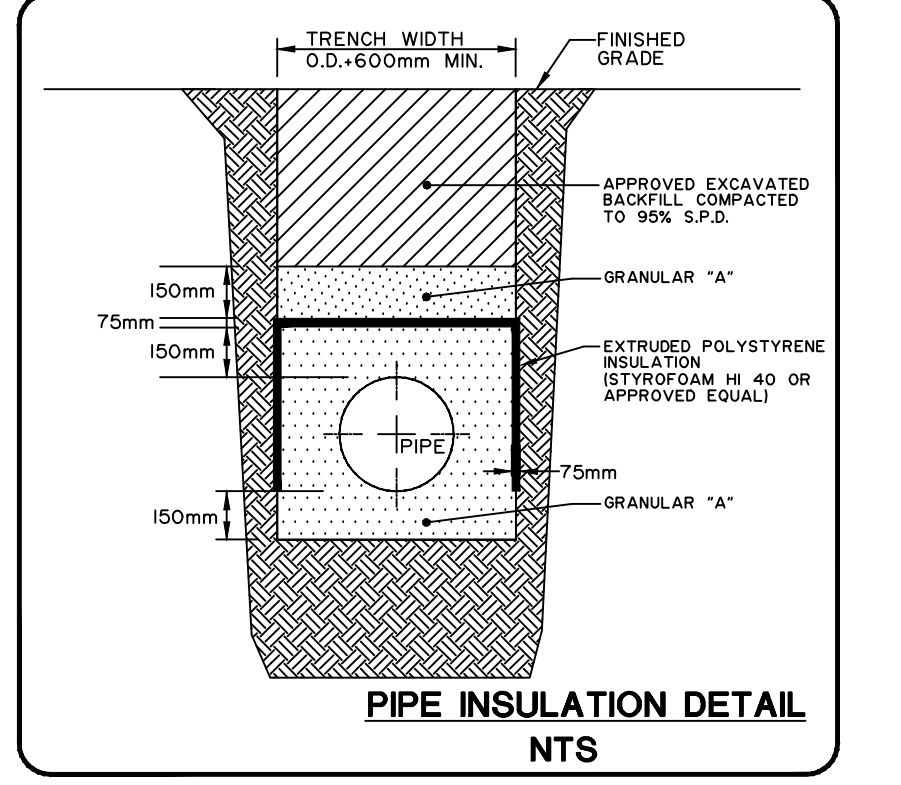
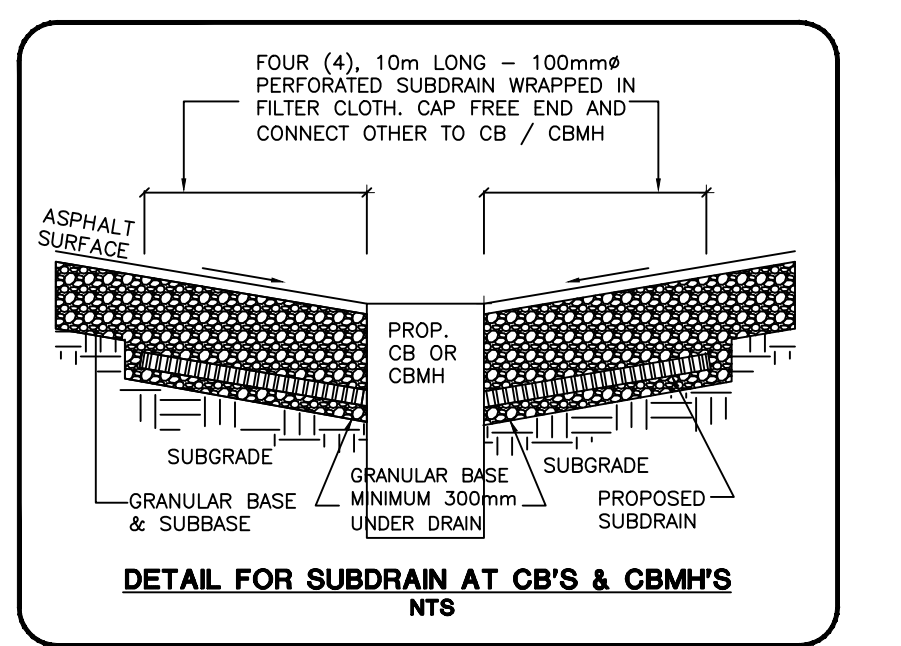
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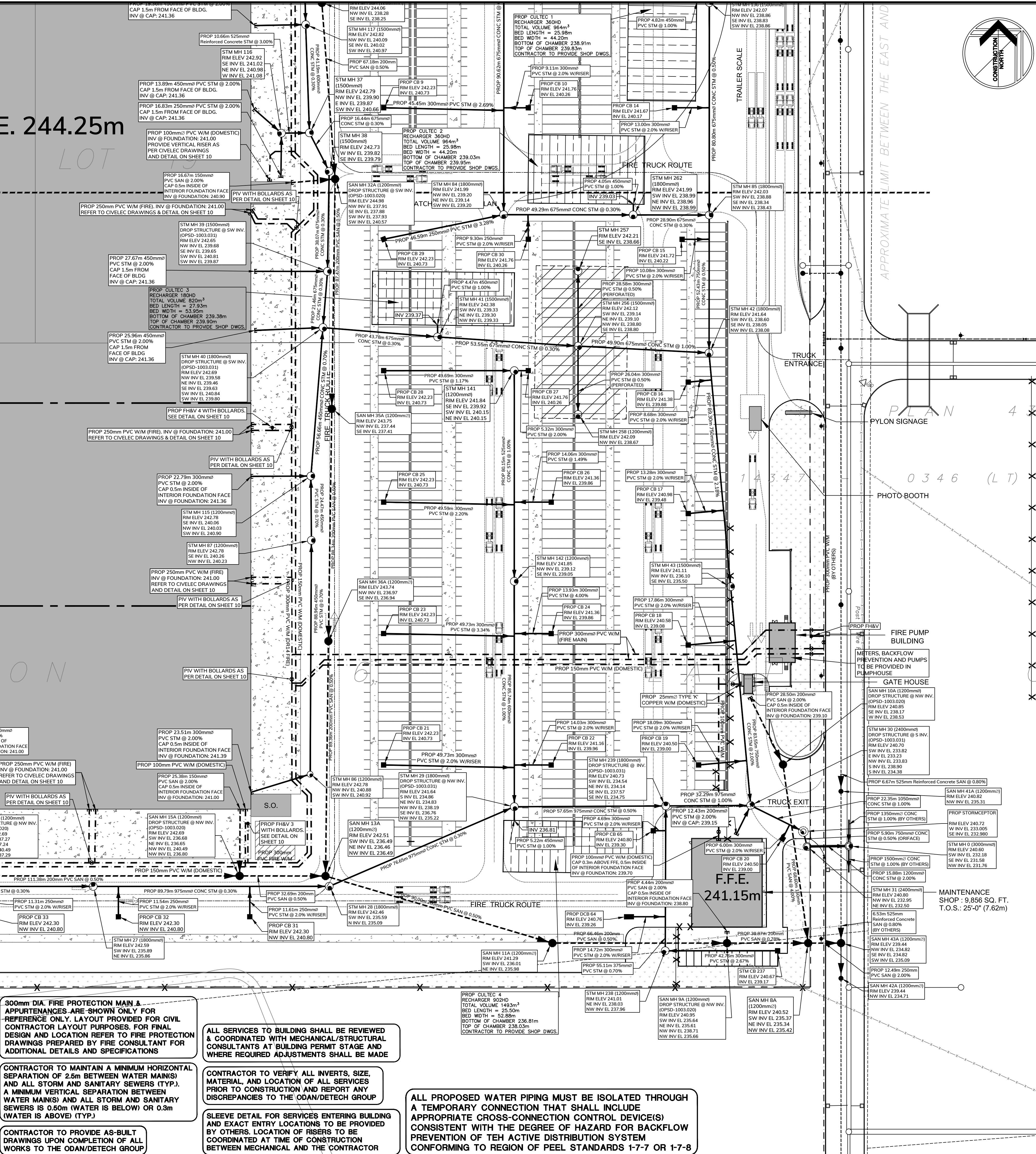
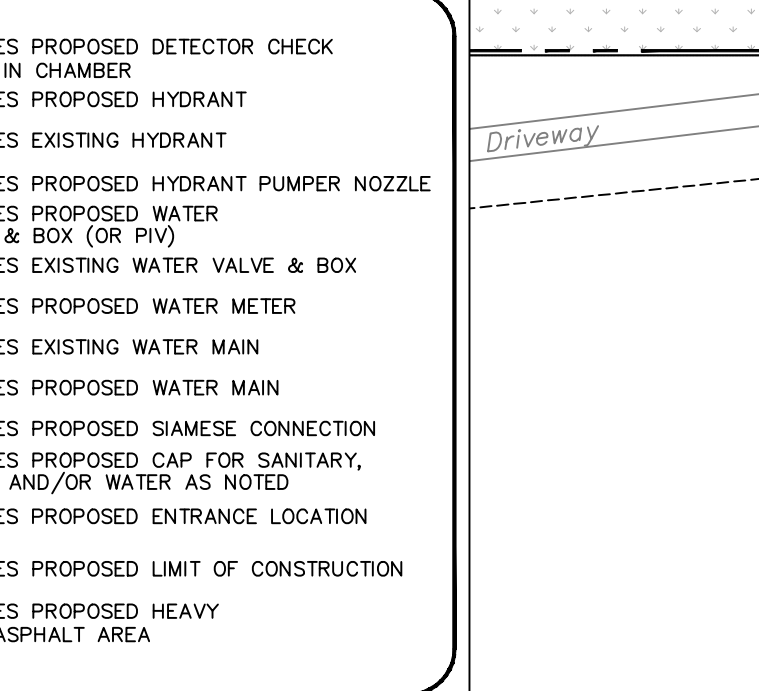
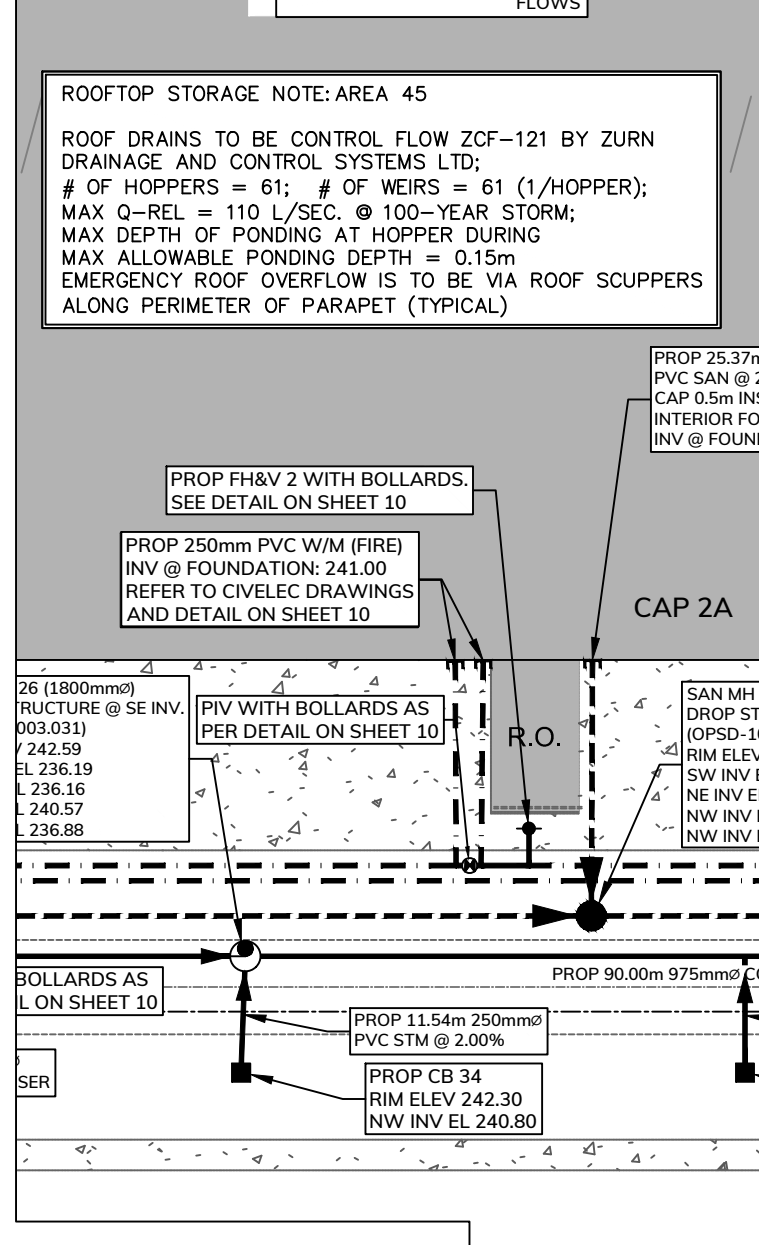
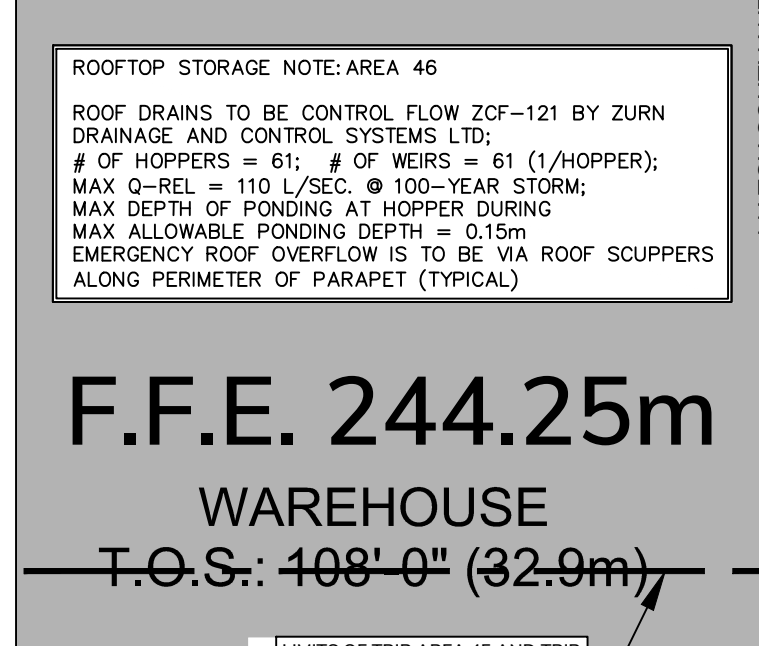
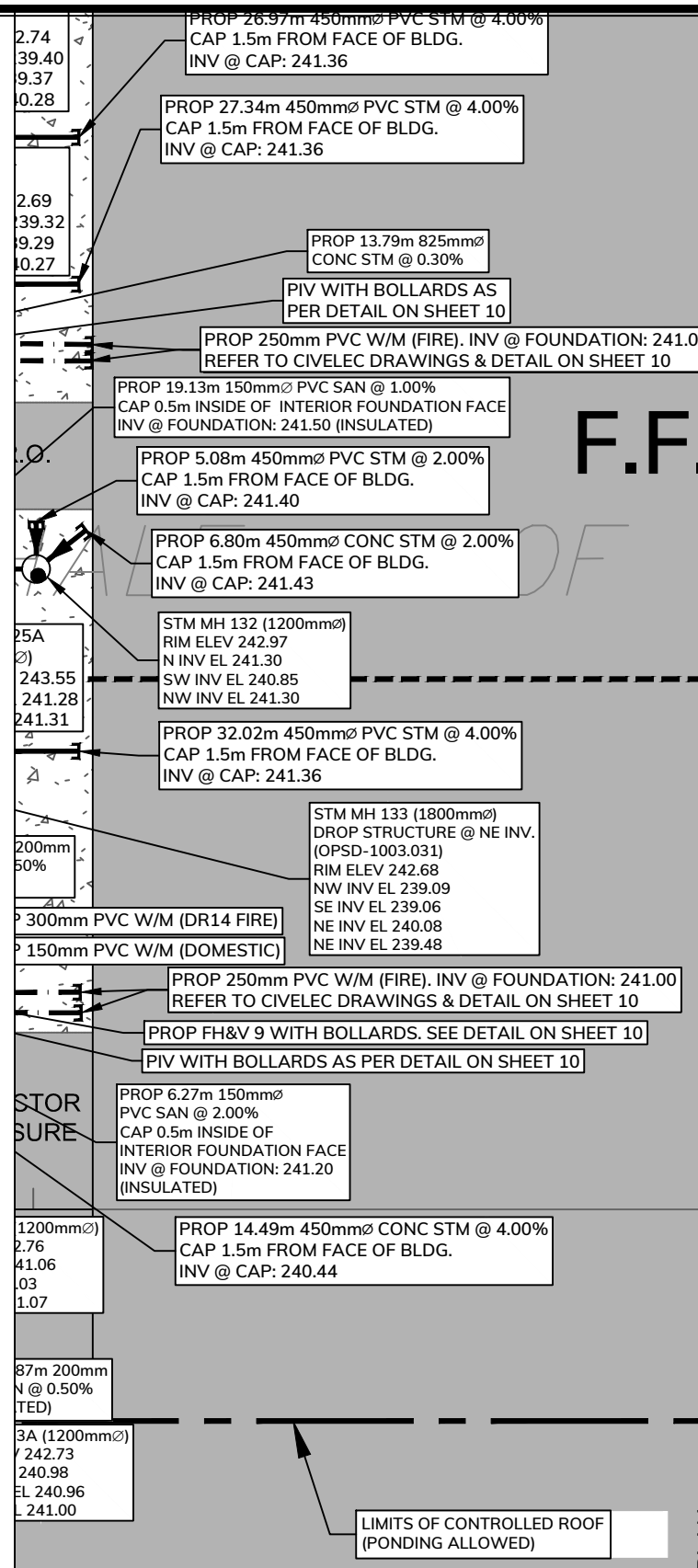
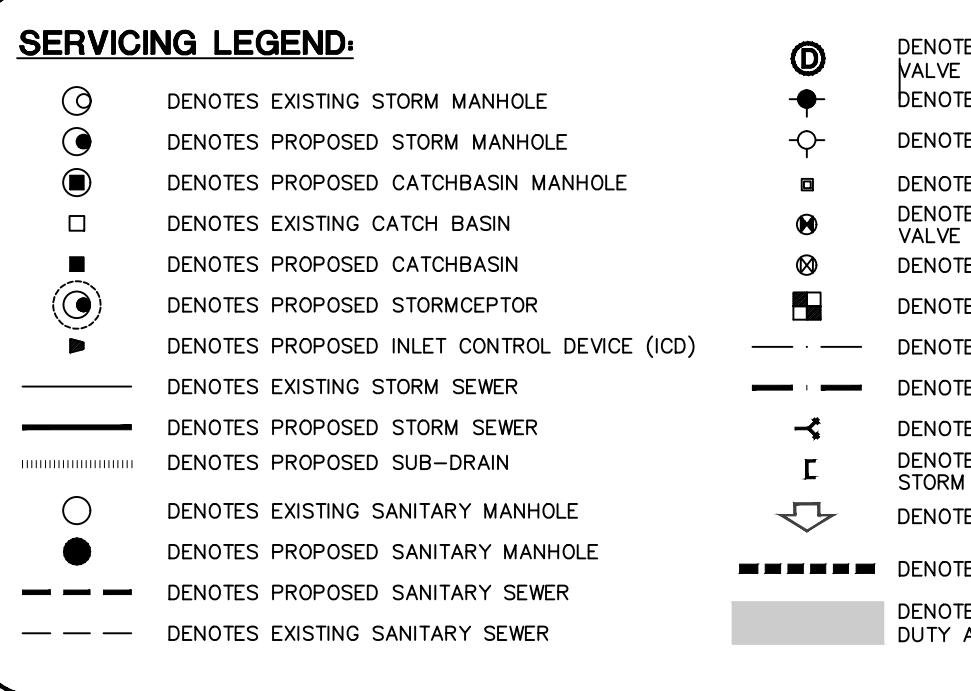
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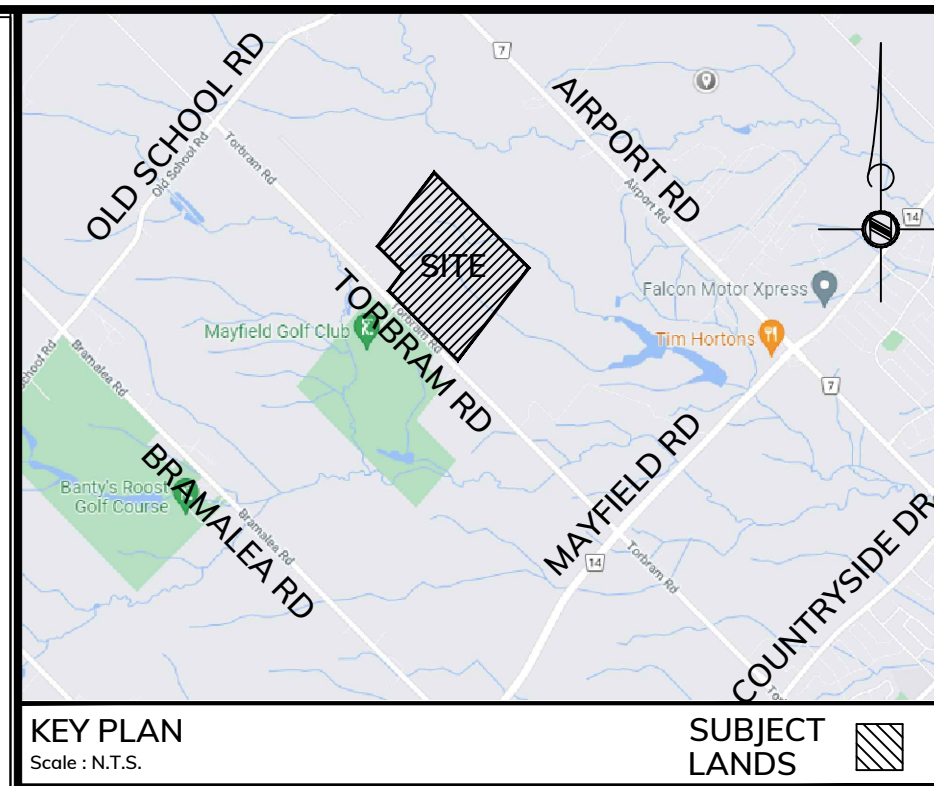
CONTRACTOR TO PROVIDE AS-BUILT DRAWINGS UPON COMPLETION OF ALL WORKS TO THE ODAN/DETECH GROUP

ALL SERVICES TO BUILDING SHALL BE REVIEWED & COORDINATED WITH MECHANICAL/STRUCTURAL CONSULTANTS AT BUILDING PERMIT STAGE AND WHERE REQUIRED ADJUSTMENTS SHALL BE MADE

CONTRACTOR TO VERIFY ALL INVERTS, SIZE, MATERIAL, AND LOCATION OF ALL SERVICES PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ODAN/DETECH GROUP

SLEEVE DETAIL FOR SERVICES ENTERING BUILDING AND EXACT ENTRY LOCATIONS TO BE PROVIDED BY OTHERS. LOCATION OF RISERS TO BE COORDINATED AT TIME OF CONSTRUCTION BETWEEN MECHANICAL AND THE CONTRACTOR

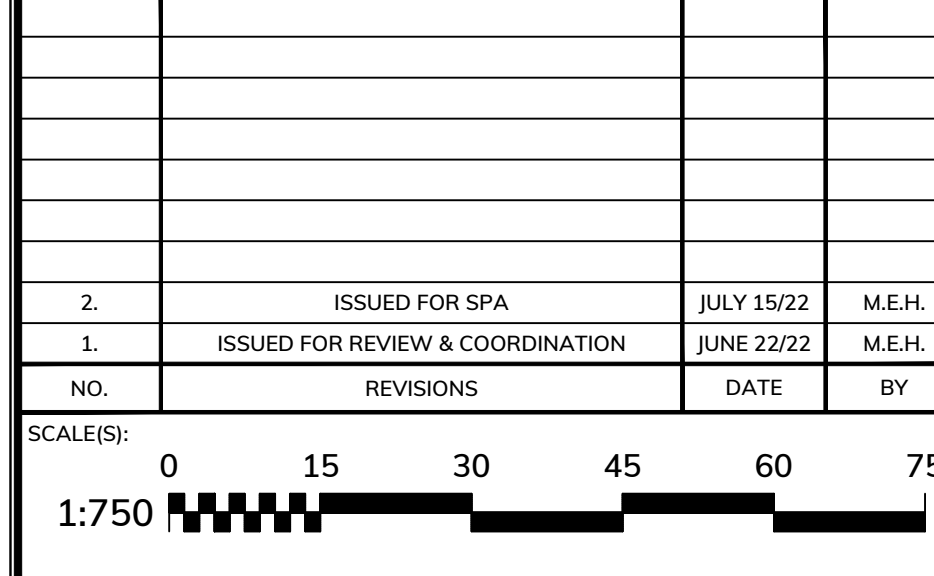
ALL PROPOSED WATER PIPING MUST BE ISOLATED THROUGH A TEMPORARY CONNECTION THAT SHALL INCLUDE APPROPRIATE CROSS-CONNECTION CONTROL DEVICES(S) CONSISTENT WITH THE DEGREE OF HAZARD FOR BACKFLOW PREVENTION OF TEH ACTIVE DISTRIBUTION SYSTEM CONFORMING TO REGION OF PEEL STANDARDS 1-7-7 OR 1-7-8



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Table with 4 columns: NO., REVISIONS, DATE, BY. Row 1: ISSUED FOR SPA, JULY 15/22, M.E.H. Row 2: ISSUED FOR REVIEW & COORDINATION, JUNE 22/22, M.E.H.



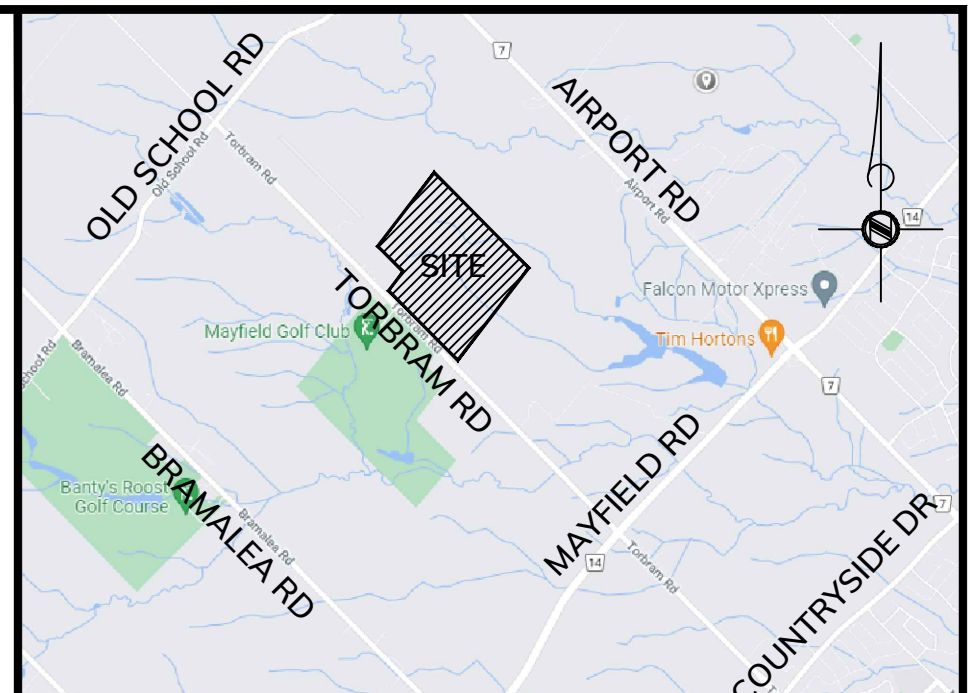
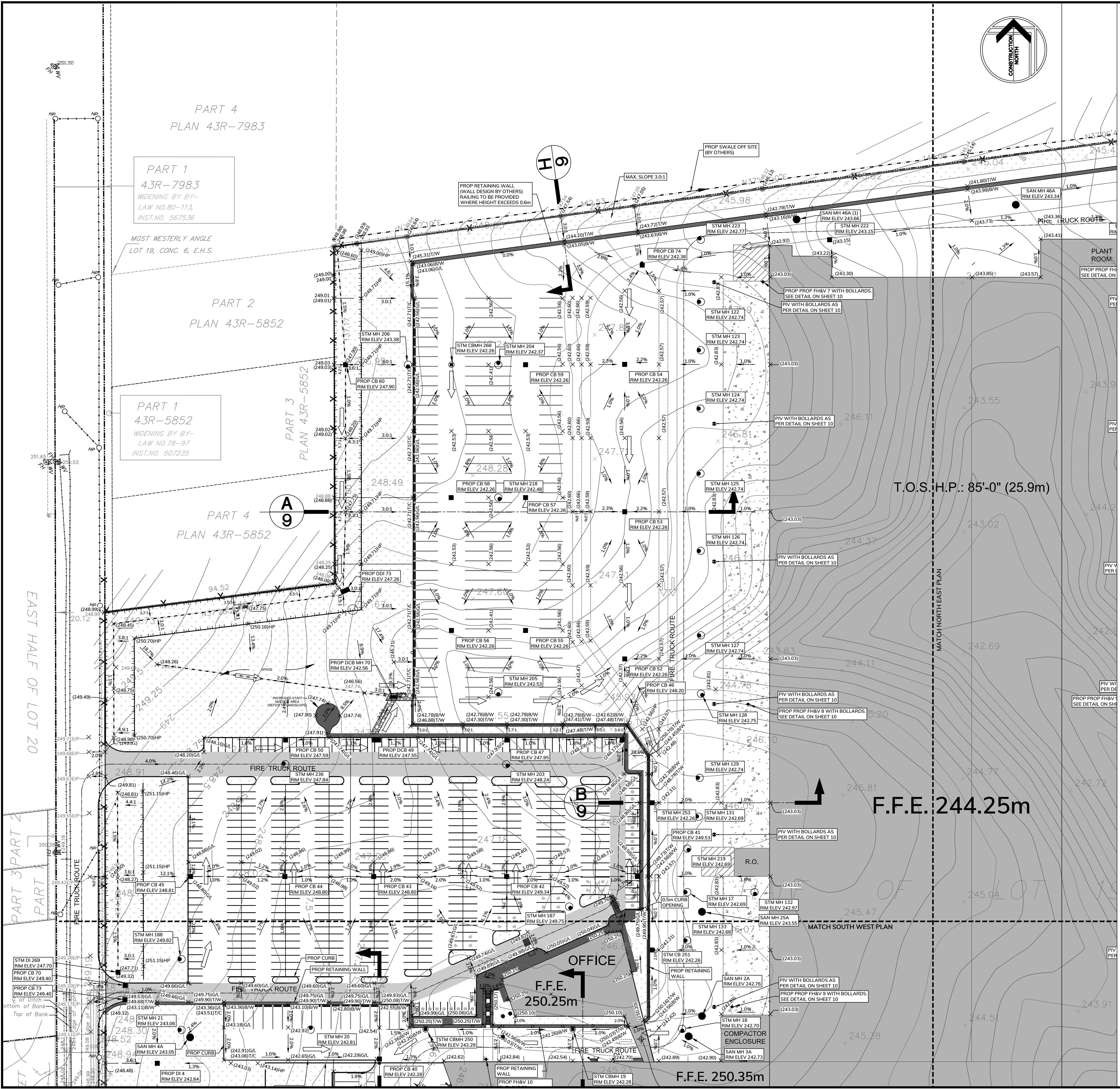
DRAWING TITLE: SITE SERVICING PLAN (SOUTH EAST)

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT TULLAMORE LANDS CALEDON, ONTARIO

CLIENT: TULLAMORE LANDS

ODAN-DETECH CONSULTING ENGINEERS. The Odan/Detech Group Inc. P. (905) 632-3811 F. (905) 632-3363 5230 SOUTH SERVICE ROAD, BURLINGTON, ONTARIO, L7L 5K2

Professional Engineer stamp for I. KRPAN, July 15/22, Province of Ontario. Table with columns: DESIGNED BY (M.H.H.), DRAWN BY (Z.Z.), CHECKED BY (J.K.), APPROVED BY (J.K.), PROJECT NO. (21264), DATE, SEP 2021, DRAWING No. (4 of 13).



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EXISTING TOPOGRAPHICAL INFORMATION SUPPLIED BY YOUNG & YOUNG SURVEYING INC..

GRADING LEGEND:

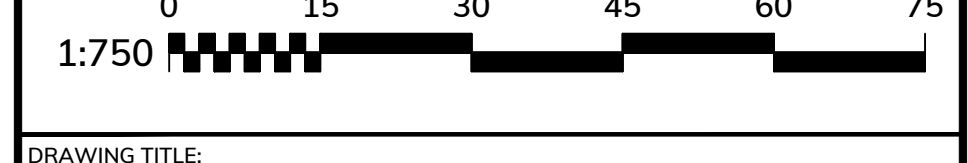
- DENOTES EXISTING STORM MANHOLE
- DENOTES PROPOSED STORM MANHOLE
- DENOTES PROPOSED CATCHBASIN MANHOLE
- DENOTES EXISTING CATCHBASIN
- DENOTES PROPOSED CATCHBASIN
- DENOTES PROPOSED STORMCEPTOR
- DENOTES EXISTING SANITARY MANHOLE
- DENOTES PROPOSED SANITARY MANHOLE
- DENOTES EXISTING HYDRANT
- DENOTES PROPOSED HYDRANT
- DENOTES EXISTING WATER VALVE & BOX
- DENOTES PROPOSED WATER VALVE & BOX
- DENOTES EXISTING WATER METER
- DENOTES PROPOSED WATER METER
- DENOTES EXISTING SIAMESE CONNECTION
- DENOTES PROPOSED SIAMESE CONNECTION
- DENOTES EXISTING SPOT ELEVATION
- DENOTES PROPOSED ELEVATION
- DENOTES EXISTING EDGE OF PAVEMENT ELEVATION
- DENOTES PROPOSED GUTTER LINE ELEVATION
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- DENOTES PROPOSED TOP OF WALL ELEVATION
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- DENOTES PROPOSED FLOW ARROW
- DENOTES PROPOSED EMERGENCY OVERLAND FLOW
- DENOTES PROPOSED SLOPE (3:1 OR HIGHER)
- DENOTES EXISTING CONTOUR
- DENOTES PROPOSED ENTRANCE LOCATION
- DENOTES EXTENT OF MAX. PONDING 100 YEAR STORM
- DENOTES PROPOSED BOTTOM OF SWALE
- DENOTES PROPOSED LIMIT OF CONSTRUCTION
- DENOTES PROPOSED HEAVY DUTY ASPHALT AREA

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BEARING NOTE:
BEARINGS ARE UTM GRID, DERIVED FROM GPS OBSERVATION USING THE "TOPNET" GPS NETWORK OBSERVATIONS, UTM ZONE 17, NAD83 (CSRS) (1997.0).

METRIC NOTE:
DISTANCES AND ELEVATIONS ON THIS PLAN ARE TYPICALLY SHOWN IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048.

NO.	REVISIONS	DATE	BY
2.	ISSUED FOR SPA	JULY 15/22	M.E.H.
1.	ISSUED FOR REVIEW & COORDINATION	JUNE 22/22	M.E.H.



DRAWING TITLE:
SITE GRADING PLAN
(NORTH WEST)

PROJECT:
PROPOSED INDUSTRIAL DEVELOPMENT
TULLAMORE LANDS
CALEDON, ONTARIO

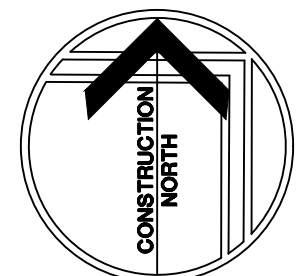
CLIENT:
TULLAMORE LANDS

ODAN-DETECH
CONSULTING ENGINEERS

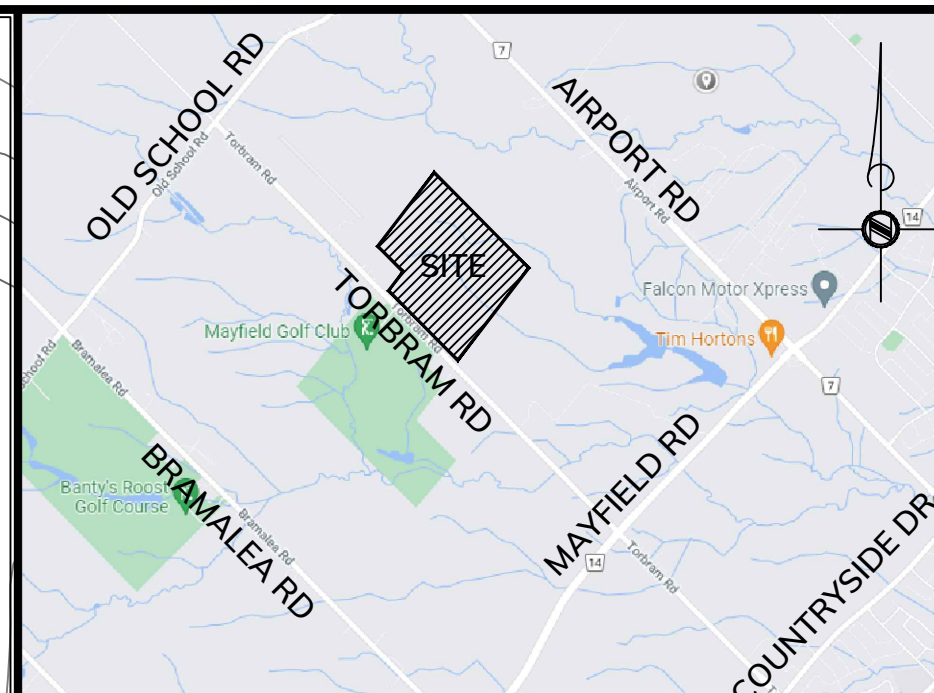
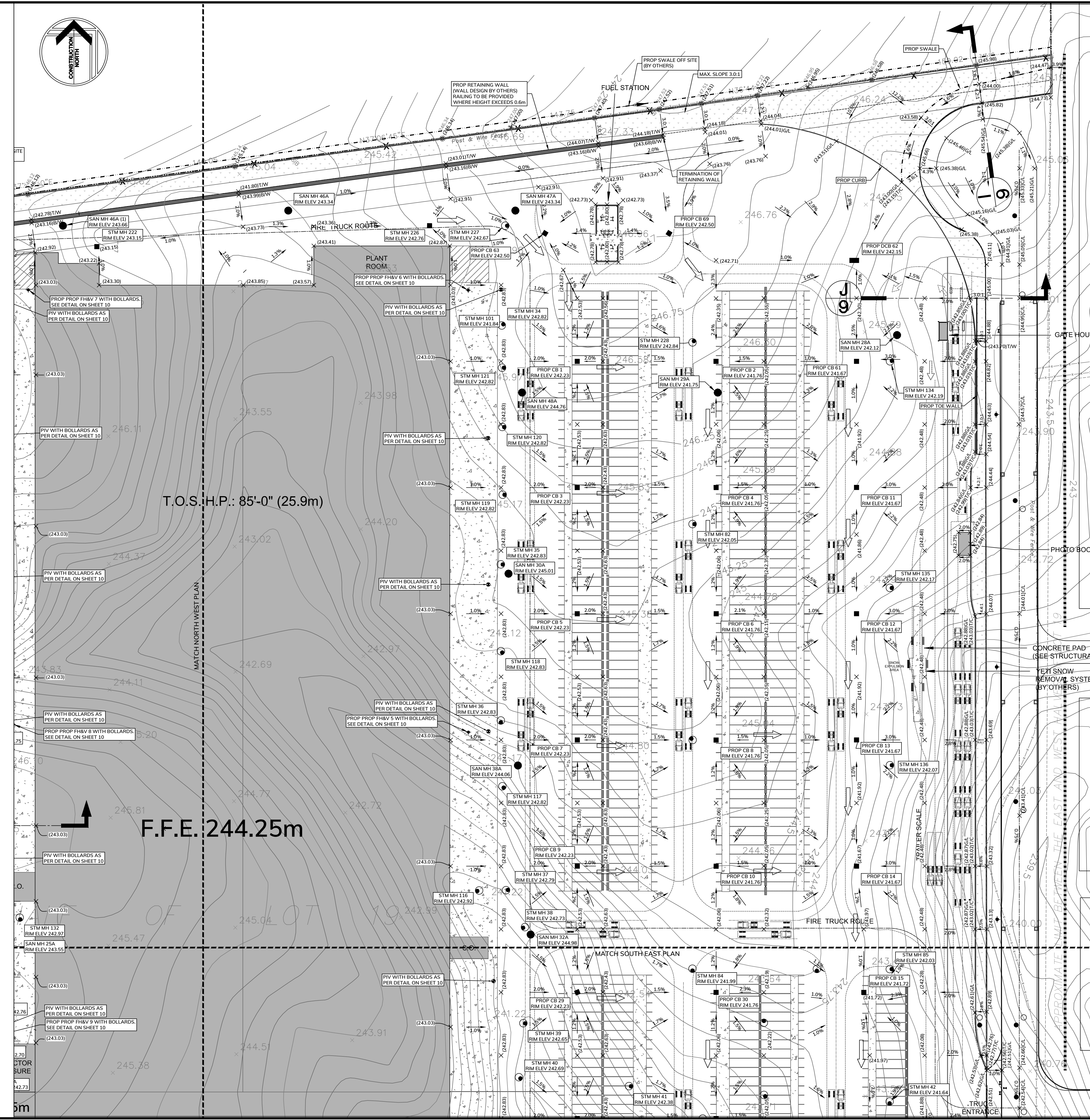
The Odan/Detech Group Inc. P. (905) 632-3811 F. (905) 632-3363
5230 SOUTH SERVICE ROAD, BURLINGTON, ONTARIO, L7L 5K2

REGISTERED PROFESSIONAL ENGINEER
JULY 15/22
I. KRPAN
PROVINCE OF ONTARIO

DESIGNED BY: M.H.H. PROJECT No: 21264
DRAWN BY: Z.Z. DATE:
CHECKED BY: J.K. SEP 2021
APPROVED BY: J.K. DRAWING No.: 5 of 13
ENGINEER



- GRADING LEGEND:**
- DENOTES EXISTING STORM MANHOLE
 - DENOTES PROPOSED STORM MANHOLE
 - DENOTES EXISTING CATCHBASIN MANHOLE
 - DENOTES PROPOSED CATCHBASIN
 - DENOTES EXISTING CATCHBASIN
 - DENOTES PROPOSED CATCHBASIN
 - DENOTES EXISTING STORMCEPTOR
 - DENOTES PROPOSED STORMCEPTOR
 - DENOTES EXISTING SANITARY MANHOLE
 - DENOTES PROPOSED SANITARY MANHOLE
 - DENOTES EXISTING HYDRANT
 - DENOTES PROPOSED HYDRANT
 - DENOTES EXISTING WATER VALVE & BOX
 - DENOTES PROPOSED WATER VALVE & BOX
 - DENOTES EXISTING PIV
 - DENOTES PROPOSED PIV
 - DENOTES EXISTING WATER VALVE & BOX
 - DENOTES PROPOSED WATER VALVE & BOX
 - DENOTES EXISTING WATER METER
 - DENOTES PROPOSED WATER METER
 - DENOTES EXISTING SIAMESE CONNECTION
 - DENOTES PROPOSED SIAMESE CONNECTION
 - DENOTES EXISTING SPOT ELEVATION
 - DENOTES PROPOSED SPOT ELEVATION
 - DENOTES EXISTING EDGE OF PAVEMENT ELEVATION
 - DENOTES PROPOSED EDGE OF PAVEMENT ELEVATION
 - DENOTES EXISTING GUTTER LINE ELEVATION
 - DENOTES PROPOSED GUTTER LINE ELEVATION
 - DENOTES EXISTING TOP OF CURB ELEVATION
 - DENOTES PROPOSED TOP OF CURB ELEVATION
 - DENOTES EXISTING TOP OF WALL ELEVATION
 - DENOTES PROPOSED TOP OF WALL ELEVATION
 - DENOTES EXISTING BOTTOM OF WALL ELEVATION
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 - DENOTES EXISTING PROPOSED LIMIT OF CONSTRUCTION
 - DENOTES PROPOSED LIMIT OF CONSTRUCTION
 - DENOTES EXISTING PROPOSED HEAVY DUTY ASPHALT AREA
 - DENOTES PROPOSED HEAVY DUTY ASPHALT AREA



KEY PLAN
Scale: 1:1.5

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NO.	REVISIONS	DATE	BY
2.	ISSUED FOR SPA	JULY 15/22	M.E.H.
1.	ISSUED FOR REVIEW & COORDINATION	JUNE 22/22	M.E.H.

SCALE(S):
0 15 30 45 60 75
1:750

DRAWING TITLE:
SITE GRADING PLAN (NORTH EAST)

PROJECT:
PROPOSED INDUSTRIAL DEVELOPMENT
TULLAMORE LANDS
CALEDON, ONTARIO

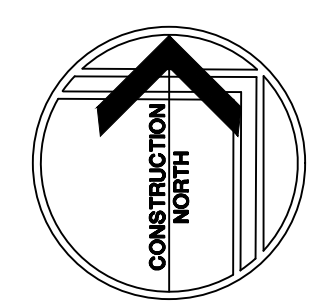
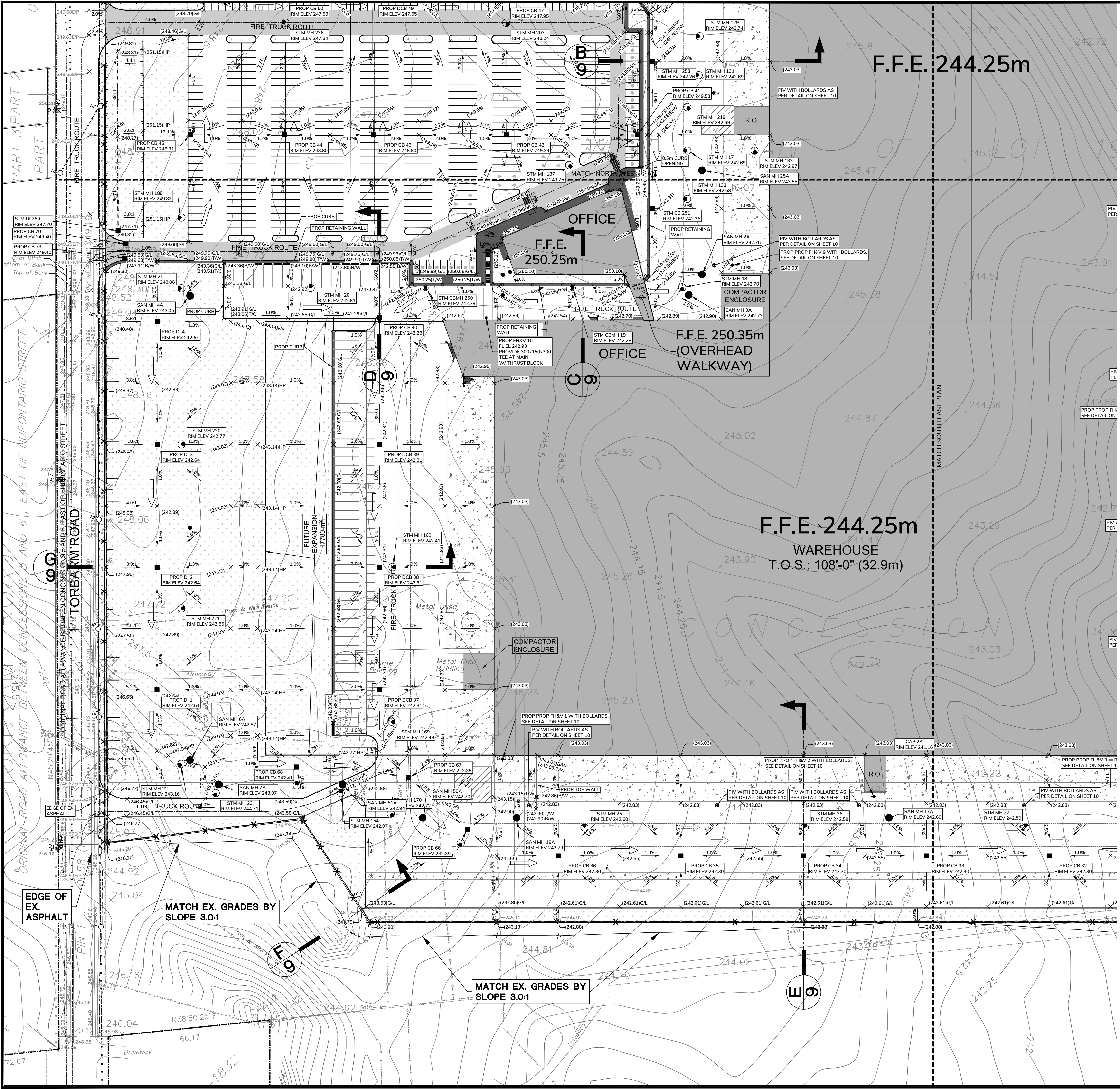
CLIENT:
TULLAMORE LANDS



The Odan/Detech Group Inc. P. (905) 632-3811 F. (905) 632-3363
5230 SOUTH SERVICE ROAD, BURLINGTON, ONTARIO, L7L 5K2

DESIGNED BY: M.H.H.	PROJECT No: 21264
DRAWN BY: Z.Z.	DATE:
CHECKED BY: J.K.	SEP 2021
APPROVED BY: J.K.	DRAWING No.: 6 of 13

REGISTERED PROFESSIONAL ENGINEER
JULY 15/22
I. KRPAN
PROVINCE OF ONTARIO
ENGINEER



F.F.E. 244.25m

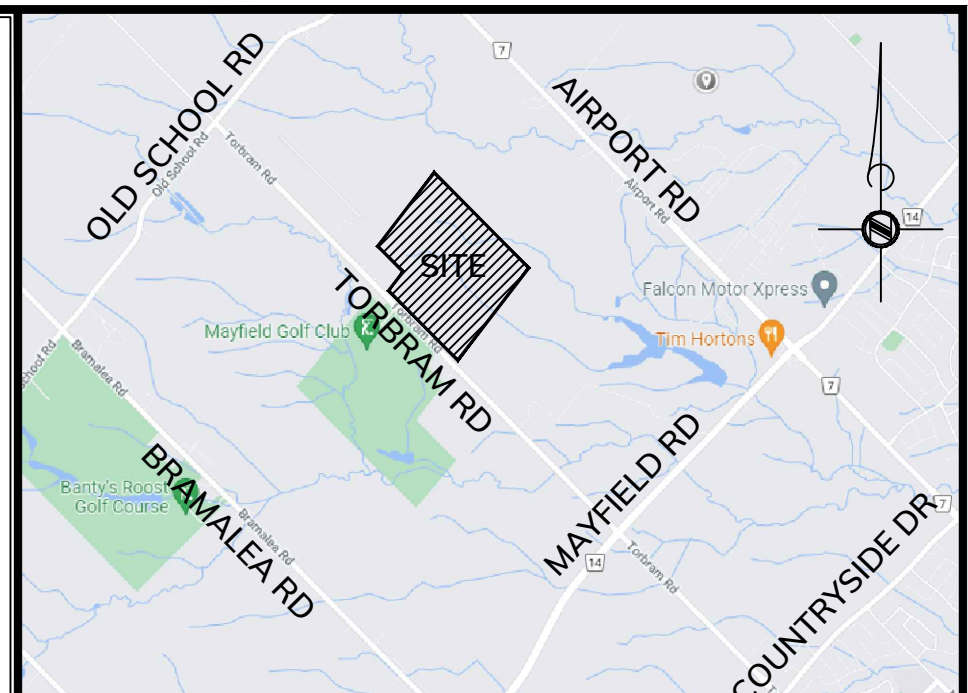
OFFICE
F.F.E. 250.25m

OFFICE
F.F.E. 250.35m
(OVERHEAD WALKWAY)

F.F.E. 244.25m
WAREHOUSE
T.O.S.: 108'-0" (32.9m)

GRADING LEGEND:

- DENOTES EXISTING STORM MANHOLE
- DENOTES PROPOSED STORM MANHOLE
- DENOTES PROPOSED CATCHBASIN MANHOLE
- DENOTES EXISTING CATCHBASIN
- DENOTES PROPOSED CATCHBASIN
- DENOTES PROPOSED STORMCEPTOR
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- DENOTES PROPOSED SANITARY MANHOLE
- DENOTES PROPOSED HYDRANT
- DENOTES EXISTING HYDRANT
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- DENOTES POST INDICATOR VALVE
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- DENOTES PROPOSED LIMIT OF CONSTRUCTION
- DENOTES PROPOSED HEAVY DUTY ASPHALT AREA



KEY PLAN
Scale: 1:11.5

SUBJECT LANDS

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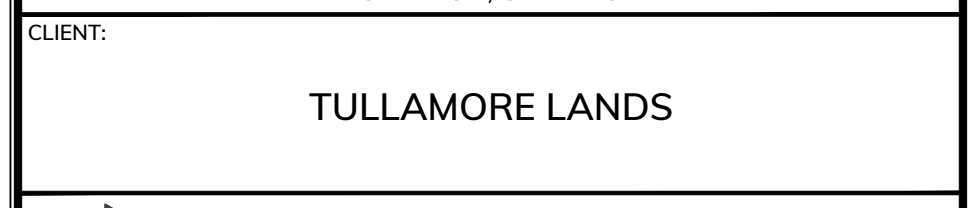
NO.	REVISIONS	DATE	BY
2.	ISSUED FOR SPA	JULY 15/22	M.E.H.
1.	ISSUED FOR REVIEW & COORDINATION	JUNE 22/22	M.E.H.



DRAWING TITLE:
**SITE GRADING PLAN
(SOUTH WEST)**

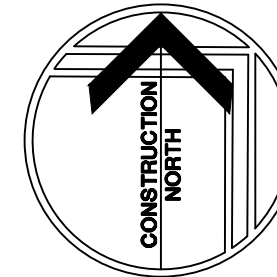
PROJECT:
**PROPOSED INDUSTRIAL DEVELOPMENT
TULLAMORE LANDS
CALEDON, ONTARIO**

CLIENT:
TULLAMORE LANDS



The Odan/Detech Group Inc. P. (905) 632-3811 F. (905) 632-3363
5230 SOUTH SERVICE ROAD, BURLINGTON, ONTARIO, L7L 5K2

	DESIGNED BY:	M.H.H.	PROJECT No:	21264
	DRAWN BY:	Z.Z.	DATE:	
	CHECKED BY:	J.K.		SEP 2021
	APPROVED BY:	J.K.		DRAWING No.: 7 of 13



F.F.E. 244.25m

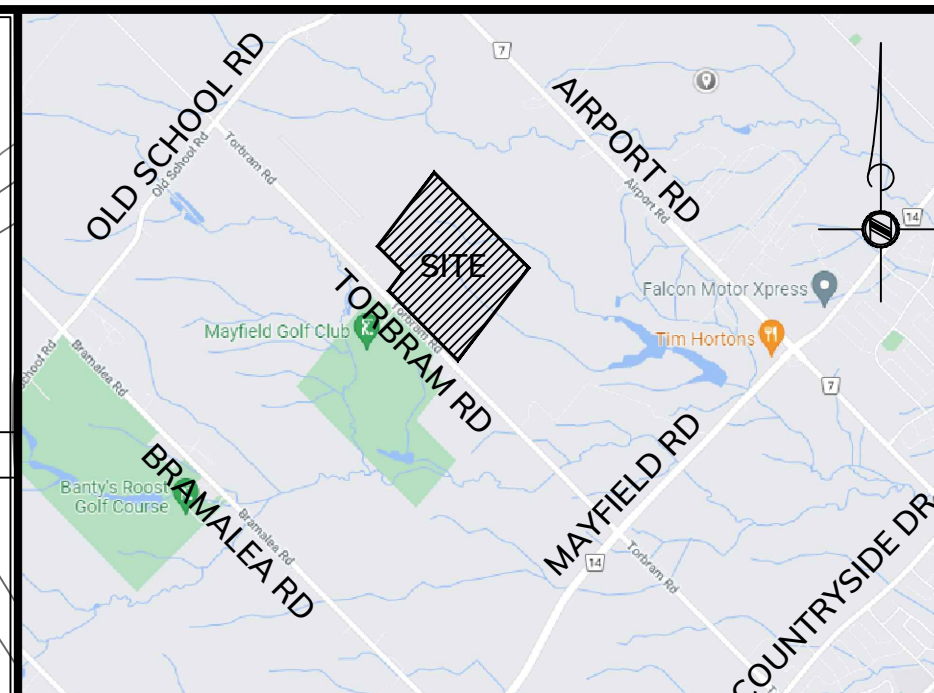
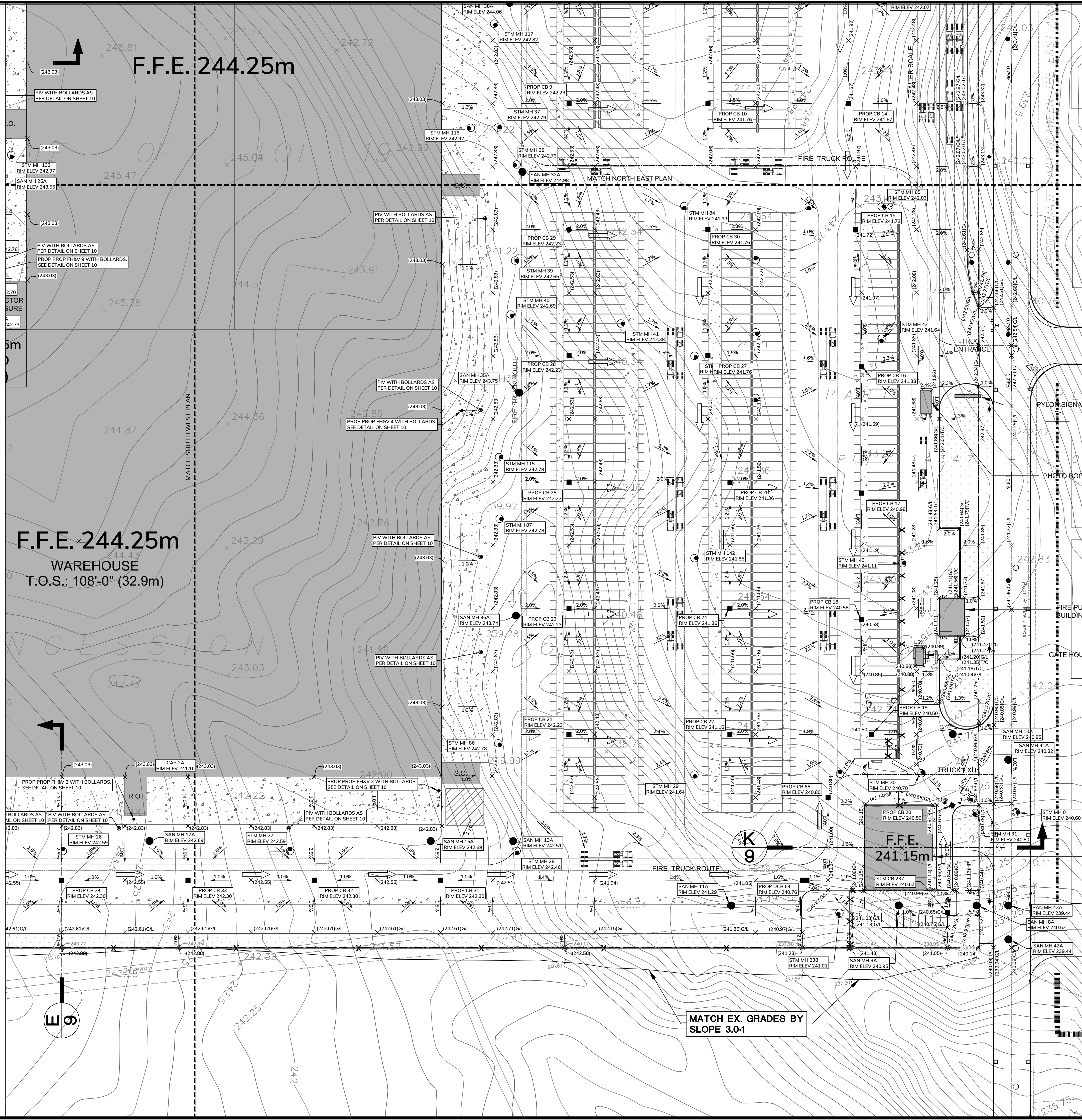
F.F.E. 244.25m
WAREHOUSE
T.O.S.: 108'-0" (32.9m)

F.F.E. 241.15m

MATCH EX. GRADES BY
SLOPE 3.0:1

GRADING LEGEND:

	DENOTES EXISTING STORM MANHOLE
	DENOTES PROPOSED STORM MANHOLE
	DENOTES PROPOSED CATCHBASIN MANHOLE
	DENOTES EXISTING CATCHBASIN
	DENOTES PROPOSED CATCHBASIN
	DENOTES PROPOSED STORMCEPTOR
	DENOTES EXISTING SANITARY MANHOLE
	DENOTES PROPOSED SANITARY MANHOLE
	DENOTES PROPOSED HYDRANT
	DENOTES EXISTING HYDRANT
	DENOTES PROPOSED WATER VALVE & BOX
	DENOTES POST INDICATOR VALVE
	DENOTES EXISTING WATER VALVE & BOX
	DENOTES PROPOSED WATER METER
	DENOTES PROPOSED SIAMSE CONNECTION
	DENOTES EXISTING SPOT ELEVATION
	DENOTES EXISTING EDGE OF PAVEMENT ELEVATION
	DENOTES PROPOSED ELEVATION
	DENOTES PROPOSED GUTTER LINE ELEVATION
	DENOTES PROPOSED TOP OF CURB ELEVATION
	DENOTES PROPOSED TOP OF WALL ELEVATION
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	DENOTES PROPOSED FLOW ARROW
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	DENOTES PROPOSED ENTRANCE LOCATION
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	DENOTES PROPOSED BOTTOM OF SWALE
	DENOTES PROPOSED LIMIT OF CONSTRUCTION
	DENOTES PROPOSED HEAVY DUTY ASPHALT AREA



KEY PLAN
Scale: 1:1.5

SUBJECT LANDS

NOTES:

THE POSITION OF POLE LINES, CONDUITS, WATERMANS, SEWERS AND UNDERGROUND AND ABOVE GROUND UTILITIES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING THE WORK THE CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

THE CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS ON THE JOB AND REPORT ANY DISCREPANCY TO THE ARCHITECTS/ENGINEERS BEFORE PROCEEDING WITH THE WORKS.

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THE APPROVAL OF THIS PLAN DOES NOT EXEMPT THE OWNER'S CONTRACTOR FROM OBTAINING, BUT NOT LIMITED TO THE FOLLOWING PERMITS: ROAD CUT, SEWER PERMITS, RELOCATION OF SERVICES, ENCROACHMENT AGREEMENTS, APPROACH APPROVAL PERMITS, ETC..

EXISTING TOPOGRAPHICAL INFORMATION SUPPLIED BY YOUNG & YOUNG SURVEYING INC.

BENCH MARK:

1) ELEVATIONS HEREON ARE GEODETIC IN ORIGIN AND WERE DERIVED FROM GPS OBSERVATIONS USING THE "TOPNET" GPS NETWORK AND ARE REFERRED TO THE CGVD-1928: 1978 DATUM.

2) ELEVATIONS HEREON ARE GEODETIC IN ORIGIN AND WERE DERIVED FROM CITY OF BRAMPTON MONUMENT NO. 04220365 (NAD83 ADJUSTMENT) HAVING A PUBLISHED ELEVATION OF 242.135 m.

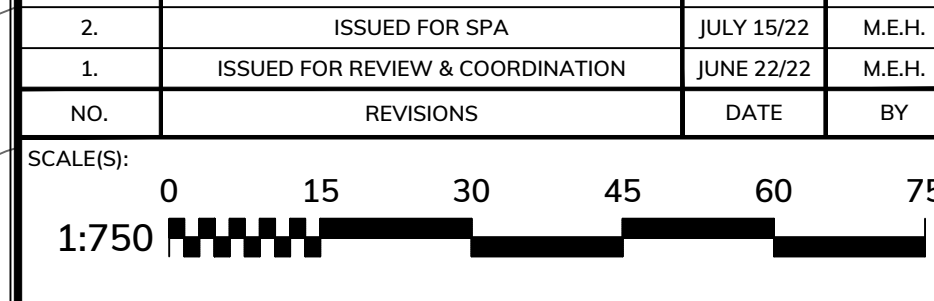
LOCATED 72.60M SOUTH OF CENTRELINE OF MAYFIELD ROAD AND 19.81M EAST OF CENTRELINE OF TORBRAM ROAD.

SITE BENCHMARK:
A CUT CROSS HAVING ELEVATION 242.51 m WAS SET ON THE NORTHEAST CORNER OF THE INTERSECTION BETWEEN MAYFIELD ROAD AND TORBRAM ROAD.

BEARING NOTE:
BEARINGS ARE UTM GRID, DERIVED FROM GPS OBSERVATION USING THE "TOPNET" GPS NETWORK OBSERVATIONS, UTM ZONE 17, NAD83 (CSRS) (1997.0).

METRIC NOTE:
DISTANCES AND ELEVATIONS ON THIS PLAN ARE TYPICALLY SHOWN IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048.

2.	ISSUED FOR SPA	JULY 15/22	M.E.H.
1.	ISSUED FOR REVIEW & COORDINATION	JUNE 22/22	M.E.H.
NO.	REVISIONS	DATE	BY



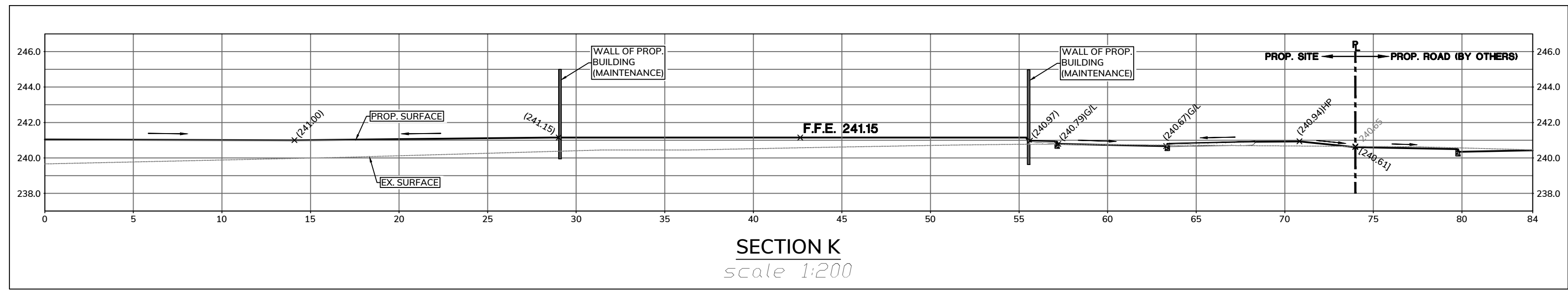
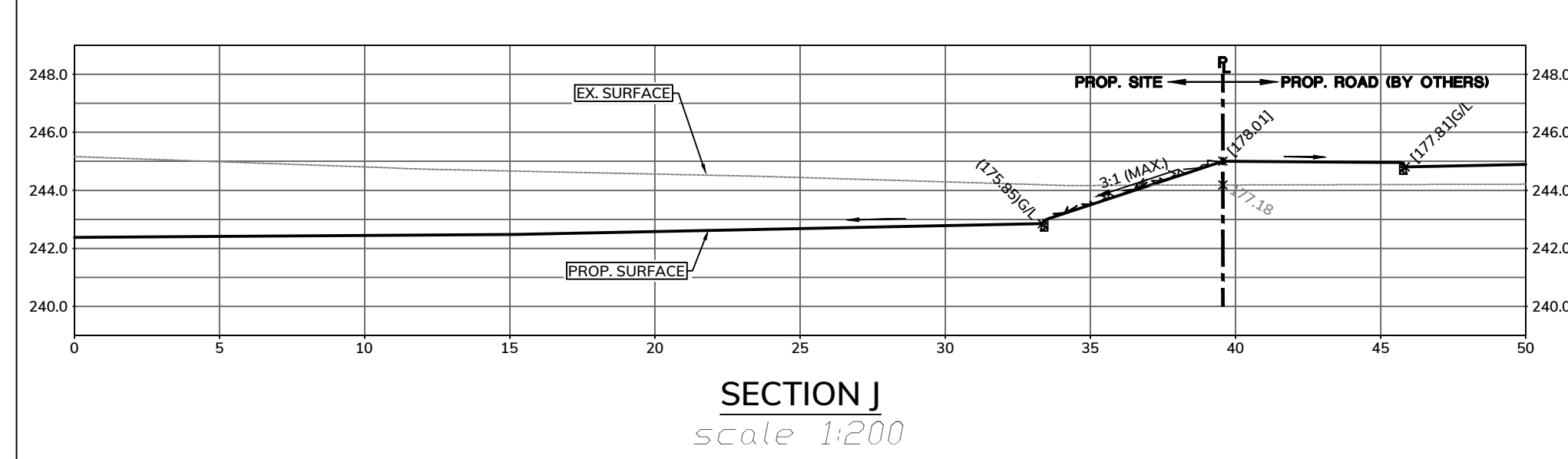
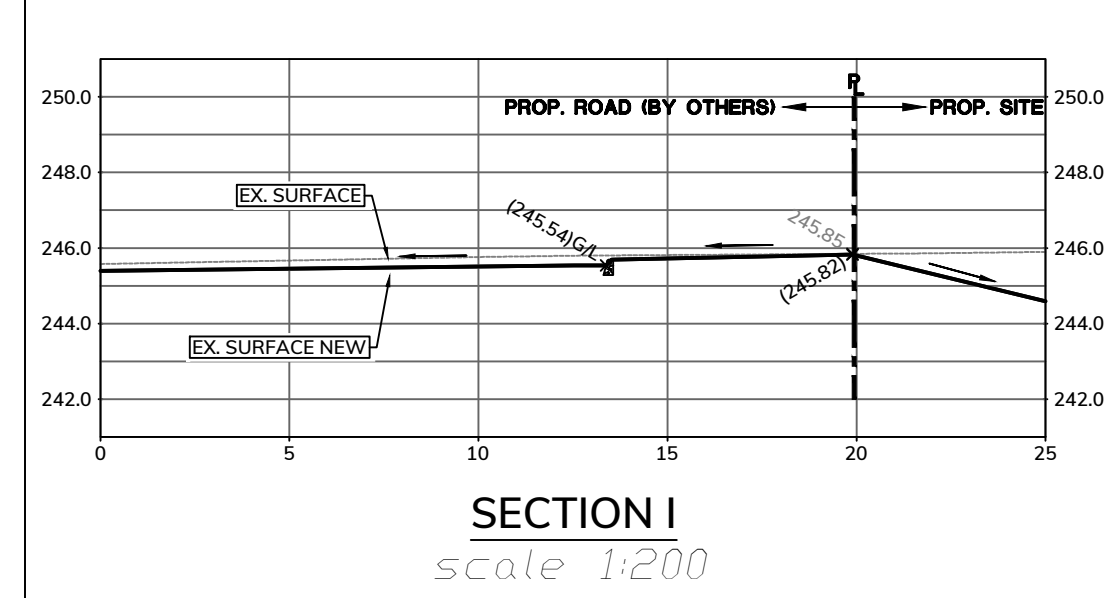
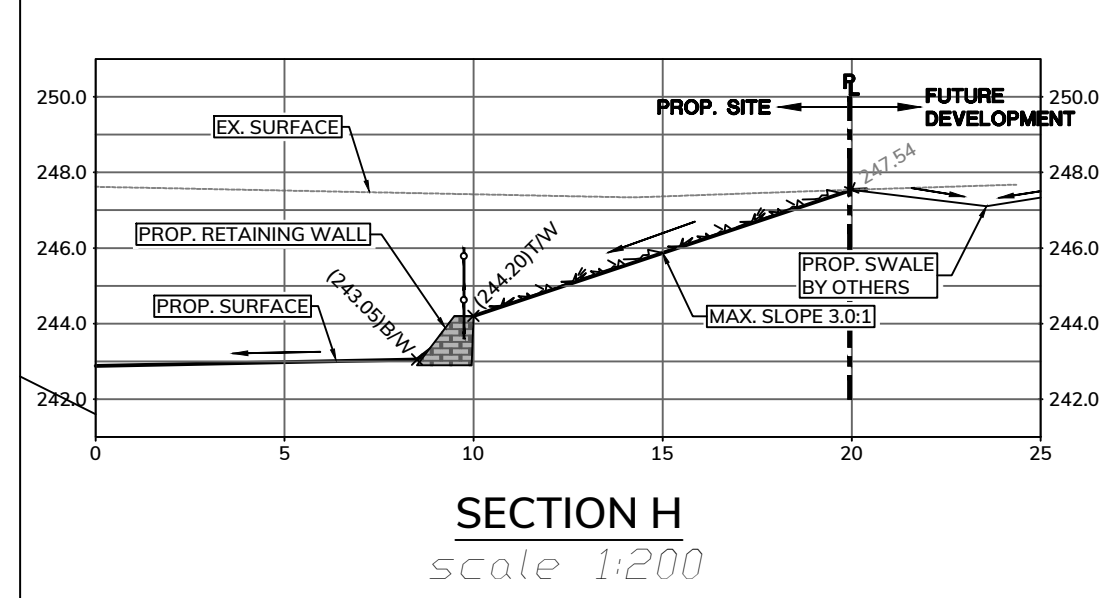
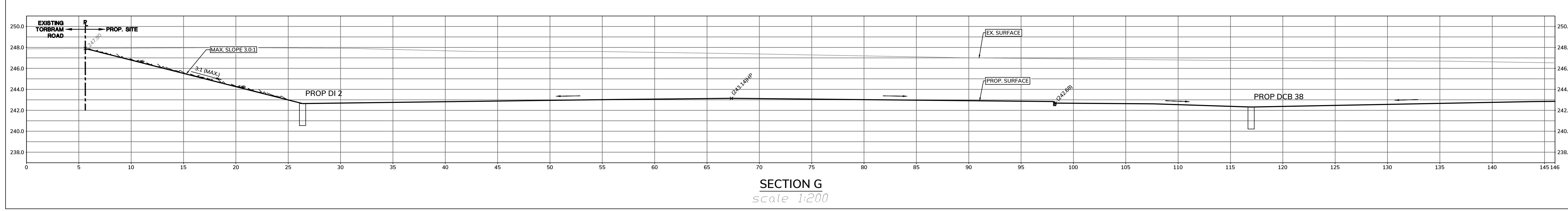
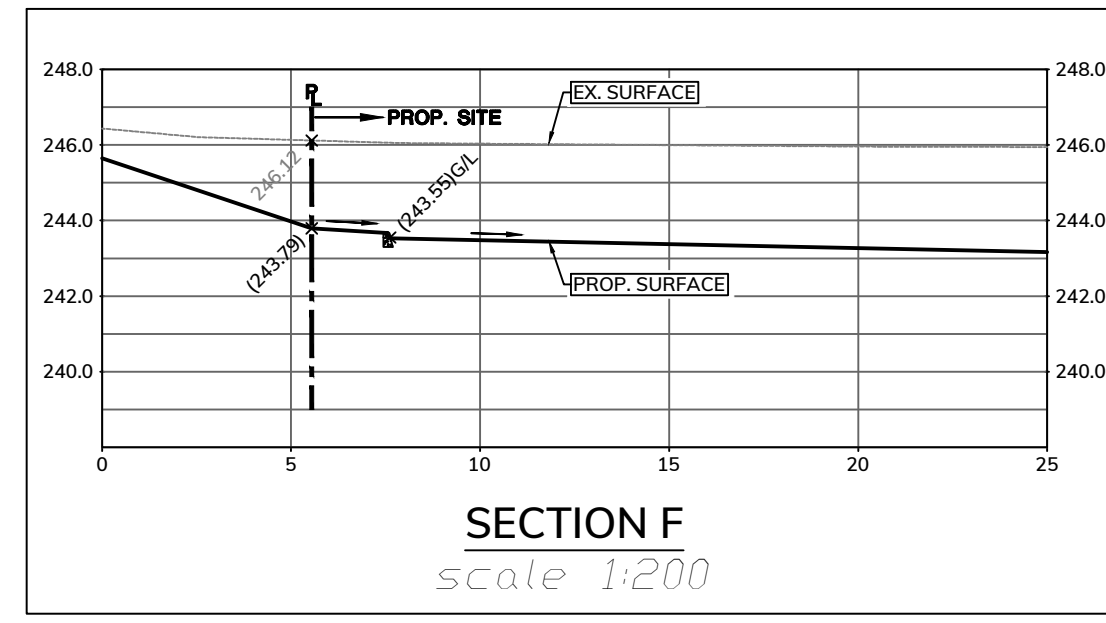
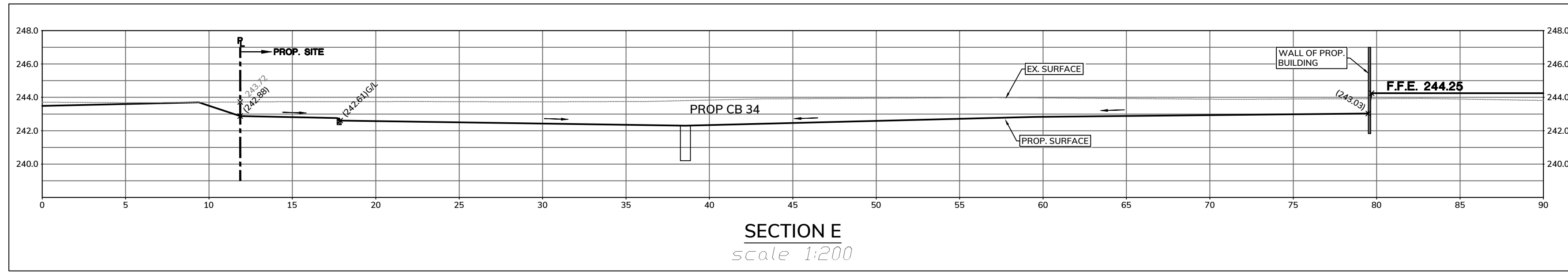
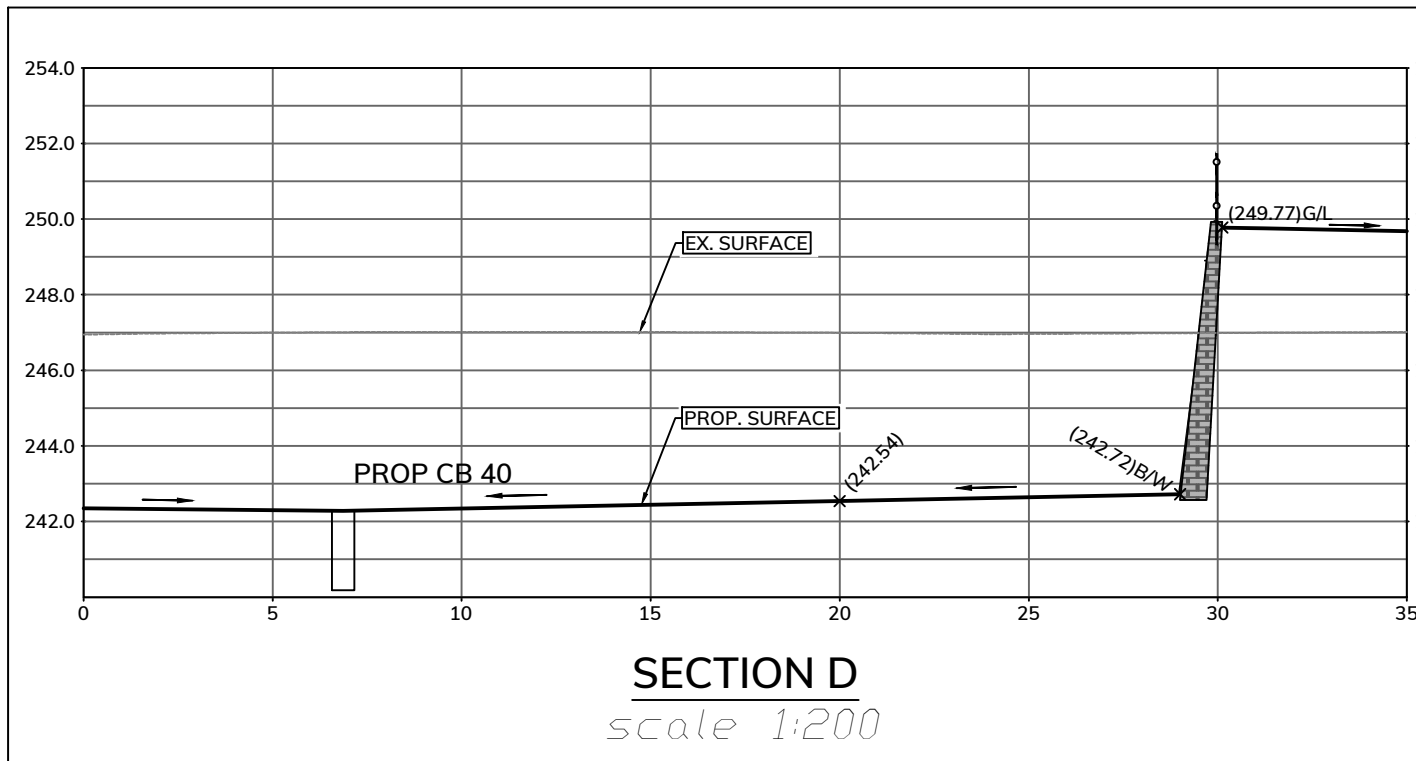
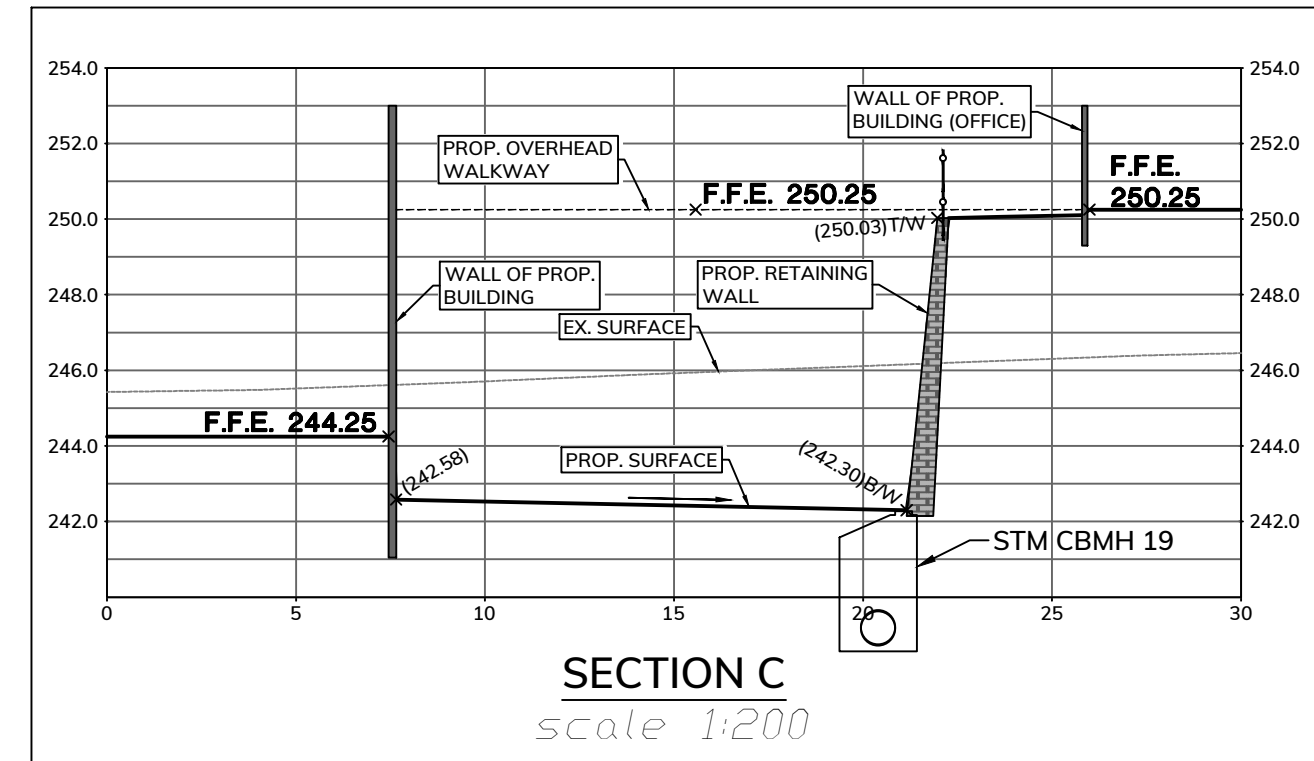
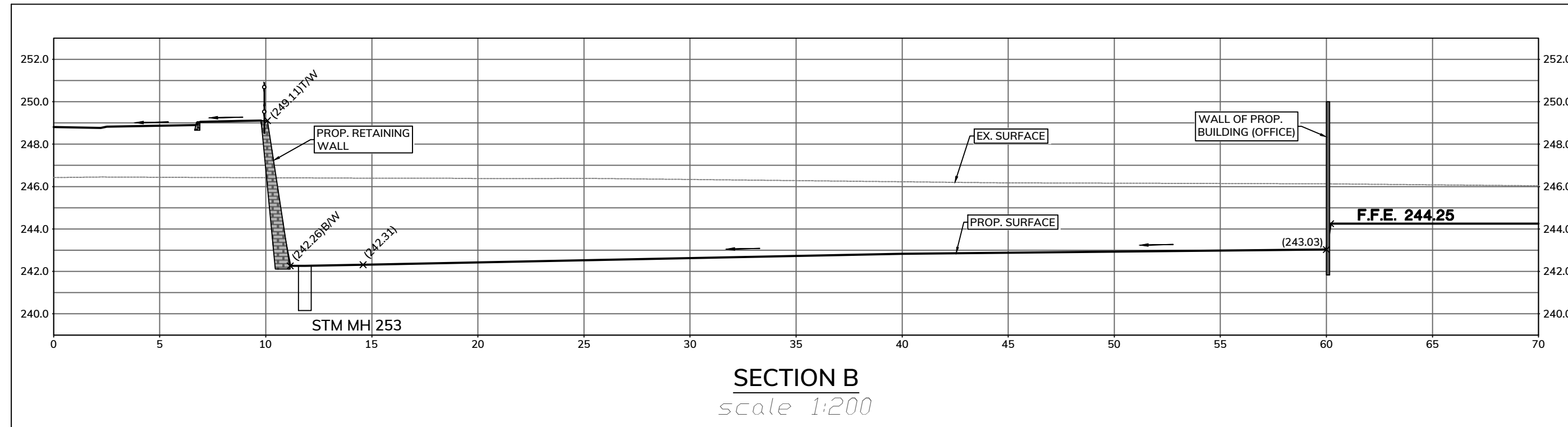
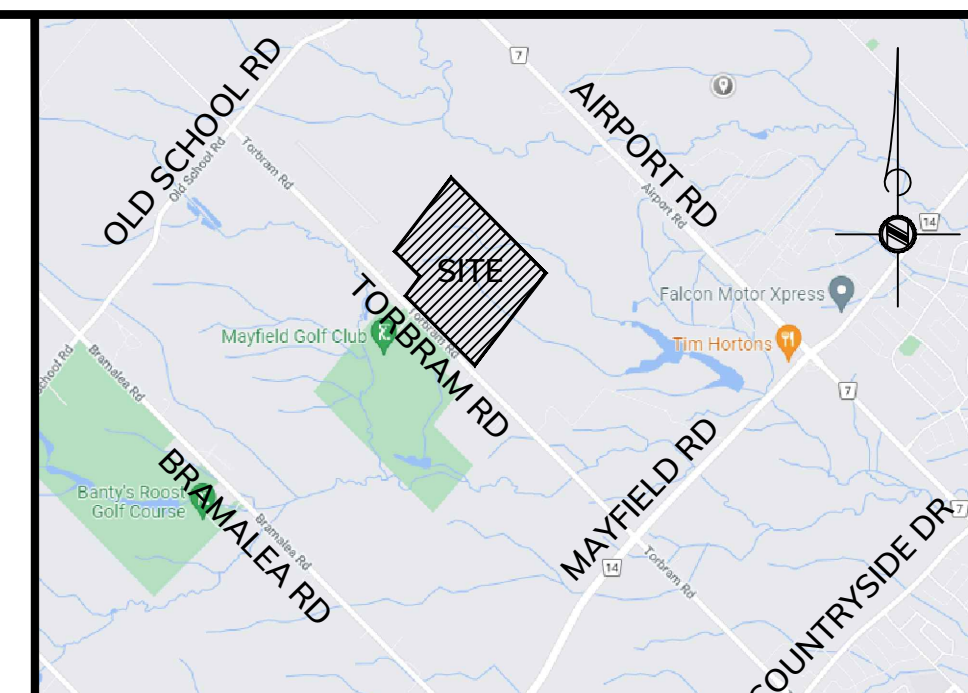
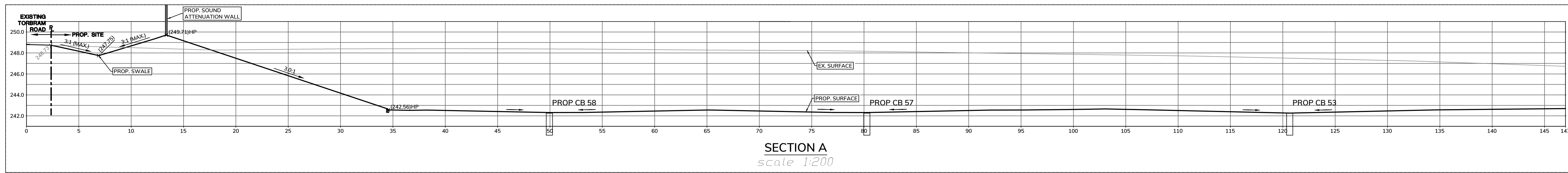
DRAWING TITLE:
**SITE GRADING PLAN
(SOUTH EAST)**

PROJECT:
**PROPOSED INDUSTRIAL DEVELOPMENT
TULLAMORE LANDS
CALEDON, ONTARIO**

CLIENT:
TULLAMORE LANDS



	DESIGNED BY:	M.H.H.	PROJECT No:
	DRAWN BY:	Z.Z.	21264
	CHECKED BY:	J.K.	DATE:
	APPROVED BY:	J.K.	SEP 2021
ENGINEER			DRAWING No.: 8 of 13



NOTES:
THE POSITION OF POLE LINES, CONDUITS, WATERMAINS, SEWERS AND UNDERGROUND AND ABOVE GROUND UTILITIES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED BEFORE STARTING THE WORK. THE CONTRACTOR SHALL CONFIRM OF THE EXACT LOCATION OF ALL UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

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SITE BENCHMARK:
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NO.	REVISIONS	DATE	BY
2.	ISSUED FOR SPA	JULY 15/22	M.E.H.
1.	ISSUED FOR REVIEW & COORDINATION	JUNE 22/22	M.E.H.

SCALE(S): 0 4 8 12 16 20
1:200

DRAWING TITLE:
SECTIONS

PROJECT:
PROPOSED INDUSTRIAL DEVELOPMENT
TULLAMORE LANDS
CALEDON, ONTARIO

CLIENT:
TULLAMORE LANDS

ODAN-DETECH CONSULTING ENGINEERS

The OdanDetch Group Inc. P: (905) 632-3811 F: (905) 632-3363
5230 SOUTH SERVICE ROAD, BURLINGTON, ONTARIO, L7L 5K2

DESIGNED BY: M.H.H.	PROJECT No: 21264
DRAWN BY: Z.Z.	DATE: SEP 2021
CHECKED BY: J.K.	DRAWING No.:
APPROVED BY: J.K.	9 of 13

REGISTERED PROFESSIONAL ENGINEER
I. KRPAN
JULY 15/22
PROVINCE OF ONTARIO

ENGINEER

GENERAL SERVICING NOTES

STORM SEWERS

- ALL STORM SEWERS 375mm# AND SMALLER TO BE PVC SDR 35 IN ACCORDANCE WITH CSA-B182.2, ASTM D-2779 AND ASTM D-3034 OR LATEST REVISIONS. 450mm# AND LARGER TO BE CONCRETE IN ACCORDANCE WITH CSA A297.2, CLASS 1000 OR LATEST REVISIONS, UNLESS OTHERWISE NOTED. ROOF TOP STORM LEADS 150mm# AND SMALLER TO BE PVC SDR 28.
- ALL 300mm# CONCRETE PIPE TO BE NON REINFORCED CONCRETE PIPE CLASS 3 (EXTRA STRENGTH) AS PER ASTM C14 AND CSA 257.1, WHERE REQUIRED.
- ULTRA RIBBED PVC PIPE SHALL NOT BE USED, UNLESS OTHERWISE DIRECTED BY THIS ENGINEER.
- ALL CATCH BASIN LEADS TO BE A MINIMUM OF 300mm# PVC SDR 35 IN ACCORDANCE WITH CSA-B182.2, ASTM D-2779 AND ASTM D-3034 OR LATEST REVISIONS, UNLESS OTHERWISE NOTED.
- BEDDING AND COVER FOR PVC SEWERS (FLEXIBLE PIPE) AS PER OPSD 802.010, GRANULAR "A" COMPACTED TO 100% SPD.
- BEDDING AND COVER FOR CONCRETE SEWERS (RIGID PIPE) AS PER OPSD 802.030, CLASS B, GRANULAR "A", COMPACTED TO 100% SPD.
- ALL STORM SERVICES TO BUILDINGS SHALL BE AT A MINIMUM SLOPE OF 1.0%
- THE CONTRACTOR IS TO CAP ALL STORM SERVICES 1.5 METRES AWAY FROM THE PROPOSED BUILDING LINES UNLESS OTHERWISE NOTED.
- CULVERT THICKNESS SHALL BE 2.0mm MINIMUM WITH LENGTHS IN STANDARD INCREMENTS OF 3, 6, AND 7m.
- STORM MANHOLES SHALL BE AS PER OPSD-701.010, 701.011, 701.012, 701.014, 701.015, BENCHING TO SPRINGLINE OF PIPE AS PER OPSD-701.021. FRAME & COVER AS PER OPSD-401.01.
- ALL CATCH BASIN MANHOLES AS PER OPSD 701.010. FRAME AND GRATE AS PER OPSD 400.02.
- ALL MANHOLE AND CATCH BASIN ADJUSTMENTS SHALL BE AS PER OPSD-704.010. MAXIMUM OF THREE (3) UNITS AND 300mm HIGH, WHERE EXCEED CAST-IN-PLACE OR PRE-CAST RISER SECTIONS SHALL BE PROVIDED.
- ALL SAFETY GRATES AS PER OPSD 404.020 FOR MANHOLES > 5.0m DEPTH.
- EXISTING STORM MANHOLE(S) TO BE RE-BENCHED AS REQUIRED, AS PER OPSD-701.021.
- ALL CATCH BASINS SHALL BE INSTALLED IN ACCORDANCE WITH OPSD 705.010, INCLUDE GOSS TRAP IF REQUIRED BY TOWN. ALL CATCH BASIN FRAMES AND COVERS AS PER OPSD 400.02.
- ALL DOUBLE CATCH BASINS SHALL BE INSTALLED IN ACCORDANCE WITH OPSD-705.020, INCLUDE GOSS TRAP IF REQUIRED BY TOWN. ALL CATCH BASIN FRAMES AND COVERS AS PER OPSD 400.02.
- ALL DITCH INLET CATCH BASINS SHALL BE AS PER OPSD-705.030, WITH RIP-RAP TREATMENT AS PER OPSD-810.02, TYPE "B" WITH GEOTEXTILE (MIRAF P-150).
- ALL CATCH BASIN CONNECTIONS SHALL BE AS PER OPSD-708.01 (RIGID PIPE) AND OPSD-708.03 (FLEXIBLE PIPE).
- ALL CATCH BASINS CONSTRUCTED IN FILL AREAS TO BE SUPPORTED IN 14 MPa. CONCRETE.
- AT ALL CATCH BASIN & CATCH BASIN MANHOLE SAG POINTS INCLUDE FOUR (4) 10.0m LONG, 100mm# PVC SUBDRAINS WITH FILTER CLOTH. CAP ONE END AND CONNECT THE OTHER TO THE CATCH BASIN OR CATCH BASIN MANHOLE.
- ALL SEWER SERVICE CONNECTIONS FOR RIGID PIPE SHALL BE AS PER OPSD-1006.01.
- ALL SEWER SERVICE CONNECTIONS FOR FLEXIBLE PIPE SHALL BE AS PER OPSD-1006.02.
- ALL CONCRETE OUTLETS AS PER OPSD 605.04 WITH ASPHALT SPILLWAY AND RIP-RAP.
- ALL RIP-RAP TREATMENT FOR SEWER AND CULVERT OUTLETS SHALL BE AS PER OPSD-810.01, TYPE "B" WITH GEOTEXTILE (MIRAF P-150).
- ALL PAVEMENT REINSTATEMENT SHALL BE AS PER OPSD-509.010, FOR UTILITY CUTS, BACKFILL AS PER TOWN STD.
- ALL TESTING OF STORM SERVICES TO BE IN ACCORDANCE WITH ONTARIO PROVINCIAL STANDARD SPECIFICATIONS.
- CONTRACTOR SHALL PROVIDE COLOUR VIDEO & REPORT OF STORM SEWER UPON COMPLETION TO THE ENGINEER. CONTRACTOR SHALL PROVIDE 1 COLOUR VIDEO & REPORT PRIOR TO PAVING. CONTRACTOR SHALL PROVIDE 1 COLOUR VIDEO & REPORT UPON COMPLETION OF FINAL PAVING & LANDSCAPING.
- INSULATION SHALL BE PROVIDED ON ALL SEWER(S) WITH LESS THAN 1.22m COVER
- HEADWALLS SHALL BE AS PER OPSD 804.040, INCLUDE RAILING AS PER OPSD 980.101 AND GRATE AS PER OPSD 804.050

SANITARY

- ALL SANITARY SERVICES AS PER REGION STANDARDS.
- ALL SANITARY SEWERS 200mm# AND GREATER ARE TO BE PVC-SDR 35 (PVC-SDR 28 WITHIN RIGHT-OF-WAY) IN ACCORDANCE WITH CSA-B182.2, CSA-B182.4, ASTM D-3034 AND ASTM F-794 OR LATEST REVISIONS.
- ALL SANITARY SEWERS 150mm# AND LESS ARE TO BE PVC-SDR 28 IN ACCORDANCE WITH CSA-B182.2, ASTM D-2779 AND ASTM D-3034 OR LATEST REVISIONS.
- BEDDING AND COVER FOR PVC SANITARY SEWERS AS PER STD. DWG. 2-3-1.
- THE CONTRACTOR IS TO CAP ALL SANITARY SERVICES 2.0 METRES AWAY FROM THE PROPOSED BUILDING LINES UNLESS OTHERWISE NOTED.
- ALL SANITARY SERVICES TO BUILDINGS SHALL BE AT A MINIMUM SLOPE OF 1.0% AND MAXIMUM SLOPE OF 8.0%.
- SANITARY MANHOLES SHALL BE AS PER STD. DWG. 2-5-3, 2-5-4 AND 2-5-5 AS SPECIFIED, BENCHING TO SPRINGLINE OF PIPE AS PER STD. DWG. 2-6-20. FRAME & COVER AS PER STD. DWG. 2-6-1.
- ALL SAFETY PLATFORM AS PER STD. DWG. 2-6-15 MANHOLES > 5.0m DEPTH.
- ALL MANHOLE DROP STRUCTURES SHALL BE AS PER STD. DWG. 2-5-26 (EXT) AND 2-2-27 (INT) AS SPECIFIED.
- ALL MANHOLE ADJUSTMENTS SHALL BE AS PER OPSD-704.010. MAXIMUM OF THREE (3) UNITS AND 300mm HIGH, WHERE EXCEED CAST-IN-PLACE OR PRE-CAST RISER SECTIONS SHALL BE PROVIDED.
- PROVIDE WATER TIGHT COVERS FOR SANITARY MANHOLES LOCATED IN PONDING AREAS.
- ALL SERVICE CONNECTIONS FOR FLEXIBLE PIPE SHALL BE AS PER STD. DWG. 2-5-15.
- ALL TRENCH RESTORATION FOR OPEN CUT UTILITY INSTALLATION UNDER ROADWAYS AS PER STANDARD 2203.03.
- ALL TESTING OF SANITARY SERVICES TO BE IN ACCORDANCE WITH ONTARIO PROVINCIAL STANDARD SPECIFICATIONS.
- CONTRACTOR SHALL PROVIDE COLOUR VIDEO & REPORT OF SANITARY SEWER UPON COMPLETION TO THE ENGINEER. CONTRACTOR SHALL PROVIDE 1 COLOUR VIDEO & REPORT PRIOR TO PAVING. CONTRACTOR SHALL PROVIDE 1 COLOUR VIDEO & REPORT UPON COMPLETION OF FINAL PAVING & LANDSCAPING.
- CONTRACTOR SHALL PROVIDE INSULATION FOR SANITARY SEWERS WITH LESS THAN 1.7m OF COVER.
- ALL FITTINGS SHALL BE AS PER ASTM D-3034 AND JOINTS SHALL BE BELL AND SPIGOT WITH RUBBER GASKET.

WATER

- ALL WATER SERVICE AS PER REGION STANDARDS.
- WATERMAIN PIPE TO BE PVC-SDR 18 CL 150 OF PVC-SDR 14 CL 200 (AS NOTED) CONFORMING TO AWWA SPECIFICATIONS C 900-75, INCLUDING NO. 8 TRACER WIRE BETWEEN HYDRANTS OR OTHER CONDUCTING APPURTENANCES. PIPE SHALL HAVE A MINIMUM COVER OF 1.7m. ALL WATER MAIN JOINTS TO BE APPROVED PUSH-ON, MECHANICAL OR FLANGE TYPE JOINTS AS REQUIRED FOR PIPE CLASS RATED PRESSURE. CORROSION PROTECTION FOR ALL FITTINGS, VALVES AND HYDRANTS (HYPROTEC OR EQUAL).
- ALL DOMESTIC WATER SERVICES SHALL BE TYPE "K" SOFT COPPER AND INSTALLED AS PER STD. DWG. 1-7-1, 1.9mm, 25mm, 40mm AND 50mm WATER SERVICES TO CONFORM TO SECTION 1- WATERMAIN, PAGE 12 - 19 AS PER DOCUMENTS.
- BEDDING AND COVER AS PER STD. DWG. 1-5-1.
- ALL WATER MAIN FITTINGS AND APPURTENANCES TO BE SELECTED FROM REGION APPROVED MATERIAL LIST FOR WATER.
- WATER MAINS SHALL HAVE A MINIMUM VERTICAL SEPARATION OF 0.50m BELOW AND 0.30m ABOVE AND A HORIZONTAL SEPARATION OF 2.5m BETWEEN ANY SEWER OR MANHOLE.
- CONTRACTOR TO PROVIDE A MINIMUM COVER OF 1.7m FOR ALL PROPOSED WATERMANS WITHIN THE PROPSD SITE. THE DUAL 750mm REGIONAL WATER MAINS SHALL HAVE A MINIMUM OF 2.0m OF COVER.
- CONTRACTOR TO CONFIRM THE SIZE AND MATERIAL TYPE OF EXISTING WATER SERVICE AND WATER MAIN PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER.
- EXISTING WATER MAIN OVERTS TO BE CONFIRMED ON SITE AT THE TIME OF CONSTRUCTION.
- WATER MAIN AND SERVICES SHALL BE CAPPED 2.0m FROM BUILDING, UNLESS OTHERWISE NOTED.
- ALL TAPPING SLEEVES TO BE STAINLESS STEEL SIMILAR TO MUELLER TYPE, COMPLETE WITH VALVE.
- ALL VALVE AND BOX ASSEMBLIES SHALL BE INSTALLED AS PER STD. DWG. 1-3-8.
- ALL HYDRANTS SHALL BE INSTALLED AS PER STD. DWG. 1-6-1 AND 1-6-2. ALL HYDRANTS SHALL CONFORM TO SECTION 1- WATERMAIN, PAGE 5 AS PER REGION DOCUMENTS.
- ALL THRUST BLOCKING SHALL BE AS PER STD. DWG. 1-5-5 (HORIZONTAL) AND STD. DWG. 1-5-4 (VERTICAL).
- FROST COLLARS ARE TO BE PROVIDED ON CURB STOPS AND VALVE BOXES WHEN LOCATED WITHIN THE LIMITS OF THE DRIVEWAY.
- ALL WATER CHAMBERS SHALL BE AS PER STD. DWG. 1-1-4, VALVING SHALL BE AS PER STD. DWG. 1-3-3 (MODIFIED 200mm), VALVING AS SPECIFIED.
- ALL WATER MAIN BLOW-OFF ASSEMBLIES SHALL BE AS PER STD. DWG. 1-7-2 AND 1-7-3.
- ALL TRENCH RESTORATION FOR OPEN CUT UTILITY INSTALLATION UNDER ROADWAYS AS PER STANDARD 2203.03.
- FLUSHING, SWABBING, AND TESTING OF WATER MAIN AS PER ONTARIO PROVINCIAL STANDARDS AND SPECIFICATIONS.

GENERAL GRADING NOTES:

- THE GRADING PLAN IS TO BE READ WITH THE SITE SERVICES DRAWING AND THE SITE PLAN. FOR BUILDING DETAILS REFER TO THE LATEST REVISION OF THE SITE PLAN AS PER THE ARCHITECT.
- CONTRACTOR TO RESTORE ALL DISTURBED AREAS (I.E. PUBLIC R.O.W., ADJACENT LANDS) WHICH HAVE BEEN DISTURBED DURING CONSTRUCTION TO PREVIOUS OR BETTER CONDITION.
- ALL DRIVEWAY AND GRADING MATERIAL AND CONSTRUCTION METHODS MUST CONFORM TO CURRENT TOWN STANDARDS AND SPECIFICATIONS.
- ALL FILL WITHIN THE SITE TO BE COMPACTED TO A MIN. OF 100% STD. PROCTOR DENSITY. THE SUITABILITY OF ALL FILL MATERIALS ARE TO BE CONFIRMED BY A RECOGNIZED SOILS CONSULTANT TO THE DIRECTOR OF ENGINEERING PRIOR TO INSTALLATION OF ANY ROAD BASE MATERIALS.
- LANDSCAPE SHALL NOT ENCRoACH ON BOULEVARD NOR SHALL BOULEVARD GRADES BE ALTERED.
- SILT FENCE(S) TO BE INSTALLED AND MAINTAINED TO PREVENT SILT FLOWING ONTO ADJACENT LANDS. SILTATION CONTROL METHODS SUCH AS ENVIRONMENTAL OR APPROVED EQUAL SHALL BE ERECTED PRIOR TO ANY GRADING OR CONSTRUCTION AND SHALL BE MAINTAINED IN GOOD REPAIR THROUGHOUT THE CONSTRUCTION AND GRADING PHASES. THE LOCATION AND ERECTION OF THE SILTATION CONTROL METHODS TO BE APPROVED BY THE TOWN. REFER TO SILT CONTROL DETAIL.
- ANY CHANGES IN GRADES OR CATCH BASINS REQUIRE THE APPROVAL OF THE ODM/DETCH GROUP INC.
- ALL SODDING OF SIDE SLOPES (DITCHES) SHALL BE AS PER OPSD-218.01.
- ALL LANDSCAPING TO BE INSTALLED AS SOON AS POSSIBLE OR PRIOR TO THE END OF THE FIRST GROWING SEASON. LANDSCAPING TO BE MAINTAINED UNTIL IT IS ESTABLISHED.
- ALL CONNECTIONS WITH PAVED PORTIONS OF EXISTING ROADS TO BE BACKFILLED WITH GRANULAR "A" MATERIAL OR LATEST TOWN SPECIFICATIONS AND COMPACTED TO 100 % SPD.
- CONSTRUCTION ACCESS SHALL BE CONSTRUCTED WITH A MIN. OF 450mm THICK CRUSHED STONE BASE FROM MUNICIPAL CURB OR EDGE OF PAVEMENT TO THE PROPERTY LINE TO THE SATISFACTION OF THE TOWN.
- ALL CURBS ARE TO BE 150mm ABOVE THE PROPOSED GUTTER LINE (G/L) UNLESS NOTED OTHERWISE.
- PAVEMENT GRADE (MIN. 0.5%, MAX. 7%).
- DRAINAGE SWALES WITH GRADES (MIN. 1%, MAX. 7%).
- SLOPES IN LANDSCAPE AREAS AND ON BERMS SHALL NOT EXCEED 3 HORIZONTAL TO 1 VERTICAL.
- THE PARKING AREAS AND DRIVEWAY HAVE BEEN DESIGNED ACCORDING TO A FROST SUSCEPTIBILITY FACTOR OF 5. THIS FACTOR IS TO BE VERIFIED BY A SOILS CONSULTANT.

CURBING/SIDEWALKS/ASPHALT

- ALL PROPOSED INTERNAL CURBING TO BE BARRIER TYPE AS PER ARCHITECT DETAIL. ALL TOPS OF CURB TO BE 150mm ABOVE PROPOSED GUTTER LINE, UNLESS OTHERWISE NOTED.
- PROPOSED CURB AND GUTTER ON TRAVELED ROADWAY AS PER CURRENT TOWN STD.
- ALL REQUIRED CURB CUTTING AT ENTRANCE AND CURB DEPRESSIONS AT SIDEWALK CROSSINGS SHALL BE INSTALLED TO THE SATISFACTION OF THE TOWN AND AS PER TOWN DRAWING
- CURB CUTS WITHIN THE PUBLIC R.O.W. TO BE PERFORMED TO THE SATISFACTION OF THE TOWN .
- ALL PROPOSED ROAD CUTS TO BE PERFORMED AND RESTORED TO THE SATISFACTION OF THE TOWN , AND IN ACCORDANCE WITH TOWN STANDARDS & SPECIFICATIONS.
- CONCRETE SIDEWALK WITHIN PUBLIC R.O.W. AS PER OPSD-310.010 AND OPSD-310.020 (ADJACENT TO CURB). ALL RAMPS SHALL BE AS PER OPSD-310.031. ALL SIDEWALKS SHALL BE 30MPa WITH 7% AIR. ALL CONCRETE SIDEWALKS TO BE MINIMUM 150mm THICK AT RESIDENTIAL DRIVEWAYS AND 200mm THICK THROUGH COMMERCIAL/INDUSTRIAL ENTRANCES HAVE 150mm GRANULAR "A" BASE, COMPACTED TO 100% SPD.
- ALL CONCRETE CURB FROM EXISTING ROAD CURB TO STREET LINE SHALL BE AS PER TOWN STD. ALL CONCRETE CURB HEIGHTS SHALL BE 150mm UNLESS OTHERWISE NOTED. DRIVEWAY CURB TO BE DISCONTINUOUS AT SIDEWALK AND TAPERED BACK 450mm MINIMUM WHERE SIDEWALK CONTINUES THROUGH THE ENTRANCE AS PER OPSD-350.010.
- APPROPRIATE CONSTRUCTION DETAILS SHOULD BE PROVIDED FOR RETAINING WALLS HIGHER THAN 1.0m. DETAILS SHALL BE DESIGNED AND SEALED BY A PROFESSIONAL ENGINEER UPON APPROVAL. HANDRAIL IS REQUIRED WHEN HEIGHT EXCEEDS 0.60m AND SHALL BE AS PER OPSD-980.101.
- ALL CONCRETE TOE WALLS SHALL BE AS PER OPSD 3120.100 TYPE 1
- ALL DEAD END BARRICADES SHALL BE AS PER OPSD-973.130.
- ALL TEMPORARY STEEL BEAM GUIDE RAILS SHALL BE AS PER OPSD-911.140
- ALL SECTIONAL PRE-CAST CONCRETE CURBING AS PER OPSD-603.020.
- PERIMETER SUBDRAINS SHOULD BE PROVIDED AROUND PARKING AREAS AND ALONG DRIVEWAYS.
- ALL CONCRETE LOADING APRONS SHALL BE AS PER STRUCTURAL DRAWINGS & DETAILS WITH THE

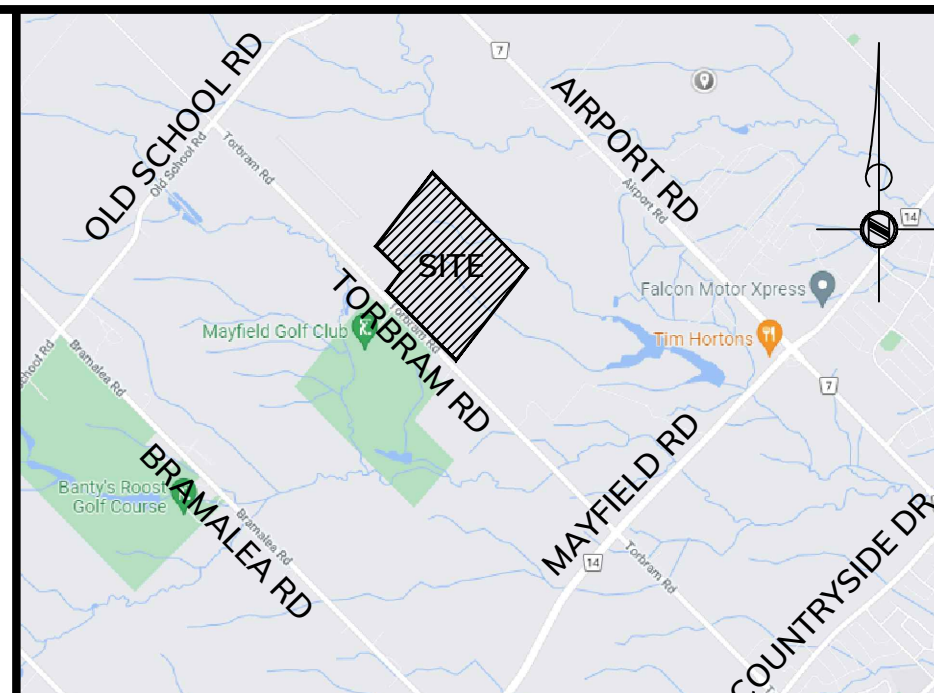
REGION OF PEEL NOTES:

- ALL MATERIALS AND CONSTRUCTION METHODS MUST CORRESPOND TO THE CURRENT PEEL PUBLIC WORKS STANDARDS AND SPECIFICATIONS
- WATERMAIN AND / OR WATER SERVICE MATERIALS 100 mm(4") AND LARGER MUST BE PVC-SDR 18 CONFORMING TO AWWA SPECIFICATIONS C 900-75. SIZE 50mm (2") AND SMALLER MUST BE TYPE "K" SOFT COPPER.
- WATERMANS AND / OR WATER SERVICES ARE TO HAVE A MINIMUM COVER OF 1.7m (5'6") WITH A MINIMUM HORIZONTAL SPACING OF 1.2m(4") FROM THEMSELVES AND ALL OTHER UTILITIES. AS PER DOCUMENTS. THE DUAL 750mm REGIONAL WATER MAINS SHALL HAVE A MINIMUM OF 2.0m OF COVER.
- PROVISIONS FOR FLUSHING WATER LINE PRIOR TO TESTING, ETC. MUST BE PROVIDED WITH AT LEAST A 50mm(2") OUTLET ON 100mm (4") AND LARGER LINES. COPPER LINES ARE TO HAVE FLUSHING POINTS AT THE END, THE SAME SIZE AS THE LINE. THEY MUST ALSO BE HOSED OR PIPED TO ALLOW THE WATER TO DRAIN onto A PARKING LOT OR DOWN A DRAIN. ON FIRE LINES FLUSHING OUTLET TO BE 100mm (4") DIAMETER MINIMUM ON A HYDRANT.
- ALL CURB STOPS TO BE 3.0m (10') OFF THE FACE OF THE BUILDING UNLESS OTHERWISE NOTED.
- HYDRANT AND VALVE SET TO REGION STANDARD 1-6-1 DIMENSION A AND B, 0.7m (2') AND 0.9m (3') AND TO HAVE A PUMPER NOZZLE.
- WATERMANS TO BE INSTALLED TO GRADES AS SHOWN ON APPROVAL SITE PLAN. COPY OF GRADE SHEET MUST BE SUPPLIED TO INSPECTOR PRIOR TO COMMENCEMENT OF WORK, WHERE REQUESTED BY INSPECTOR.
- WATERMANS MUST HAVE A MINIMUM VERTICAL CLEARANCE OF 0.3m (12") OVER / 0.5m (20") UNDER SEWERS AND ALL OTHER OTHER UTILITIES WHEN CROSSING.
- ALL PROPOSED WATER PIPING MUST BE ISOLATED FROM EXISTING LINES IN ORDER TO ALLOW INDEPENDENT PRESSURE TESTING AND CHLORINATING FROM EXISTING SYSTEMS.
- ALL LIVE TAPPING AND OPERATION OF REGION WATER VALVES SHALL BE ARRANGED THROUGH THE REGIONAL INSPECTOR ASSIGNED BY CONTACTING THE OPERATIONS AND MAINTENANCE DIVISION. REQUESTED BY INSPECTOR.
- LOCATION OF ALL EXISTING UTILITIES IN THE FIELD TO BE ESTABLISHED BY THE CONTRACTOR.
- THE CONTRACTOR(S) SHALL BE SOLELY RESPONSIBLE FOR LOCATES, EXPOSING, SUPPORTING AND PROTECTING OF ALL UNDERGROUND AND OVERHEAD UTILITIES AND STRUCTURES EXISTING AT THE TIME OF CONSTRUCTION IN THE AREA OF THEIR WORK. WHETHER SHOWN ON THE PLANS OR NOT AND FOR ALL REPAIRS AND CONSEQUENCES RESULTING FROM DAMAGE TO SAME.
- THE CONTRACTOR(S) SHALL BE SOLELY RESPONSIBLE TO GIVE 72 HOURS WRITTEN NOTICE TO THE UTILITIES PRIOR TO CROSSING SUCH UTILITIES, FOR THE PURPOSE OF INSPECTION WITH THE CONTRACTOR RESPONSIBLE FOR ALL COSTS ARISING FROM SUCH INSPECTIONS.
- ALL VALVES 300mm DIAMETER AND SMALLER SHALL BE EQUIPPED WITH VALVE BOXES AND RESTRAINED AS PER STD. DWG. 1-3-3A AND VALVE AND FITTINGS WRAPPED IN CORROSION PROTECTION TAPE.

TOWN OF CALEDON - GRADING AND DRAINAGE NOTES

THE FOLLOWING NOTES ARE TO APPEAR ON THE GRADING AND DRAINAGE PLAN:

- CONSTRUCTION FOR THIS PROJECT TO COMPLY WITH THE MOST CURRENT VERSION OF THE DEVELOPMENT STANDARDS, POLICIES AND GUIDELINES, PREPARED BY THE TOWN OF CALEDON, PUBLIC WORKS AND ENGINEERING DEPARTMENT AND THE ONTARIO PROVINCIAL STANDARDS AND SPECIFICATIONS.
- ALL PROPOSED CONSTRUCTION SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS.
- WHEN A MINIMUM OF FORTY-EIGHT HOURS PRIOR TO COMMENCING CONSTRUCTION WITHIN THE MUNICIPAL RIGHT-OF-WAY, THE CONTRACTOR MUST CONTACT THE FOLLOWING: THE TOWN OF CALEDON PUBLIC WORKS AND ENGINEERING DEPARTMENT 905.584.2272 THE REGION OF PEEL 905.701.7800 ENBRIDGE CONSUMERS GAS 905.758.7924 HYDRO ONE 519.941.1211 BELL CANADA 416.296.6929 ROGERS CABLE 905.897.3914
- ALL DRAINAGE TO BE SELF-CONTAINED AND DISCHARGED TO A LOCATION APPROVED BY THE PUBLIC WORKS AND ENGINEERING DEPARTMENT.
- SEDIMENT CONTROL DEVICES ARE TO BE INSTALLED PRIOR TO ANY CONSTRUCTION ON THE SITE AND SHALL BE INSPECTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD TO THE SATISFACTION OF THE TOWN OF CALEDON AND THE APPLICABLE CONSERVATION AUTHORITY.
- A MINIMUM OF 1.5M CLEARANCE IS TO BE PROVIDED FROM THE LIMITS OF ALL SIDEWALKS AND DRIVEWAYS TO EXISTING UTILITY STRUCTURES WITHIN THE MUNICIPAL RIGHT-OF-WAY. IF THIS CLEARANCE IS NOT MAINTAINED, THE STRUCTURES SHALL BE RELOCATED AT THE APPLICANT'S EXPENSE.
- STREET CURBS ARE TO BE CONTINUOUS WITHIN THE PROPOSED ENTRANCE.
- ANY CHANGES TO GRADES OR SERVICING FROM THE ORIGINALLY APPROVED SITE PLAN MUST BE APPROVED BY THE TOWN OF CALEDON PUBLIC WORKS AND ENGINEERING DEPARTMENT.
- STRUCTURAL DESIGN OF THE FIRE ROUTE IS REQUIRED TO SUPPORT AN 18-TON VEHICLE, AS SUCH THE DRAWING IS TO SHOW AREAS OF HEAVY ASPHALT AND LIGHT ASPHALT AND IS TO PROVIDE DESIGN INFORMATION.
- ALL BOULEVARDS TO BE RESTORED WITH 150MM MINIMUM OF TOPSOIL AND SOD TO THE SATISFACTION OF THE TOWN OF CALEDON PUBLIC WORKS AND ENGINEERING DEPARTMENT.
- THE MINIMUM PAVEMENT DESIGN FOR THE ASPHALT DRIVEWAY APRON WITHIN THE MUNICIPAL ROAD ALLOWANCE SHALL BE AS FOLLOWS:
40mm HL3 ASPHALT
50mm HL8 ASPHALT
150mm GRANULAR "A"
300mm GRANULAR "B"
- SERVICE CONNECTION BACKFILL TO BE DISCUSSED WITH THE TOWN OF CALEDON.



KEY PLAN
Scale: N.T.S. **SUBJECT LANDS**

NOTES:
THE POSITION OF POLE LINES, CONDUITS, WATERMANS, SEWERS AND UNDERGROUND AND ABOVE GROUND UTILITIES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING THE WORK THE CONTRACTOR SHALL CONFIRM OF THE EXACT LOCATION OF ALL UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.
THE CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS ON THE JOB AND REPORT ANY DISCREPANCY TO THE ARCHITECTS/ENGINEERS BEFORE PROCEEDING WITH THE WORKS.
ALL DRAWINGS AND SPECIFICATIONS ARE INSTRUMENTS OF SERVICE AND THE PROPERTY OF THE ENGINEER WHICH MUST BE RETURNED AT THE COMPLETION OF WORK.
THIS DRAWING IS NOT TO BE SCALED. CONTRACTOR TO USE DIGITAL FILES FOR LAYOUT PROVIDED BY ENGINEER. THIS PLAN MUST NOT BE USED TO SITE THE PROPOSED BUILDINGS.
THE APPROVAL OF THIS PLAN DOES NOT EXEMPT THE OWNER'S CONTRACTOR FROM OBTAINING, BUT NOT LIMITED TO THE FOLLOWING PERMITS: ROAD CUT, SEWER PERMITS, RELOCATION OF SERVICES, ENCRoACHMENT AGREEMENTS, APPROACH APPROVAL PERMITS, ETC.
EXISTING TOPOGRAPHICAL INFORMATION SUPPLIED BY YOUNG & YOUNG SURVEYING INC.

BENCH MARK:
1) ELEVATIONS HEREON ARE GEODETIC IN ORIGIN AND WERE DERIVED FROM GPS OBSERVATIONS USING THE "TOPNET" GPS NETWORK AND ARE REFERRED TO THE CGVD-1928:1978 DATUM.
2) ELEVATIONS HEREON ARE GEODETIC IN ORIGIN AND WERE DERIVED FROM CITY OF BRAMPTON MONUMENT NO. 042200365 (NAD83 ADJUSTMENT) HAVING A PUBLISHED ELEVATION OF 242.135 m. LOCATED 72.80M SOUTH OF CENTRELINE OF MAYFIELD ROAD AND 19.81M EAST OF CENTRELINE OF TOBRAM ROAD.
SITE BENCHMARK:
A CUT CROSS HAVING ELEVATION 242.51 m WAS SET ON THE NORTH-EAST CORNER OF THE INTERSECTION BETWEEN MAYFIELD ROAD AND TOBRAM ROAD.

BEARING NOTE:
BEARINGS ARE UTM GRID, DERIVED FROM GPS OBSERVATION USING THE "TOPNET" GPS NETWORK OBSERVATIONS, UTM ZONE 17, NAD83 (CSRS) (1997.0).

METRIC NOTE:
DISTANCES AND ELEVATIONS ON THIS PLAN ARE TYPICALLY SHOWN IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048.

2.	ISSUED FOR SPA	JULY 15/22	M.E.H.
1.	ISSUED FOR REVIEW & COORDINATION	JUNE 22/22	M.E.H.
NO.	REVISIONS	DATE	BY

SCALE(S):

DRAWING TITLE:
NOTES AND DETAILS

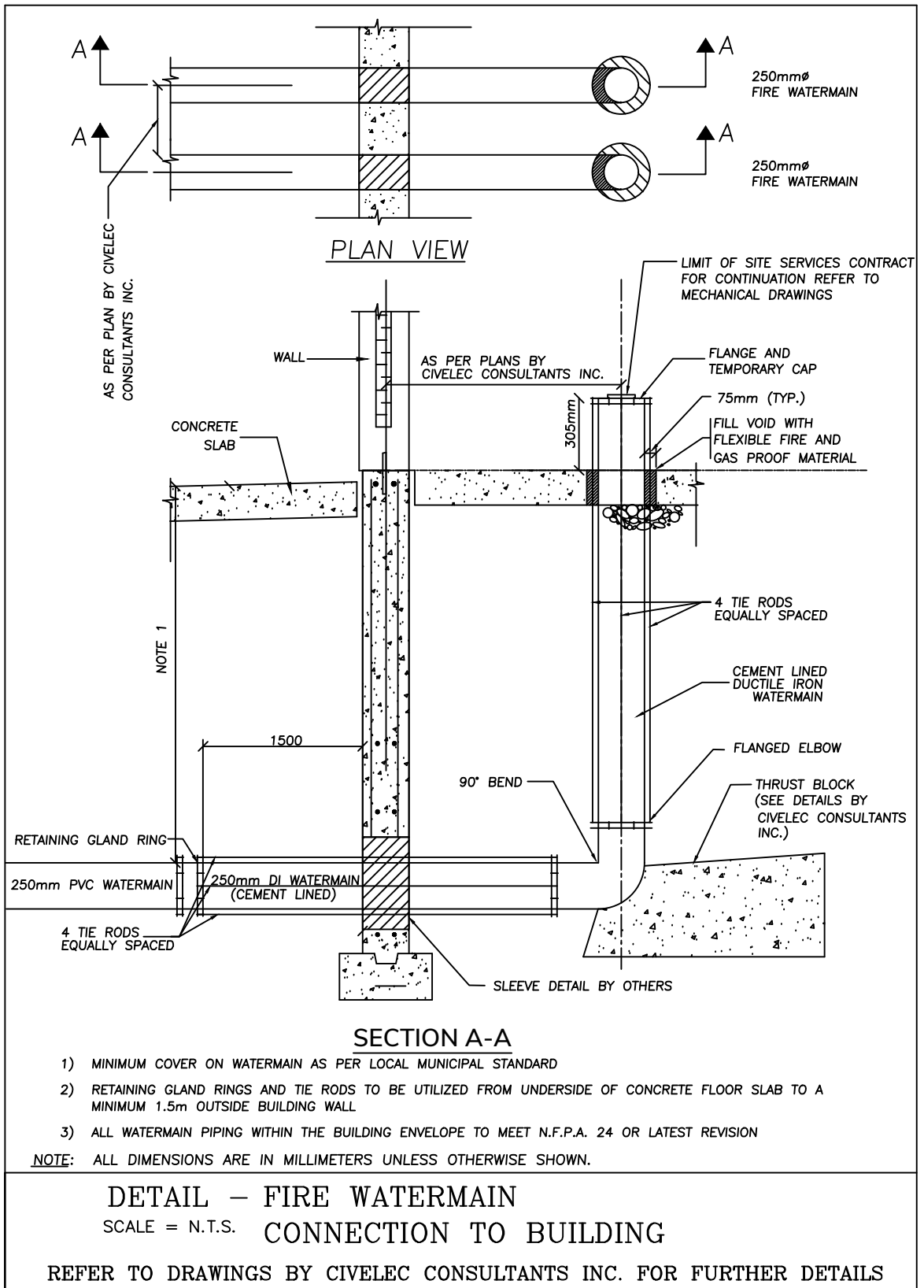
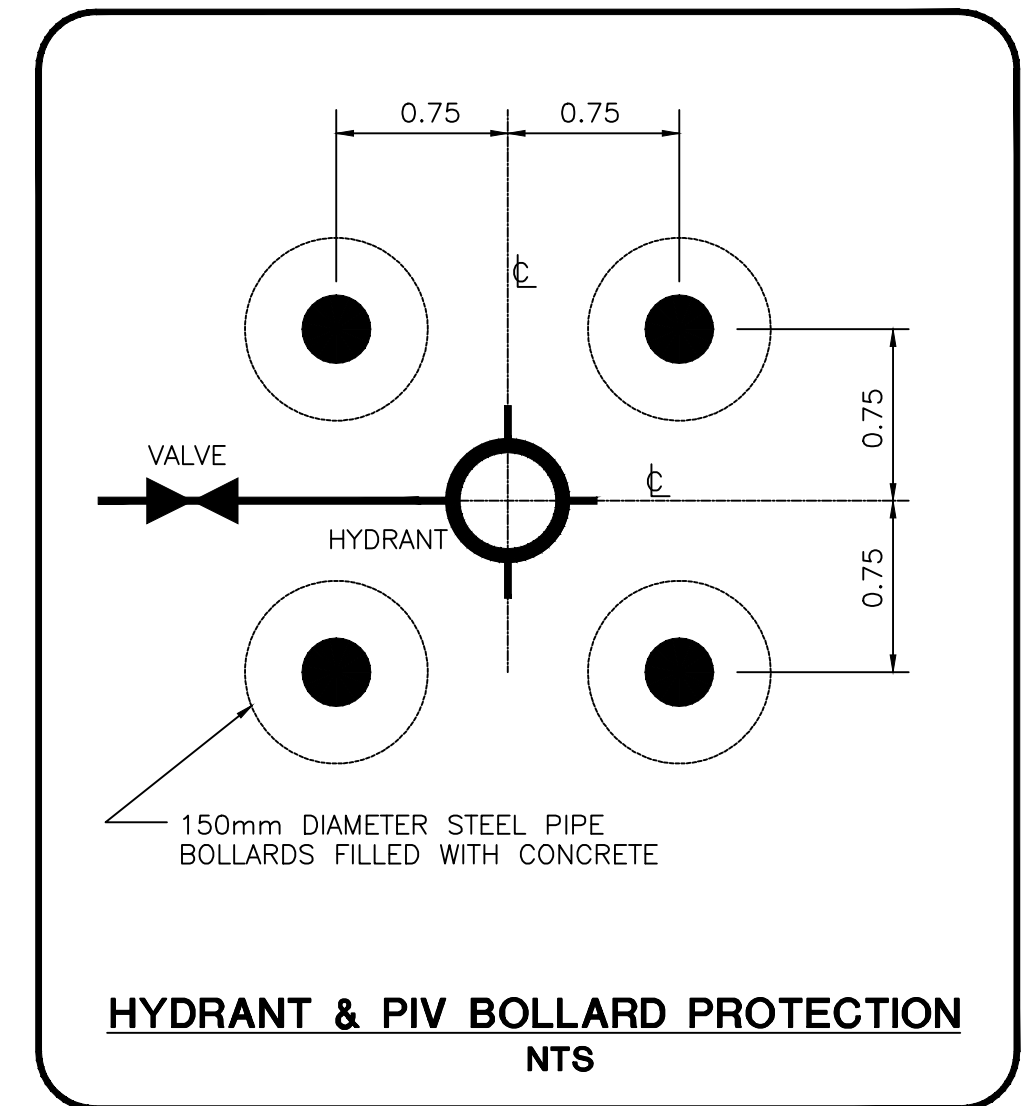
PROJECT:
PROPOSED INDUSTRIAL DEVELOPMENT
TULLAMORE LANDS
CALEDON, ONTARIO

CLIENT:
TULLAMORE LANDS

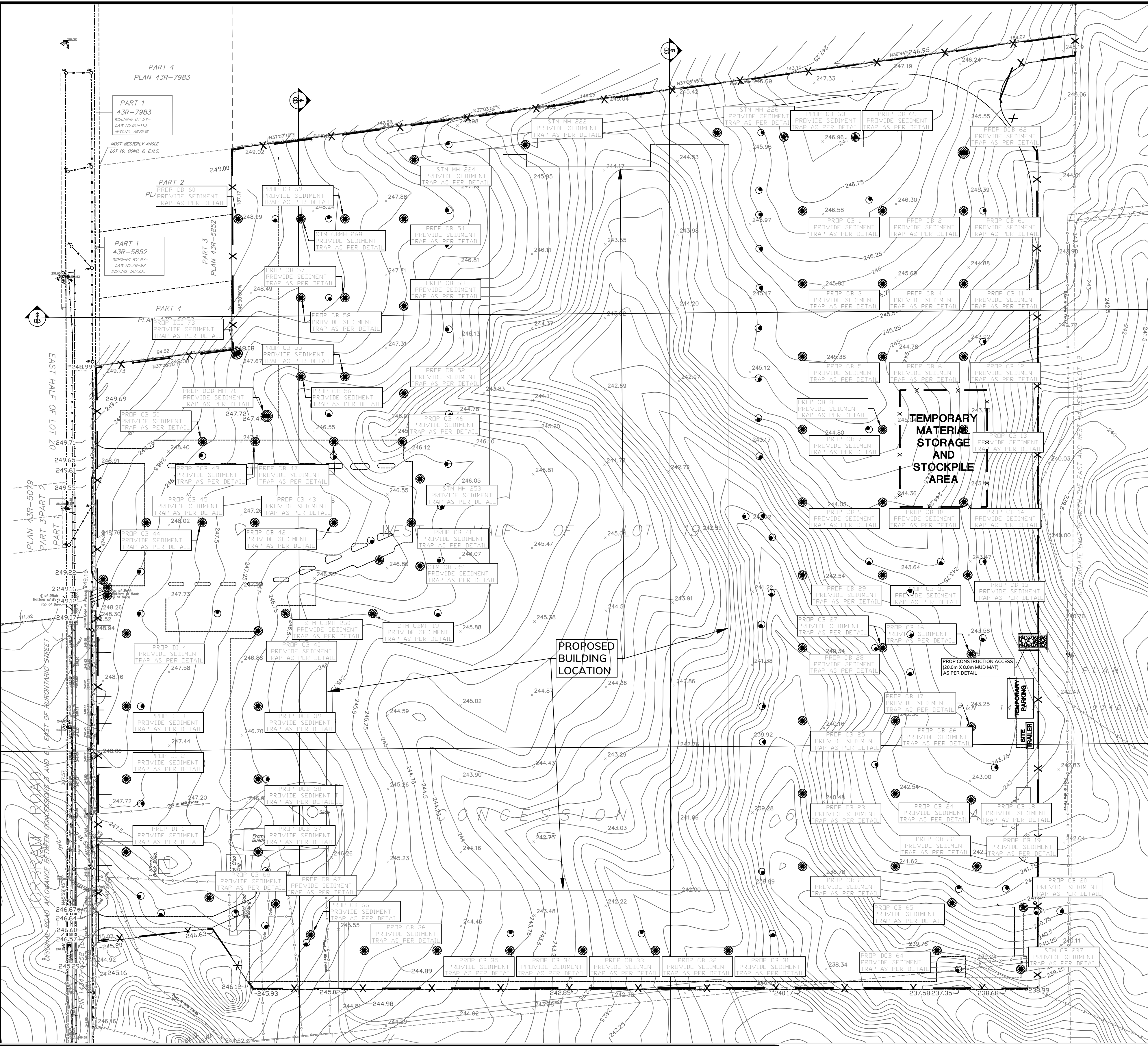


The Odan/Detech Group Inc. P: (905) 632-3811 F: (905) 632-3363 5230 SOUTH SERVICE ROAD, BURLINGTON, ONTARIO, L7L 5K2

	DESIGNED BY:	M.H.H.	PROJECT No:	21264
	DRAWN BY:	Z.Z.	DATE:	SEP 2021
	CHECKED BY:	J.K.	DRAWING No.:	10 of 13
	APPROVED BY:	J.K.	ENGINEER	



SECTION A-A
1) MINIMUM COVER ON WATERMAN AS PER LOCAL MUNICIPAL STANDARD
2) RETAINING GLAND RINGS AND THE RODS TO BE UTILIZED FROM UNDERSIDE OF CONCRETE FLOOR SLAB TO A MINIMUM 1.5m OUTSIDE BUILDING WALL.
3) ALL WATERMAIN PIPING WITHIN THE BUILDING ENVELOPE TO MEET N.F.P.A. 24 OR LATEST REVISION
NOTE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.
DETAIL - FIRE WATERMAIN CONNECTION TO BUILDING
SCALE = N.T.S.
REFER TO DRAWINGS BY CIVELEC CONSULTANTS INC. FOR FURTHER DETAILS



CONSTRUCTION ACCESS NOTES:

- TEMPORARY "TRUCK ENTRANCE" SIGNS SHALL BE INSTALLED ON THE SHOULDER, 150m IN ADVANCE OF THE ACCESS (NOTE: SEE DETAILS ON USE OF THESE SIGNS IN THE M.T.O. UNIFORM TRAFFIC CONTROL DEVICES MANUAL.) THE APPLICANT WILL BE RESPONSIBLE FOR THE COST OF OBTAINING, ERECTING AND MAINTAINING THESE SIGNS.
- TEMPORARY CONSTRUCTION ACCESS SHALL BE REMOVED FROM THE REGIONAL ROAD ALLOWANCE AND ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION.

GENERAL NOTES:

- IF STOCKPILES ARE TO BE LEFT FOR MORE THAN 30 DAYS THEY MUST BE STABILIZED BY HYDROSEEDING AS PER OPS 572. CONTRACTOR TO CONFIRM WITH ODAN/DETECH IF STABILIZATION IS REQUIRED UPON COMPLETION OF STOCKPILING.
- CONTRACTOR TO INSPECT THE INTEGRITY OF THE HEAVY DUTY SILT FENCE AND SEDIMENT CONTROLS ON A WEEKLY SCHEDULE, AND AFTER EVERY HEAVY RAINFALL EVENT OR SNOW MELT EVENT, DEFICIENCIES ARE TO BE RECTIFIED IMMEDIATELY.
- AT ALL TIMES THE SITE OPERATIONS SHALL SEQUENCE THE WORKS TO MINIMIZE THE DURATION THAT ANY PORTION OF THE SITE REMAINS IN AN UNVEGETATED STATE.
- REMOVAL OF ANY EROSION AND SEDIMENT CONTROL MEASURES WILL REQUIRE THE APPROVAL OF ODAN/DETECH. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED AND DECOMMISSIONED UPON COMPLETION OF CONSTRUCTION.

DUST CONTROL:

- CONTRACTOR TO MINIMIZE DUST ON-SITE WITH USE OF WATER, OR APPROVED ALTERNATE.
- CONTRACTOR TO CLEAN ROADWAY DAILY
- CONTRACTOR TO WASH ROAD BI-WEEKLY
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONTROLLING DUST NUISANCE RESULTING FROM HIS OPERATIONS, BOTH ON THE SITE AND WITHIN THE ADJACENT RIGHT-OF-WAYS DURING CONSTRUCTION.
- WATER SHALL BE APPLIED TO AREAS ON THE ADJACENT TO THE SITE, AS REQUIRED, FOR THE PREVENTION OF DUST NUISANCE TO THE PUBLIC.
- SHOULD DUST BE PRESENT UPON COMPLETION OF CONSTRUCTION THE AREAS SHALL BE REVIEWED WITH THE OWNER AND ENGINEER TO DETERMINE IF TEMPORARY MEASURES WILL BE REQUIRED.

CONTRACTOR'S SCOPE OF WORK & SEQUENCING

- ALL SEDIMENT CONTROLS ARE TO BE INSTALLED PRIOR TO COMMENCEMENT OF ANY SITE GRADING WORKS.
- THE CONTRACTOR SHALL PROVIDE A SILT FENCE AS SHOWN ON THE PLANS AND AS PER DETAIL. (THIS SHEET) THE SILT FENCE SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
- THE CONTRACTOR SHALL CONSTRUCT THE MUD MAT AS PER DETAIL SHOWN. MUD TRACKING ONTO THE MUNICIPAL R.O.W. IS STRICTLY PROHIBITED ANY MUD TRACKING OFF-SITE SHALL BE CLEANED IMMEDIATELY AT THE CONTRACTORS EXPENSE.
- PRIOR TO STOCKPILING FILL, THE CONTRACTOR SHALL STRIP TOPSOIL ONLY WITHIN THE DESIGNATED STOCKPILE LOCATIONS AND REMOVE FROM SITE.
- THE CONTRACTOR TO STOCKPILE FILL WITHIN THE DESIGNATED AREAS, WHILE AT ALL TIMES MAKING AN EFFORT TO MINIMIZE DISTURBANCE TO THE EXISTING VEGETATED AREAS. HAUL ROUTES PROPOSED BY THE CONTRACTOR ARE TO BE GIVEN TO THE CHIEF BUILDING OFFICIAL AT THE TOWN OF CALEDON PRIOR TO BEGINNING IMPROVEMENT WORKS.
- CONTRACTOR TO INSPECT THE INTEGRITY OF THE SILT FENCE ON A WEEKLY SCHEDULE, AND AFTER EVERY HEAVY RAINFALL EVENT OR SNOW MELT EVENT, DEFICIENCIES ARE TO BE RECTIFIED IMMEDIATELY.
- AT ALL TIMES THE SITE OPERATIONS SHALL SEQUENCE THE WORKS TO MINIMIZE THE DURATION THAT ANY PORTION OF THE SITE REMAINS IN AN UNVEGETATED STATE.

CONSTRUCTION SEQUENCE

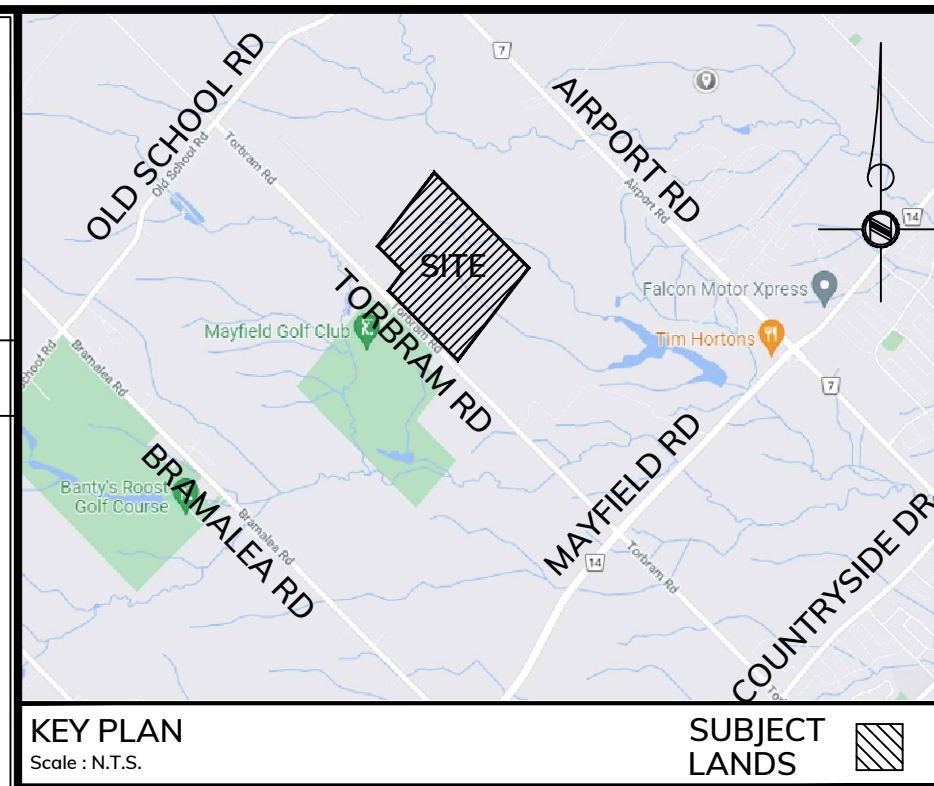
- SEDIMENT CONTROLS
- STRIP AND REMOVE TOPSOIL OFF SITE TO AN APPROVED LOCATIONS
- SITE GRADING
- UNDERGROUND SERVICING
- BLDG. CONSTRUCTION
- FINAL GRADING/SODDING
- REMOVE ALL SEDIMENT FROM ALL STORM AND SANITARY STRUCTURES AND APPURTENANCES.
- REMOVE ALL SEDIMENT FROM STORM WATER MANAGEMENT POND, ELEVATION TO BE AS PER PLANS.
- IF SITE CONSTRUCTION IS INTERRUPTED AND/OR INACTIVITY EXCEEDS 30 DAYS, ALL STRIPPED AND/OR BARE AREAS SHALL BE STABILIZED BY SEEDING.
- ALL EROSION AND SEDIMENT CONTROL MEASURE ARE TO BE REGULARLY INSPECTED AND MAINTAINED AS REQUIRED, TO THE SATISFACTION OF THE TOWN OF CALEDON.
- ALL EROSION AND SEDIMENT CONTROL MEASURE ARE TO BE REGULARLY INSPECTED AND MAINTAINED

TOWN STANDARD EROSION AND SEDIMENT CONTROL NOTES

- ALL EROSION AND SEDIMENT CONTROL (ESC) MEASURES MUST BE INSTALLED PRIOR TO THE COMMENCEMENT OF WORKS ON SITE AND SHALL BE MAINTAINED DURING ALL CONSTRUCTION PHASES OF THE WORKS.
- THE ESC STRATEGIES OUTLINED ON THIS PLAN ARE NOT STATIC AND MAY NEED TO BE UPGRADED/AMENDED AS SITE CONDITIONS CHANGE TO PREVENT SEDIMENT RELEASE OUTSIDE THE WORK AREA. THE TOWN IS TO BE ADVISED OF ANY CHANGES TO ESC MEASURES AND AT THE DISCRETION OF THE TOWN, UPDATED PLANS MAY BE REQUIRED.
- THE CONTRACTOR IS TO ASSIGN AN ENVIRONMENTAL MONITOR (EM) TO ASSURE CONSTRUCTION ACTIVITIES COMPLY WITH THE ENVIRONMENTAL PROVISIONS AND AGENCY PERMITS. THE EM WILL BE A QUALIFIED PERSON AS DETERMINED BY THE TOWN AND/OR CONSERVATION AUTHORITY. THE EM SHOULD SUBMIT INSPECTION FORMS ELECTRONICALLY TO THE TOWN AND CONSERVATION AUTHORITY UPON REQUEST.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL ESC MEASURES IN WORKING CONDITION AT ALL TIMES TO THE SATISFACTION OF TOWN AND/OR CONSERVATION AUTHORITY. ALL DAMAGED ESC MEASURES SHOULD BE REPAIRED AND/OR REPLACED WITHIN 48 HOURS OF THE INSPECTION.
- THE CONTRACTOR SHALL ROUTINELY INSPECT ALL ESC DEVICES TO ENSURE PROPER WORKING ORDER. FREQUENCY OF INSPECTIONS OF ESC MEASURES IS AS FOLLOWS:
DURING EARTHWORKS ACTIVITIES:
• ON A WEEKLY BASIS
• PRIOR TO PREDICTED RAINFALL EVENTS
• AFTER EVERY RAINFALL EVENT
• AFTER SIGNIFICANT SNOWMELT EVENT; AND
• DAILY DURING EXTENDED RAIN OR SNOWMELT PERIODS DURING TIMES OF NO EARTHWORKS ACTIVITY.
ONCE EVERY 2 WEEKS
• AFTER SIGNIFICANT SNOWMELT EVENTS;
• AFTER SIGNIFICANT RAINFALL EVENTS (MORE THAN 25mm OF RAINFALL IN A 24-HOUR PERIOD).
- ALL CONSTRUCTION VEHICLES MUST ENTER AND EXIT THE SITE ONLY FROM THE APPROVED ACCESS ROUTES AS SHOWN ON THE PLANS. CONSTRUCTION ACCESS WILL BE MAINTAINED TO THE SATISFACTION OF THE TOWN/REGION. STREET SWEEPING MAY BE REQUIRED AS NEEDED.
- NO CONSTRUCTION ACTIVITY OR MACHINERY SHALL BE ALLOWED BEYOND THE SILT FENCE OR LIMITS OF THE SITE WORKS.
- THE CONTRACTOR IS RESPONSIBLE TO IMPLEMENT DUST CONTROL MEASURES AND CONSTRUCTION BEST PRACTICE GUIDELINES AS APPROVED BY THE TOWN AND/OR CONSERVATION AUTHORITY.
- ALL DISTURBED GROUND LEFT INACTIVE FOR 30 DAYS SHALL BE VEGETATED, SUBJECT TO WEATHER CONDITIONS. DISTURBED AREAS ARE TO BE HYDROSEEDED (OR APPROVED EQUIVALENT) TO THE SATISFACTION OF THE TOWN.
- ALL TOPSOIL STOCKPILES SHALL BE SURROUNDED WITH SEDIMENT CONTROL FENCE. THE MAXIMUM SIDE SLOPE SHALL BE 2:1 (H:V). ONCE TOPSOIL STRIPPING IS COMPLETED THE STOCKPILE SHALL BE VEGETATED, SUBJECT TO WEATHER CONDITIONS, BY HYDROSEEDING, OR AN APPROVED EQUIVALENT, TO THE SATISFACTION OF THE TOWN.
- CONTRACTOR SHALL TAKE CARE AND CONTROL SPILLS, FLUIDS AND MATERIALS DURING CONSTRUCTION TO MINIMIZE RISK TO THE ENVIRONMENT.

LEGEND:

- ×(100.00) DENOTES PRE-GRADE ELEVATION
- ×(100.00) DENOTES PRE-GRADE SWALE INVERT ELEVATION
- ×100.00 DENOTES EXISTING ELEVATION
- Log DENOTES PRE-GRADE FLOW ARROW AND SLOPE
- DENOTES PROPOSED SEDIMENT TRAP
- DENOTES PROPOSED PROPERTY LINE & LIMIT OF PREROUNDING
- - - DENOTES PROPOSED SILT FENCE
- DENOTES EMERGENCY OVERLAND FLOW



KEY PLAN
Scale: 1:12.5

SUBJECT LANDS

NOTES:

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THE CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS ON THE JOB AND REPORT ANY DISCREPANCY TO THE ARCHITECTS/ENGINEERS BEFORE PROCEEDING WITH THE WORKS.

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EXISTING TOPOGRAPHICAL INFORMATION SUPPLIED BY YOUNG & YOUNG SURVEYING INC..

BENCH MARK:

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- LOCATED 72.60m SOUTH OF CENTRELINE OF MAYFIELD ROAD AND 19.81m EAST OF CENTRELINE OF TORBRAM ROAD.

SITE BENCHMARK:
A CUT CROSS HAVING ELEVATION 242.51 m WAS SET ON THE NORTH-EAST CORNER OF THE INTERSECTION BETWEEN MAYFIELD ROAD AND TORBRAM ROAD.

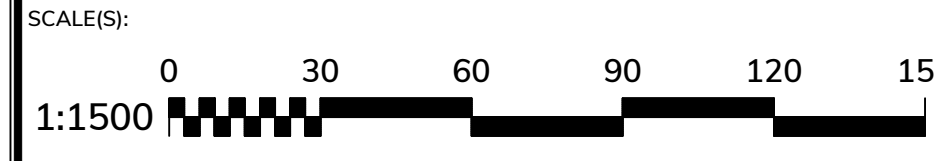
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METRIC NOTE:

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NO.	REVISIONS	DATE	BY
1.	ISSUED FOR SPA	JULY 15/22	M.E.H.
2.	ISSUED FOR REVIEW & COORDINATION	JUNE 22/22	M.E.H.



DRAWING TITLE:
EROSION AND SEDIMENT CONTROL PLAN (1)

PROJECT:
PROPOSED INDUSTRIAL DEVELOPMENT
TULLAMORE LANDS
CALEDON, ONTARIO

CLIENT:
TULLAMORE LANDS

ODAN-DETECH
CONSULTING ENGINEERS

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DESIGNED BY: M.H.H.
PROJECT No.: 21264

DRAWN BY: Z.Z.
DATE: SEP 2021

CHECKED BY: J.K.
DRAWING No.: 11 OF 13

APPROVED BY: J.K.
ENGINEER

REGISTERED PROFESSIONAL ENGINEER
I. KRAPAN
PROVINCE OF ONTARIO
JULY 15/22

SECTION 1: SITE MANAGEMENT

STANDARD NOTES

- EROSION AND SEDIMENT CONTROL (ESC) MEASURES WILL BE IMPLEMENTED PRIOR TO, AND MAINTAINED DURING THE CONSTRUCTION PHASES, TO PREVENT ENTRY OF SEDIMENT INTO THE WATER. ALL DAMAGED EROSION AND SEDIMENT CONTROL MEASURES SHOULD BE REPAIRED AND/OR REPLACED WITHIN 48 HOURS OF THE INSPECTION.
- DISTURBED AREAS WILL BE MINIMIZED TO THE EXTENT POSSIBLE, AND TEMPORARILY OR PERMANENTLY STABILIZED OR RESTORED AS THE WORK PROGRESSES.
- ALL IN-WATER AND NEAR WATER WORKS WILL BE CONDUCTED IN THE DRY WITH APPROPRIATE EROSION AND SEDIMENT CONTROLS.
- THE EROSION AND SEDIMENT CONTROL STRATEGIES OUTLINED ON THIS PLAN ARE NOT STATIC AND MAY NEED TO BE UPGRADED/AMENDED AS SITE CONDITIONS CHANGE TO PREVENT SEDIMENT RELEASE OUTSIDE THE WORK AREA. THE TOWN IS TO BE ADVISED OF ANY CHANGES TO ESC MEASURES AND AT THE DISCRETION OF THE TOWN, UPDATED PLANS MAY BE REQUIRED.
- AN ENVIRONMENTAL MONITOR WILL ATTEND THE SITE TO INSPECT ALL NEW CONTROLS, AS WELL AS ON A REGULAR BASIS, OR FOLLOWING RAIN/SNOWMELT EVENT, TO MONITOR ALL WORKS AND IN PARTICULAR WORKS RELATED TO EROSION AND SEDIMENT CONTROLS, SEWERING OR UNWATERING, RESTORATION AND IN-OR NEAR-WATER WORKS. SHOULD CONCERNS ARISE ON SITE THE ENVIRONMENTAL MONITOR WILL CONTACT THE TRCA ENFORCEMENT OFFICER AS WELL AS THE PROPONENT.
- ALL ACTIVITIES, INCLUDING MAINTENANCE PROCEDURES, WILL BE CONTROLLED TO PREVENT THE ENTRY OF PETROLEUM PRODUCTS, DEBRIS, RUBBLE, CONCRETE OR OTHER DELETERIOUS SUBSTANCES INTO THE WATER. VEHICULAR REFUELLING AND MAINTENANCE WILL BE CONDUCTED A MINIMUM OF 30 METRES FROM THE WATER.
- ALL GRASSES WITHIN THE REGULATORY FLOOD PLAN WILL BE MAINTAINED OR WATCHED.
- THE PROPONENT/CONTRACTOR SHALL MONITOR THE WEATHER SEVERAL DAYS IN ADVANCE OF THE ONSET OF THE PROJECT TO ENSURE THAT THE WORKS WILL BE CONDUCTED DURING FAVOURABLE WEATHER CONDITIONS. SHOULD AN UNEXPECTED STORM ARISE, THE CONTRACTOR WILL REMOVE ALL UNFIXED ITEMS FROM THE REGIONAL STORM FLOOD PLAN THAT WOULD HAVE THE POTENTIAL TO CAUSE A SPILL OR AN OBSTRUCTION TO FLOW, E.G., FUEL TANKS, PORTA-POTTIES, MACHINERY, EQUIPMENT, CONSTRUCTION MATERIALS, ETC.
- ALL Dewatering/unwatering shall be treated and released to the environment at least 30 metres from a watercourse or wetland and allowed to drain through a well-vegetated area. NO Dewatering effluent shall be sent directly to any watercourse, wetland or forest, or allowed to drain onto disturbed soils within the work area. THESE CONTROL MEASURES SHALL BE MONITORED FOR EFFECTIVENESS AND MAINTAINED OR REVISED TO MEET THE OBJECTIVE OF PREVENTING THE RELEASE OF SEDIMENT LOADED WATER.
- ALL ACCESS TO THE WORK SITE SHALL BE FROM EITHER SIDE OF THE WATERCOURSE. NO EQUIPMENT OR VEHICLES ARE PERMITTED TO CROSS THROUGH THE WATERCOURSE UNLESS APPROVED BY TRCA.

SECTION 2: CONSTRUCTION TIMING

- IN ORDER TO COMPLY WITH THE MIGRATORY BIRDS CONNECTION ACT, TRCA RECOMMENDATIONS THAT TREE REMOVALS BE COMPLETED BETWEEN AUGUST 1 AND APRIL 1.
- TO PROTECT LOCAL FISH POPULATIONS DURING THEIR SPAWNING, NURSERY AND MIGRATORY PERIODS, IN-WATER/NEAR-WATER ACTIVITIES, MAY ONLY OCCUR DURING THE FOLLOWING TIME PERIOD, TRCA TO CONFIRM TIMING WINDOW DURING REVIEW OF FIRST SUBMISSION.

SECTION 3: FISH AND WILDLIFE RELOCATION

- FISH AND WILDLIFE STRANDED WITHIN THE WORK AREA SHALL BE CAPTURED AND RELEASED LIVE IN SUITABLE HABITAT UPSTREAM OF THE WORK AREA UNDER THE SUPERVISION OF A QUALIFIED AQUATIC BIOLOGIST. A PERMIT FROM THE MINISTRY OF NATURAL RESOURCES IS REQUIRED.

SECTION 4: ENVIRONMENTAL COMPLIANCE

- PLEASE NOTIFY TRCA ENFORCEMENT OFFICER 48 HOURS PRIOR TO COMMENCING CONSTRUCTION.
- AN ENVIRONMENTAL MONITOR WILL BE ON SITE, AND PROVIDE ADVICE, TO ENSURE THAT ACTIVITIES THAT COULD HAVE A NEGATIVE IMPACT TO THE NATURAL ENVIRONMENT ARE EFFECTIVELY MITIGATED AS CONSTRUCTION PROCEEDS. THE ENVIRONMENTAL MONITOR SHALL NOTIFY THE TRCA ENFORCEMENT OFFICER.

CONTINGENCY PLAN:

THE CONTRACTOR SHALL ENSURE THAT EROSION AND SEDIMENT DO NOT ENCRUCH OR ENTER INTO THE ADJACENT WETLANDS:

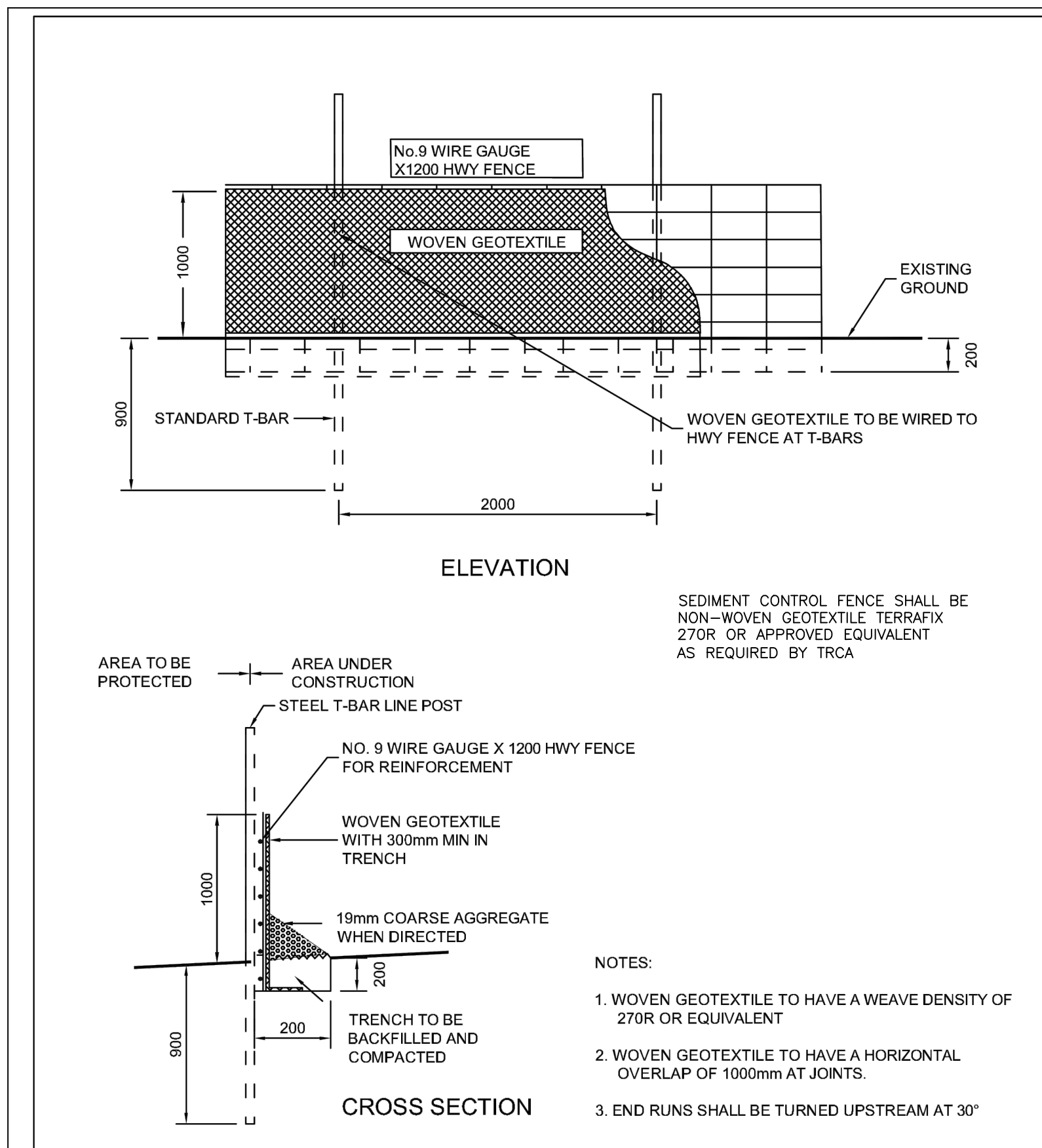
SHOULD SEDIMENT ENTER INTO THE ADJACENT WETLANDS THE TRCA AND ENGINEER SHALL BE CONTACTED IMMEDIATELY TO DETERMINE THE EXACT MEASURES FOR RECTIFICATION AND REMOVAL OF SEDIMENT.

REMOVAL OF SEDIMENT FROM THE WETLANDS SHALL BE BY AN ACCEPTABLE METHOD APPROVED BY THE TRCA AND AGREED UPON BY THE SITE ENGINEER AND DEVELOPER.

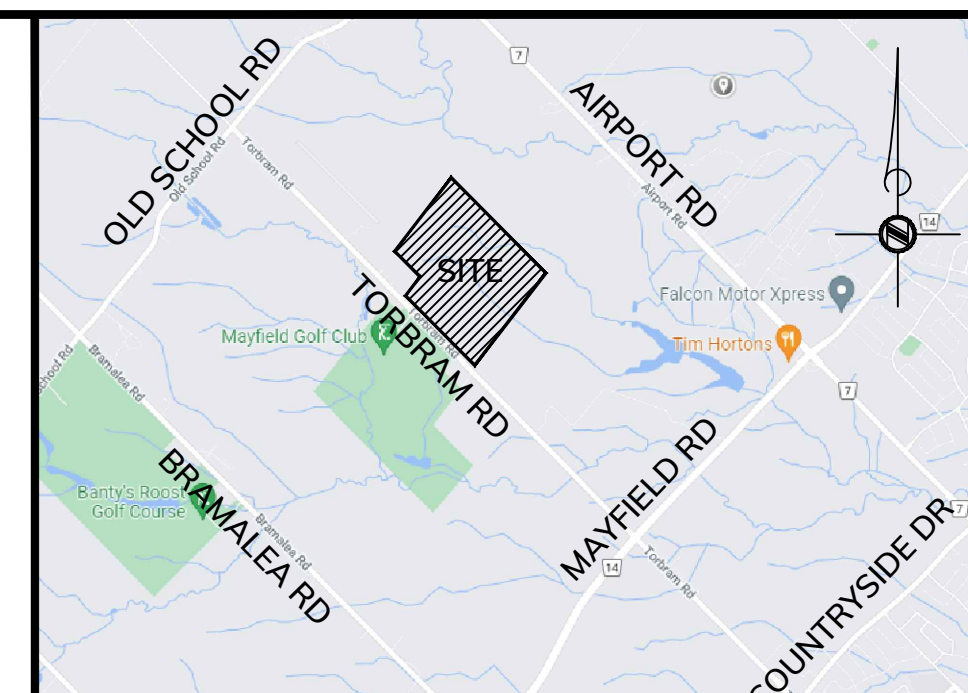
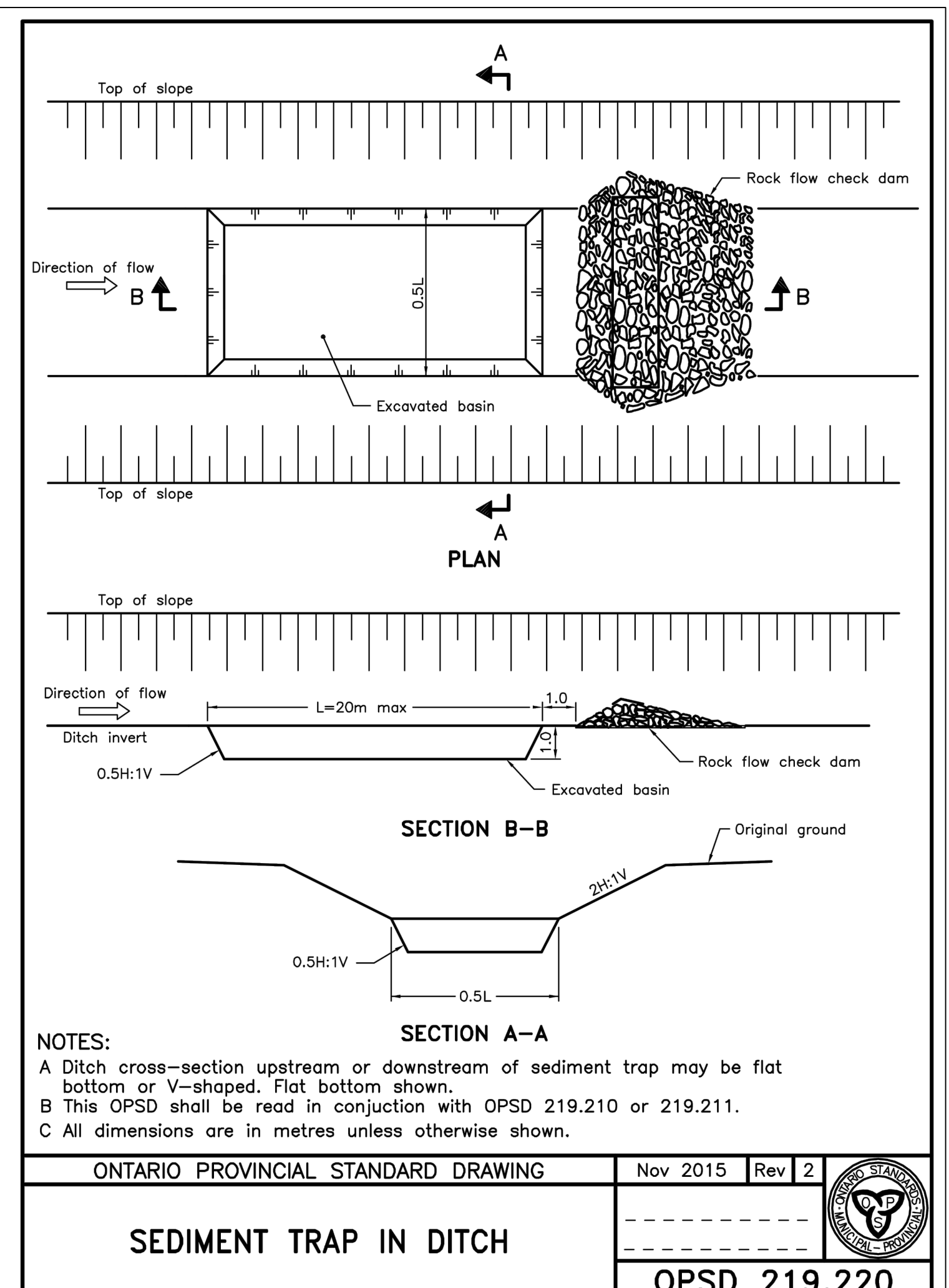
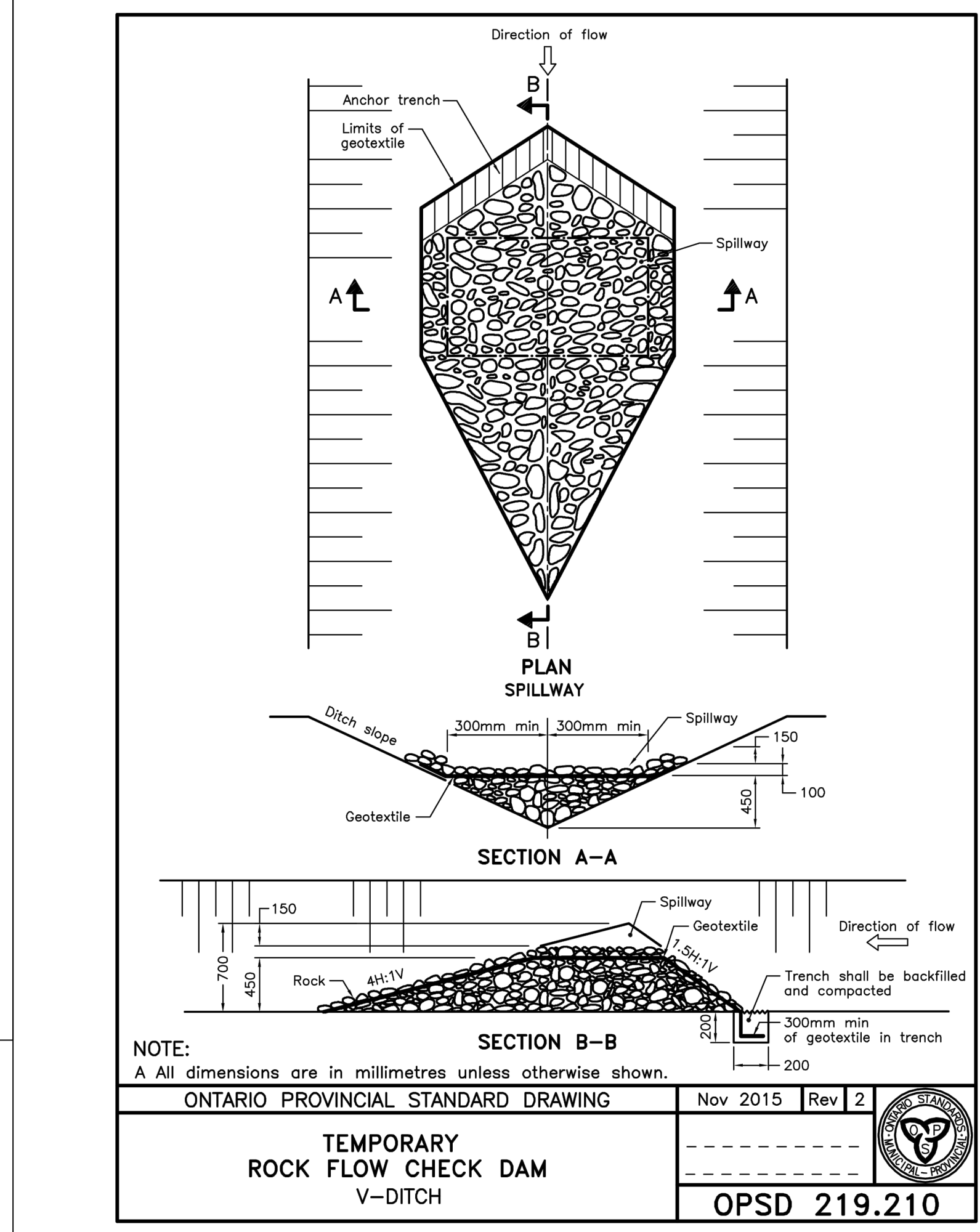
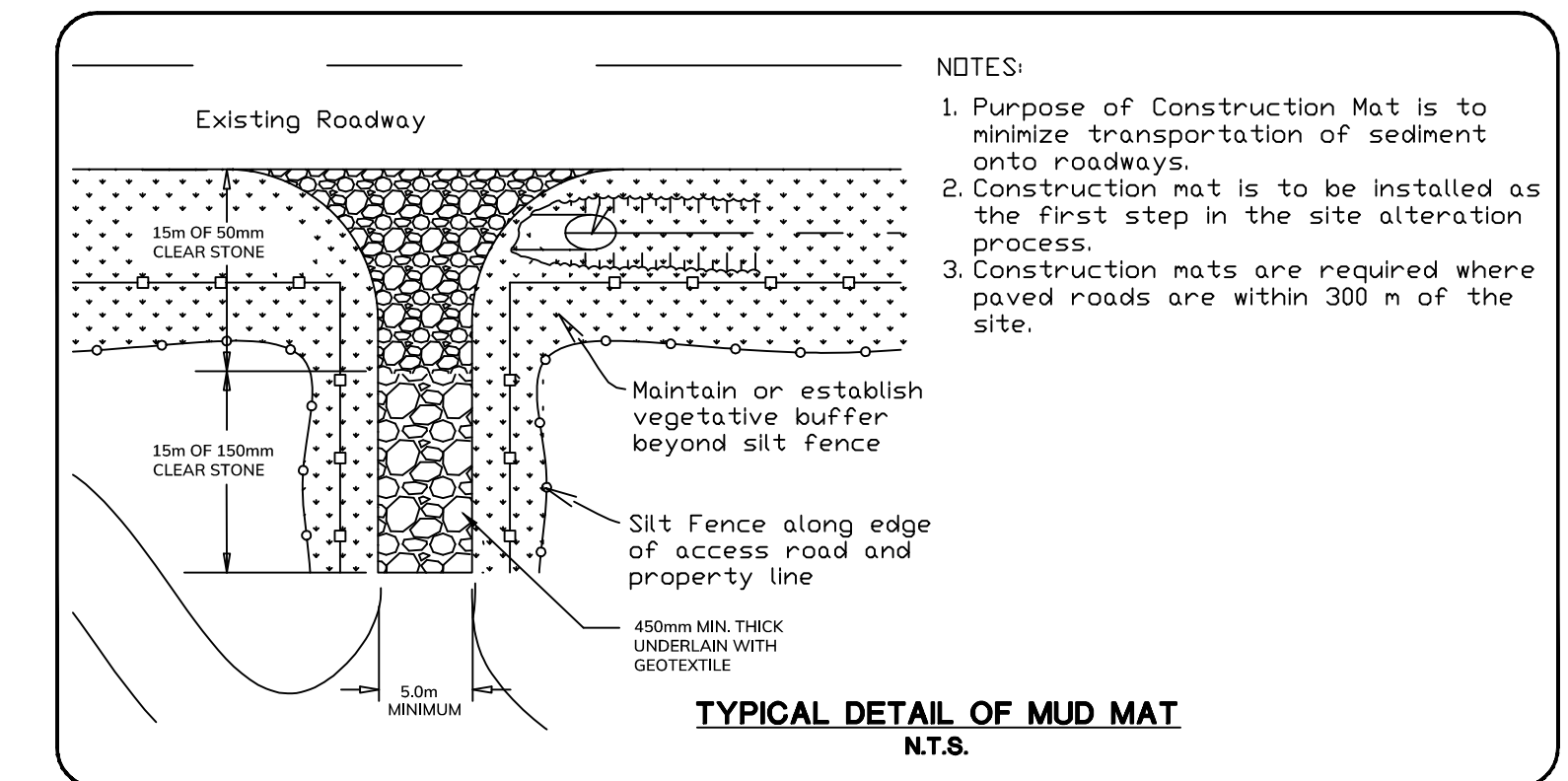
EQUIPMENT SHALL BE LIGHT DUTY IN GOOD REPAIR AND SHALL BE APPROVED FOR USE PRIOR TO ENTERING INTO THE WETLAND AREA.

DISTURBED AREAS SHALL BE PROTECTED WITH SEDIMENT FENCING PRIOR TO ENTERING INTO THE WETLAND AREA.

THE AREA SHALL BE CLEANED AND PREPARED FOR PLANTING OF NATIVE SPECIES WITHIN ANY DISTURBED AREAS. PHOTOS OF THE AREA ARE TO BE TAKEN PRIOR TO AND UPON COMPLETION OF RESTORATION.



SEDIMENT CONTROL FENCE - TOWN STANDARD No 304. MODIFIED - NON-WOVEN AS PER TRCA



NOTES:

THE POSITION OF POLE LINES, CONDUITS, WATERMANS, SEWERS AND UNDERGROUND AND ABOVE GROUND UTILITIES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED BEFORE STARTING THE WORK. THE CONTRACTOR SHALL CONFIRM OF THE EXACT LOCATION OF ALL UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

THE CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS ON THE JOB AND REPORT ANY DISCREPANCY TO THE ARCHITECTS/ENGINEERS BEFORE PROCEEDING WITH THE WORKS.

ALL DRAWINGS AND SPECIFICATIONS ARE INSTRUMENTS OF SERVICE AND THE PROPERTY OF THE ENGINEER WHICH MUST BE RETURNED AT THE COMPLETION OF WORK.

THIS DRAWING IS NOT TO BE SCALED. CONTRACTOR TO USE DIGITAL FILES FOR LAYOUT PROVIDED BY ENGINEER. THIS PLAN MUST NOT BE USED TO SITE THE PROPOSED BUILDINGS.

THE APPROVAL OF THIS PLAN DOES NOT EXEMPT THE OWNER'S CONTRACTOR FROM OBTAINING, BUT NOT LIMITED TO THE FOLLOWING PERMITS: ROAD CUT, SEWER PERMITS, RELOCATION OF SERVICES, ENCROACHMENT AGREEMENTS, APPROACH APPROVAL PERMITS, ETC.

EXISTING TOPOGRAPHICAL INFORMATION SUPPLIED BY YOUNG & YOUNG SURVEYING INC.

BENCH MARK:

- 1) ELEVATIONS HEREON ARE GEODETIC IN ORIGIN AND WERE DERIVED FROM GPS OBSERVATIONS USING THE "TOPNET" GPS NETWORK AND ARE REFERRED TO THE CGVD-1928, 1978 DATUM.
- 2) ELEVATIONS HEREON ARE GEODETIC IN ORIGIN AND WERE DERIVED FROM CITY OF BRAMPTON MONUMENT NO. 042200565 (NAD83 ADJUSTMENT) HAVING A PUBLISHED ELEVATION OF 242.135 m.

LOCATED 72.80M SOUTH OF CENTRELINE OF MAYFIELD ROAD AND 19.81M EAST OF CENTRELINE OF TORBRAM ROAD.

SITE BENCHMARK:

A CUT CROSS HAVING ELEVATION 242.51 m WAS SET ON THE NORTHEAST CORNER OF THE INTERSECTION BETWEEN MAYFIELD ROAD AND TORBRAM ROAD.

BEARING NOTE:

BEARINGS ARE UTM GRID, DERIVED FROM GPS OBSERVATION USING THE "TOPNET" GPS NETWORK OBSERVATIONS, UTM ZONE 17, NAD83 (CSRS) (1997.0).

METRIC NOTE:

DISTANCES AND ELEVATIONS ON THIS PLAN ARE TYPICALLY SHOWN IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048.

NO.	REVISIONS	DATE	BY
2.	ISSUED FOR SPA	JULY 15/22	M.E.H.
1.	ISSUED FOR REVIEW & COORDINATION	JUNE 22/22	M.E.H.

SCALE(S):

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DRAWING TITLE:

EROSION AND SEDIMENT CONTROL PLAN (2)

PROJECT:

PROPOSED INDUSTRIAL DEVELOPMENT

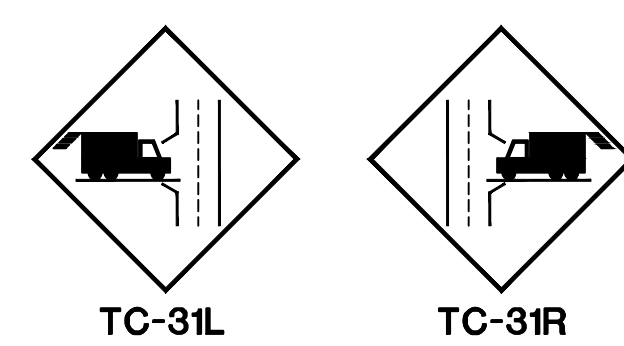
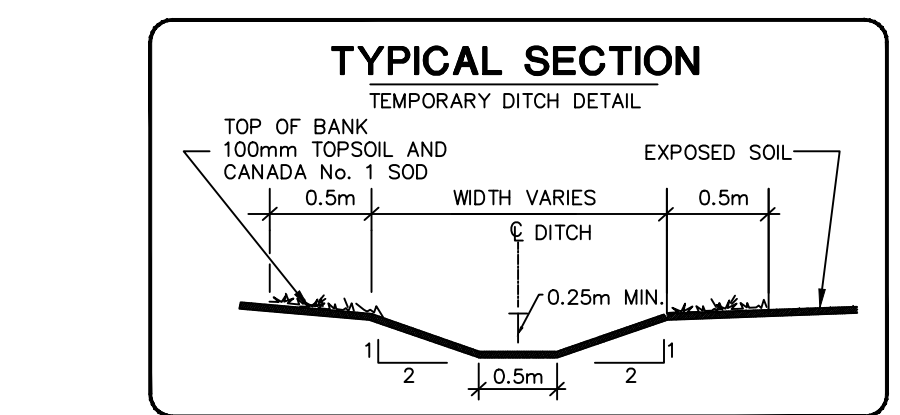
TULLAMORE LANDS
CALEDON, ONTARIO

CLIENT:

TULLAMORE LANDS



DESIGNED BY:	M.H.H.	PROJECT No:	21264
DRAWN BY:	Z.Z.	DATE:	SEP 2021
CHECKED BY:	J.K.	DRAWING No.:	12 of 13
APPROVED BY:	J.K.	ENGINEER	



HAUL ROUTE NOTE:

THE HAUL ROUTE SHALL BE FROM THE 427 HIGHWAY LOCATED SOUTH OF THE DEVELOPMENT TO 12880 COLERAINE DRIVE.

PATH OF TRAVEL TO ACCESS SITE:
TRAVEL FROM THE 427N TO HIGHWAY 7 (REGIONAL ROAD 7) EXIT.
LEFT TURN ONTO HIGHWAY 7 (REGIONAL ROAD 7),
RIGHT TURN ONTO HWY. 50 (REGIONAL ROAD 50),
LEFT TURN ONTO MAYFIELD ROAD,
RIGHT TURN ONTO COLERAINE DRIVE,
LEFT TURN FROM COLERAINE DRIVE INTO PROPOSED SITE.

PATH OF TRAVEL TO EXIT SITE:
RIGHT TURN FROM SITE ONTO COLERAINE DRIVE,
LEFT TURN ONTO MAYFIELD ROAD,
RIGHT TURN ONTO HWY. 50 (REGIONAL ROAD 50),
LEFT TURN ONTO HIGHWAY 7 (REGIONAL ROAD 7),
RIGHT TURN ONTO 427S.

CONSTRUCTION ACCESS NOTES:

1. TEMPORARY "TRUCK ENTRANCE" SIGNS SHALL BE INSTALLED ON THE SHOULDER, 150m IN ADVANCE OF THE ACCESS (NOTE: SEE DETAILS ON USE OF THESE SIGNS IN THE M.T.O. UNIFORM TRAFFIC CONTROL DEVICES MANUAL). THE APPLICANT WILL BE RESPONSIBLE FOR THE COST OF OBTAINING, ERECTING AND MAINTAINING THESE SIGNS.
2. TEMPORARY CONSTRUCTION ACCESS SHALL BE REMOVED FROM THE REGIONAL ROAD ALLOWANCE AND ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION.

STORM WATER MANAGEMENT POND SHALL BE PUMPED OF WATER & SEDIMENT REMOVED TO FINAL PROPOSED ELEVATIONS AS SHOWN ON DRAWINGS UPON COMPLETION OF PAVING AND LANDSCAPING. FILTER SOCK SHALL BE PROVIDED AT INTAKE TO PREVENT SEDIMENT FROM ENTERING THE ADJACENT WATER COURSE. WATER SHALL BE PUMPED FROM THE FORESBAY TO MICRO POOL PRIOR TO PUMPING FROM THE MICRO POOL TO THE HICKENBOTTOM OUTLET. PUMPING FROM MICRO POOL TO WETLAND SHALL BE THROUGH USE OF A FILTER BAG SUCH AS TERRAFIX ENVIROBAG FOR SEDIMENT CONTROL OR APPROVED ALTERNATE. THE WATER SHALL BE DISCHARGED AT THE EMERGENCY OVERLAND FLOW WEIR FROM THE FILTER BAG.

EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN DESIGNED AS PER EROSION & SEDIMENT CONTROL GUIDELINE FOR URBAN CONSTRUCTION

UPON COMPLETION OF GRADING FOR POND (SEDIMENT POND AND FINAL STORM WATER MANAGEMENT POND) LANDSCAPING SHALL BE INSTALLED TO STABILIZE BANKS AND POND

CONTRACTOR TO VERIFY ALL INVERTS, SIZE, MATERIAL AND LOCATION OF ALL SERVICES PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ODAN/DETECH GROUP

HYDRO ONE NOTES:

- UNDERGROUND LOCATES ARE OBTAINED PRIOR TO EXCAVATION
- NO OPEN TRENCHING WITHIN 15m OF HYDRO POLES AND/OR AMMERS.
- MAINTAIN 10m CLEARANCE FROM HYDRO ONE PLANT IF TRENCHLESS HORIZONTAL DRILLING/DIRECTIONAL BORE.
- PUCO OWNER IS RESPONSIBLE TO ADDRESS ALL CONFLICTS WITH HYDRO ONE PLANT AND REQUEST CONFLICT CORRECTIONS THROUGH APPROPRIATE CHANNELS.
- ENSURE ALL INDUSTRY STANDARD UTILITY SEPARATIONS AND CLEARANCE MINIMUMS ARE MAINTAINED.
- ANY GRADE CHANGES ARE BROUGHT TO THE ATTENTION OF HYDRO ONE AND ADDRESSED PRIOR TO COMMENCING WORK.
- ANY POLES AFFECTED BY GRADING REQUIRING A POLE SETTING ADJUSTMENT WILL BE CHARGED AT 100% LABOUR AND MATERIAL WITHOUT ADVANCED NOTICE HAVING BEEN RECEIVED.

PROVIDE A MINIMUM OF 150mm TOPSOIL IN ALL LANDSCAPE AREAS AND A MINIMUM OF 300mm TOPSOIL WITHIN THE SEDIMENT POND ABOVE THE PERMANENT POOL.

ALL EROSION IS TO BE RECTIFIED IMMEDIATELY AND ADDITIONAL MEASURES PROVIDED TO PREVENT FUTURE EROSION DURING CONSTRUCTION

ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED ENTIRELY WITHIN PROPERTY LIMITS

REFER TO DRAWING 2 OF 2 FOR ADDITIONAL NOTES AND DETAILS

CONTRACTOR TO PROVIDE AS-BUILT DRAWINGS UPON COMPLETION OF ALL WORKS TO THE ODAN/DETECH GROUP

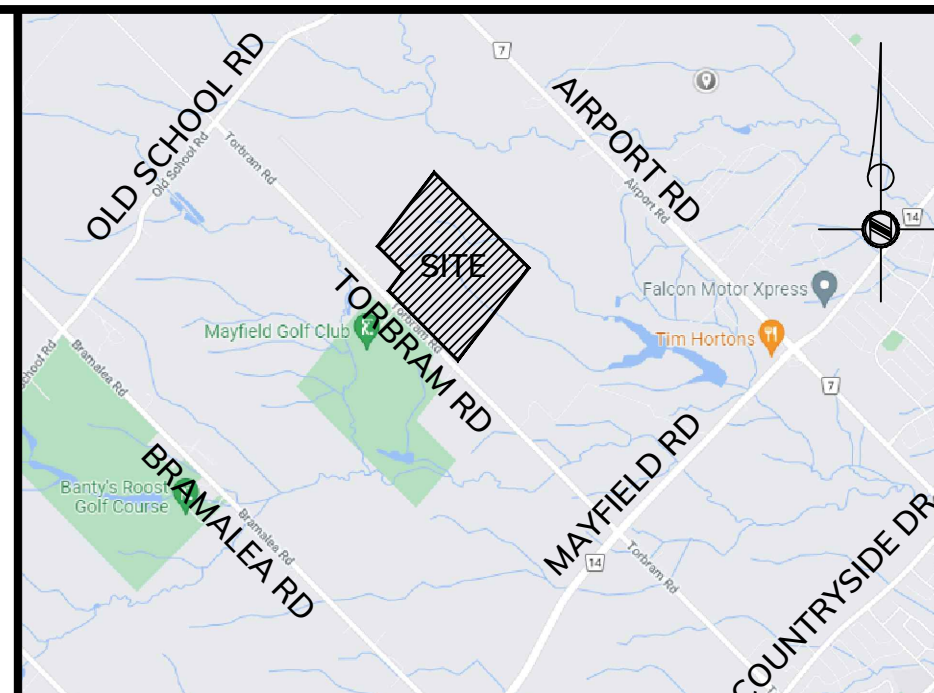
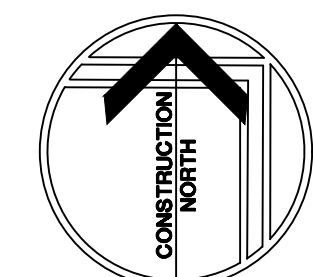
ALL EROSION & SEDIMENT CONTROL MEASURES ARE TO BE REMOVED UPON COMPLETION OF CONSTRUCTION

CONTRACTOR SHALL RETAIN ADEQUATE MATERIAL ON SITE TO RESTORE TEMPORARY CONVEYANCE DITCHES AND SILT MEASURES AND TO COMPLETE FINAL GRADING AS PER APPROVED SITE GRADING PLAN

HYDRO SEED MIX:

100% - CANADA OR FLAT STEMMED BLUEGRASS
BOTANICAL NOMENCLATURE: POA COMPRESSA
OR APPROVED ALTERNATE MEETING TRCA NATIVE SEED MIXES

SEED MIX TO BE SUBMITTED FOR APPROVAL BY TRCA PRIOR TO USE



KEY PLAN
Scale: N.T.S. **SUBJECT LANDS**

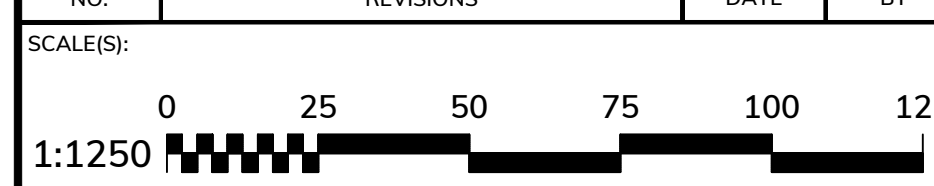
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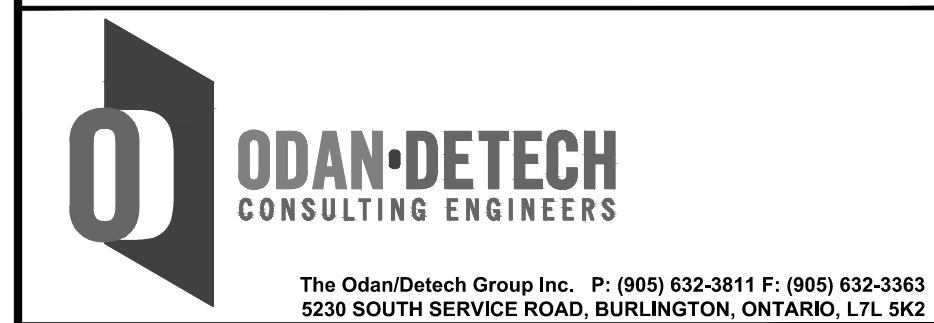
NO.	REVISIONS	DATE	BY
2.	ISSUED FOR SPA	JULY 15/22	M.E.H.
1.	ISSUED FOR REVIEW & COORDINATION	JUNE 22/22	M.E.H.



DRAWING TITLE:
TRIBUTARY PLAN (SWM)

PROJECT:
PROPOSED INDUSTRIAL DEVELOPMENT
 TULLAMORE LANDS
 CALEDON, ONTARIO

CLIENT:
TULLAMORE LANDS



	DESIGNED BY:	M.H.H.	PROJECT No:	21264
	DRAWN BY:	Z.Z.	DATE:	SEP 2021
	CHECKED BY:	J.K.	DRAWING No.:	11 of 13
	APPROVED BY:	J.K.	ENGINEER	

LEGEND:

- PROPOSED STORM MANHOLE
- PROPOSED CATCH BASIN
- PROPOSED DOUBLE CATCH BASIN
- PROPOSED STORMCEPTOR
- PROPOSED STORM SEWER
- EXISTING CONTOUR
- PROPERTY LINE
- TRIBUTARY AREA ID NO.
- DENOTED UNCONTROLLED AREA
- LABEL BORDER: SOLID LINE (PROPOSED)
- LABEL BORDER: DASHED LINE (EXISTING)
- % IMPERVIOUS
- RUNOFF COEFFICIENT (C)
- TRIBUTARY AREA (HA)
- PROPOSED MAJOR STORM OVERLAND FLOW
- EXISTING MAJOR STORM OVERLAND FLOW