STORMWATER MANAGEMENT SUMMARY ADDENDUM

Prepared for:

PR Bridge I78 Phase II Owner Urban Renewal, LLC

Proposed Bridge Point 78
Amended Building 1 – Phase 2
Block 3401, Lot 1
Town of Phillipsburg
Warren County, NJ

Prepared by:

DYNAMIC ENGINEERING

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June 2021
DEC# 1313-99-026

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I. INTRODUCTION

The overall subject site includes Block 3401, Lots 1-9 which are a part of a redevelopment plan for the old Ingersoll Rand building and site operations. The proposed development consists of a large-scale logistics/warehouse facility with associated paved connector roadway, driveways, parking and loading areas and associated stormwater management facilities approved by the Town of Phillipsburg and the Township of Lopatcong as part of the General Development Plan and Preliminary Pad Ready Improvement Plan.

Preliminary and Final Site Plan Approval was granted on November 25, 2019 for two (2) proposed warehouse buildings, Buildings 1 and 4, and associated site improvements to be located on Lot 1 of the subject site. This approved application was referred to as Phase 2 of the overall redevelopment plan and included the proposed impervious coverage of approximately 3,120,750 square feet (71.6 acres) for the entirety of Lot 1. The Supplemental Stormwater Management Summary prepared by this office for Buildings 1 and 4 dated October 2019 still applies to the amended Phase 2 application, with the following exceptions:

- Pipe Sizing
- Impervious Coverage
- Raingardens

The current amended Phase 2 application associated with this report includes a revised Building 1 and the removal of previously proposed Building 4. This study focuses on the proposed Traditional Non-Sort Facility (Building 1) and its associated site improvements, which will be located on Lot 1 of the subject site and its impact to the stormwater management facilities which have been approved by the Town and the NJDEP.

II. IMPERVIOUS COVERAGE CALCULATIONS

The previously approved Phase 2 application included 72.6 acres of impervious coverage. The current Amended Phase 2 application includes approximately 66.5 acres of impervious coverage, resulting in a decrease of approximately 6.1 acres when compared to what was previously approved. As such, it is anticipated that the improvements included in the Amended Phase 2 plan will not negatively impact the downstream Retention Basin South, originally designed to accommodate runoff from a greater amount of impervious coverage than what is currently being proposed.

III. RAIN GARDENS

Consistent with the previously approved Phase 2 application, the Amended Phase 2 application includes proposed rain gardens designed to capture runoff generated by the proposed parking areas. Each rain garden is designed in accordance with the NJDEP BMP Manual to capture and pretreat 10% of the runoff volume generated by the water quality storm. Pretreated runoff is conveyed to the downstream conveyance system and is eventually conveyed to the Retention Basin South where it is retained and treated for 80% TSS removal. Associated calculations are included within the Appendix of this report.

APPENDIX

TYPICAL RAIN GARDEN SIZING CALCULATIONS

DYNAMIC ENGINEERING

Project:	Bridge Point 78	**Calctulated By:**	DRL
Municipality:	Town of Phillipsburg	**Checked By:**	WB
Job #:	1313-99-026	**Date:**	6/8/2021

Typical Rain Garden Sizing

BUILDING 1			
Rain Garden Type	Runoff Per Report (cuft)	Required Volume for 10% of Runoff (cuft)	Prop. Volume (cuft)
A	7042	704	800
B	4929	493	500
C	3873	387	400
D	1760	176	200

RAIN GARDEN STRUCTURE NUMBERS

Type A	Type B	Type C	Type D
538	511	548	651
	509	540	546
	507	525	544
		524	542
		510	532
			529
			527
			530
			513
			515

Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	5.237	3	66	7,042	------	------	------	Typ. A
3	SCS Runoff	3.666	3	66	4,929	------	------	------	Typ. B
5	SCS Runoff	2.880	3	66	3,873	------	------	------	Typ. C
7	SCS Runoff	1.309	3	66	1,760	------	------	------	Typ. D

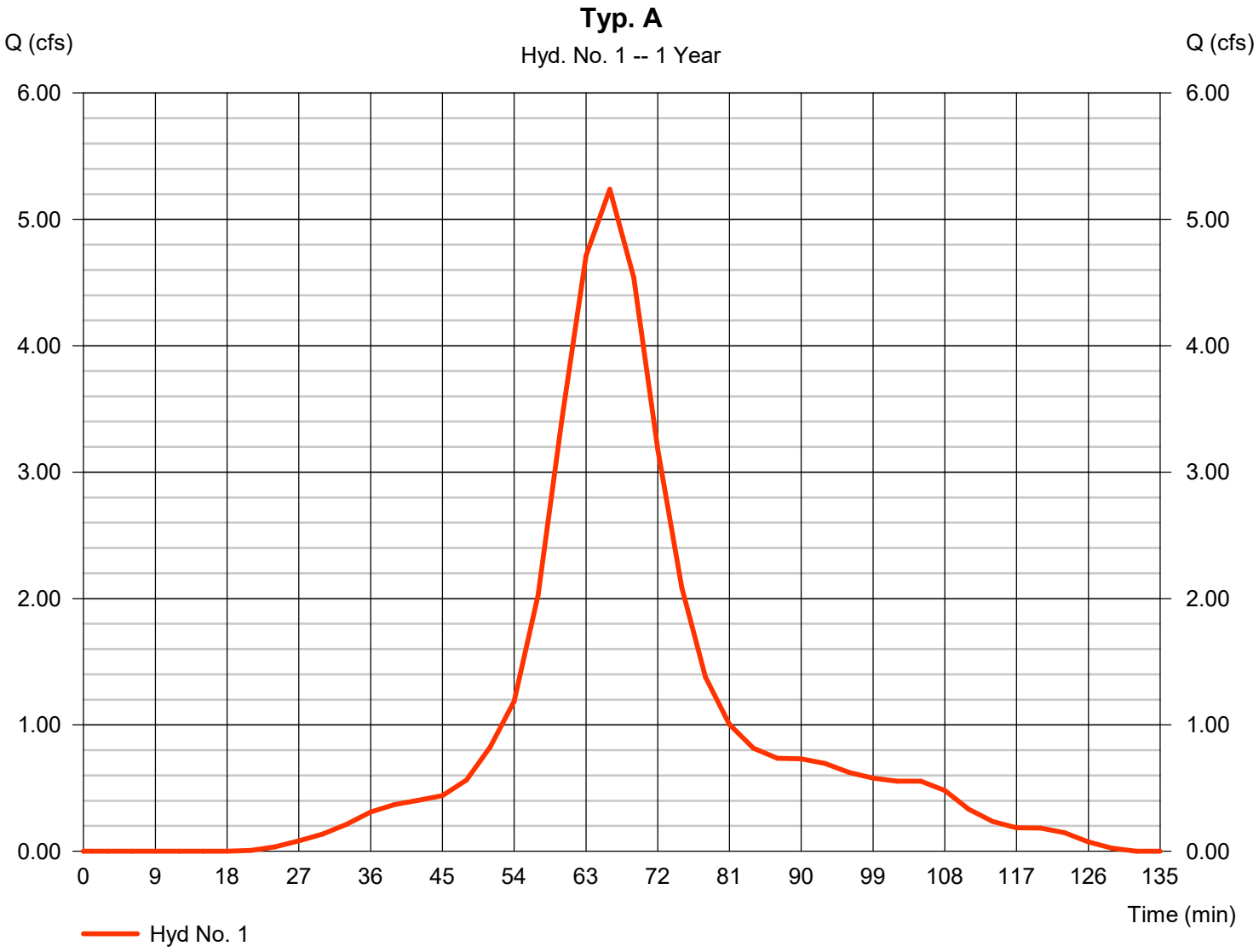
Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020 Tuesday, 06 / 8 / 2021

Hyd. No. 1

Typ. A

Hydrograph type	=	SCS Runoff	Peak discharge	=	5.237 cfs
Storm frequency	=	1 yrs	Time to peak	=	66 min
Time interval	=	3 min	Hyd. volume	=	7,042 cuft
Drainage area	=	2.000 ac	Curve number	=	98
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	6.00 min
Total precip.	=	1.25 in	Distribution	=	Custom
Storm duration	=	P:\DECPC PROJECTS\1313 Bridge Development Partners, LLC\99-019 Phillipsb	Shape Factor	=	484



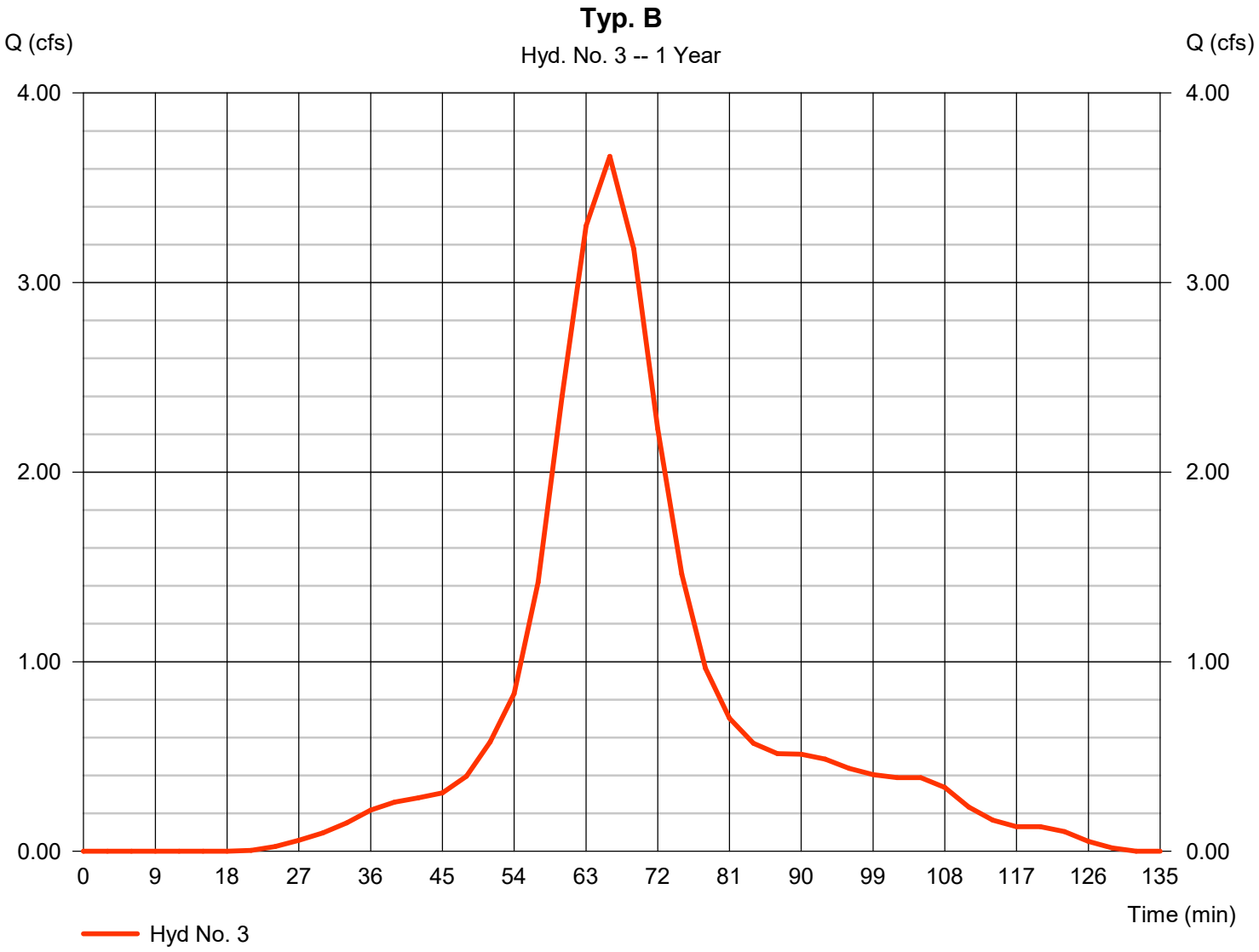
Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020 Tuesday, 06 / 8 / 2021

Hyd. No. 3

Typ. B

Hydrograph type	=	SCS Runoff	Peak discharge	=	3.666 cfs
Storm frequency	=	1 yrs	Time to peak	=	66 min
Time interval	=	3 min	Hyd. volume	=	4,929 cuft
Drainage area	=	1.400 ac	Curve number	=	98
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	6.00 min
Total precip.	=	1.25 in	Distribution	=	Custom
Storm duration	=	P:\DECPC PROJECTS\1313 Bridge Development Partners, LLC\99-019 Phillipsb	Storm Distribution	=	484



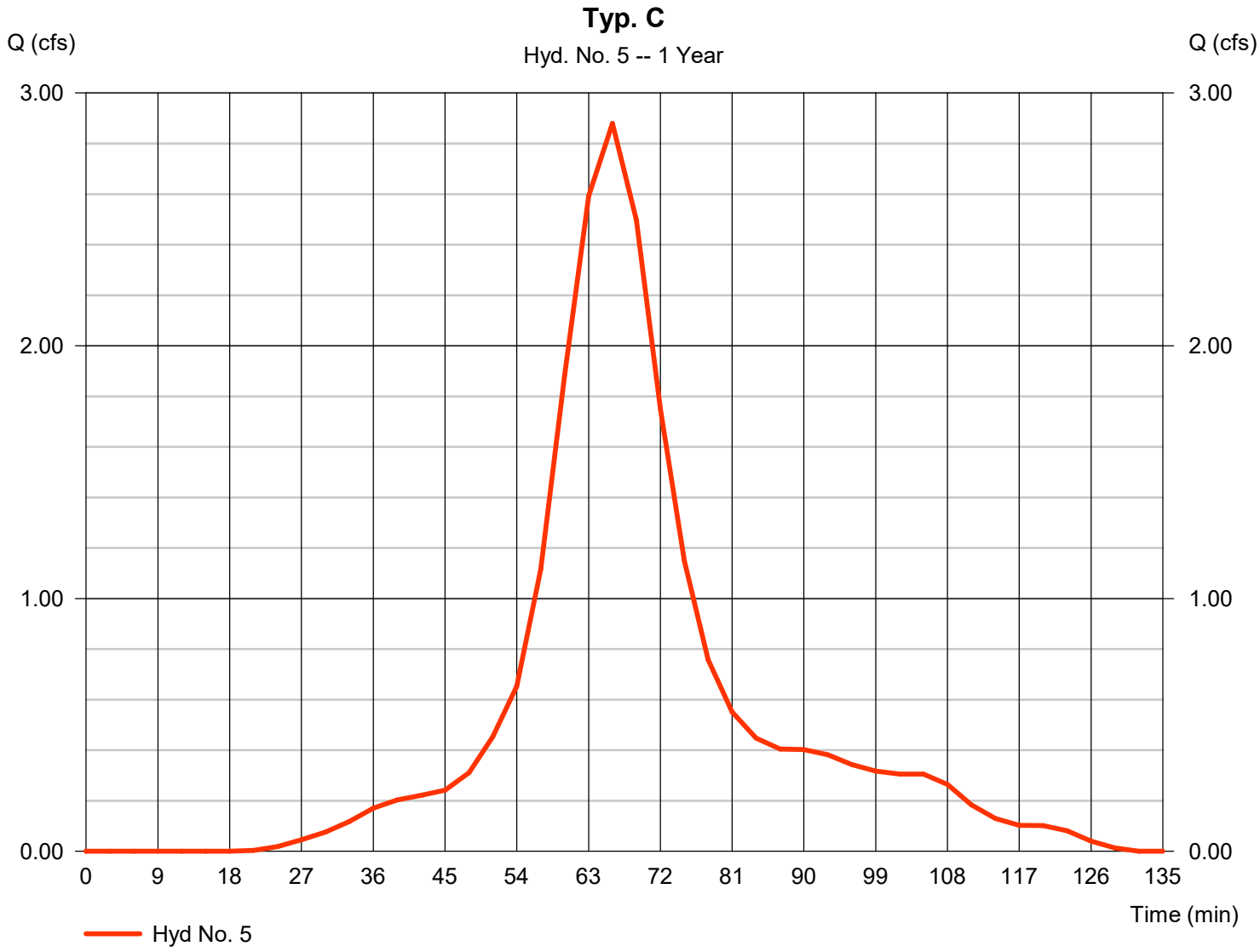
Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020 Tuesday, 06 / 8 / 2021

Hyd. No. 5

Typ. C

Hydrograph type	=	SCS Runoff	Peak discharge	=	2.880 cfs
Storm frequency	=	1 yrs	Time to peak	=	66 min
Time interval	=	3 min	Hyd. volume	=	3,873 cuft
Drainage area	=	1.100 ac	Curve number	=	98
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	6.00 min
Total precip.	=	1.25 in	Distribution	=	Custom
Storm duration	=	P:\DECPC PROJECTS\1313 Bridge Development Partners, LLC\99-019 Phillipsb	Shape Factor	=	484



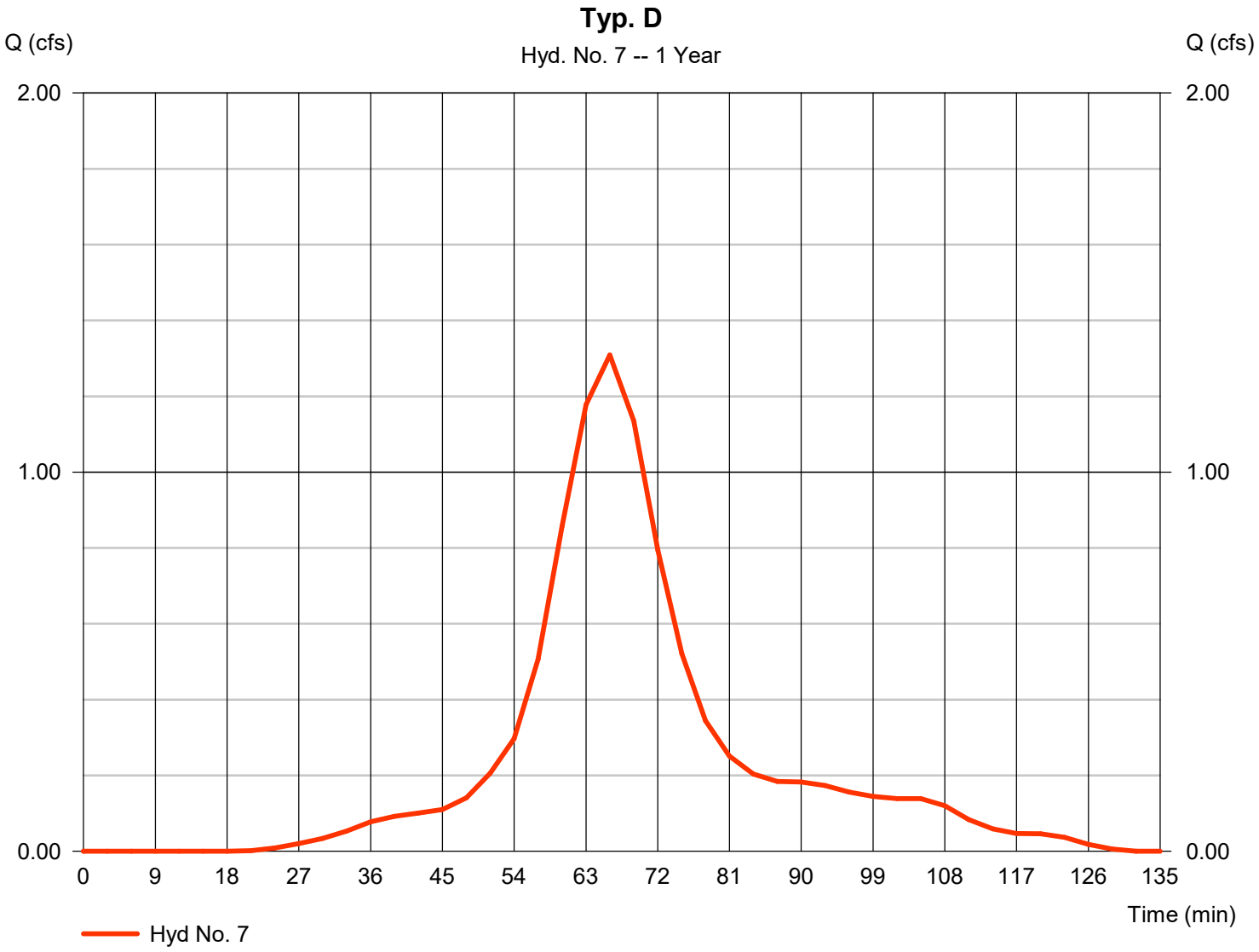
Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020 Tuesday, 06 / 8 / 2021

Hyd. No. 7

Typ. D

Hydrograph type	=	SCS Runoff	Peak discharge	=	1.309 cfs
Storm frequency	=	1 yrs	Time to peak	=	66 min
Time interval	=	3 min	Hyd. volume	=	1,760 cuft
Drainage area	=	0.500 ac	Curve number	=	98
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	6.00 min
Total precip.	=	1.25 in	Distribution	=	Custom
Storm duration	=	P:\DECPC PROJECTS\1313 Bridge Development Partners, LLC\99-019 Phillipsb	Storm	=	484



TYPICAL RIP-RAP SIZING CALCULATIONS

DYNAMIC ENGINEERING

Curb Cut Opening Rip Rap Design

Project:	Bridgepoint 78
Job #:	1313-99-026
Location:	Phillipsburg
Design Storm:	Water Quality Storm
Computed By:	DRL
Checked By:	WB
Date:	6/7/2021

Discharge Point	Typ. A	Typ. B	Typ. C	Typ. D
Q (1-yr storm cfs)	**5.237**	**3.666**	**2.880**	**1.309**
Inside Height of Outlet Culvert, Do (in)	**6**	**6**	**6**	**6**
Inside Height of Outlet Culvert, Do (ft)	0.5	0.5	0.5	0.5
Tailwater (ft)	0.100	0.100	0.100	0.100
Length of Apron, La (ft)	**11**	**9**	**7**	**5**
Width of Culvert, Wo(in)	**22**	**22**	**22**	**22**
Width of Culvert, Wo(ft)	**1.8**	**1.8**	**1.8**	**1.8**
Median Stone Diameter, D50 (ft)	**0.65**	**0.40**	**0.29**	**0.10**

Note: Use D50 of 6 inches minimum

Equations used:

D50=(0.016/TW)*((Q/Do)^(4/3))

La=((1.8*q)/(Do^0.5))+7Do

W = 3*Wo + La

W2=3*Do

Tw = 0.2*Do

STORMWATER CONVEYANCE SYSTEM CALCULATIONS (PIPE SIZING)

DYNAMIC ENGINEERING

Stormwater Collection System Calculations

Project: BP78 - BLDG 1 - East Side
Job #: 1313-99-26
Location: Phillipsburg
Design Storm: 25-Year

Computed By: DRL
Checked By: WB
Date: 5/13/2021
Revised:

NOTES:
1) Design method used is Rational Method
2) Refer to Weighted Runoff Coefficient table for calculation of incremental areas and C values

PIPE SECTION		SUBCATCHMENT AREA	INCREMENTAL		CUMULATIVE	TIME OF CONCENTRATION			I	PEAK RUNOFF		PIPING INPUT			PIPING DATA			
FROM	TO	Area (Acres)	"C"	A x C Ac	A x C (acres)	Tc to Inlet (min)	Tc in Pipe (min.)	Final Tc (min)	(In/Hr)	Q to Inlet (CFS)	Q cum. for Pipe (CFS)	Dia. (In)	Length (Ft)	Man. "n"	Slope (ft/ft)	Pipe Capacity (cfs)	Full Pipe Velocity (fps)	Actual Pipe Velocity (fps)
557	556	1.83	0.95	1.74	1.74	6.00	0.60	6.00	7.70	13.40	13.40	24	200.0	0.012	0.0050	17.33	5.52	6.29
556	555	1.82	0.95	1.73	3.47	6.00	0.52	6.60	7.59	13.13	26.33	30	200.0	0.012	0.0050	31.42	6.40	7.31
555	554	1.85	0.95	1.76	5.23	6.00	0.46	7.12	7.48	13.16	39.09	36	200.0	0.012	0.0050	51.09	7.23	8.24
554	552	1.21	0.95	1.15	6.38	6.00	0.66	7.58	7.36	8.47	46.97	36	288.0	0.012	0.0050	51.09	7.23	8.08
552	549	1.11	0.95	1.05	7.43	6.00	0.19	8.24	7.25	7.61	53.87	48	100.0	0.012	0.0050	110.04	8.76	8.70
550	549	0.15	0.95	0.14	0.14	6.00	0.33	6.00	7.70	1.08	1.08	15	80.0	0.012	0.0050	4.95	4.04	2.63
551	549	0.22	0.95	0.21	0.21	6.00	0.38	6.00	7.70	1.62	1.62	15	93.0	0.012	0.0050	4.95	4.04	3.31
549	547	0.11	0.95	0.10	7.88	6.00	0.45	8.43	7.25	0.73	57.13	48	235.0	0.012	0.0050	110.04	8.76	8.92
548	547	1.06	0.95	1.01	1.01	6.00	0.21	6.00	7.70	7.78	7.78	18	82.0	0.012	0.0100	11.38	6.44	7.19
547	536	0.09	0.95	0.09	8.98	6.00	0.42	8.88	7.14	0.64	64.09	48	223.0	0.012	0.0050	110.04	8.76	9.31
538	537	1.04	0.95	0.99	0.99	6.00	0.10	6.00	7.70	7.62	7.62	18	28.0	0.012	0.0050	8.04	4.55	5.00
540	539	0.86	0.95	0.82	0.82	6.00	0.13	6.00	7.70	6.31	6.31	18	35.0	0.012	0.0050	8.04	4.55	5.20
546	545	0.15	0.95	0.14	0.14	6.00	0.07	6.00	7.70	1.08	1.08	15	16.0	0.012	0.0050	4.95	4.04	2.63
545	543	0.00	0.95	0.00	0.14	6.00	0.25	6.07	7.70	0.00	1.08	15	61.0	0.012	0.0050	4.95	4.04	2.63
544	543	0.22	0.95	0.21	0.21	6.00	0.07	6.00	7.70	1.62	1.62	15	16.0	0.012	0.0050	4.95	4.04	3.31
543	541	0.00	0.95	0.00	0.35	6.00	0.28	6.32	7.70	0.00	2.70	15	69.0	0.012	0.0050	4.95	4.04	4.20
542	541	0.29	0.95	0.28	0.28	6.00	0.07	6.00	7.70	2.16	2.16	15	16.0	0.012	0.0050	4.95	4.04	3.82
541	539	0.00	0.95	0.00	0.63	6.00	0.33	6.60	7.59	0.00	4.78	18	89.0	0.012	0.0050	8.04	4.55	4.87
539	537	0.87	0.95	0.83	2.28	6.00	0.26	6.93	7.59	6.30	17.30	24	86.0	0.012	0.0050	17.33	5.52	5.53
537	536	0.00	0.95	0.00	3.27	6.00	0.04	7.19	7.48	0.00	24.44	24	20.0	0.012	0.0100	24.50	7.80	7.82
536	534	0.21	0.95	0.20	12.45	6.00	0.42	9.30	7.03	1.41	87.46	48	223.0	0.012	0.0050	110.04	8.76	10.00
535	534	0.51	0.95	0.48	0.48	6.00	0.31	6.00	7.70	3.70	3.70	15	74.0	0.012	0.0050	4.95	4.04	4.58
534	533	0.20	0.95	0.19	13.12	6.00	0.44	9.72	6.91	1.31	90.69	48	229.0	0.012	0.0050	110.04	8.76	10.01
533	518	0.16	0.95	0.15	13.27	6.00	0.43	10.16	6.80	1.02	90.24	48	228.0	0.012	0.0050	110.04	8.76	10.01

PIPE SECTION		SUBCATCHMENT AREA	INCREMENTAL		CUMULATIVE	TIME OF CONCENTRATION			I	PEAK RUNOFF		PIPING INPUT			PIPING DATA			
FROM	TO	Area (Acres)	"C"	A x C Ac	A x C (acres)	Tc to Inlet (min)	Tc in Pipe (min.)	Final Tc (min)	(In/Hr)	Q to Inlet (CFS)	Q cum. for Pipe (CFS)	Dia. (In)	Length (Ft)	Man. "n"	Slope (ft/ft)	Pipe Capacity (cfs)	Full Pipe Velocity (fps)	Actual Pipe Velocity (fps)
519	518	0.28	0.95	0.27	0.27	6.00	0.19	6.00	7.70	2.08	2.08	15	45.0	0.012	0.0050	4.95	4.04	3.74
532	531	0.15	0.95	0.14	0.14	6.00	0.07	6.00	7.70	1.08	1.08	15	16.0	0.012	0.0050	4.95	4.04	2.63
531	528	0.00	0.95	0.00	0.14	6.00	0.25	6.07	7.70	0.00	1.08	15	61.0	0.012	0.0050	4.95	4.04	2.63
530	528	0.26	0.95	0.25	0.25	6.00	0.15	6.00	7.70	1.93	1.93	15	37.0	0.012	0.0050	4.95	4.04	3.60
529	528	0.24	0.95	0.23	0.23	6.00	0.07	6.00	7.70	1.77	1.77	15	16.0	0.012	0.0050	4.95	4.04	3.46
528	526	0.00	0.95	0.00	0.62	6.00	0.25	6.32	7.70	0.00	4.77	18	69.0	0.012	0.0050	8.04	4.55	4.87
527	526	0.36	0.95	0.34	0.34	6.00	0.07	6.00	7.70	2.62	2.62	15	16.0	0.012	0.0050	4.95	4.04	4.14
526	523	0.00	0.95	0.00	0.96	6.00	0.24	6.57	7.59	0.00	7.28	18	66.0	0.012	0.0050	8.04	4.55	5.11
525	523	0.95	0.95	0.90	0.90	6.00	0.05	6.00	7.70	6.93	6.93	18	15.0	0.012	0.0050	8.04	4.55	5.19
524	523	0.55	0.95	0.52	0.52	6.00	0.17	6.00	7.70	4.00	4.00	15	40.0	0.012	0.0050	4.95	4.04	4.61
523	522	0.46	0.95	0.44	2.82	6.00	0.14	6.81	7.59	3.34	21.40	24	67.0	0.012	0.0100	24.50	7.80	8.87
522	520	1.12	0.95	1.06	3.88	6.00	0.35	6.95	7.59	8.04	29.44	24	201.0	0.012	0.0150	30.01	9.56	10.17
518	516	0.28	0.95	0.27	19.53	6.00	0.43	10.59	6.68	1.80	130.46	48	284.0	0.012	0.0080	139.18	11.08	12.25
517	516	1.05	0.95	1.00	1.00	6.00	0.06	6.00	7.70	7.70	7.70	18	25.0	0.012	0.0100	11.38	6.44	7.19
501	500	0.23	0.95	0.22	0.22	6.00	0.22	6.00	7.70	1.69	1.69	15	53.0	0.012	0.0050	4.95	4.04	3.36
515	514	0.45	0.95	0.43	0.43	6.00	0.06	6.00	7.70	3.31	3.31	15	20.0	0.012	0.0100	7.00	5.71	5.56
514	512	0.00	0.95	0.00	0.43	6.00	0.53	6.06	7.70	0.00	3.31	15	180.0	0.012	0.0100	7.00	5.71	5.56
513	512	0.45	0.95	0.43	0.43	6.00	0.06	6.00	7.70	3.31	3.31	15	20.0	0.012	0.0100	7.00	5.71	5.56
512	506	0.00	0.95	0.00	0.86	6.00	0.30	6.59	7.59	0.00	6.53	24	101.0	0.012	0.0050	17.33	5.52	4.86
510	511	1.00	0.95	0.95	0.95	6.00	0.23	6.00	7.70	7.32	7.32	18	62.0	0.012	0.0050	8.04	4.55	5.11
511	505	1.30	0.95	1.24	2.19	6.00	0.25	6.23	7.70	9.55	16.86	24	84.0	0.012	0.0050	17.33	5.52	5.95
509	508	1.28	0.95	1.22	1.22	6.00	0.06	6.00	7.70	9.39	9.39	18	23.0	0.012	0.0100	11.38	6.44	7.36
508	506	0.00	0.95	0.00	1.22	6.00	0.46	6.06	7.70	0.00	9.39	18	178.0	0.012	0.0100	11.38	6.44	7.36
507	506	1.33	0.95	1.26	1.26	6.00	0.05	6.00	7.70	9.70	9.70	18	19.0	0.012	0.0100	11.38	6.44	7.43
506	505	0.00	0.95	0.00	3.34	6.00	0.17	6.89	7.59	0.00	25.34	24	85.0	0.012	0.0120	26.84	8.55	9.45
505	504	0.00	0.95	0.00	5.53	6.00	0.08	7.06	7.48	0.00	41.34	30	46.0	0.012	0.0100	44.43	9.06	10.07
504	503	1.09	0.95	1.04	6.57	6.00	0.32	7.14	7.48	7.77	49.11	30	213.0	0.012	0.0150	54.41	11.09	12.50
503	500	1.02	0.95	0.97	7.54	6.00	0.04	7.46	7.48	7.25	56.36	36	21.0	0.012	0.0075	62.57	8.86	9.98
500	220	0.60	0.95	0.57	28.96	6.00	0.07	11.28	6.56	3.74	189.98	60	44.0	0.012	0.0050	199.52	10.17	11.15

DYNAMIC ENGINEERING

Stormwater Collection System Calculations

Project: BP78 - BLDG 1 - East Side
Job #: 1313-99-26
Location: Phillipsburg
Design Storm: 25-Year

Computed By: DRL
Checked By: WB
Date: 5/13/2021
Revised:

NOTES:
1) Design method used is Rational Method
2) Refer to Weighted Runoff Coefficient table for calculation of incremental areas and C values

PIPE SECTION		SUBCATCHMENT AREA	INCREMENTAL		CUMULATIVE	TIME OF CONCENTRATION			I	PEAK RUNOFF		PIPING INPUT			PIPING DATA			
FROM	TO	Area (Acres)	"C"	A x C Ac	A x C (acres)	Tc to Inlet (min)	Tc in Pipe (min.)	Final Tc (min)	(In/Hr)	Q to Inlet (CFS)	Q cum. for Pipe (CFS)	Dia. (In)	Length (Ft)	Man. "n"	Slope (ft/ft)	Pipe Capacity (cfs)	Full Pipe Velocity (fps)	Actual Pipe Velocity (fps)
R36	655	0.41	0.95	0.39	0.39	6.00	0.07	6.00	7.70	3.00	3.00	12	20.0	0.012	0.0100	3.86	4.92	5.61
655	654	0.00	0.95	0.00	0.39	6.00	0.25	6.07	7.70	0.00	3.00	15	61.0	0.012	0.0050	4.95	4.04	4.36
R37	654	0.41	0.95	0.39	0.39	6.00	0.07	6.00	7.70	3.00	3.00	12	20.0	0.012	0.0100	3.86	4.92	5.61
654	653	0.00	0.95	0.00	0.78	6.00	0.21	6.32	7.70	0.00	6.01	18	57.0	0.012	0.0050	8.04	4.55	5.18
R38	653	0.41	0.95	0.39	0.39	6.00	0.07	6.00	7.70	3.00	3.00	12	20.0	0.012	0.0100	3.86	4.92	5.61
653	652	0.00	0.95	0.00	1.17	6.00	0.17	6.53	7.59	0.00	8.88	24	57.0	0.012	0.0050	17.33	5.52	5.58
R39	652	0.41	0.95	0.39	0.39	6.00	0.04	6.00	7.70	3.00	3.00	24	20.0	0.012	0.0100	24.50	7.80	3.52
652	651	0.00	0.95	0.00	1.56	6.00	0.17	6.70	7.59	0.00	11.84	24	57.0	0.012	0.0050	17.33	5.52	6.16
R40	651	0.41	0.95	0.39	0.39	6.00	0.07	6.00	7.70	3.00	3.00	12	20.0	0.012	0.0100	3.86	4.92	5.61
651	650	0.00	0.95	0.00	1.95	6.00	0.17	6.87	7.59	0.00	14.80	24	57.0	0.012	0.0050	17.33	5.52	6.37
R41	650	0.41	0.95	0.39	0.39	6.00	0.07	6.00	7.70	3.00	3.00	12	20.0	0.012	0.0100	3.86	4.92	5.61
650	649	0.00	0.95	0.00	2.34	6.00	0.16	7.04	7.48	0.00	17.49	24	57.0	0.012	0.0060	18.98	6.04	6.76
R42	649	0.41	0.95	0.39	0.39	6.00	0.07	6.00	7.70	3.00	3.00	12	20.0	0.012	0.0100	3.86	4.92	5.61
649	648	0.00	0.95	0.00	2.73	6.00	0.15	7.20	7.48	0.00	20.41	24	57.0	0.012	0.0070	20.50	6.53	6.54
R43	648	0.41	0.95	0.39	0.39	6.00	0.07	6.00	7.70	3.00	3.00	12	20.0	0.012	0.0100	3.86	4.92	5.61
648	647	0.00	0.95	0.00	3.12	6.00	0.27	7.35	7.48	0.00	23.32	24	128.0	0.012	0.0100	24.50	7.80	8.56
647	639	0.00	0.95	0.00	3.12	6.00	0.42	7.62	7.36	0.00	22.97	24	195.0	0.012	0.0100	24.50	7.80	8.63
R44	644	0.41	0.95	0.39	0.39	6.00	0.07	6.00	7.70	3.00	3.00	12	20.0	0.012	0.0100	3.86	4.92	5.61
644	643	0.00	0.95	0.00	0.39	6.00	0.19	6.07	7.70	0.00	3.00	12	57.0	0.012	0.0100	3.86	4.92	5.61
R45	643	0.41	0.95	0.39	0.39	6.00	0.07	6.00	7.70	3.00	3.00	12	20.0	0.012	0.0100	3.86	4.92	5.61
643	642	0.00	0.95	0.00	0.78	6.00	0.17	6.26	7.70	0.00	6.01	15	57.0	0.012	0.0100	7.00	5.71	6.49
R46	642	0.41	0.95	0.39	0.39	6.00	0.07	6.00	7.70	3.00	3.00	12	20.0	0.012	0.0100	3.86	4.92	5.61
642	640	0.00	0.95	0.00	1.17	6.00	0.12	6.43	7.70	0.00	9.01	15	57.0	0.012	0.0200	9.89	8.06	9.06
R47	640	0.41	0.95	0.39	0.39	6.00	0.07	6.00	7.70	3.00	3.00	12	20.0	0.012	0.0100	3.86	4.92	5.61

PIPE SECTION		SUBCATCHMENT AREA	INCREMENTAL		CUMULATIVE	TIME OF CONCENTRATION			I	PEAK RUNOFF		PIPING INPUT			PIPING DATA			
FROM	TO	Area (Acres)	"C"	A x C Ac	A x C (acres)	Tc to Inlet (min)	Tc in Pipe (min.)	Final Tc (min)	(In/Hr)	Q to Inlet (CFS)	Q cum. for Pipe (CFS)	Dia. (In)	Length (Ft)	Man. "n"	Slope (ft/ft)	Pipe Capacity (cfs)	Full Pipe Velocity (fps)	Actual Pipe Velocity (fps)
R48	641	0.41	0.95	0.39	0.39	6.00	0.07	6.00	7.70	3.00	3.00	12	20.0	0.012	0.0100	3.86	4.92	5.61
641	640	0.00	0.95	0.00	0.39	6.00	0.19	6.07	7.70	0.00	3.00	12	57.0	0.012	0.0100	3.86	4.92	5.61
640	639	0.00	0.95	0.00	1.95	6.00	0.22	6.55	7.59	0.00	14.80	18	119.0	0.012	0.0200	16.09	9.11	10.18
639	635	0.00	0.95	0.00	5.07	6.00	0.48	8.04	7.25	0.00	36.76	36	209.0	0.012	0.0050	51.09	7.23	8.16
R49	637	0.90	0.95	0.86	0.86	6.00	0.05	6.00	7.70	6.62	6.62	15	18.0	0.012	0.0100	7.00	5.71	6.26
637	636	0.00	0.95	0.00	0.86	6.00	0.20	6.05	7.70	0.00	6.62	15	70.0	0.012	0.0100	7.00	5.71	6.26
R50	636	0.69	0.95	0.66	0.66	6.00	0.05	6.00	7.70	5.08	5.08	15	16.0	0.012	0.0100	7.00	5.71	6.45
636	635	0.00	0.95	0.00	1.52	6.00	0.06	6.25	7.70	0.00	11.70	18	28.0	0.012	0.0150	13.93	7.89	9.01
635	630	0.00	0.95	0.00	6.59	6.00	0.50	8.52	7.14	0.00	47.04	36	218.0	0.012	0.0050	51.09	7.23	8.08
R51	634	0.75	0.95	0.71	0.71	6.00	0.04	6.00	7.70	5.47	5.47	15	13.0	0.012	0.0100	7.00	5.71	6.51
634	633	0.00	0.95	0.00	0.71	6.00	0.23	6.04	7.70	0.00	5.47	15	78.0	0.012	0.0100	7.00	5.71	6.51
R52	633	0.67	0.95	0.64	0.64	6.00	0.05	6.00	7.70	4.93	4.93	15	18.0	0.012	0.0100	7.00	5.71	6.40
633	631	0.00	0.95	0.00	1.35	6.00	0.18	6.27	7.70	0.00	10.40	18	70.0	0.012	0.0100	11.38	6.44	7.23
R53	632	0.72	0.95	0.68	0.68	6.00	0.05	6.00	7.70	5.24	5.24	15	18.0	0.012	0.0100	7.00	5.71	6.48
631	630	0.00	0.95	0.00	1.35	6.00	0.05	6.45	7.70	0.00	10.40	18	28.0	0.012	0.0212	16.56	9.38	10.23
630	621	0.00	0.95	0.00	7.94	6.00	0.70	9.02	7.03	0.00	55.78	36	384.0	0.012	0.0080	64.62	9.15	10.41
R54	627	0.41	0.95	0.39	0.39	6.00	0.07	6.00	7.70	3.00	3.00	12	20.0	0.012	0.0100	3.86	4.92	5.61
627	626	0.00	0.95	0.00	0.39	6.00	0.19	6.07	7.70	0.00	3.00	12	57.0	0.012	0.0100	3.86	4.92	5.61
R55	626	0.41	0.95	0.39	0.39	6.00	0.07	6.00	7.70	3.00	3.00	12	20.0	0.012	0.0100	3.86	4.92	5.61
626	625	0.00	0.95	0.00	0.78	6.00	0.17	6.26	7.70	0.00	6.01	15	57.0	0.012	0.0100	7.00	5.71	6.49
R56	625	0.41	0.95	0.39	0.39	6.00	0.07	6.00	7.70	3.00	3.00	12	20.0	0.012	0.0100	3.86	4.92	5.61
625	624	0.00	0.95	0.00	1.17	6.00	0.12	6.43	7.70	0.00	9.01	15	57.0	0.012	0.0200	9.89	8.06	9.06
R57	624	0.41	0.95	0.39	0.39	6.00	0.07	6.00	7.70	3.00	3.00	12	20.0	0.012	0.0100	3.86	4.92	5.61
624	623	0.00	0.95	0.00	1.56	6.00	0.12	6.55	7.59	0.00	11.84	18	57.0	0.012	0.0150	13.93	7.89	9.10
R58	623	0.41	0.95	0.39	0.39	6.00	0.07	6.00	7.70	3.00	3.00	12	20.0	0.012	0.0100	3.86	4.92	5.61
623	622	0.00	0.95	0.00	1.95	6.00	0.12	6.67	7.59	0.00	14.80	24	57.0	0.012	0.0100	24.50	7.80	8.39
R59	622	0.41	0.95	0.39	0.39	6.00	0.07	6.00	7.70	3.00	3.00	12	20.0	0.012	0.0100	3.86	4.92	5.61
622	621	0.00	0.95	0.00	2.34	6.00	0.26	6.79	7.59	0.00	17.75	24	124.0	0.012	0.0100	24.50	7.80	8.80
621	614	0.00	0.95	0.00	10.28	6.00	0.57	9.72	6.91	0.00	71.06	48	300.0	0.012	0.0050	110.04	8.76	9.65
R60	619	0.41	0.95	0.39	0.39	6.00	0.07	6.00	7.70	3.00	3.00	12	20.0	0.012	0.0100	3.86	4.92	5.61
619	618	0.00	0.95	0.00	0.39	6.00	0.19	6.07	7.70	0.00	3.00	12	57.0	0.012	0.0100	3.86	4.92	5.61
R61	618	0.41	0.95	0.39	0.39	6.00	0.07	6.00	7.70	3.00	3.00	12	20.0	0.012	0.0100	3.86	4.92	5.61
618	617	0.00	0.95	0.00	0.78	6.00	0.17	6.26	7.70	0.00	6.01	15	57.0	0.012	0.0100	7.00	5.71	6.49
R62	617	0.41	0.95	0.39	0.39	6.00	0.07	6.00	7.70	3.00	3.00	12	20.0	0.012	0.0100	3.86	4.92	5.61
617	616	0.00	0.95	0.00	1.17	6.00	0.12	6.43	7.70	0.00	9.01	15	57.0	0.012	0.0200	9.89	8.06	9.06
R63	616	0.41	0.95	0.39	0.39	6.00	0.07	6.00	7.70	3.00	3.00	12	20.0	0.012	0.0100	3.86	4.92	5.61
616	615	0.00	0.95	0.00	1.56	6.00	0.12	6.55	7.59	0.00	11.84	18	57.0	0.012	0.0150	13.93	7.89	9.10
R64	615	0.41	0.95	0.39	0.39	6.00	0.07	6.00	7.70	3.00	3.00	12	20.0	0.012	0.0100	3.86	4.92	5.61
615	614	0.00	0.95	0.00	1.95	6.00	0.28	6.67	7.59	0.00	14.80	24	129.0	0.012	0.0100	24.50	7.80	8.39

PIPE SECTION		SUBCATCHMENT AREA	INCREMENTAL		CUMULATIVE	TIME OF CONCENTRATION			I	PEAK RUNOFF		PIPING INPUT			PIPING DATA			
FROM	TO	Area (Acres)	"C"	A x C Ac	A x C (acres)	Tc to Inlet (min)	Tc in Pipe (min.)	Final Tc (min)	(In/Hr)	Q to Inlet (CFS)	Q cum. for Pipe (CFS)	Dia. (In)	Length (Ft)	Man. "n"	Slope (ft/ft)	Pipe Capacity (cfs)	Full Pipe Velocity (fps)	Actual Pipe Velocity (fps)
614	608	0.00	0.95	0.00	12.23	6.00	0.37	10.29	6.80	0.00	83.16	48	194.0	0.012	0.0050	110.04	8.76	9.97
R65	612	0.41	0.95	0.39	0.39	6.00	0.07	6.00	7.70	3.00	3.00	12	20.0	0.012	0.0100	3.86	4.92	5.61
612	611	0.00	0.95	0.00	0.39	6.00	0.19	6.07	7.70	0.00	3.00	12	57.0	0.012	0.0100	3.86	4.92	5.61
R66	611	0.41	0.95	0.39	0.39	6.00	0.07	6.00	7.70	3.00	3.00	12	20.0	0.012	0.0100	3.86	4.92	5.61
611	610	0.00	0.95	0.00	0.78	6.00	0.16	6.26	7.70	0.00	6.01	15	56.0	0.012	0.0100	7.00	5.71	6.49
R67	610	0.41	0.95	0.39	0.39	6.00	0.07	6.00	7.70	3.00	3.00	12	20.0	0.012	0.0100	3.86	4.92	5.61
610	609	0.00	0.95	0.00	1.17	6.00	0.11	6.42	7.70	0.00	9.01	15	51.0	0.012	0.0200	9.89	8.06	9.06
R68	609	0.36	0.95	0.34	0.34	6.00	0.07	6.00	7.70	2.62	2.62	12	20.0	0.012	0.0100	3.86	4.92	5.48
609	608	0.00	0.95	0.00	1.51	6.00	0.26	6.53	7.59	0.00	11.46	18	122.0	0.012	0.0150	13.93	7.89	9.02
608	600	0.00	0.95	0.00	13.74	6.00	0.48	10.66	6.68	0.00	91.78	48	252.0	0.012	0.0050	110.04	8.76	10.00
606	605	0.24	0.95	0.23	0.23	6.00	0.62	6.00	7.70	1.77	1.77	15	151.0	0.012	0.0050	4.95	4.04	3.46
605	603	0.39	0.95	0.37	0.60	6.00	0.14	6.62	7.59	2.81	4.55	15	34.0	0.012	0.0050	4.95	4.04	4.51
604	603	1.30	0.95	1.24	1.24	6.00	0.52	6.00	7.70	9.55	9.55	18	200.0	0.012	0.0100	11.38	6.44	7.35
603	601	0.91	0.95	0.86	2.70	6.00	0.33	6.76	7.59	6.53	20.49	24	155.0	0.012	0.0100	24.50	7.80	8.91
601	600	0.94	0.95	0.89	3.59	6.00	0.24	7.09	7.48	6.65	26.84	24	140.0	0.012	0.0150	30.01	9.56	10.81
600	311	0.00	0.95	0.00	17.33	6.00	0.03	11.14	6.56	0.00	113.68	48	24.0	0.012	0.0100	155.61	12.39	14.01
0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.0	0.000	0.0000	0.00	0.00	0.00
309	310	0.06	0.95	0.06	0.06	6.00	0.09	6.00	7.70	0.46	0.46	15	30.0	0.012	0.0100	7.00	5.71	1.83
310	311	0.38	0.95	0.36	0.42	6.00	0.16	6.09	7.70	2.77	3.23	15	54.0	0.012	0.0100	7.00	5.71	5.51

DYNAMIC ENGINEERING

Stormwater Collection System Calculations

Project: BP78 - BLDG 1 - West Side
Job #: 1313-99-26
Location: Phillipsburg
Design Storm: 25 Year

Computed By: DRL
Checked By: WB
Date: 5/13/2021
Revised:

NOTES:
1) Design method used is Rational Method
2) Refer to Weighted Runoff Coefficient table for calculation of incremental areas and C values

PIPE SECTION		SUBCATCHMENT AREA	INCREMENTAL		CUMULATIVE	TIME OF CONCENTRATION			I	PEAK RUNOFF		PIPING INPUT			PIPING DATA			
FROM	TO	Area (Acres)	"C"	A x C Ac	A x C (acres)	Tc to Inlet (min)	Tc in Pipe (min.)	Final Tc (min)	(In/Hr)	Q to Inlet (CFS)	Q cum. for Pipe (CFS)	Dia. (In)	Length (Ft)	Man. "n"	Slope (ft/ft)	Pipe Capacity (cfs)	Full Pipe Velocity (fps)	Actual Pipe Velocity (fps)
771	770	0.12	0.95	0.11	0.11	6.00	0.09	6.00	7.70	0.85	0.85	15	30.0	0.012	0.0100	7.00	5.71	2.57
770	768	0.13	0.95	0.12	0.23	6.00	0.35	6.09	7.70	0.92	1.77	15	119.0	0.012	0.0100	7.00	5.71	4.01
768	767	0.51	0.95	0.48	0.71	6.00	0.48	6.44	7.70	3.70	5.47	30	203.0	0.012	0.0060	34.41	7.01	3.78
767	761	0.19	0.95	0.18	0.89	6.00	0.17	6.92	7.59	1.37	6.75	30	71.0	0.012	0.0060	34.41	7.01	4.32
R1	765	0.41	0.95	0.39	0.39	6.00	0.05	6.00	7.70	3.00	3.00	12	20.0	0.012	0.0170	5.03	6.41	6.89
765	762	0.00	0.95	0.00	0.39	6.00	0.28	6.05	7.70	0.00	3.00	12	83.0	0.012	0.0100	3.86	4.92	5.61
R2	762	0.41	0.95	0.39	0.39	6.00	0.27	6.00	7.70	3.00	3.00	12	80.0	0.012	0.0100	3.86	4.92	5.61
R3	763	0.41	0.95	0.39	0.39	6.00	0.17	6.00	7.70	3.00	3.00	12	50.0	0.012	0.0100	3.86	4.92	5.61
R4	764	0.41	0.95	0.39	0.39	6.00	0.07	6.00	7.70	3.00	3.00	12	20.0	0.012	0.0100	3.86	4.92	5.61
764	763	0.00	0.95	0.00	0.39	6.00	0.22	6.07	7.70	0.00	3.00	12	64.0	0.012	0.0100	3.86	4.92	5.61
763	762	0.00	0.95	0.00	0.78	6.00	0.15	6.29	7.70	0.00	6.01	15	64.0	0.012	0.0150	8.57	6.99	7.84
762	761	0.00	0.95	0.00	1.56	6.00	0.32	6.44	7.70	0.00	12.01	24	106.0	0.012	0.0050	17.33	5.52	6.18
761	759	1.23	0.95	1.17	3.62	6.00	0.46	7.09	7.48	8.75	27.06	36	200.0	0.012	0.0050	51.09	7.23	7.42
760	759	0.47	0.95	0.45	0.45	6.00	0.06	6.00	7.70	3.47	3.47	15	20.0	0.012	0.0100	7.00	5.71	5.72
759	749	0.91	0.95	0.86	4.93	6.00	0.46	7.55	7.36	6.33	36.30	36	200.0	0.012	0.0050	51.09	7.23	8.14
750	749	0.15	0.95	0.14	0.14	6.00	0.06	6.00	7.70	1.08	1.08	15	20.0	0.012	0.0100	7.00	5.71	2.96
R5	758	0.41	0.95	0.39	0.39	6.00	0.22	6.00	7.70	3.00	3.00	12	65.0	0.012	0.0100	3.86	4.92	5.61
758	757	0.00	0.95	0.00	0.39	6.00	0.19	6.22	7.70	0.00	3.00	12	57.0	0.012	0.0100	3.86	4.92	5.61
R6	757	0.41	0.95	0.39	0.39	6.00	0.22	6.00	7.70	3.00	3.00	12	65.0	0.012	0.0100	3.86	4.92	5.61
757	756	0.00	0.95	0.00	0.78	6.00	0.17	6.41	7.70	0.00	6.01	15	57.0	0.012	0.0100	7.00	5.71	6.49
R7	756	0.41	0.95	0.39	0.39	6.00	0.22	6.00	7.70	3.00	3.00	12	65.0	0.012	0.0100	3.86	4.92	5.61
756	755	0.00	0.95	0.00	1.17	6.00	0.15	6.58	7.59	0.00	8.88	18	57.0	0.012	0.0100	11.38	6.44	7.35
R8	755	0.41	0.95	0.39	0.39	6.00	0.22	6.00	7.70	3.00	3.00	12	65.0	0.012	0.0100	3.86	4.92	5.61
755	752	0.00	0.95	0.00	1.56	6.00	0.14	6.73	7.59	0.00	11.84	18	60.0	0.012	0.0120	12.46	7.05	7.74

PIPE SECTION		SUBCATCHMENT AREA	INCREMENTAL		CUMULATIVE	TIME OF CONCENTRATION			I	PEAK RUNOFF		PIPING INPUT			PIPING DATA			
FROM	TO	Area (Acres)	"C"	A x C Ac	A x C (acres)	Tc to Inlet (min)	Tc in Pipe (min.)	Final Tc (min)	(In/Hr)	Q to Inlet (CFS)	Q cum. for Pipe (CFS)	Dia. (In)	Length (Ft)	Man. "n"	Slope (ft/ft)	Pipe Capacity (cfs)	Full Pipe Velocity (fps)	Actual Pipe Velocity (fps)
R9	752	0.41	0.95	0.39	0.39	6.00	0.72	6.00	7.70	3.00	3.00	12	80.0	0.012	0.0025	0.65	1.86	#N/A
R10	753	0.41	0.95	0.39	0.39	6.00	0.17	6.00	7.70	3.00	3.00	12	50.0	0.012	0.0100	3.86	4.92	5.61
R11	754	0.41	0.95	0.39	0.39	6.00	0.07	6.00	7.70	3.00	3.00	12	20.0	0.012	0.0100	3.86	4.92	5.61
754	753	0.00	0.95	0.00	0.39	6.00	0.22	6.07	7.70	0.00	3.00	12	64.0	0.012	0.0100	3.86	4.92	5.61
753	752	0.00	0.95	0.00	0.78	6.00	0.13	6.29	7.70	0.00	6.01	15	64.0	0.012	0.0200	9.89	8.06	8.71
752	749	0.00	0.95	0.00	2.73	6.00	0.19	6.87	7.59	0.00	20.71	24	107.0	0.012	0.0140	28.99	9.23	10.39
749	747	0.91	0.95	0.86	8.66	6.00	0.38	8.01	7.25	6.24	62.79	48	200.0	0.012	0.0050	110.04	8.76	9.25
747	734	0.91	0.95	0.86	9.52	6.00	0.38	8.39	7.25	6.24	69.02	48	200.0	0.012	0.0050	110.04	8.76	9.56
735	734	0.23	0.95	0.22	0.22	6.00	0.06	6.00	7.70	1.69	1.69	15	20.0	0.012	0.0100	7.00	5.71	3.91
R12	745	0.41	0.95	0.39	0.39	6.00	0.10	6.00	7.70	3.00	3.00	12	30.0	0.012	0.0100	3.86	4.92	5.61
745	744	0.00	0.95	0.00	0.39	6.00	0.19	6.10	7.70	0.00	3.00	12	57.0	0.012	0.0100	3.86	4.92	5.61
R13	744	0.41	0.95	0.39	0.39	6.00	0.10	6.00	7.70	3.00	3.00	12	30.0	0.012	0.0100	3.86	4.92	5.61
744	743	0.00	0.95	0.00	0.78	6.00	0.17	6.29	7.70	0.00	6.01	15	57.0	0.012	0.0100	7.00	5.71	6.49
R14	743	0.41	0.95	0.39	0.39	6.00	0.10	6.00	7.70	3.00	3.00	12	30.0	0.012	0.0100	3.86	4.92	5.61
743	742	0.00	0.95	0.00	1.17	6.00	0.15	6.46	7.70	0.00	9.01	18	57.0	0.012	0.0100	11.38	6.44	7.36
R15	742	0.41	0.95	0.39	0.39	6.00	0.10	6.00	7.70	3.00	3.00	12	30.0	0.012	0.0100	3.86	4.92	5.61
742	741	0.00	0.95	0.00	1.56	6.00	0.13	6.61	7.59	0.00	11.84	18	57.0	0.012	0.0120	12.46	7.05	7.74
R16	741	0.41	0.95	0.39	0.39	6.00	0.10	6.00	7.70	3.00	3.00	12	30.0	0.012	0.0100	3.86	4.92	5.61
741	734	0.00	0.95	0.00	3.12	6.00	0.29	6.74	7.59	0.00	23.67	24	158.0	0.012	0.0140	28.99	9.23	10.55
R19	740	0.41	0.95	0.39	0.39	6.00	0.07	6.00	7.70	3.00	3.00	12	20.0	0.012	0.0100	3.86	4.92	5.61
740	739	0.00	0.95	0.00	0.39	6.00	0.20	6.07	7.70	0.00	3.00	12	60.0	0.012	0.0100	3.86	4.92	5.61
R18	739	0.41	0.95	0.39	0.39	6.00	0.07	6.00	7.70	3.00	3.00	12	22.0	0.012	0.0100	3.86	4.92	5.61
739	738	0.00	0.95	0.00	0.78	6.00	0.17	6.27	7.70	0.00	6.01	15	58.0	0.012	0.0100	7.00	5.71	6.49
R17	738	0.41	0.95	0.39	0.39	6.00	0.08	6.00	7.70	3.00	3.00	12	24.0	0.012	0.0100	3.86	4.92	5.61
738	741	0.00	0.95	0.00	1.17	6.00	0.16	6.44	7.70	0.00	9.01	18	61.0	0.012	0.0100	11.38	6.44	7.36
734	732	0.91	0.95	0.86	13.72	6.00	0.38	8.77	7.14	6.14	97.93	48	200.0	0.012	0.0050	110.04	8.76	9.90
733	732	0.20	0.95	0.19	0.19	6.00	0.06	6.00	7.70	1.46	1.46	15	20.0	0.012	0.0100	7.00	5.71	3.62
732	730	0.91	0.95	0.86	14.77	6.00	0.38	9.15	7.03	6.04	103.76	48	200.0	0.012	0.0050	110.04	8.76	9.68
731	730	0.40	0.95	0.38	0.38	6.00	0.06	6.00	7.70	2.93	2.93	15	20.0	0.012	0.0100	7.00	5.71	5.28
730	720	0.91	0.95	0.86	16.01	6.00	0.33	9.53	6.91	5.94	110.67	60	200.0	0.012	0.0050	199.52	10.17	10.59
R20	729	0.41	0.95	0.39	0.39	6.00	0.07	6.00	7.70	3.00	3.00	12	20.0	0.012	0.0100	3.86	4.92	5.61
729	728	0.00	0.95	0.00	0.39	6.00	0.19	6.07	7.70	0.00	3.00	12	57.0	0.012	0.0100	3.86	4.92	5.61
R21	728	0.41	0.95	0.39	0.39	6.00	0.07	6.00	7.70	3.00	3.00	12	20.0	0.012	0.0100	3.86	4.92	5.61
728	727	0.00	0.95	0.00	0.78	6.00	0.17	6.26	7.70	0.00	6.01	15	57.0	0.012	0.0100	7.00	5.71	6.49
R22	727	0.41	0.95	0.39	0.39	6.00	0.07	6.00	7.70	3.00	3.00	12	20.0	0.012	0.0100	3.86	4.92	5.61
727	726	0.00	0.95	0.00	1.17	6.00	0.05	6.43	7.70	0.00	9.01	18	20.0	0.012	0.0100	11.38	6.44	7.36
R23	726	0.41	0.95	0.39	0.39	6.00	0.07	6.00	7.70	3.00	3.00	12	20.0	0.012	0.0100	3.86	4.92	5.61
726	725	0.00	0.95	0.00	1.56	6.00	0.13	6.48	7.70	0.00	12.01	18	57.0	0.012	0.0120	12.46	7.05	7.68
R24	725	0.41	0.95	0.39	0.39	6.00	0.07	6.00	7.70	3.00	3.00	12	20.0	0.012	0.0100	3.86	4.92	5.61

PIPE SECTION		SUBCATCHMENT AREA	INCREMENTAL		CUMULATIVE	TIME OF CONCENTRATION			I	PEAK RUNOFF		PIPING INPUT			PIPING DATA			
FROM	TO	Area (Acres)	"C"	A x C Ac	A x C (acres)	Tc to Inlet (min)	Tc in Pipe (min.)	Final Tc (min)	(In/Hr)	Q to Inlet (CFS)	Q cum. for Pipe (CFS)	Dia. (In)	Length (Ft)	Man. "n"	Slope (ft/ft)	Pipe Capacity (cfs)	Full Pipe Velocity (fps)	Actual Pipe Velocity (fps)
725	724	0.00	0.95	0.00	1.95	6.00	0.11	6.61	7.59	0.00	14.80	18	57.0	0.012	0.0170	14.83	8.40	8.42
R25	724	0.41	0.95	0.39	0.39	6.00	0.07	6.00	7.70	3.00	3.00	12	20.0	0.012	0.0100	3.86	4.92	5.61
724	723	0.00	0.95	0.00	2.34	6.00	0.12	6.72	7.59	0.00	17.75	24	57.0	0.012	0.0100	24.50	7.80	8.80
R26	723	0.41	0.95	0.39	0.39	6.00	0.07	6.00	7.70	3.00	3.00	12	20.0	0.012	0.0100	3.86	4.92	5.61
723	720	0.00	0.95	0.00	2.73	6.00	0.37	6.84	7.59	0.00	20.71	24	172.0	0.012	0.0100	24.50	7.80	9.00
721	720	0.25	0.95	0.24	0.24	6.00	0.06	6.00	7.70	1.85	1.85	15	20.0	0.012	0.0100	7.00	5.71	4.10
720	718	0.91	0.95	0.86	19.84	6.00	0.33	9.86	6.91	5.94	137.14	60	200.0	0.012	0.0050	199.52	10.17	11.38
718	707	0.91	0.95	0.86	20.70	6.00	0.33	10.19	6.80	5.85	140.76	60	200.0	0.012	0.0050	199.52	10.17	11.44
708	707	0.13	0.95	0.12	0.12	6.00	0.06	6.00	7.70	0.92	0.92	15	20.0	0.012	0.0100	7.00	5.71	2.70
R27	717	0.41	0.95	0.39	0.39	6.00	0.07	6.00	7.70	3.00	3.00	12	20.0	0.012	0.0100	3.86	4.92	5.61
717	716	0.00	0.95	0.00	0.39	6.00	0.19	6.07	7.70	0.00	3.00	12	57.0	0.012	0.0100	3.86	4.92	5.61
R28	716	0.41	0.95	0.39	0.39	6.00	0.07	6.00	7.70	3.00	3.00	12	20.0	0.012	0.0100	3.86	4.92	5.61
716	715	0.00	0.95	0.00	0.78	6.00	0.17	6.26	7.70	0.00	6.01	15	57.0	0.012	0.0100	7.00	5.71	6.49
R29	715	0.41	0.95	0.39	0.39	6.00	0.07	6.00	7.70	3.00	3.00	12	20.0	0.012	0.0100	3.86	4.92	5.61
715	714	0.00	0.95	0.00	1.17	6.00	0.15	6.43	7.70	0.00	9.01	18	57.0	0.012	0.0100	11.38	6.44	7.36
R30	714	0.41	0.95	0.39	0.39	6.00	0.07	6.00	7.70	3.00	3.00	12	20.0	0.012	0.0100	3.86	4.92	5.61
714	713	0.00	0.95	0.00	1.56	6.00	0.13	6.58	7.59	0.00	11.84	18	57.0	0.012	0.0120	12.46	7.05	7.74
R31	713	0.41	0.95	0.39	0.39	6.00	0.07	6.00	7.70	3.00	3.00	12	20.0	0.012	0.0100	3.86	4.92	5.61
713	712	0.00	0.95	0.00	1.95	6.00	0.11	6.71	7.59	0.00	14.80	18	57.0	0.012	0.0170	14.83	8.40	8.42
R32	712	0.41	0.95	0.39	0.39	6.00	0.07	6.00	7.70	3.00	3.00	12	20.0	0.012	0.0100	3.86	4.92	5.61
712	709	0.00	0.95	0.00	2.34	6.00	0.20	6.82	7.59	0.00	17.75	24	92.0	0.012	0.0100	24.50	7.80	8.80
R35	711	0.36	0.95	0.34	0.34	6.00	0.07	6.00	7.70	2.62	2.62	12	20.0	0.012	0.0100	3.86	4.92	5.48
711	710	0.00	0.95	0.00	0.34	6.00	0.20	6.07	7.70	0.00	2.62	12	59.0	0.012	0.0100	3.86	4.92	5.48
R34	710	0.41	0.95	0.39	0.39	6.00	0.18	6.00	7.70	3.00	3.00	12	53.0	0.012	0.0100	3.86	4.92	5.61
710	709	0.00	0.95	0.00	0.73	6.00	0.20	6.27	7.70	0.00	5.62	15	69.0	0.012	0.0100	7.00	5.71	6.52
R33	709	0.41	0.95	0.39	0.39	6.00	0.31	6.00	7.70	3.00	3.00	12	92.0	0.012	0.0100	3.86	4.92	5.61
709	707	0.00	0.95	0.00	3.46	6.00	0.20	7.02	7.48	0.00	25.86	24	105.0	0.012	0.0120	26.84	8.55	9.31
707	705	0.92	0.95	0.87	25.15	6.00	0.33	10.52	6.68	5.81	168.00	60	200.0	0.012	0.0050	199.52	10.17	11.60
705	419	0.41	0.95	0.39	25.54	6.00	0.17	10.85	6.68	2.61	170.61	60	104.0	0.012	0.0050	199.52	10.17	11.57
418	419	0.26	0.95	0.25	0.25	6.00	0.09	6.00	7.70	1.93	1.93	15	30.0	0.012	0.0100	7.00	5.71	4.27
702	701	1.25	0.95	1.19	1.19	6.00	0.58	6.00	7.70	9.16	9.16	15	280.0	0.012	0.0200	9.89	8.06	8.97
701	700	0.70	0.95	0.67	1.86	6.00	0.10	6.58	7.59	5.08	14.11	18	56.0	0.012	0.0200	16.09	9.11	10.33
703	700	0.32	0.95	0.30	0.30	6.00	0.43	6.00	7.70	2.31	2.31	15	105.0	0.012	0.0050	4.95	4.04	3.93
700	419	0.45	0.95	0.43	2.59	6.00	0.05	6.68	7.59	3.26	19.65	24	31.0	0.012	0.0200	34.65	11.04	11.65
0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.0	0.000	0.0000	0.00	0.00	0.00
801	800	0.29	0.95	0.28	0.28	6.00	0.51	6.00	7.70	2.16	2.16	15	248.0	0.012	0.0200	9.89	8.06	5.26
800	421C	1.21	0.95	1.15	1.43	6.00	0.05	6.51	7.59	8.73	10.85	15	36.0	0.012	0.0500	15.64	12.75	14.28
0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.0	0.000	0.0000	0.00	0.00	0.00
902	900	0.36	0.95	0.34	0.34	6.00	0.57	6.00	7.70	2.62	2.62	15	195.0	0.012	0.0100	7.00	5.71	4.96

PIPE SECTION		SUBCATCHMENT AREA	INCREMENTAL		CUMULATIVE	TIME OF CONCENTRATION			I	PEAK RUNOFF		PIPING INPUT			PIPING DATA			
FROM	TO	Area (Acres)	"C"	A x C Ac	A x C (acres)	Tc to Inlet (min)	Tc in Pipe (min.)	Final Tc (min)	(In/Hr)	Q to Inlet (CFS)	Q cum. for Pipe (CFS)	Dia. (In)	Length (Ft)	Man. "n"	Slope (ft/ft)	Pipe Capacity (cfs)	Full Pipe Velocity (fps)	Actual Pipe Velocity (fps)
901	900	0.40	0.95	0.38	0.38	6.00	0.02	6.00	7.70	2.93	2.93	15	8.0	0.012	0.0100	7.00	5.71	5.28
900	421D	0.00	0.95	0.00	0.72	6.00	0.19	6.57	7.59	0.00	5.46	18	72.0	0.012	0.0100	11.38	6.44	6.34

INLET AREA MAPS

THIS PLAN TO BE UTILIZED FOR STORMWATER/DRAINAGE ANALYSIS PURPOSES ONLY

NORTH (NAD 1983)

TOWNSHIP OF LOPATCONG
TOWN OF PHILLIPSBURG

MATCHLINE 'A'
MATCHLINE 'B'

INLET AREA 561
INLET AREA 552
INLET AREA 550
INLET AREA 549
INLET AREA 547
INLET AREA 536
INLET AREA 534
INLET AREA 651
INLET AREA 555
INLET AREA 556
INLET AREA 557
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INLET AREA 768
INLET AREA 767
INLET AREA 761
INLET AREA 759
INLET AREA 760
INLET AREA 750
INLET AREA 749
INLET AREA 747
INLET AREA 741
INLET AREA 732
INLET AREA 592

PROP. TYPE 'E' INLET W/HYDROCARBON INLET FILTER BASIN SOUTH #554 GRT: 362.25 INV IN (36"):354.50
PROP. TYPE 'E' INLET W/HYDROCARBON INLET FILTER BASIN SOUTH #555 GRT: 362.25 INV IN (30"): 355.70 INV OUT (36"):355.50
PROP. TYPE 'E' INLET W/HYDROCARBON INLET FILTER BASIN SOUTH #556 GRT: 362.25 INV IN (24"): 357.25 INV OUT (30"):356.75
PROP. TYPE 'E' INLET W/HYDROCARBON INLET FILTER BASIN SOUTH #557 GRT: 362.25 INV OUT (24"):358.25
PROP. TYPE 'B' INLET BASIN SOUTH #770 TC: 364.96 GRT: 364.46 INV IN (15"): 361.06 INV OUT (15"):361.06
PROP. TYPE 'B' INLET BASIN SOUTH #768 TC: 365.16 GRT: 364.66 INV IN (15"): 359.87 INV OUT (36"):356.00
PROP. TYPE 'B' INLET BASIN SOUTH #767 TC: 363.72 GRT: 363.22 INV IN (30"): 354.78 INV OUT (30"):354.78
PROP. TYPE 'B' INLET (72"X72") W/HYDROCARBON INLET FILTER BASIN SOUTH #761 TC: 360.90 GRT: 359.90 INV IN (24"): 357.16 INV IN (30"): 354.35 INV OUT (36"):354.35
PROP. TYPE 'B' INLET (72"X72") W/HYDROCARBON INLET FILTER BASIN SOUTH #759 TC: 360.90 GRT: 359.90 INV IN (15"): 357.00 INV IN (30"): 353.35 INV OUT (36"):353.35
PROP. TYPE 'B' INLET BASIN SOUTH #760 TC: 361.83 GRT: 361.33 INV OUT (15"):357.20
PROP. TYPE 'B' INLET (72"X72") W/HYDROCARBON INLET FILTER BASIN SOUTH #749 TC: 360.90 GRT: 359.90 INV IN (15"): 357.00 INV IN (24"): 355.88 INV IN (36"): 352.35 INV OUT (48"):352.35
PROP. TYPE 'B' INLET BASIN SOUTH #750 TC: 363.15 GRT: 362.65 INV OUT (15"):357.20
PROP. TYPE 'B' INLET (72"X72") W/HYDROCARBON INLET FILTER BASIN SOUTH #747 TC: 360.90 GRT: 359.90 IN (48"): 351.35 INV OUT (48"):351.35
PROP. TYPE 'B' INLET BASIN SOUTH #735 TC: 362.50 GRT: 362.00
PROP. TYPE 'B' INLET BASIN SOUTH #550 TC: 362.16 GRT: 361.66 INV OUT (15"):358.20
PROP. TYPE 'B' INLET BASIN SOUTH #549 TC: 362.37 GRT: 360.75 INV IN (36"): 353.16 INV OUT (48"):352.91
PROP. TYPE 'B' INLET (72"X72") BASIN SOUTH #536 TC: 359.12 GRT: 358.62 INV IN (24"): 352.28 INV IN (48"): 350.11 INV OUT (48"):350.11
PROP. TYPE 'B' INLET BASIN SOUTH #530 TC: 355.92 GRT: 355.42 INV OUT (15"):352.00
PROP. TYPE 'B' INLET (72"X72") BASIN SOUTH #534 TC: 355.86 GRT: 355.36 INV IN (15"): 351.63 INV IN (48"): 348.99 INV OUT (48"):347.00
PROP. TYPE 'E' INLET W/ RAIN GARDEN & INLET FILTER BASIN SOUTH #538 GRT: 357.70 INV OUT (15"):353.70
PROP. TYPE 'E' INLET W/ RAIN GARDEN & INLET FILTER BASIN SOUTH #551 GRT: 363.05 INV OUT (15"):359.05
PROP. TYPE 'E' INLET W/ RAIN GARDEN & INLET FILTER BASIN SOUTH #539 TC: 356.91 GRT: 356.41 INV IN (18"): 352.92 INV OUT (24"):352.92
PROP. TYPE 'E' INLET W/ RAIN GARDEN & INLET FILTER BASIN SOUTH #540 GRT: 357.71 INV OUT (18"):353.09
PROP. TYPE 'E' INLET W/ RAIN GARDEN & INLET FILTER BASIN SOUTH #542 GRT: 359.93 INV IN (4"): -3.61 INV OUT (15"):355.83
PROP. TYPE 'E' INLET W/ RAIN GARDEN & INLET FILTER BASIN SOUTH #544 GRT: 361.47 INV OUT (15"):357.47
PROP. TYPE 'E' INLET W/ RAIN GARDEN & INLET FILTER BASIN SOUTH #546 GRT: 362.64 INV OUT (15"):358.64
PROP. TYPE 'E' INLET W/ RAIN GARDEN & INLET FILTER BASIN SOUTH #529 GRT: 360.81 INV OUT (15"):356.81
PROP. TYPE 'E' INLET W/ RAIN GARDEN & INLET FILTER BASIN SOUTH #532 GRT: 360.81 INV OUT (15"):356.25
PROP. 4'Ø STORM MH BASIN SOUTH #655 RIM: 364.29 INV IN (12"): 360.80 INV OUT (15"):360.80
PROP. 4'Ø STORM MH BASIN SOUTH #654 RIM: 364 INV IN (12"): 360 INV IN (15"): 359 INV OUT (18"):359
PROP. 4'Ø STORM MH BASIN SOUTH #653 RIM: 364.79 INV IN (18"): 360.21 INV IN (12"): 360.80 INV OUT (24"):360.21
PROP. 4'Ø STORM MH BASIN SOUTH #652 RIM: 364.79 INV IN (12"): 360.80 INV IN (24"): 359.35 INV OUT (24"):359.35
PROP. 4'Ø STORM MH BASIN SOUTH #651 RIM: 364.79 INV IN (24"): 359.35 INV IN (12"): 360.80 INV OUT (24"):359.35
PROP. 4'Ø STORM MH BASIN SOUTH #650 RIM: 364.79 INV IN (12"): 360.80 INV IN (24"): 359.35 INV OUT (24"):359.35
PROP. 4'Ø STORM MH BASIN SOUTH #649 RIM: 364.79 INV IN (24"): 359.0 INV IN (12"): 360.80 INV OUT (24"):359.0
PROP. 4'Ø STORM MH BASIN SOUTH #648 RIM: 364.79 INV IN (12"): 360.80 INV IN (24"): 358.6 INV OUT (24"):357.6
PROP. 4'Ø STORM MH BASIN SOUTH #644 RIM: 364.79 INV IN (12"): 360.80 INV OUT (12"):360.80
PROP. 4'Ø STORM MH BASIN SOUTH #643 RIM: 364.79 INV IN (12"): 360.80 INV IN (15"):360.80
PROP. 4'Ø STORM MH BASIN SOUTH #642 RIM: 364.79 INV IN (15"): 359.79 INV OUT (15"):359.79
PROP. 4'Ø STORM MH BASIN SOUTH #641 RIM: 366.11 INV IN (12"): 360.80 INV OUT (12"):360.80
PROP. 4'Ø STORM MH BASIN SOUTH #640 RIM: 364.79 INV IN (12"): 360.80 INV OUT (12"):360.80
PROP. 4'Ø STORM MH BASIN SOUTH #639 RIM: 364.79 INV IN (12"): 360.80 INV OUT (12"):360.80
PROP. 4'Ø STORM MH BASIN SOUTH #638 RIM: 364.79 INV IN (12"): 360.80 INV OUT (12"):360.80
PROP. 4'Ø STORM MH BASIN SOUTH #637 RIM: 364.79 INV IN (12"): 360.80 INV OUT (12"):360.80
PROP. 4'Ø STORM MH BASIN SOUTH #636 RIM: 364.79 INV IN (12"): 360.80 INV OUT (12"):360.80
PROP. 4'Ø STORM MH BASIN SOUTH #635 RIM: 364.79 INV IN (12"): 360.80 INV OUT (12"):360.80
PROP. 4'Ø STORM MH BASIN SOUTH #634 RIM: 364.79 INV IN (12"): 360.80 INV OUT (12"):360.80
PROP. 4'Ø STORM MH BASIN SOUTH #633 RIM: 364.79 INV IN (12"): 360.80 INV OUT (12"):360.80
PROP. 4'Ø STORM MH BASIN SOUTH #632 RIM: 364.79 INV IN (12"): 360.80 INV OUT (12"):360.80
PROP. 4'Ø STORM MH BASIN SOUTH #631 RIM: 364.79 INV IN (12"): 360.80 INV OUT (12"):360.80
PROP. 4'Ø STORM MH BASIN SOUTH #630 RIM: 364.79 INV IN (12"): 360.80 INV OUT (12"):360.80
PROP. 4'Ø STORM MH BASIN SOUTH #627 RIM: 364.79 INV IN (12"): 360.80 INV OUT (15"):360.80
PROP. 4'Ø STORM MH BASIN SOUTH #626 RIM: 364.79 INV IN (12"): 360.80 INV OUT (12"):360.80
PROP. 4'Ø STORM MH BASIN SOUTH #625 RIM: 364.81 INV IN (12"): 359.66 INV IN (12"): 360.80 INV OUT (12"):360.80
PROP. 4'Ø STORM MH BASIN SOUTH #763 RIM: 364.79 INV IN (12"): 360.80 INV OUT (12"):360.80
PROP. 4'Ø STORM MH BASIN SOUTH #762 RIM: 363.26 INV IN (12"): 359.97 INV IN (15"): 359.19 INV IN (12"): 360.20 INV OUT (24"):357.69
PROP. 4'Ø STORM MH BASIN SOUTH #757 RIM: 363.26 INV IN (12"): 359.78 INV IN (12"): 360.20 INV OUT (18"):359.78
PROP. 4'Ø STORM MH BASIN SOUTH #756 RIM: 363.26 INV IN (12"): 360.20 INV IN (12"): 360.20 INV OUT (18"):359.21
PROP. 4'Ø STORM MH BASIN SOUTH #755 RIM: 363.26 INV IN (12"): 360.20 INV IN (15"): 359.21 INV OUT (18"):359.21
PROP. 4'Ø STORM MH BASIN SOUTH #754 RIM: 364.51 INV IN (12"): 360.80 INV OUT (12"):360.80
PROP. 4'Ø STORM MH BASIN SOUTH #753 RIM: 364.00 INV IN (12"): 360.16 INV IN (12"): 360.50 INV OUT (15"):360.16
PROP. 4'Ø STORM MH BASIN SOUTH #752 RIM: 363.26 INV IN (15"): 359.71 INV IN (12"): 360.20 INV OUT (24"):357.37
PROP. 4'Ø STORM MH BASIN SOUTH #745 RIM: 364.44 INV IN (12"): 360.70 INV OUT (12"):360.70
PROP. 4'Ø STORM MH BASIN SOUTH #744 RIM: 364 INV IN (12"): 360 INV IN (12"): 360 INV OUT (18"):358.0
PROP. 4'Ø STORM MH BASIN SOUTH #742 RIM: 364.20 INV IN (12" HDPE): 360.99 INV IN (18" HDPE): 359.99 INV OUT (18"):358.99
PROP. 4'Ø STORM MH BASIN SOUTH #738 RIM: 364.20 INV IN (15"): 359.56 INV IN (12"): 360.70 INV OUT (18"):359.56
PROP. 4'Ø STORM MH BASIN SOUTH #738 RIM: 364.20 INV IN (12"): 360.13 INV IN (12"): 360.70 INV OUT (15"):360.13
PROP. 4'Ø STORM MH BASIN SOUTH #737 RIM: 364.20 INV IN (12"): 360.70 INV IN (15"): 359.56 INV OUT (18"):359.56
PROP. 4'Ø STORM MH BASIN SOUTH #634 RIM: 364.20 INV IN (12"): 360.70 INV IN (15"): 360.70 INV OUT (15"):360.70
PROP. 4'Ø STORM MH BASIN SOUTH #633 RIM: 364.20 INV IN (12"): 360.70 INV IN (15"): 360.70 INV OUT (15"):360.70
PROP. 6'X6' STORM MH BASIN SOUTH #644 RIM: 364.77 INV IN (15"): 355.77 INV OUT (15"):355.77
PROP. 6'X6' STORM MH BASIN SOUTH #630 RIM: 362.95 INV IN (24"): 353.82 INV IN (18"): 353.82 INV OUT (36"):353.82
PROP. 6'X6' STORM MH BASIN SOUTH #635 RIM: 367.31 INV IN (36"): 352.77 INV IN (36"): 352.77 INV OUT (36"):352.77
PROP. 6'X6' STORM MH W/HYDROCARBON INLET FILTER BASIN SOUTH #630 GRT: 364.10 INV IN (36"): 351.68 INV OUT (36"):351.68
PROP. 6'X6' STORM MH BASIN SOUTH #634 RIM: 367.32 INV IN (15"): 360.82 INV OUT (15"):360.82
PROP. 6'X6' STORM MH BASIN SOUTH #633 RIM: 367.32 INV IN (15"): 360.82 INV OUT (15"):360.82
PROP. 6'X6' STORM MH BASIN SOUTH #627 RIM: 368.14 INV IN (15"): 360.80 INV OUT (15"):360.80
PROP. 6'X6' STORM MH BASIN SOUTH #625 RIM: 364.81 INV IN (15"): 359.66 INV IN (15"): 360.80 INV OUT (15"):360.80
PROP. 6'X6' STORM MH BASIN SOUTH #624 RIM: 364.81 INV IN (15"): 359.66 INV IN (15"): 360.80 INV OUT (15"):360.80
PROP. 6'X6' STORM MH BASIN SOUTH #623 RIM: 364.81 INV IN (15"): 359.66 INV IN (15"): 360.80 INV OUT (15"):360.80
PROP. 6'X6' STORM MH BASIN SOUTH #622 RIM: 364.81 INV IN (15"): 359.66 INV IN (15"): 360.80 INV OUT (15"):360.80
PROP. 6'X6' STORM MH BASIN SOUTH #621 RIM: 364.81 INV IN (15"): 359.66 INV IN (15"): 360.80 INV OUT (15"):360.80
PROP. 6'X6' STORM MH BASIN SOUTH #620 RIM: 364.81 INV IN (15"): 359.66 INV IN (15"): 360.80 INV OUT (15"):360.80
PROP. 6'X6' STORM MH BASIN SOUTH #619 RIM: 364.81 INV IN (15"): 359.66 INV IN (15"): 360.80 INV OUT (15"):360.80
PROP. 6'X6' STORM MH BASIN SOUTH #618 RIM: 364.81 INV IN (15"): 359.66 INV IN (15"): 360.80 INV OUT (15"):360.80
PROP. 6'X6' STORM MH BASIN SOUTH #617 RIM: 364.81 INV IN (15"): 359.66 INV IN (15"): 360.80 INV OUT (15"):360.80
PROP. 6'X6' STORM MH BASIN SOUTH #616 RIM: 364.81 INV IN (15"): 359.66 INV IN (15"): 360.80 INV OUT (15"):360.80
PROP. 6'X6' STORM MH BASIN SOUTH #615 RIM: 364.81 INV IN (15"): 359.66 INV IN (15"): 360.80 INV OUT (15"):360.80
PROP. 6'X6' STORM MH BASIN SOUTH #614 RIM: 364.81 INV IN (15"): 359.66 INV IN (15"): 360.80 INV OUT (15"):360.80
PROP. 6'X6' STORM MH BASIN SOUTH #613 RIM: 364.81 INV IN (15"): 359.66 INV IN (15"): 360.80 INV OUT (15"):360.80
PROP. 6'X6' STORM MH BASIN SOUTH #612 RIM: 364.81 INV IN (15"): 359.66 INV IN (15"): 360.80 INV OUT (15"):360.80
PROP. 6'X6' STORM MH BASIN SOUTH #611 RIM: 364.81 INV IN (15"): 359.66 INV IN (15"): 360.80 INV OUT (15"):360.80
PROP. 6'X6' STORM MH BASIN SOUTH #610 RIM: 364.81 INV IN (15"): 359.66 INV IN (15"): 360.80 INV OUT (15"):360.80
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PROP. 6'X6' STORM MH BASIN SOUTH #608 RIM: 364.81 INV IN (15"): 359.66 INV IN (15"): 360.80 INV OUT (15"):360.80
PROP. 6'X6' STORM MH BASIN SOUTH #607 RIM: 364.81 INV IN (15"): 359.66 INV IN (15"): 360.80 INV OUT (15"):360.80
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PROP. 6'X6' STORM MH BASIN SOUTH #605 RIM: 364.81 INV IN (15"): 359.66 INV IN (15"): 360.80 INV OUT (15"):360.80
PROP. 6'X6' STORM MH BASIN SOUTH #604 RIM: 364.81 INV IN (15"): 359.66 INV IN (15"): 360.80 INV OUT (15"):360.80
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PROP. 6'X6' STORM MH BASIN SOUTH #600 RIM: 364.81 INV IN (15"): 359.66 INV IN (15"): 360.80 INV OUT (15"):360.80
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PROP. 6'X6' STORM MH BASIN SOUTH #598 RIM: 364.81 INV IN (15"): 359.66 INV IN (15"): 360.80 INV OUT (15"):360.80
PROP. 6'X6' STORM MH BASIN SOUTH #597 RIM: 364.81 INV IN (15"): 359.66 INV IN (15"): 360.80 INV OUT (15"):360.80
PROP. 6'X6' STORM MH BASIN SOUTH #596 RIM: 364.81 INV IN (15"): 359.66 INV IN (15"): 360.80 INV OUT (15"):360.80
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PROP. 6'X6' STORM MH BASIN SOUTH #593 RIM: 364.81 INV IN (15"): 359.66 INV IN (15"): 360.80 INV OUT (15"):360.80
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PROP. 6'X6' STORM MH BASIN SOUTH #591 RIM: 364.81 INV IN (15"): 359.66 INV IN (15"): 360.80 INV OUT (15"):360.80
PROP. 6'X6' STORM MH BASIN SOUTH #590 RIM: 364.81 INV IN (15"): 359.66 INV IN (15"): 360.80 INV OUT (15"):360.80
PROP. 6'X6' STORM MH BASIN SOUTH #589 RIM: 364.81 INV IN (15"): 359.66 INV IN (15"): 360.80 INV OUT (15"):360.80
PROP. 6'X6' STORM MH BASIN SOUTH #588 RIM: 364.81 INV IN (15"): 359.66 INV IN (15"): 360.80 INV OUT (15"):360.80
PROP. 6'X6' STORM MH BASIN SOUTH #587 RIM: 364.81 INV IN (15"): 359.66 INV IN (15"): 360.80 INV OUT (15"):360.80
PROP. 6'X6' STORM MH BASIN SOUTH #586 RIM: 364.81 INV IN (15"): 359.66 INV IN (15"): 360.80 INV OUT (15"):360.80
PROP. 6'X6' STORM MH BASIN SOUTH #585 RIM: 364.81 INV IN (15"): 359.66 INV IN (15"): 360.80 INV OUT (15"):360.80
PROP. 6'X6' STORM MH BASIN SOUTH #584 RIM: 364.81 INV IN (15"): 359.66 INV IN (15"): 360.80 INV OUT (15"):360.80
PROP. 6'X6' STORM MH BASIN SOUTH #583 RIM: 364.81 INV IN (15"): 359.66 INV IN (15"): 360.80 INV OUT (15"):360.80
PROP. 6'X6' STORM MH BASIN SOUTH #582 RIM: 364.81 INV IN (15"): 359.66 INV IN (15"): 360.80 INV OUT (15"):360.80
PROP. 6'X6' STORM MH BASIN SOUTH #581 RIM: 364.81 INV IN (15"): 359.66 INV IN (15"): 360.80 INV OUT (15"):360.80
PROP. 6'X6' STORM MH BASIN SOUTH #580 RIM: 364.81 INV IN (15"): 359.66 INV IN (15"): 360.80 INV OUT (15"):360.80
PROP. 6'X6' STORM MH BASIN SOUTH #579 RIM: 364.81 INV IN (15"): 359.66 INV IN (15"): 360.80 INV OUT (15"):360.80
PROP. 6'X6' STORM MH BASIN SOUTH #578 RIM: 364.81 INV IN (15"): 359.66 INV IN (15"): 360.80 INV OUT (15"):360.80
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PROP. 6'X6' STORM MH BASIN SOUTH #568 RIM: 364.81 INV IN (15"): 359.66 INV IN (15"): 360.80 INV OUT (15"):360.80
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PROP. 6'X6' STORM MH BASIN SOUTH #533 RIM: 364.81 INV IN (15"): 359.66 INV IN (15"): 360.80 INV OUT (15"):360.80
PROP. 6'X6' STORM MH BASIN SOUTH #532 RIM: 364.81 INV IN (15"): 359.66 INV IN (15"): 360.80 INV OUT (15"):360.80
PROP. 6'X6' STORM MH BASIN SOUTH #531 RIM: 364.81 INV IN (15"): 359.66 INV IN (15"): 360.80 INV OUT (15"):360.80
PROP. 6'X6' STORM MH BASIN SOUTH #530 RIM: 364.81 INV IN (15"): 359.66 INV IN (15"): 360.80 INV OUT (15"):360.80
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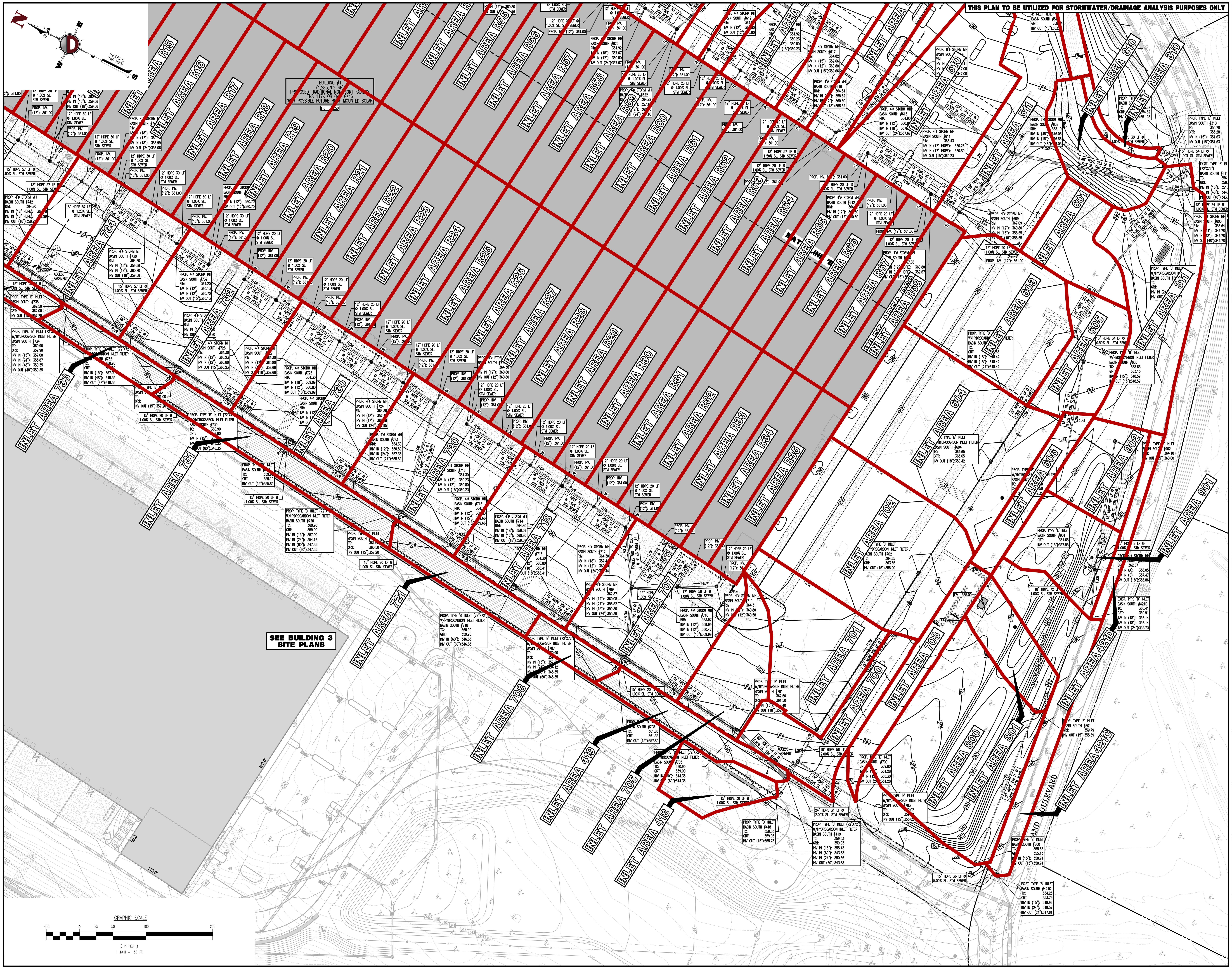
PROP. 6'X6' STORM MH BASIN SOUTH #501 RIM: 364.81 INV IN (15"): 359.66 INV IN (15"): 360.80 INV OUT (15"):360.80
PROP. 6'X6' STORM MH BASIN SOUTH #500 RIM: 364.81 INV IN (15"): 359.66 INV IN (15"): 360.80 INV OUT (15"):360.80
PROP. 6'X6' STORM MH BASIN SOUTH #499 RIM: 364.81 INV IN (15"): 359.66 INV IN (15"): 360.80 INV OUT (15"):360.80
PROP. 6'X6' STORM MH BASIN SOUTH #498 RIM: 364.81 INV IN (15"): 359.66 INV IN (15"): 360.80 INV OUT (15"):360.80
PROP. 6'X6' STORM MH BASIN SOUTH #497 RIM: 364.81 INV IN (15"): 359.66 INV IN (15



Plotted: 06/10/21 – 10:19 AM, By: jgerdes
File: P:\DECPC PROJECTS\1313 Bridge Development Partners, LLC\99-026 Phillipsburg- Rand Blvd\Dwg\DA Maps\D1313990261DAM0.dwg, ---> 02 INLET DRAINAGE AREA MAP BUILDING #1 'B'

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REV.	DATE	COMMENTS	BY

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DRAWN BY: DRL | DESIGNED BY: WB | CHECKED BY: WB | CHECKED BY: —

PROJECT: PR BRIDGE I78 PHASE II OWNER URBAN RENEWAL, LLC
PROPOSED BRIDGE POINT 78
TOWN OF PHILLIPSBURG & TOWNSHIP OF LOPATCONG
WARREN COUNTY, NEW JERSEY

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PROFESSIONAL ENGINEER
NEW JERSEY LICENSE No. 41985

JOSEPH G. JAWORSKI
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE No. 36618

TITLE:
INLET DRAINAGE AREA MAP BUILDING #1 'B'

SCALE: (H) 1"=50' (V) | DATE: 06/09/2021
PROJECT No: 1313-99-026

SHEET No: 2 OF 3 | Rev. #: 0

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REV.	DATE	COMMENTS	BY

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DRAWN BY: DRL | DESIGNED BY: WB | CHECKED BY: WB

PROJECT: PR BRIDGE 178 PHASE II OWNER URBAN RENEWAL, LLC
PROPOSED BRIDGE POINT 78
TOWN OF PHILLIPSBURG & TOWNSHIP OF LOPATCONG
WARREN COUNTY, NEW JERSEY

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TITLE:
INLET DRAINAGE AREA MAP BUILDING #1 'C'

SCALE: (H) 1"=50' (V) | DATE: 06/09/2021
PROJECT No: 1313-99-026

SHEET No: 3 OF 3 | Rev. #: 0

Plotted: 06/10/21 - 10:22 AM, By: jgerdes
File: P:\DECPC PROJECTS\1313 Bridge Development Partners, LLC\99-026 Phillipsburg- Rand Blvd\Dwg\DA Maps\D1313990260DAMO.dwg, ----> 03 INLET DRAINAGE AREA MAP BUILDING #1 'C'

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