

Bryant Development and Review Committee Meeting

Boswell Municipal Complex - City Hall Conference Room 210 SW 3rd Street

Date: March 28, 2024 - Time: 9:00 AM

Call to Order

Old Business

New Business

1. Pinnacle Point Assisted Living - 6845 Hwy 5 - Site Plan Addition

Robby Hubbard - Requesting approval for addition of fencing around detention pond.

- 0844-PLN-02.pdf
- 2. Bryant School Admin Building 1511 N Reynolds Site Plan Addition

Josh Minton - Requesting Approval for Changes to the Stormwater Drainage on Site

- 0847-PLN-01.pdf
- <u>0847-DRN-01.pdf</u>
- 3. Discussion on City Sewer in Area of Brandon Road

Jack Moseley - Requesting Discussion on Sewer

Staff Approved

4. P31 Boutique - 3507 Marketplace Ste 200 - Sign Permit

L Graphics - Requesting Sign Permit Approval - STAFF APPROVED

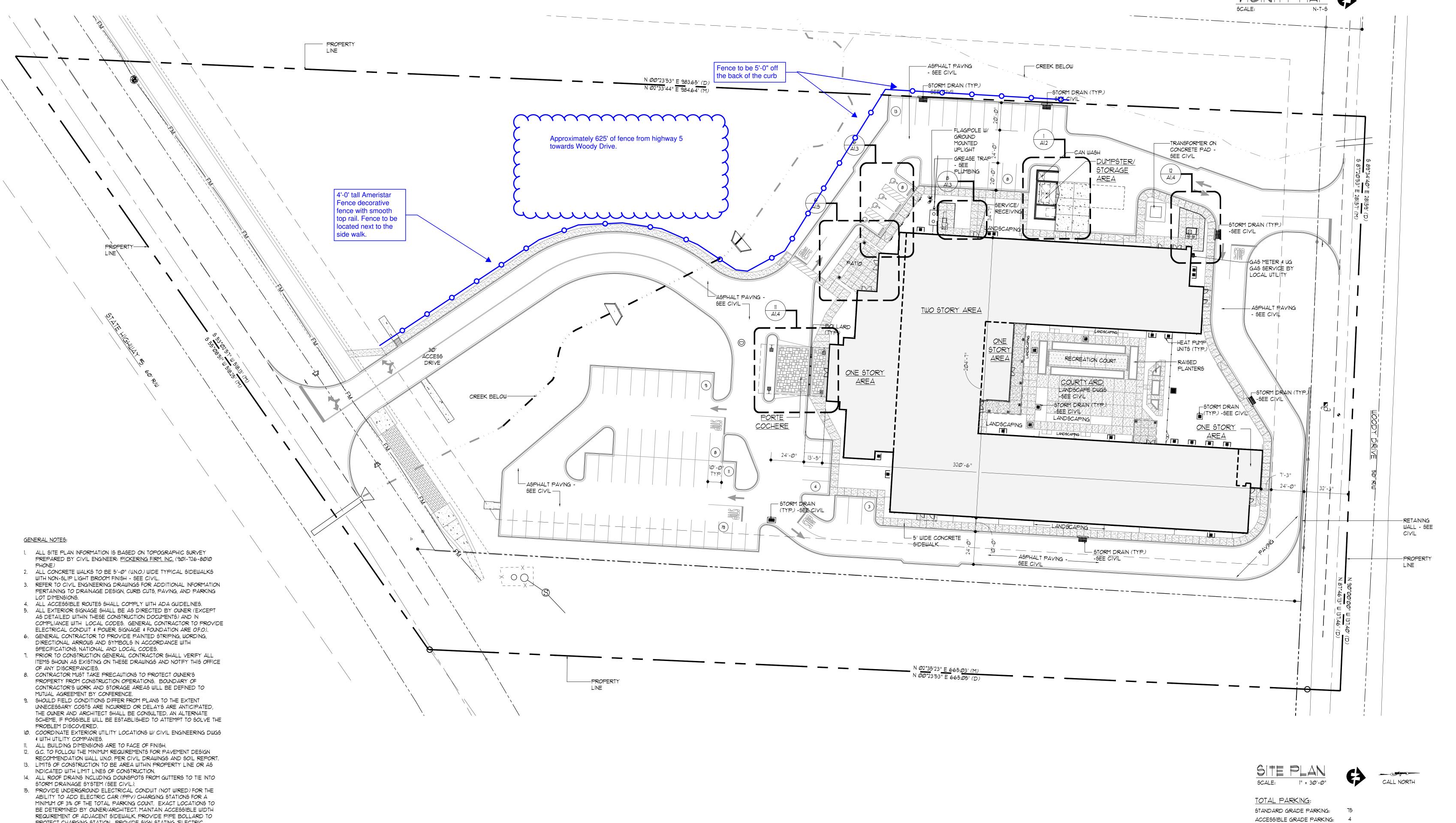
0845-APP-01.pdf

Permit Report

Adjournments



TOTAL PARKING:



PROTECT CHARGING STATION. PROVIDE SIGN STATING "ELECTRIC VEHICLE PARKING AND CHARGING STATION". COORDINATE ALL

REQUIREMENTS WITH CHARGING STATION MANUFACTURER.



COA # C786 803 MOUNT MORIAH SUITE 100B MEMPHIS, TN 38117 (901) 683-7175 p. (901) 683-2385 f. llw@llwarchitects.com ISSUED PRELIMINARY DRAWINGS 06-08-2018

FOR PERMIT

NO. REVISIONS DATE

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PINNACLE POINT AT BRYANT

BRYANT, ARKANSAS SHEET NAME SITE PLAN

09-06-2019 DRAWN BY

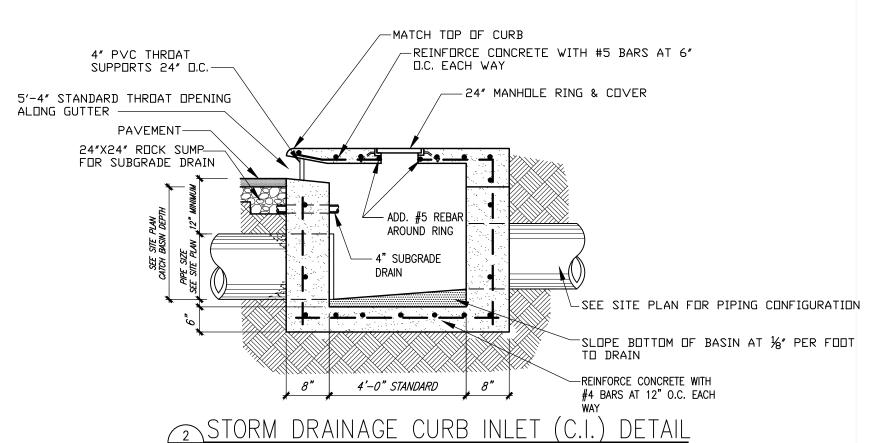
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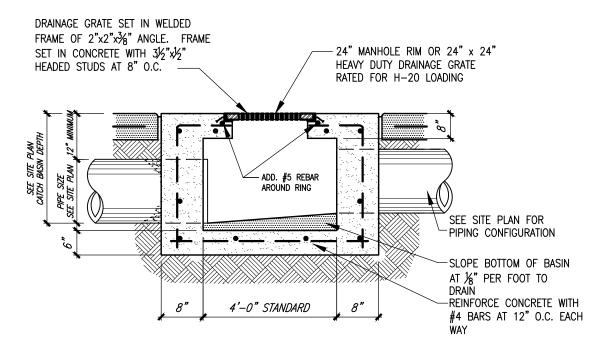
FILE NAME 0218-A101

SCALE AS NOTED PROJECT NO. 0218

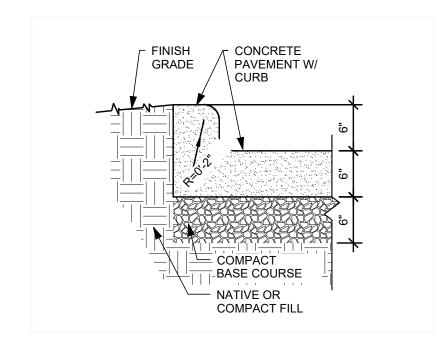
DRAWING

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DRAINAGE JUNCTION BOX (J.B.) DETAIL



CURB & GUTTER DETAIL

GENERAL SITE GRADING NOTES:

- ALL BIDDERS SHALL FIELD VERIFY EXIST SITE CONDITIONS SO AS TO BE FAMILIAR WITH PROJECT PRIOR TO BIDDING WORK INCLUDED IN THIS CONTRACT. ANY DISCREPANCIES SHALL BE ADDRESSED PRIOR TO BIDDING. CONTRACTOR TO VERIFY AND MARK ALL EXISTING UTILITIES PRIOR BEFORE ANY DEMOLITION OR NEW CONSTRUCTION WORK COMMENCES.
- 3. ALL WORK SHALL CONFORM TO LOCAL & STATE CODES; ELECTRICAL & PLUMBING LINES SHALL BE INSTALLED BY PROFESSIONALS LICENSED BY THE STATE OF ARKANSAS.
- FIELD VERIFY EXACT LOCATION OF ALL EXISTING TREES; EXIST TREES NOT IN CONSTRUCTION AREA TO BE PROTECTED WITH 2x WOOD PLANKS CONT. IN LINE WITH DRIP EDGE OF TREE, SECURED TOGETHER & FLAGGED W/ORANGE TAPE; HEAVY EQUIPMENT TO WORK AS FAR AS POSSIBLE FROM EXIST TREES TO PREVENT DAMAGE TO FEEDER ROOTS; CONTRACTOR WILL BE REQUIRED TO COMPENSATE OWNER FOR ANY EXISTING TREES WHICH ARE DAMAGED OR DIE DUE TO CONSTRUCTION WORK.
- THE GENERAL CONTRACTOR SHALL HAVE THE GEOTECHNICAL ENGINEER EMPLOYED TO OBSERVE SITE 5. THE GENERAL CONTRACTOR SHALL HAVE THE GEOTECHNICAL ENGINEER EMPLOYED TO OBSERVE SITE.

 WORK MEET WITH THE GEOTECHNICAL ENGINEER THAT PROVIDED THE SOIL'S REPORT. THIS MEETING

 SHOULD OCCUR AT OR BEFORE THE PRE-CONSTRUCTION MEETING TO INSURE THE AMOUNT OF UNDERCUT

 THAT MAY BE REQUIRED FOR THE PROJECT. RECOMMENDATIONS BY GEO-TECHNICAL ENGINEER SHALL

 NOT BE IMPLEMENTED INTO WORK WITHOUT AUTHORIZATION FROM OWNER & ARCHITECT. NOTIFY

 ARCHITECT IMMEDIATELY IF UNEXPECTED SUBSURFACE CONDITIONS ARE ENCOUNTERED. THE CONTRACTOR

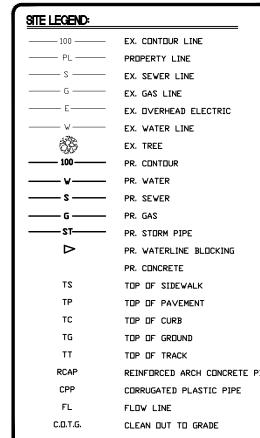
 WILL REFERENCE THE GEOTECHNICAL REPORT FOR A MORE DETAILED DESCRIPTION OF EARTHWORK AND

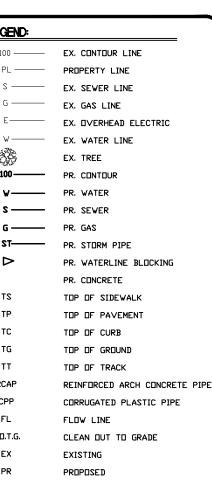
 COMPACTION REQUIREMENTS.
- 6. SEQUENCE OF DIRTWORK ACTIVITIES (REFERENCE GEOTECH REPORT):

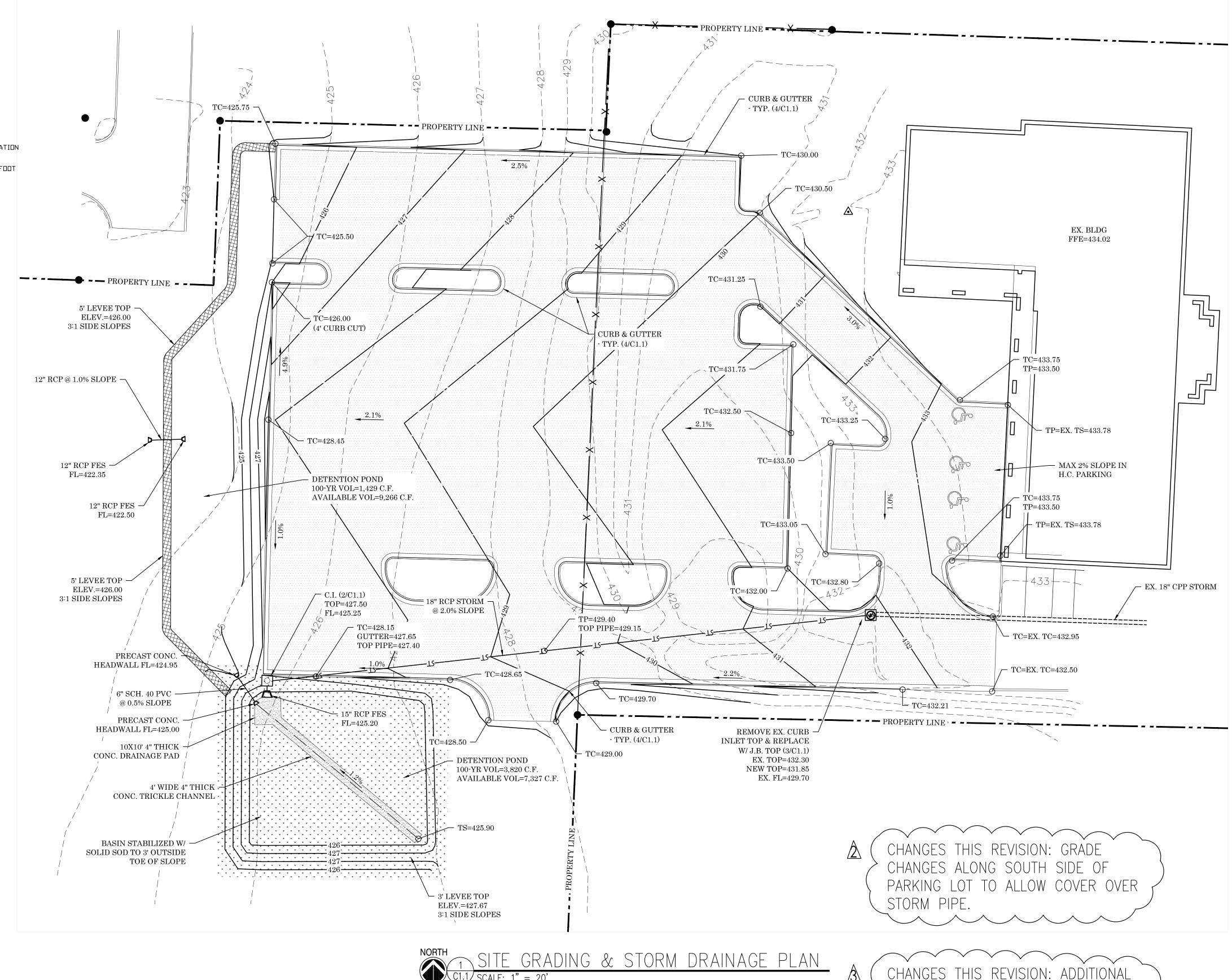
 1)THE SITE WILL BE CLEARED OF ALL TREES NECESSARY FOR SITE CONSTRUCTION, SEE CLEARING LIMITS.

 2)THE TOP 1.0' OF SOIL WILL BE STRIPPED UNDER ALL STRUCTURAL ELEMENTS (BUILDINGS, PARKING & DRIVE AREAS). THIS MATERIAL CAN BE USED ON SITE AS UNCLASSIFIED FILL (GREEN SPACES). 3)SEE GEOTECH REPORT FOR UNDERCUT RECOMMENDATIONS. SELECT FILL WILL BE PLACED TO 10'
 OUTSIDE BUILDING, 3' OUTSIDE THE CURB FOR DRIVES AND PARKING.
 4)PROOF ROLL ALL SUBGRADE PRIOR TO PLACING FILL, REMOVE AND REPLACE WITH COMPACTED SELECT
 FILL AS DIRECTED BY GEOTECH.
 5)SELECT FILL WILL BE PLACED IN LOOSE 8" LIFTS AND COMPACTED TO 95% MODIFIED PROCTOR WITHIN
 2% OPTIMUM MOISTURE CONTENT. SEE GEOTECH REPORT FOR SELECT FILL REPORTS. ON—SITE
- ALL HANDICAP PARKING AND ACCESSIBLE ROUTES SHALL MEET ADA REQUIREMENTS. MAXIMUM CROSS-SLOPE ON ANY ACCESSIBLE ROUTE SHALL NOT EXCEED 2.0% AND THE MAXIMUM RUNNING-SLOPE ON ANY ACCESSIBLE ROUTE SHALL NOT EXCEED 5.0% WITHOUT HANDRAILS AND LANDING AREAS, 8.3% WITH HANDRAILS AND LANDING AREAS. HANDICAPPED PARKING AREAS SHALL NOT SLOPE MORE THAN 2.0% IN ANY DIRECTION. EACH HANDICAP PARKING SPOT SHALL HAVE A SIGN. THE CONTRACTOR WILL REFER TO THE "CODE OF FEDERAL REGULATIONS" 28 CFR PART 36 "ADA STANDARDS FOR ACCESSIBLE DESIGN" FOR A MORE DETAILED DESCRIPTION OF STANDARDS.

MATERIAL BELOW THE 1.0' STRIPPING MAY BE USED FOR SELECT FILL, VERIFY WITH GEOTECH.

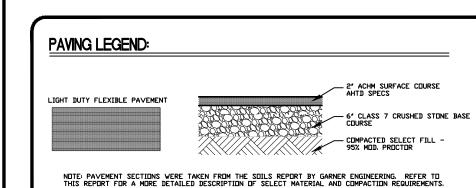








DETENTION POND ADDED ON WEST SIDE OF PARKING LOT.



Bryant Admin Parking

Stormwater Management Report

City of Bryant, Saline County, Arkansas

Original Submittal: February 20, 2023

Revised Submittal: March 15, 2024

MINTON ENGINEERING, INC.

300 Northport Dr. Cabot, AR 72023 501.941.5559 phone 501.941.5557 fax

Revised Conditions:

It was brought to our attention that once this project was constructed flooding was occurring to the west behind the Library. We have determined that the existing pond behind the new administration building (previously Summerwood Petroleum) was handling the stormwater not only for this building, but also the gas station to the north. We are proposing to add an additional detention pond that will handle the north portion of our site, as well as the gas station.

Pre-Development Conditions

This project involves constructing a new parking lot on the west side of an existing building located at 1511 N.
Reynolds Road in the city limits of Bryant, Arkansas. This is the old Summerwood Petro office that is being converted into the Bryant Schools Administration office.

The site currently has a detention pond on the west side, but this pond will be removed for the new parking lot. Considering this, the site detention will be designed as though the pre-development condition is undeveloped.

II. Post-Development Conditions

The project proposes to add a new parking lot on the west (back) side of the existing building. Since the existing detention pond is being removed, a new detention pond is proposed at the southwest corner of the site.

Approximately 65% of the site will flow through the detention pond and 35% will drain through the northwest corner. Now 100% of this site as well as a portion of the gas station will flow through the new pond.

III. Design Considerations

The detention for this project was designed using the rational method. The pre-development flow, post development flow and detention volume were determined by the attached calculations are summarized below. The calculations were compiled using Autodesk Hydraflow, information used is attached to this report.

Summary Table:

Description	Pre-Development	Post-Development	Pond Elev (new pond)
2-Year Storm	6.69 cfs	2.20 cfs	423.59
5-Year Storm	7.80 cfs	2.64 cfs	423.70
10-Year Storm	8.64 cfs	2.93 cfs	423.77
25-Year Storm	9.88 cfs	3.31 cfs	423.89
50-Year Storm	10.86 cfs	3.59 cfs	423.33
100-Year Storm	11.84 cfs	3.72 cfs	424.04

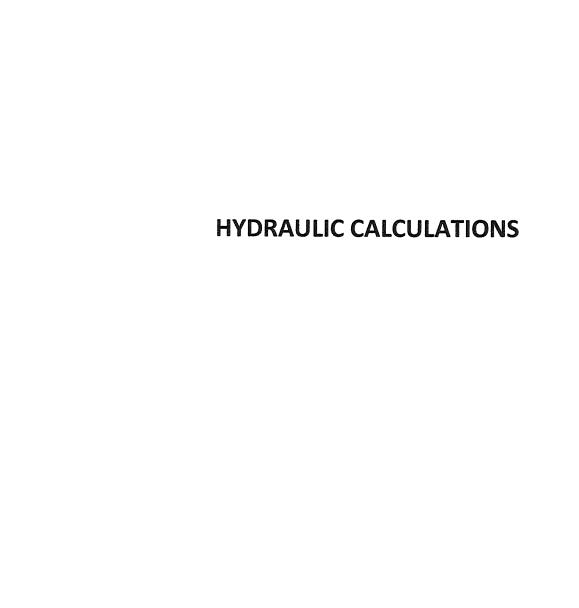
IV. Conclusion

Post-development flow will be less than the pre-development flow for the 2-100 year storm events. The pond will detain the 100-yr storm by utilizing a storage volume of 1,429 CF. The pond has an available volume of 9,266 CF and will store the 100-year storm w/ 1.96' of freeboard available. The outlet structure will utilize a 12'' storm pipe.

Please consider this report and let me know if any additional information is required.

Sincerely,

Josh Minton, PE



Revised Condition MAP

DARW = Z.3 AC

(=0.25 Pre-Del



NOTE: CONSIDER EXTRE SITE TO DET. POND WILL BE TEMEDED.



SCALD: 1"=100"

Post Davelopment MAP

A HARD SURP = 0.7AC C=0.9 A Brewn = 0.5AC C=0.25

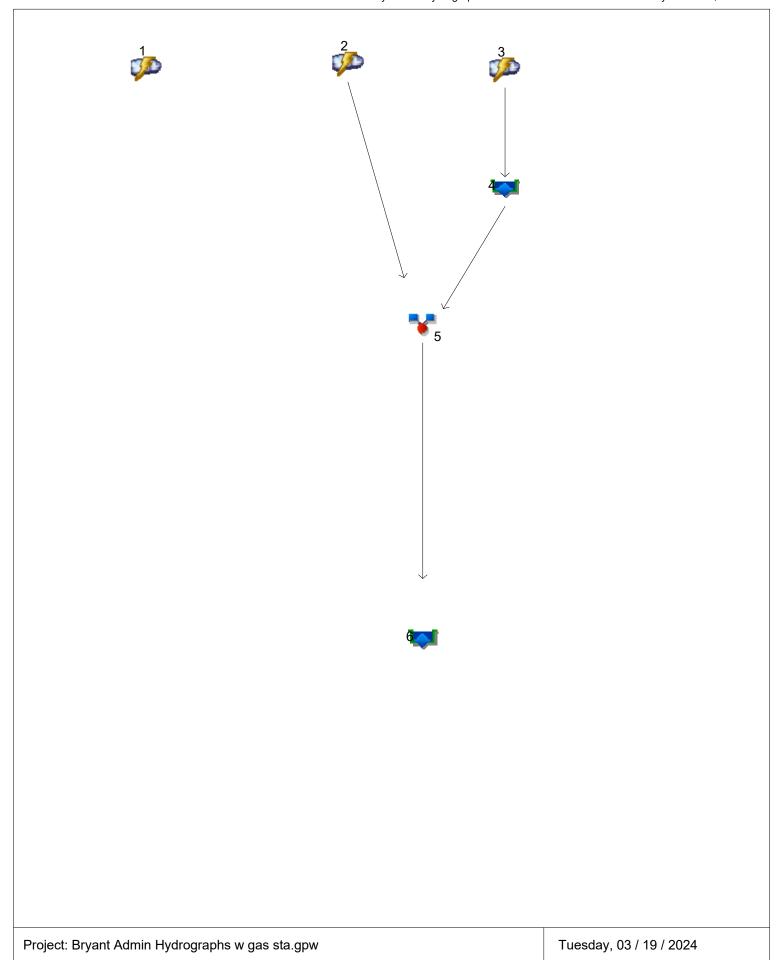
D.A. 7

ATOTAL = 2.4AC Agreen = 1.2 AC C= 0.25



SCALG: 1"=100'

Watershed Model Schematic



Hydrograph Return Period Recap Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

	Hydrograph	e hyd(s)	Peak Outflow (cfs)								Hydrograph
lo.	type (origin)		1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr	Description
1	Rational			6.693		7.804	8.638	9.878	10.86	11.84	Pre-Development
2	Rational			11.79		13.75	15.22	17.40	19.13	20.86	Post Dev DA 1
3	Rational			7.930		9.245	10.23	11.70	12.86	14.02	Post Dev. DA 2
4	Reservoir	3		0.817		0.863	0.897	0.945	0.981	1.016	Detention Pond
5	Combine	2, 4		4.953		5.731	6.288	7.116	7.769	8.423	Total Post Dev
6	Reservoir	5		2.199		2.640	2.926	3.314	3.587	3.720	Additional Pond

Proj. file: Bryant Admin Hydrographs w gas sta.gpw

Tuesday, 03 / 19 / 2024

Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

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	Rational	6.693	1	5	2,008				Pre-Development
2	Rational	11.79	1	5	3,538				Post Dev DA 1
3	Rational	7.930	1	5	2,379				Post Dev. DA 2
4	Reservoir	0.817	1	9	2,375	3	426.22	2,087	Detention Pond
5	Combine	4.953	1	5	3,667	2, 4			Total Post Dev
6	Reservoir	2.199	1	8	3,666	5	423.59	812	Additional Pond
D.	ant Admin Hy	(dec av			Dah	Period: 2 Ye		Tuesday	3 / 19 / 2024

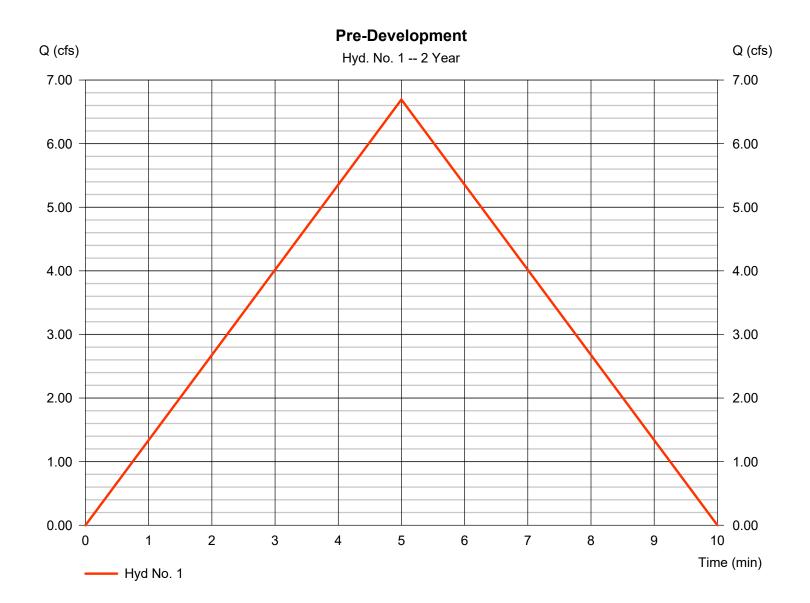
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

Tuesday, 03 / 19 / 2024

Hyd. No. 1

Pre-Development

Hydrograph type Peak discharge = Rational = 6.693 cfsStorm frequency = 2 yrsTime to peak = 5 min Time interval = 1 min Hyd. volume = 2,008 cuft= 0.25* Runoff coeff. Drainage area = 4.700 acTc by User $= 5.00 \, \text{min}$ Intensity = 5.697 in/hr**IDF** Curve Asc/Rec limb fact = 1/1= Pulaski County.IDF



^{*} Composite (Area/C) = $[(5.900 \times 0.25) + (5.200 \times 0.90)] / 4.700$

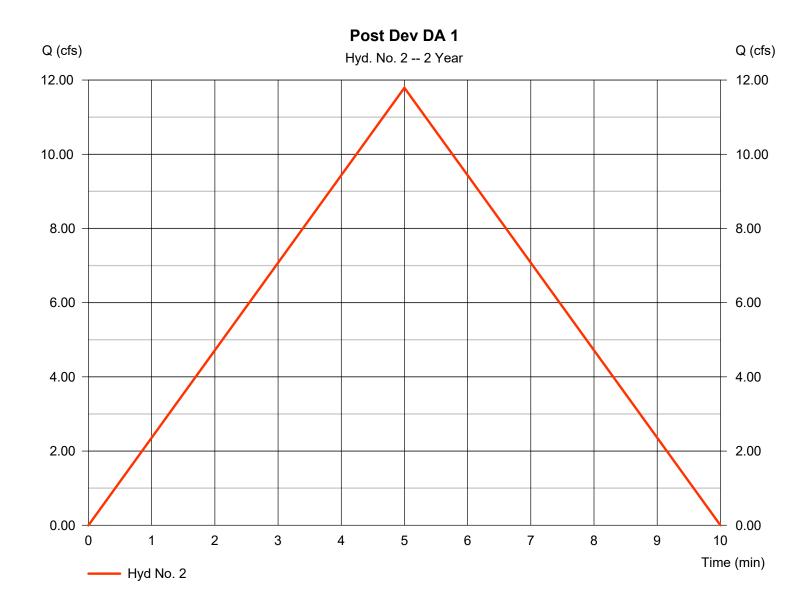
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Hyd. No. 2

Post Dev DA 1

Hydrograph type Peak discharge = 11.79 cfs= Rational Storm frequency = 2 yrsTime to peak = 5 min Time interval = 1 min Hyd. volume = 3,538 cuft Drainage area Runoff coeff. = 0.9*= 2.300 acTc by User Intensity = 5.697 in/hr $= 5.00 \, \text{min}$ **IDF** Curve Asc/Rec limb fact = 1/1= Pulaski County.IDF



^{*} Composite (Area/C) = $[(0.700 \times 0.90) + (0.500 \times 0.25)] / 2.300$

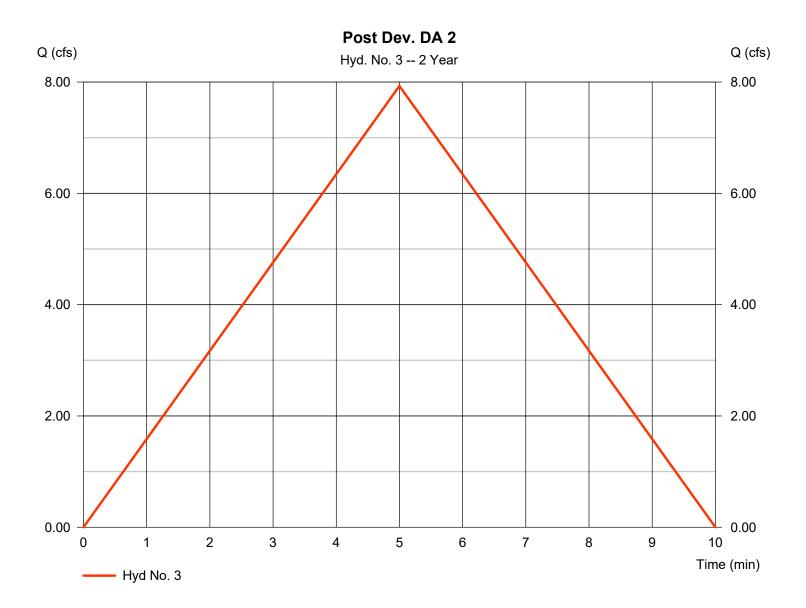
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Tuesday, 03 / 19 / 2024

Hyd. No. 3

Post Dev. DA 2

Hydrograph type Peak discharge = 7.930 cfs= Rational Storm frequency = 2 yrsTime to peak = 5 min Time interval = 1 min Hyd. volume = 2,379 cuftRunoff coeff. Drainage area = 2.400 ac= 0.58*Tc by User $= 5.00 \, \text{min}$ Intensity = 5.697 in/hr**IDF** Curve Asc/Rec limb fact = 1/1= Pulaski County.IDF



^{*} Composite (Area/C) = [(1.200 x 0.90) + (1.200 x 0.25)] / 2.400

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

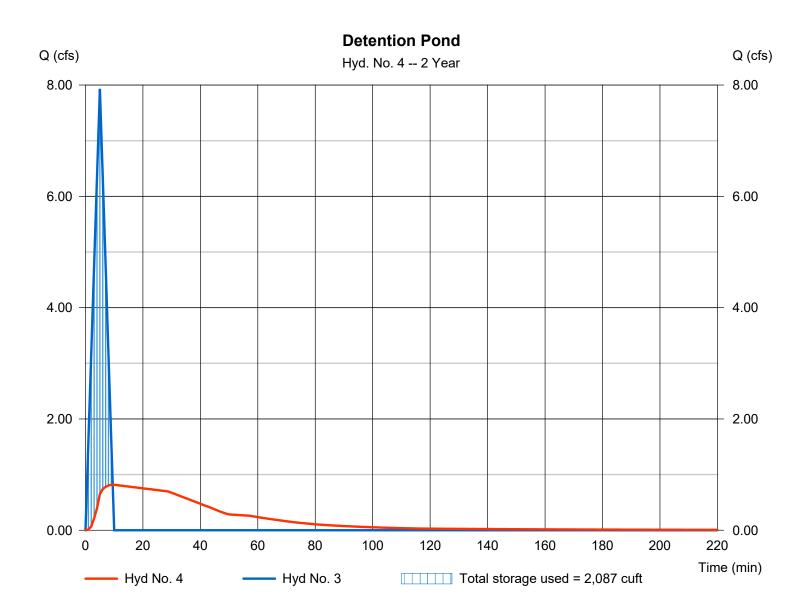
Tuesday, 03 / 19 / 2024

Hyd. No. 4

Detention Pond

Hydrograph type = Reservoir Peak discharge = 0.817 cfsStorm frequency = 2 yrsTime to peak = 9 min Time interval = 1 min Hyd. volume = 2,375 cuftInflow hyd. No. = 3 - Post Dev. DA 2 Max. Elevation = 426.22 ft= Det. Pond Reservoir name Max. Storage = 2,087 cuft

Storage Indication method used.



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Pond No. 1 - Det. Pond

Pond Data

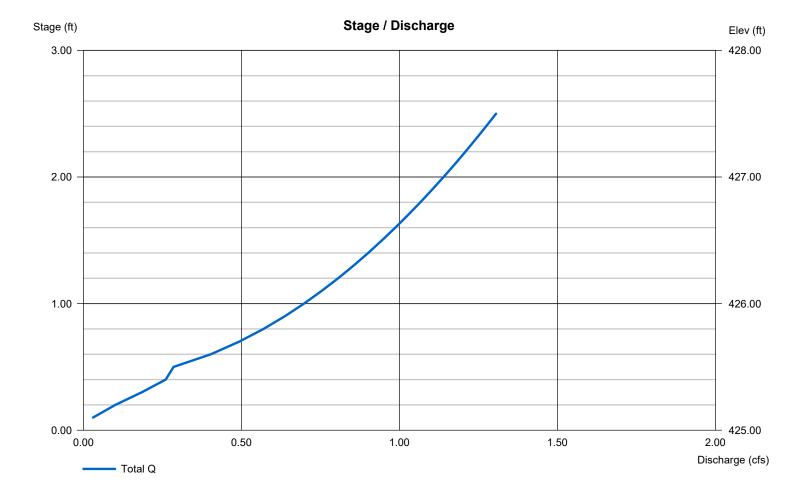
Contours -User-defined contour areas. Conic method used for volume calculation. Begining Elevation = 425.00 ft

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	425.00	00	0	0
1.00	426.00	3,700	1,233	1,233
2.00	427.00	4,000	3,849	5,082
2.50	427.50	5,000	2,245	7,327

Culvert / Orifice Structures Weir Structures [C] [A] [C] [B] [PrfRsr] [B] [D] [A] Rise (in) = 6.00 0.00 0.00 0.00 Crest Len (ft) Inactive Inactive Inactive Inactive Span (in) = 6.00 0.00 0.00 0.00 Crest El. (ft) = 0.000.00 0.00 0.00 No. Barrels 0 0 Weir Coeff. = 3.33 3.33 3.33 3.33 Invert El. (ft) = 425.00 0.00 0.00 0.00 Weir Type = Rect = 20.000.00 0.00 0.00 Multi-Stage Length (ft) = No No No No Slope (%) = 0.500.00 0.00 n/a N-Value = .013 .013 .013 n/a = 0.600.60 = 0.000 (by Contour) 0.60 0.60 Exfil.(in/hr) Orifice Coeff. Multi-Stage = n/aNo No No TW Elev. (ft) = 0.00

Note: Culvert/Orifice outflows are analyzed under inlet (ic) and outlet (oc) control. Weir risers checked for orifice conditions (ic) and submergence (s).



Hydraflow Hyd oc raphs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

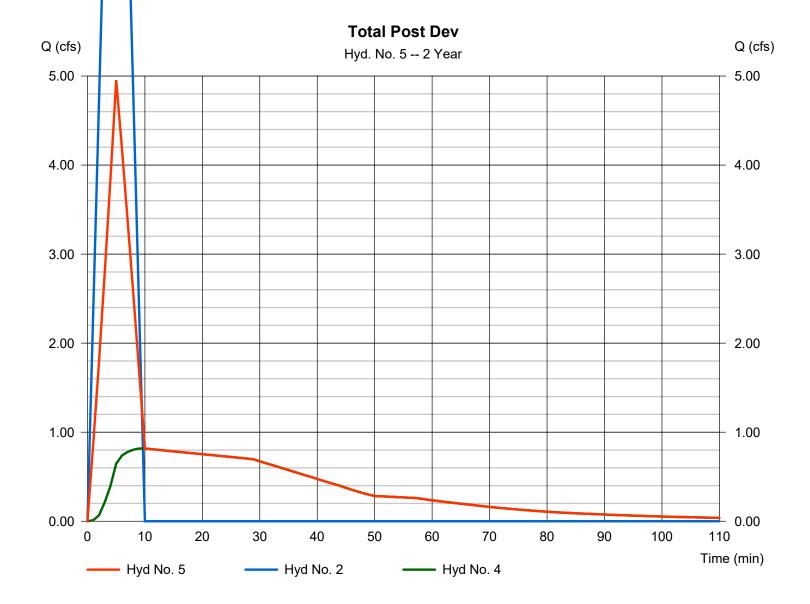
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Hyd. No. 5

Total Post Dev

Hydrograph type = Combine Peak
Storm frequency = 2 yrs Time
Time interval = 1 min Hyd.
Inflow hyds. = 2, 4 Contraction

Peak discharge = 4.953 cfs
Time to peak = 5 min
Hyd. volume = 3,667 cuft
Contrib. drain. area = 2.300 ac



Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

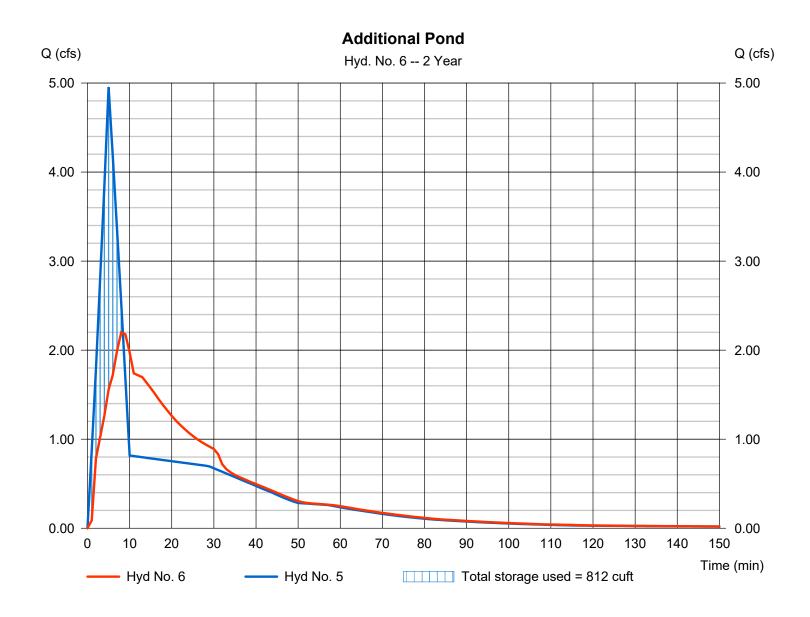
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Hyd. No. 6

Additional Pond

Hydrograph type = Reservoir Peak discharge = 2.199 cfsStorm frequency = 2 yrsTime to peak = 8 min Time interval = 1 min Hyd. volume = 3,666 cuft = 5 - Total Post Dev Max. Elevation = 423.59 ftInflow hyd. No. = Additional Pond Reservoir name Max. Storage = 812 cuft

Storage Indication method used.



Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

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Pond No. 2 - Additional Pond

Pond Data

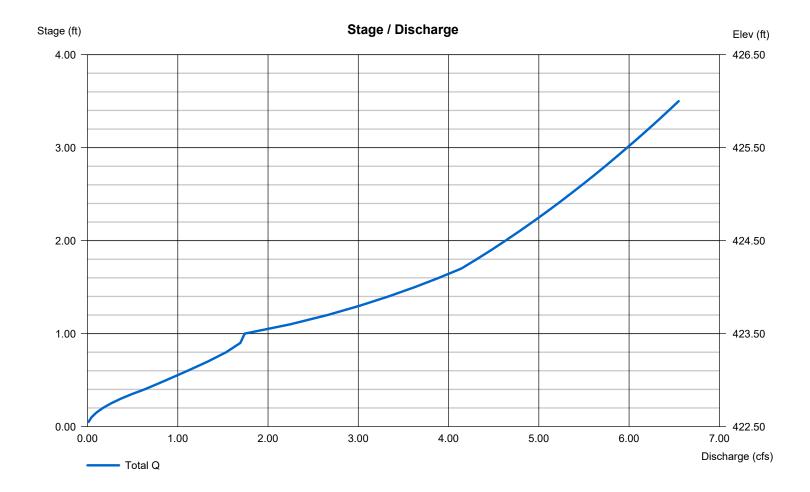
Contours -User-defined contour areas. Conic method used for volume calculation. Begining Elevation = 422.50 ft

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	422.50	00	0	0
0.50	423.00	500	83	83
1.50	424.00	2,165	1,235	1,318
2.50	425.00	4,200	3,127	4,445
3.50	426.00	5,471	4,821	9,266

Culvert / Orifice Structures Weir Structures [A] [B] [C] [PrfRsr] [A] [B] [C] [D] = 0.00 Rise (in) = 12.000.00 0.00 0.00 0.00 0.00 0.00 Crest Len (ft) Span (in) = 12.00 0.00 0.00 0.00 Crest El. (ft) = 0.000.00 0.00 0.00 No. Barrels Weir Coeff. 3.33 = 1 0 0 = 3.333.33 3.33 Invert El. (ft) = 422.50 0.00 0.00 0.00 Weir Type = 15.00 0.00 0.00 0.00 Length (ft) Multi-Stage = No No No No n/a = 1.00 0.00 0.00 Slope (%) N-Value = .013 .013 .013 n/a Orifice Coeff. 0.60 0.60 0.60 = 0.000 (by Wet area) = 0.60Exfil.(in/hr) TW Elev. (ft) Multi-Stage = n/aNo No No = 0.00

Note: Culvert/Orifice outflows are analyzed under inlet (ic) and outlet (oc) control. Weir risers checked for orifice conditions (ic) and submergence (s).



Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

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	Rational	7.804	1	5	2,341				Pre-Development	
2	Rational	13.75	1	5	4,124				Post Dev DA 1	
3	Rational	9.245	1	5	2,774				Post Dev. DA 2	
4	Reservoir	0.863	1	10	2,769	3	426.32	2,456	Detention Pond	
5	Combine	5.731	1	5	4,276	2, 4			Total Post Dev	
6	Reservoir	2.640	1	8	4,275	5	423.70	942	Additional Pond	
Bryant Admin Hydrographs w gas sta.gpw					Return F	Return Period: 5 Year			Tuesday, 03 / 19 / 2024	

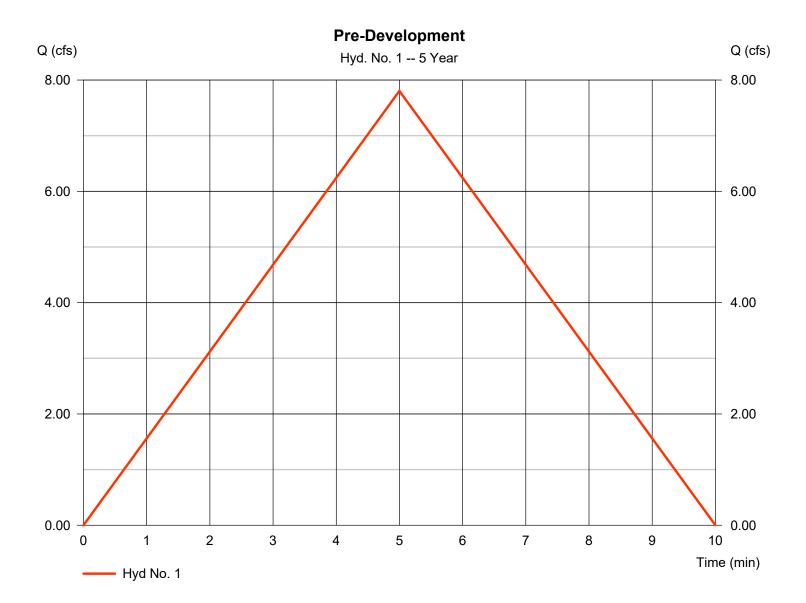
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Tuesday, 03 / 19 / 2024

Hyd. No. 1

Pre-Development

Hydrograph type = 7.804 cfs= Rational Peak discharge Storm frequency = 5 yrsTime to peak = 5 min Time interval = 1 min Hyd. volume = 2,341 cuft Runoff coeff. = 0.25*Drainage area = 4.700 acTc by User $= 5.00 \, \text{min}$ Intensity = 6.642 in/hr **IDF** Curve Asc/Rec limb fact = 1/1= Pulaski County.IDF



^{*} Composite (Area/C) = $[(5.900 \times 0.25) + (5.200 \times 0.90)] / 4.700$

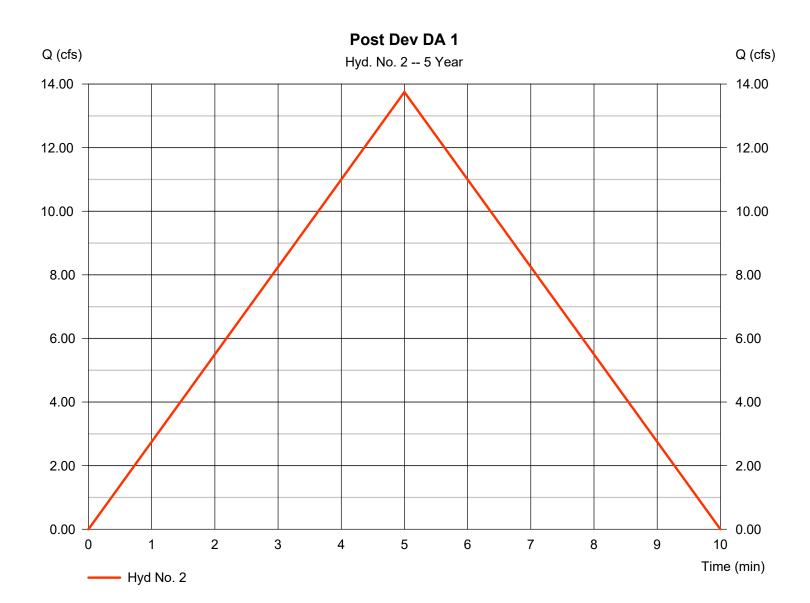
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Hyd. No. 2

Post Dev DA 1

Hydrograph type Peak discharge = 13.75 cfs= Rational Storm frequency = 5 yrsTime to peak = 5 min Time interval = 1 min Hyd. volume = 4,124 cuft Runoff coeff. = 0.9*Drainage area = 2.300 acIntensity = 6.642 in/hr Tc by User $= 5.00 \, \text{min}$ **IDF** Curve Asc/Rec limb fact = 1/1= Pulaski County.IDF



^{*} Composite (Area/C) = $[(0.700 \times 0.90) + (0.500 \times 0.25)] / 2.300$

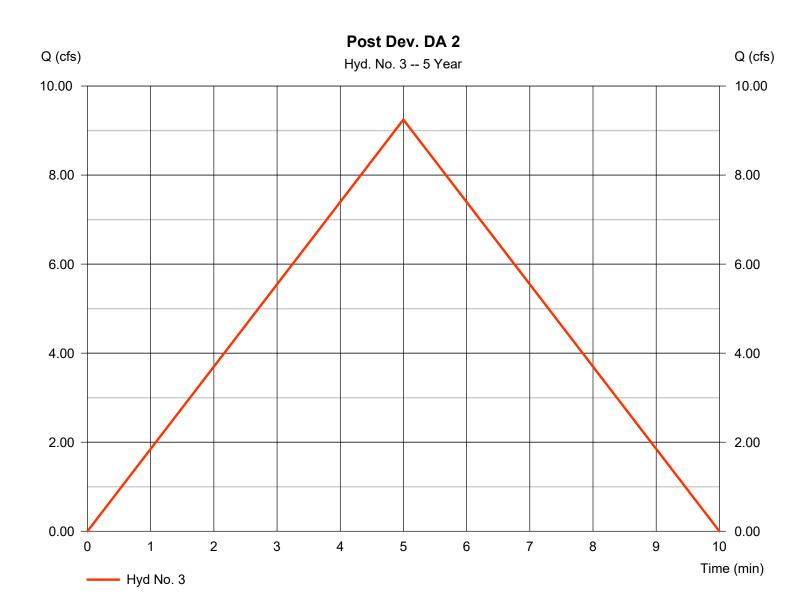
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Hyd. No. 3

Post Dev. DA 2

Hydrograph type Peak discharge = 9.245 cfs= Rational Storm frequency = 5 yrsTime to peak = 5 min Time interval = 1 min Hyd. volume = 2,774 cuftDrainage area Runoff coeff. = 0.58*= 2.400 acTc by User $= 5.00 \, \text{min}$ Intensity = 6.642 in/hr **IDF** Curve = Pulaski County.IDF Asc/Rec limb fact = 1/1



^{*} Composite (Area/C) = [(1.200 x 0.90) + (1.200 x 0.25)] / 2.400

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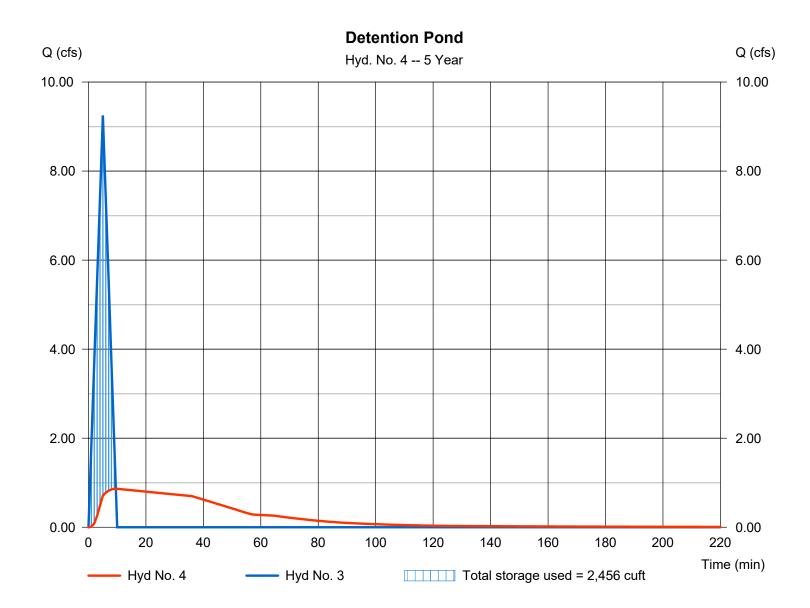
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Hyd. No. 4

Detention Pond

Hydrograph type = Reservoir Peak discharge = 0.863 cfsStorm frequency = 5 yrsTime to peak = 10 min Time interval = 1 min Hyd. volume = 2,769 cuftInflow hyd. No. = 3 - Post Dev. DA 2 Max. Elevation = 426.32 ft= Det. Pond Reservoir name Max. Storage = 2,456 cuft

Storage Indication method used.



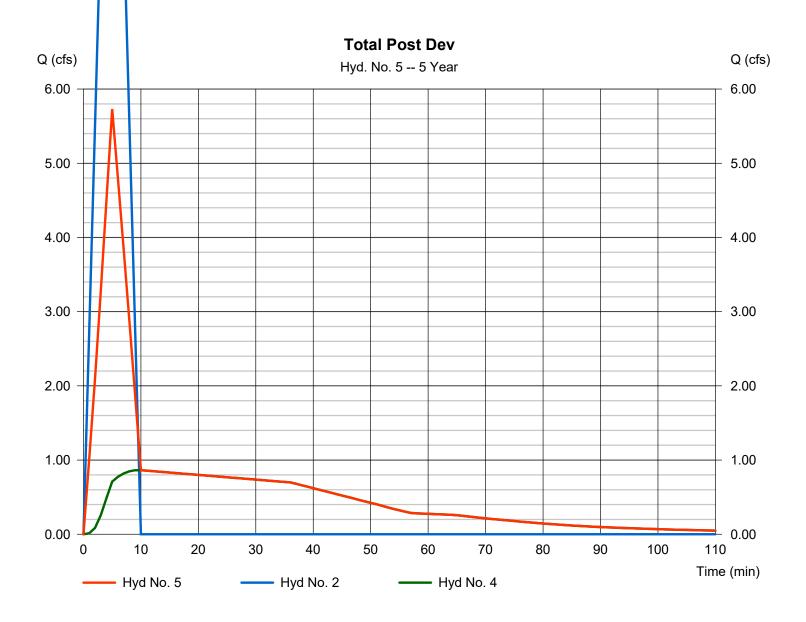
Hydraflow Hyd og raphs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

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Hyd. No. 5

Total Pos: Dev

Hydrograph type = Combine Peak discharge = 5.731 cfsStorm frequency Time to peak = 5 yrs= 5 min Time interval = 1 min Hyd. volume = 4,276 cuft Inflow hyds. = 2,4 Contrib. drain. area = 2.300 ac



Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

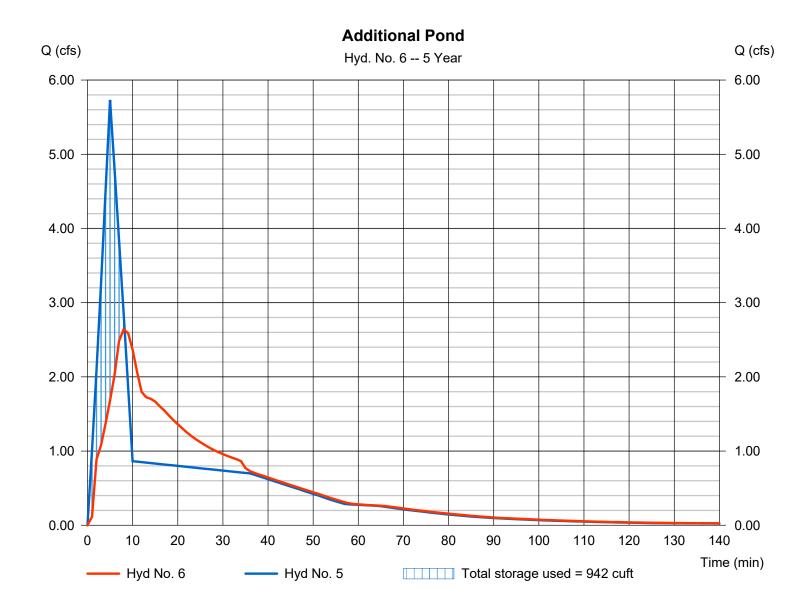
Tuesday, 03 / 19 / 2024

Hyd. No. 6

Additional Pond

Hydrograph type = Reservoir Peak discharge = 2.640 cfsStorm frequency = 5 yrsTime to peak = 8 min Time interval = 1 min Hyd. volume = 4,275 cuft= 5 - Total Post Dev Max. Elevation = 423.70 ftInflow hyd. No. = Additional Pond = 942 cuft Reservoir name Max. Storage

Storage Indication method used.



Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

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	Rational	8.638	1	5	2,591				Pre-Development	
2	Rational	15.22	1	5	4,565				Post Dev DA 1	
3	Rational	10.23	1	5	3,070				Post Dev. DA 2	
4	Reservoir	0.897	1	10	3,066	3	426.39	2,738	Detention Pond	
5	Combine	6.288	1	5	4,733	2, 4			Total Post Dev	
6	Reservoir	2.926	1	8	4,732	5	423.77	1,040	Additional Pond	
Bryant Admin Hydrographs w gas sta.gpw				Return [Period: 10 `	Vear	Tuesday	13 / 19 / 2024		
y اص	anı Aunilli Fi	yurograph	is w yas	sia.ypw	Retuini	c nou. IU	ı c ai	Tuesday, 03 / 19 / 2024		

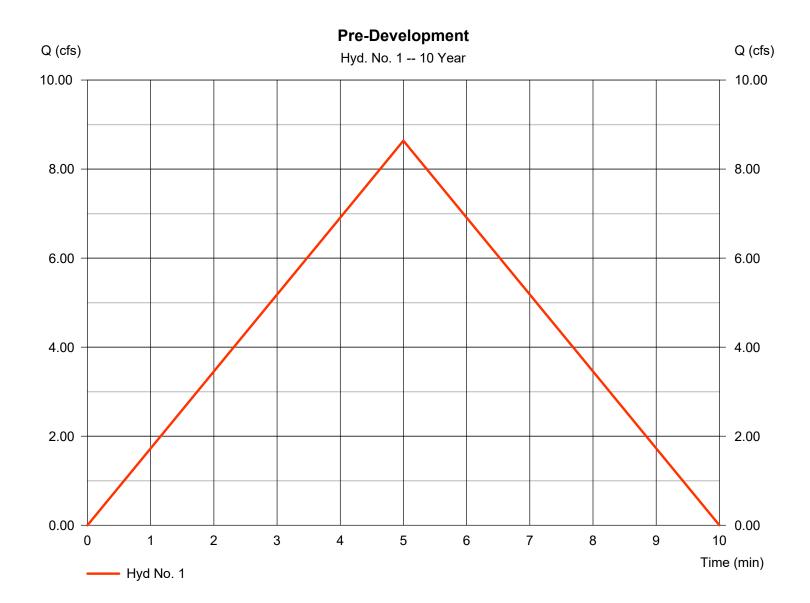
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

Tuesday, 03 / 19 / 2024

Hyd. No. 1

Pre-Development

Hydrograph type Peak discharge = 8.638 cfs= Rational Storm frequency = 10 yrsTime to peak = 5 min Time interval = 1 min Hyd. volume = 2,591 cuftRunoff coeff. = 0.25*Drainage area = 4.700 acTc by User $= 5.00 \, \text{min}$ Intensity = 7.351 in/hrIDF Curve = Pulaski County.IDF Asc/Rec limb fact = 1/1



^{*} Composite (Area/C) = $[(5.900 \times 0.25) + (5.200 \times 0.90)] / 4.700$

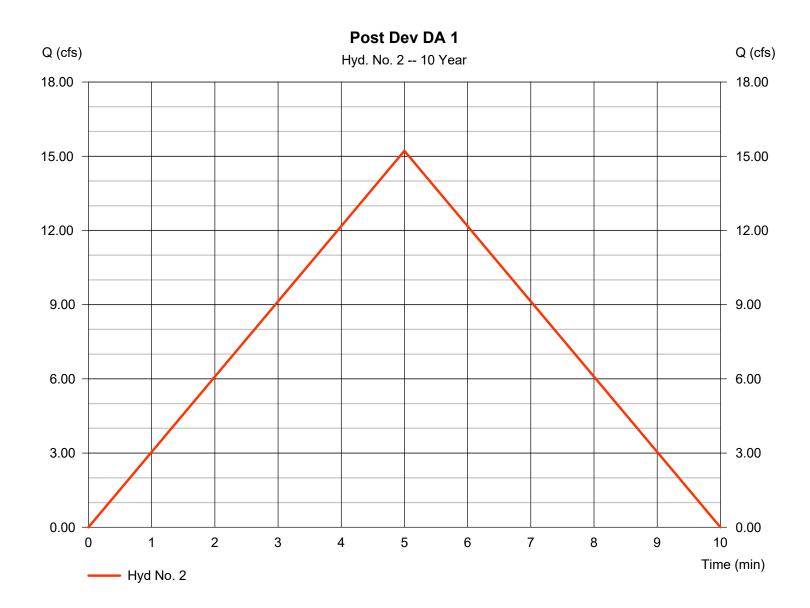
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

Tuesday, 03 / 19 / 2024

Hyd. No. 2

Post Dev DA 1

Hydrograph type Peak discharge = 15.22 cfs= Rational Storm frequency = 10 yrsTime to peak = 5 min Time interval = 1 min Hyd. volume = 4,565 cuftDrainage area Runoff coeff. = 0.9*= 2.300 acTc by User Intensity = 7.351 in/hr $= 5.00 \, \text{min}$ IDF Curve = Pulaski County.IDF Asc/Rec limb fact = 1/1



^{*} Composite (Area/C) = $[(0.700 \times 0.90) + (0.500 \times 0.25)] / 2.300$

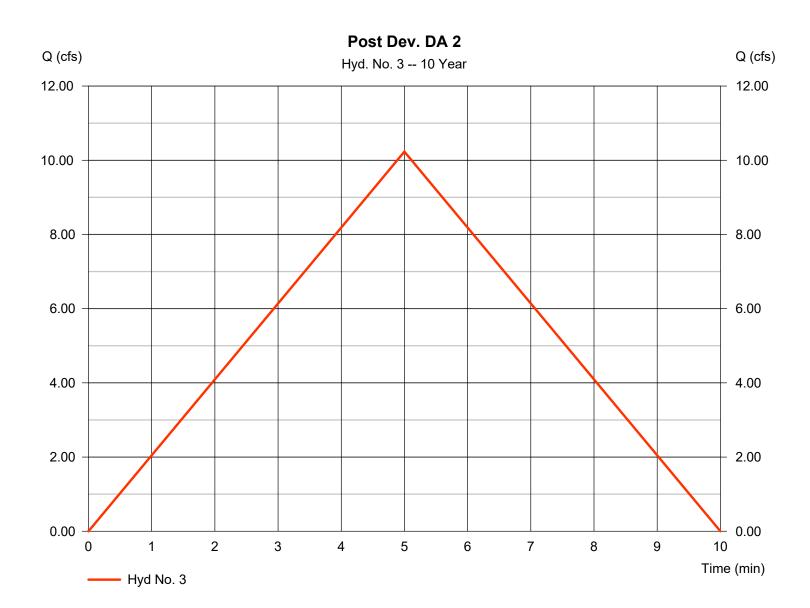
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

Tuesday, 03 / 19 / 2024

Hyd. No. 3

Post Dev. DA 2

Hydrograph type = 10.23 cfs= Rational Peak discharge Storm frequency = 10 yrsTime to peak = 5 min Time interval = 1 min Hyd. volume = 3,070 cuftRunoff coeff. = 0.58*Drainage area = 2.400 acIntensity = 7.351 in/hrTc by User $= 5.00 \, \text{min}$ **IDF** Curve Asc/Rec limb fact = 1/1= Pulaski County.IDF



^{*} Composite (Area/C) = [(1.200 x 0.90) + (1.200 x 0.25)] / 2.400

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

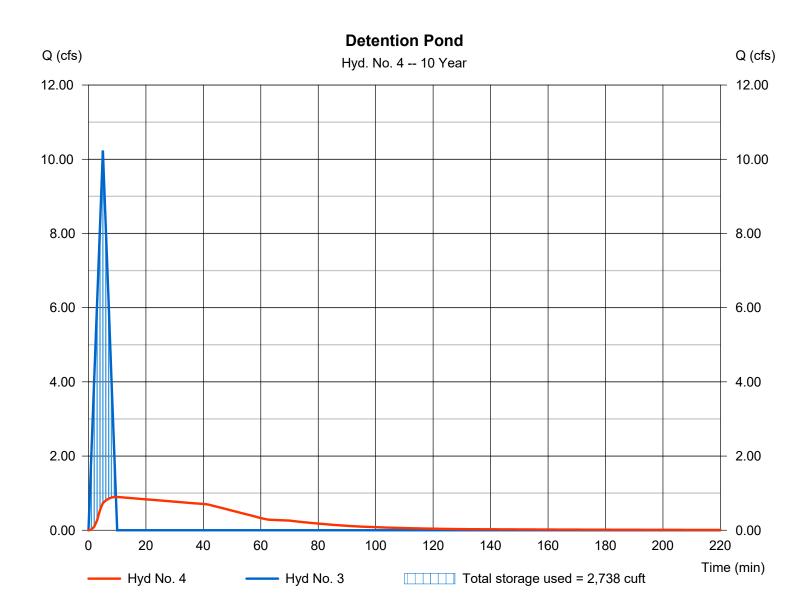
Tuesday, 03 / 19 / 2024

Hyd. No. 4

Detention Pond

Hydrograph type = Reservoir Peak discharge = 0.897 cfsStorm frequency = 10 yrsTime to peak = 10 min Time interval = 1 min Hyd. volume = 3,066 cuftMax. Elevation Inflow hyd. No. = 3 - Post Dev. DA 2 = 426.39 ft= Det. Pond Reservoir name Max. Storage = 2,738 cuft

Storage Indication method used.



Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

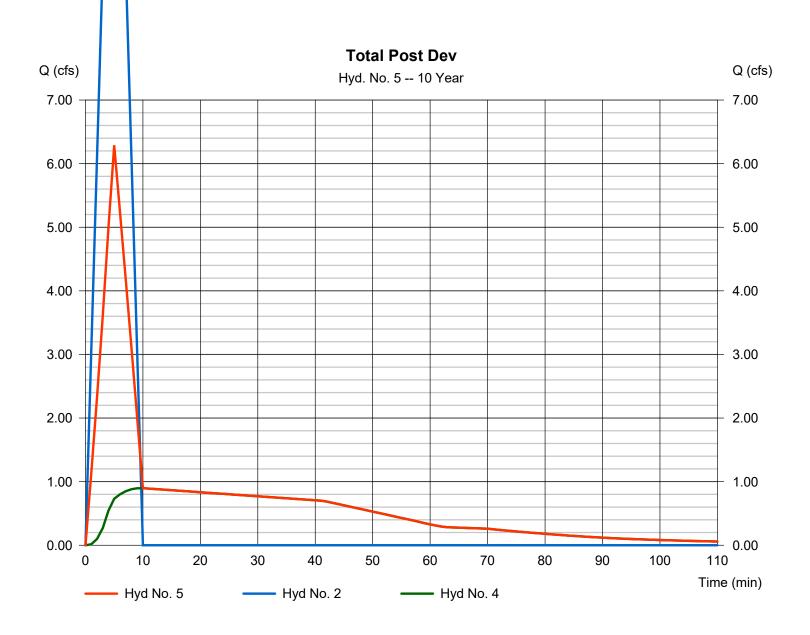
Tuesday, 03 / 19 / 2024

Hyd. No. 5

Total Post Dev

Hydrograph type = Combine
Storm frequency = 10 yrs
Time interval = 1 min
Inflow hyds. = 2, 4

Peak discharge = 6.288 cfs
Time to peak = 5 min
Hyd. volume = 4,733 cuft
Contrib. drain. area = 2.300 ac



Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

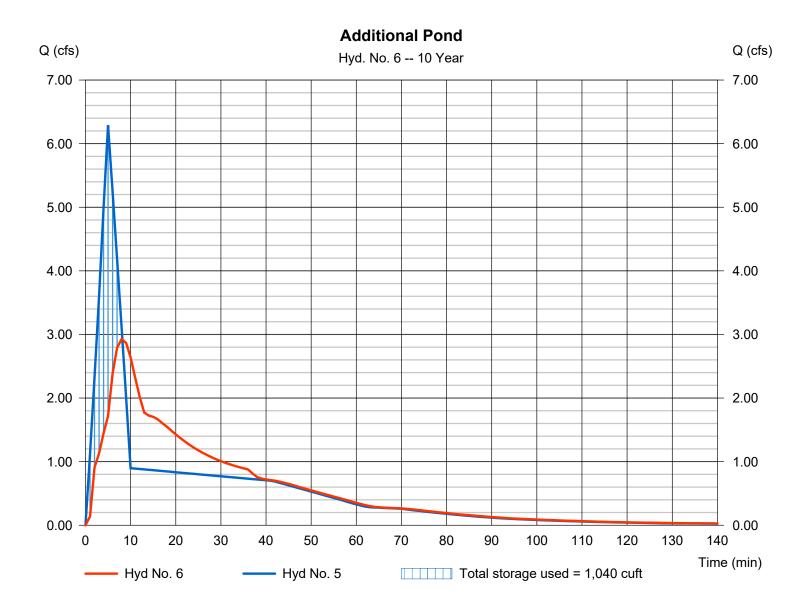
Tuesday, 03 / 19 / 2024

Hyd. No. 6

Additional Pond

Hydrograph type = Reservoir Peak discharge = 2.926 cfsStorm frequency = 10 yrsTime to peak = 8 min Time interval = 1 min Hyd. volume = 4,732 cuft= 5 - Total Post Dev Max. Elevation Inflow hyd. No. = 423.77 ft= Additional Pond Reservoir name Max. Storage = 1,040 cuft

Storage Indication method used.



Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

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	Rational	9.878	1	5	2,963				Pre-Development
2	Rational	17.40	1	5	5,220				Post Dev DA 1
3	Rational	11.70	1	5	3,511				Post Dev. DA 2
4	Reservoir	0.945	1	10	3,506	3	426.50	3,158	Detention Pond
5	Combine	7.116	1	5	5,413	2, 4			Total Post Dev
6	Reservoir	3.314	1	8	5,412	5	423.89	1,187	Additional Pond
Bryant Admin Hydrographs w gas sta.gpw					Return F	Period: 25 \	′ear	Tuesday, 03 / 19 / 2024	

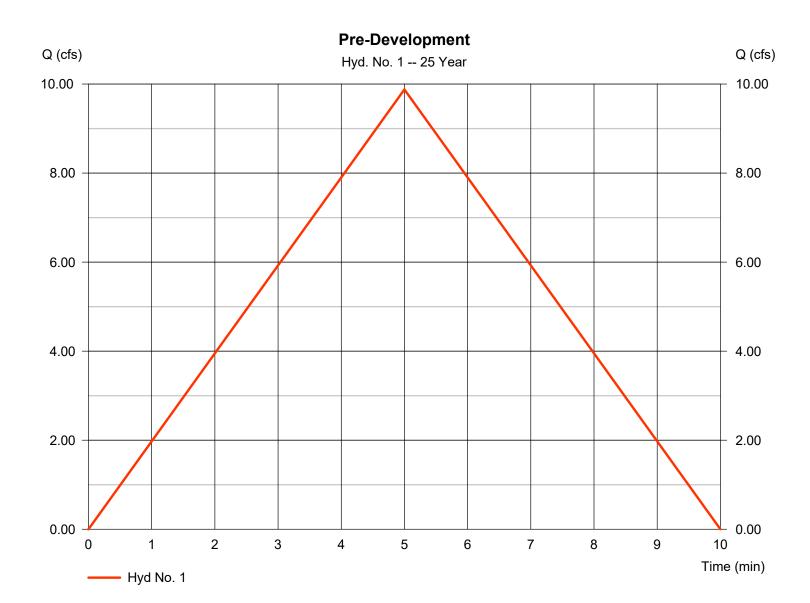
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

Tuesday, 03 / 19 / 2024

Hyd. No. 1

Pre-Development

Hydrograph type Peak discharge = Rational = 9.878 cfsStorm frequency = 25 yrsTime to peak = 5 min Time interval = 1 min Hyd. volume = 2,963 cuftDrainage area Runoff coeff. = 0.25*= 4.700 acTc by User $= 5.00 \, \text{min}$ Intensity = 8.406 in/hr **IDF** Curve = Pulaski County.IDF Asc/Rec limb fact = 1/1



^{*} Composite (Area/C) = $[(5.900 \times 0.25) + (5.200 \times 0.90)] / 4.700$

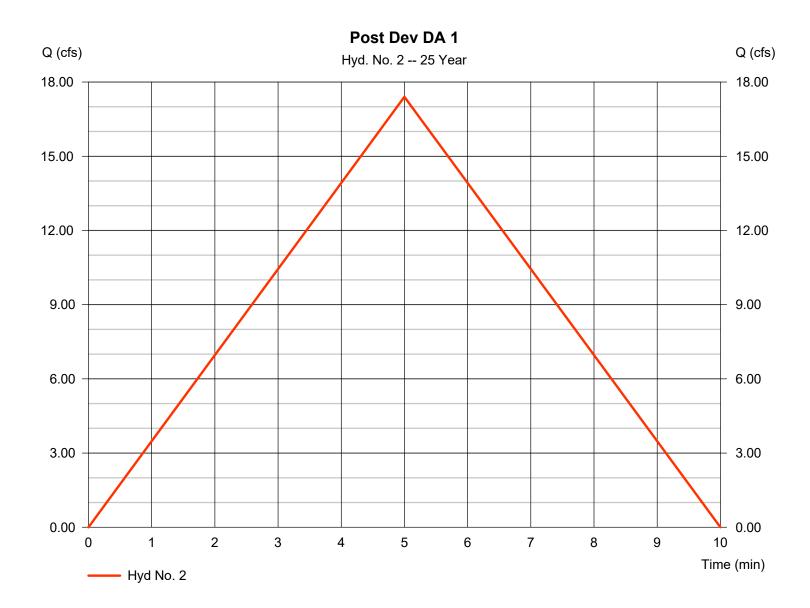
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

Tuesday, 03 / 19 / 2024

Hyd. No. 2

Post Dev DA 1

Hydrograph type = Rational Peak discharge = 17.40 cfsStorm frequency = 25 yrsTime to peak = 5 min Time interval = 1 min Hyd. volume = 5,220 cuftRunoff coeff. Drainage area = 2.300 ac= 0.9*Intensity = 8.406 in/hr Tc by User $= 5.00 \, \text{min}$ **IDF** Curve Asc/Rec limb fact = 1/1= Pulaski County.IDF



^{*} Composite (Area/C) = $[(0.700 \times 0.90) + (0.500 \times 0.25)] / 2.300$

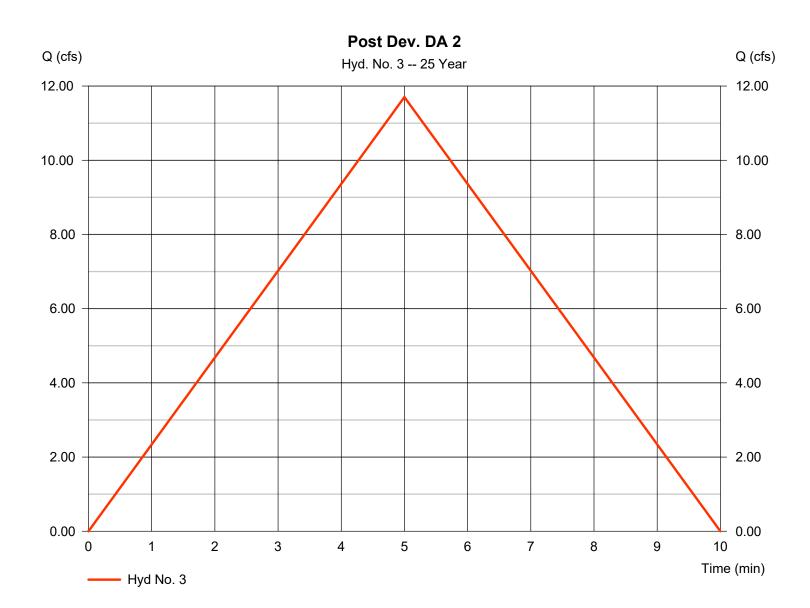
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

Tuesday, 03 / 19 / 2024

Hyd. No. 3

Post Dev. DA 2

Hydrograph type = 11.70 cfs= Rational Peak discharge Storm frequency = 25 yrsTime to peak = 5 min Time interval = 1 min Hyd. volume = 3,511 cuftRunoff coeff. Drainage area = 2.400 ac= 0.58*Intensity = 8.406 in/hr Tc by User $= 5.00 \, \text{min}$ **IDF** Curve Asc/Rec limb fact = 1/1= Pulaski County.IDF



^{*} Composite (Area/C) = [(1.200 x 0.90) + (1.200 x 0.25)] / 2.400

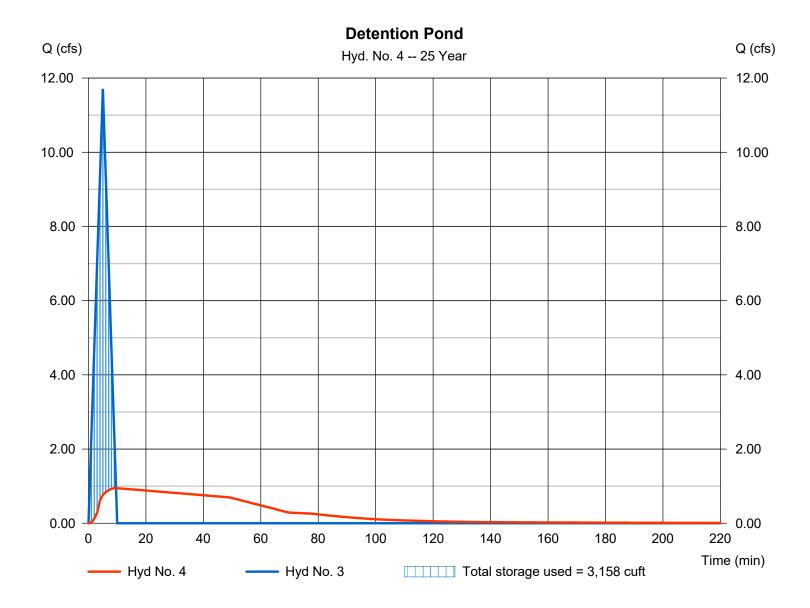
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

Tuesday, 03 / 19 / 2024

Hyd. No. 4

Detention Pond

Hydrograph type = Reservoir Peak discharge = 0.945 cfsStorm frequency = 25 yrsTime to peak = 10 min Time interval = 1 min Hyd. volume = 3,506 cuftMax. Elevation Inflow hyd. No. = 3 - Post Dev. DA 2 = 426.50 ftReservoir name = Det. Pond Max. Storage = 3,158 cuft



Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

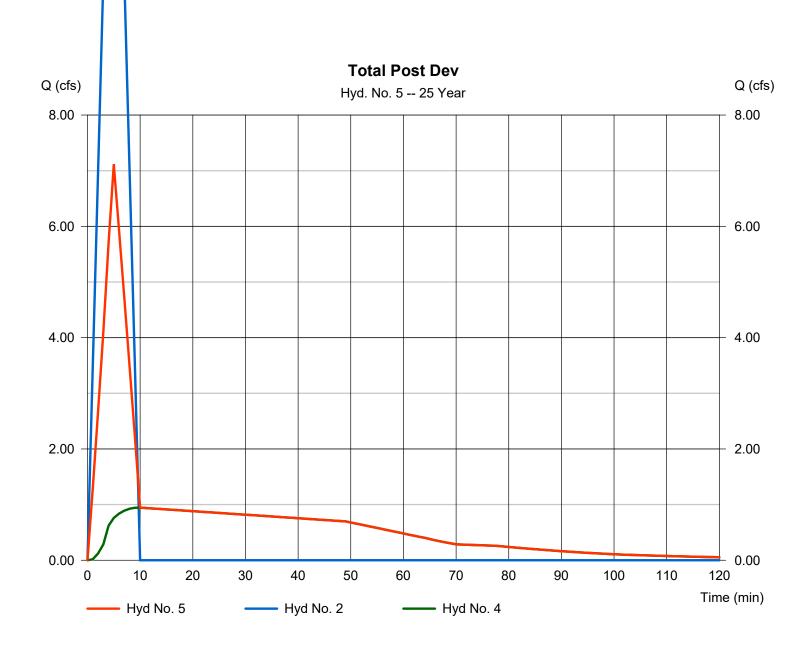
Tuesday, 03 / 19 / 2024

Hyd. No. 5

Total Post Dev

Hydrograph type = Combine
Storm frequency = 25 yrs
Time interval = 1 min
Inflow hyds = 2, 4

Peak discharge = 7.116 cfs
Time to peak = 5 min
Hyd. volume = 5,413 cuft
Contrib. drain. area = 2.300 ac



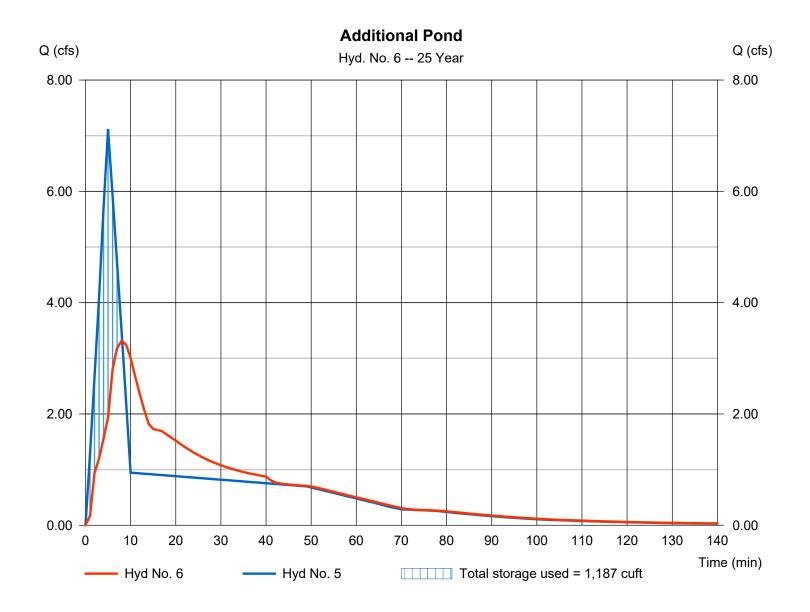
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

Tuesday, 03 / 19 / 2024

Hyd. No. 6

Additional Pond

= 3.314 cfsHydrograph type = Reservoir Peak discharge Storm frequency = 25 yrsTime to peak = 8 min Time interval = 1 min Hyd. volume = 5,412 cuft= 5 - Total Post Dev Max. Elevation Inflow hyd. No. = 423.89 ft= Additional Pond Reservoir name Max. Storage = 1,187 cuft



Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

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	Rational	10.86	1	5	3,257				Pre-Development	
2	Rational	19.13	1	5	5,738				Post Dev DA 1	
3	Rational	12.86	1	5	3,859				Post Dev. DA 2	
4	Reservoir	0.981	1	10	3,854	3	426.59	3,488	Detention Pond	
5	Combine	7.769	1	5	5,950	2, 4			Total Post Dev	
6	Reservoir	3.587	1	8	5,949	5	423.99	1,302	Additional Pond	
Bryant Admin Hydrographs w gas sta.gpw				Return F	Return Period: 50 Year			Tuesday, 03 / 19 / 2024		

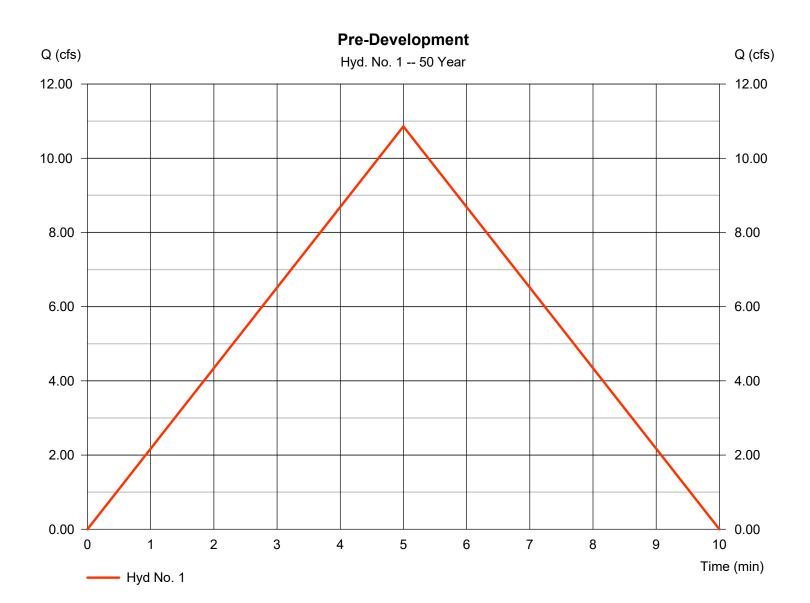
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

Tuesday, 03 / 19 / 2024

Hyd. No. 1

Pre-Development

Hydrograph type = Rational Peak discharge = 10.86 cfsStorm frequency = 50 yrsTime to peak = 5 min Time interval = 1 min Hyd. volume = 3,257 cuftRunoff coeff. = 0.25*Drainage area = 4.700 acIntensity = 9.240 in/hr Tc by User $= 5.00 \, \text{min}$ **IDF** Curve Asc/Rec limb fact = 1/1= Pulaski County.IDF



^{*} Composite (Area/C) = $[(5.900 \times 0.25) + (5.200 \times 0.90)] / 4.700$

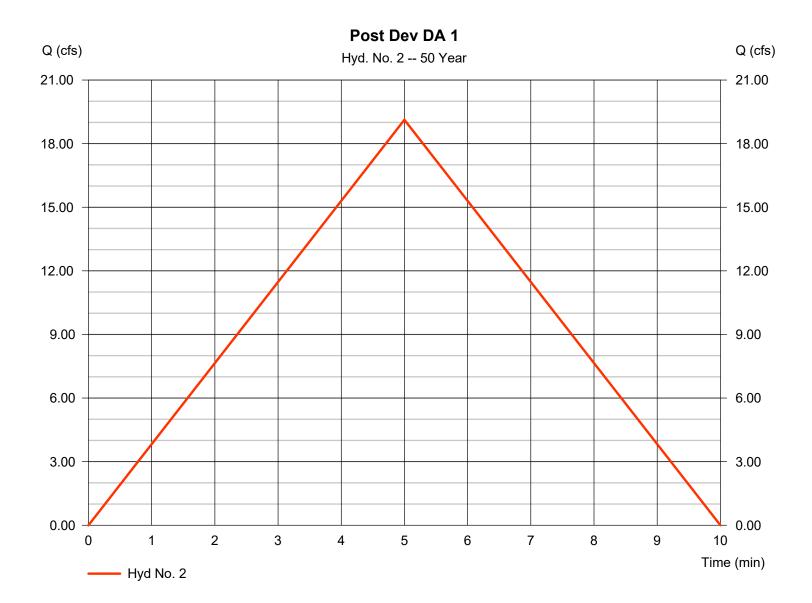
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

Tuesday, 03 / 19 / 2024

Hyd. No. 2

Post Dev DA 1

Hydrograph type = Rational Peak discharge = 19.13 cfsStorm frequency = 50 yrsTime to peak = 5 min Time interval = 1 min Hyd. volume = 5,738 cuftRunoff coeff. = 0.9*Drainage area = 2.300 ac $= 5.00 \, \text{min}$ Intensity = 9.240 in/hr Tc by User **IDF** Curve Asc/Rec limb fact = 1/1= Pulaski County.IDF



^{*} Composite (Area/C) = $[(0.700 \times 0.90) + (0.500 \times 0.25)] / 2.300$

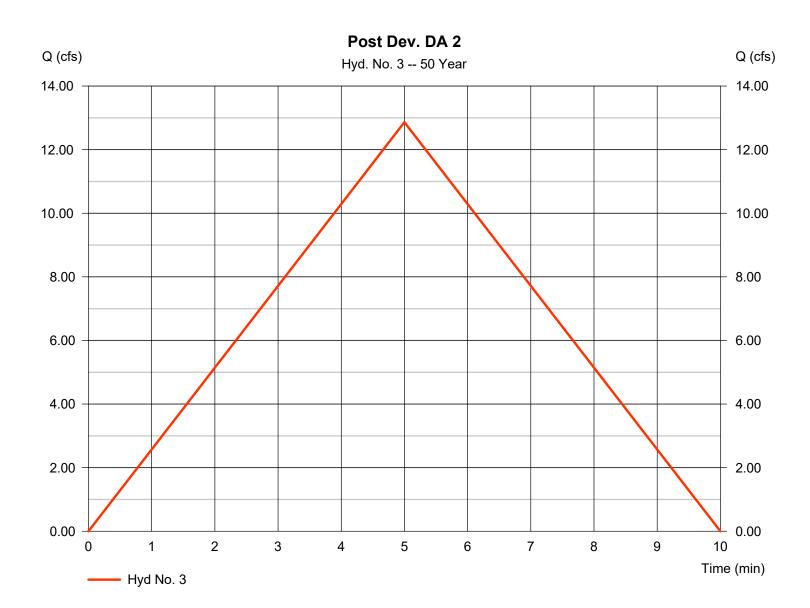
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

Tuesday, 03 / 19 / 2024

Hyd. No. 3

Post Dev. DA 2

Hydrograph type = 12.86 cfs= Rational Peak discharge Storm frequency = 50 yrsTime to peak = 5 min Time interval = 1 min Hyd. volume = 3.859 cuftRunoff coeff. = 0.58*Drainage area = 2.400 acIntensity = 9.240 in/hr Tc by User $= 5.00 \, \text{min}$ **IDF** Curve Asc/Rec limb fact = 1/1= Pulaski County.IDF



^{*} Composite (Area/C) = [(1.200 x 0.90) + (1.200 x 0.25)] / 2.400

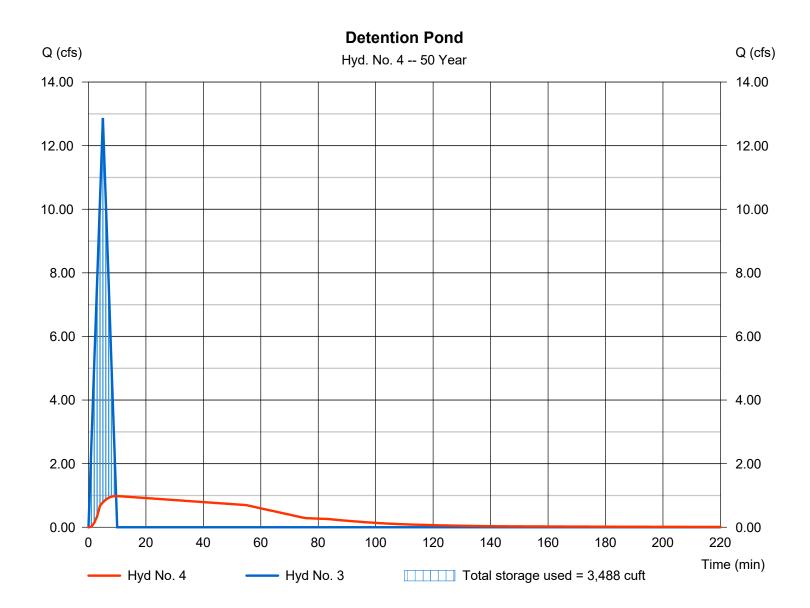
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

Tuesday, 03 / 19 / 2024

Hyd. No. 4

Detention Pond

Hydrograph type = Reservoir Peak discharge = 0.981 cfsStorm frequency = 50 yrsTime to peak = 10 min Time interval = 1 min Hyd. volume = 3,854 cuftInflow hyd. No. Max. Elevation = 426.59 ft= 3 - Post Dev. DA 2 = Det. Pond Reservoir name Max. Storage = 3,488 cuft



Hydraflow Hydro graphs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

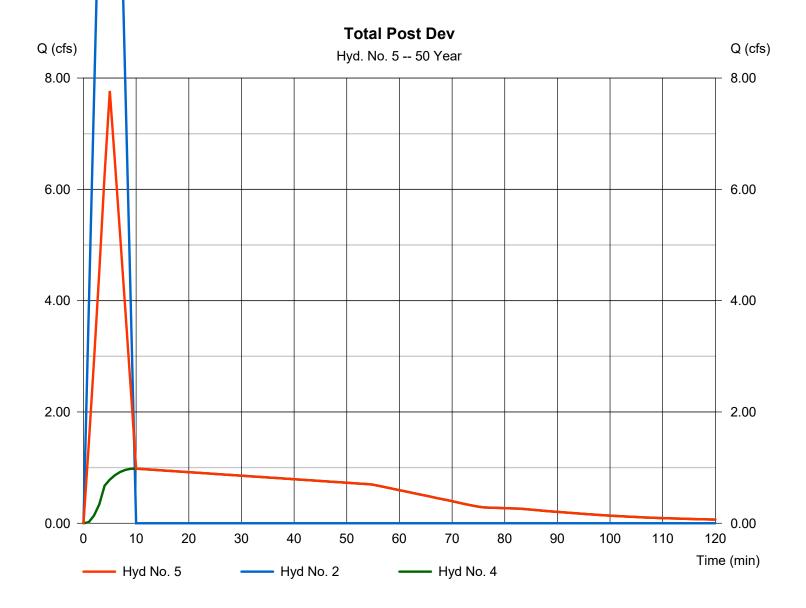
Tuesday, 03 / 19 / 2024

Hyd. No. 5

Total Post Dev

Hydrograph type = Combine
Storm frequency = 50 yrs
Time interval = 1 min
Inflow hyds = 2, 4

Peak discharge = 7.769 cfs
Time to peak = 5 min
Hyd. volume = 5,950 cuft
Contrib. drain. area = 2.300 ac



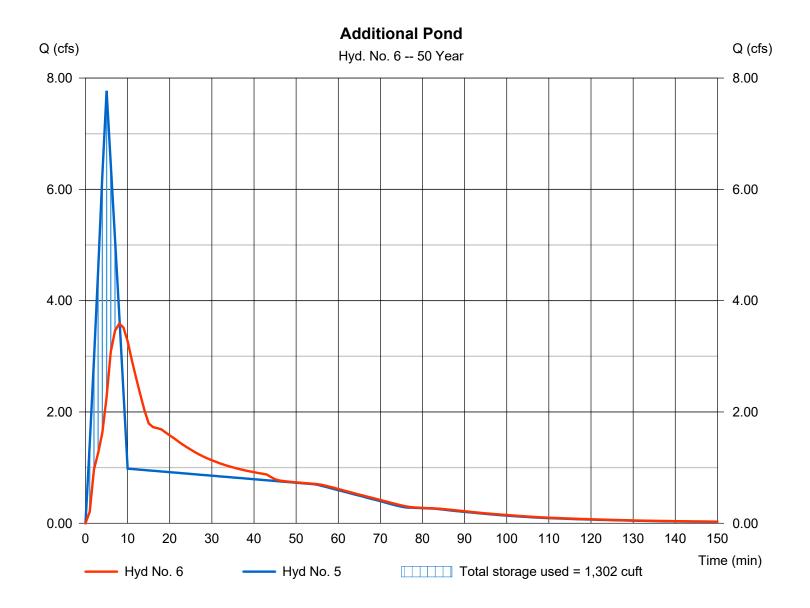
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

Tuesday, 03 / 19 / 2024

Hyd. No. 6

Additional Pond

Hydrograph type = Reservoir Peak discharge = 3.587 cfsStorm frequency = 50 yrsTime to peak = 8 min Time interval = 1 min Hyd. volume = 5,949 cuft= 5 - Total Post Dev Max. Elevation Inflow hyd. No. = 423.99 ft= Additional Pond Reservoir name Max. Storage = 1,302 cuft



Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

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	Rational	11.84	1	5	3,552				Pre-Development	
2	Rational	20.86	1	5	6,257				Post Dev DA 1	
3	Rational	14.02	1	5	4,207				Post Dev. DA 2	
4	Reservoir	1.016	1	10	4,203	3	426.67	3,820	Detention Pond	
5	Combine	8.423	1	5	6,488	2, 4			Total Post Dev	
6	Reservoir	3.720	1	8	6,488	5	424.04	1,429	Additional Pond	
Bry	Bryant Admin Hydrographs w gas sta.gpw				Return Period: 100 Year			Tuesday, 03 / 19 / 2024		

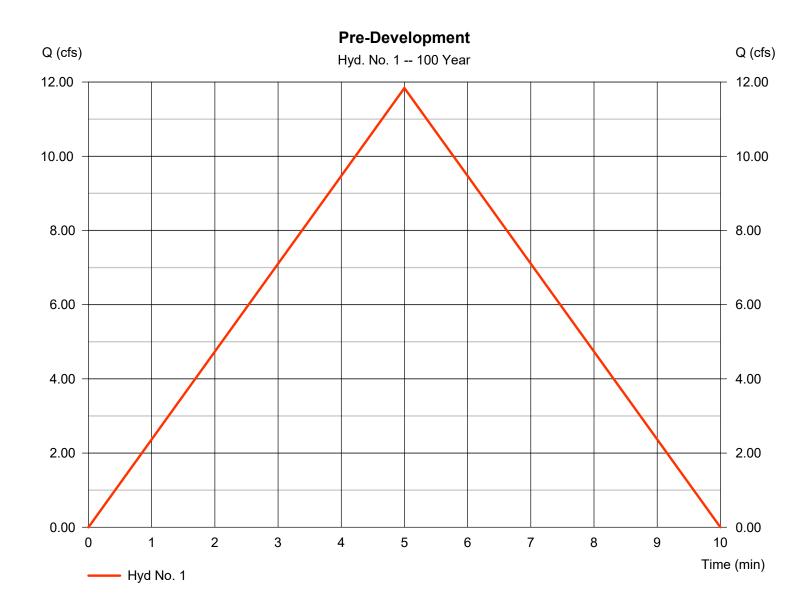
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

Tuesday, 03 / 19 / 2024

Hyd. No. 1

Pre-Development

Hydrograph type = Rational Peak discharge = 11.84 cfsStorm frequency = 100 yrsTime to peak = 5 min Time interval = 1 min Hyd. volume = 3,552 cuft Runoff coeff. = 0.25*Drainage area = 4.700 ac $= 5.00 \, \text{min}$ Intensity = 10.075 in/hrTc by User **IDF** Curve Asc/Rec limb fact = 1/1= Pulaski County.IDF



^{*} Composite (Area/C) = $[(5.900 \times 0.25) + (5.200 \times 0.90)] / 4.700$

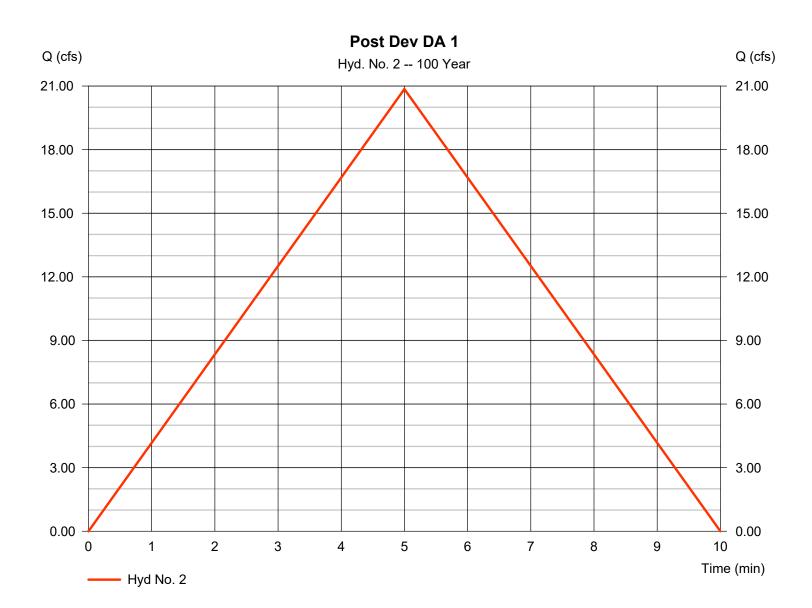
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

Tuesday, 03 / 19 / 2024

Hyd. No. 2

Post Dev DA 1

Hydrograph type Peak discharge = Rational = 20.86 cfsStorm frequency = 100 yrsTime to peak = 5 min Time interval = 1 min Hyd. volume = 6,257 cuft Runoff coeff. = 0.9*Drainage area = 2.300 acIntensity = 10.075 in/hrTc by User $= 5.00 \, \text{min}$ **IDF** Curve Asc/Rec limb fact = 1/1= Pulaski County.IDF



^{*} Composite (Area/C) = $[(0.700 \times 0.90) + (0.500 \times 0.25)] / 2.300$

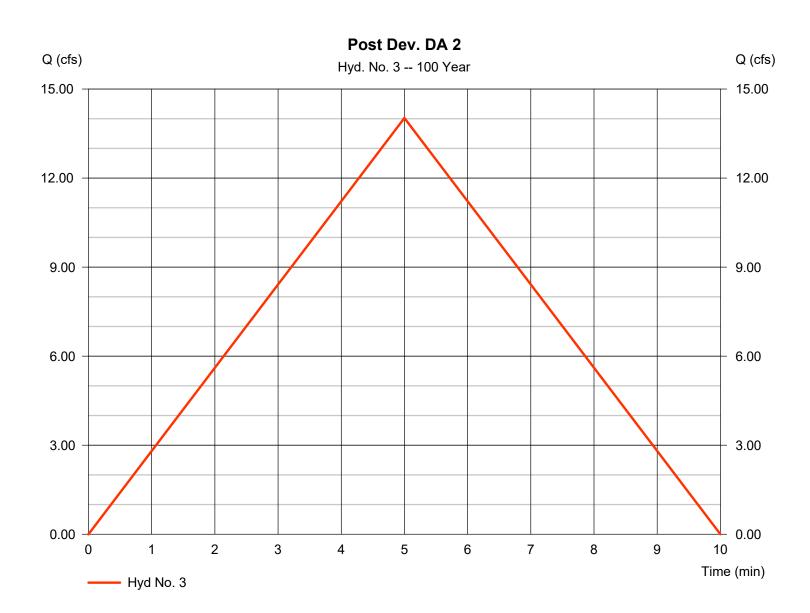
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

Tuesday, 03 / 19 / 2024

Hyd. No. 3

Post Dev. DA 2

Hydrograph type Peak discharge = Rational = 14.02 cfsStorm frequency = 100 yrsTime to peak = 5 min Time interval = 1 min Hyd. volume = 4,207 cuftRunoff coeff. = 0.58*Drainage area = 2.400 acTc by User Intensity = 10.075 in/hr $= 5.00 \, \text{min}$ **IDF** Curve Asc/Rec limb fact = 1/1= Pulaski County.IDF



^{*} Composite (Area/C) = [(1.200 x 0.90) + (1.200 x 0.25)] / 2.400

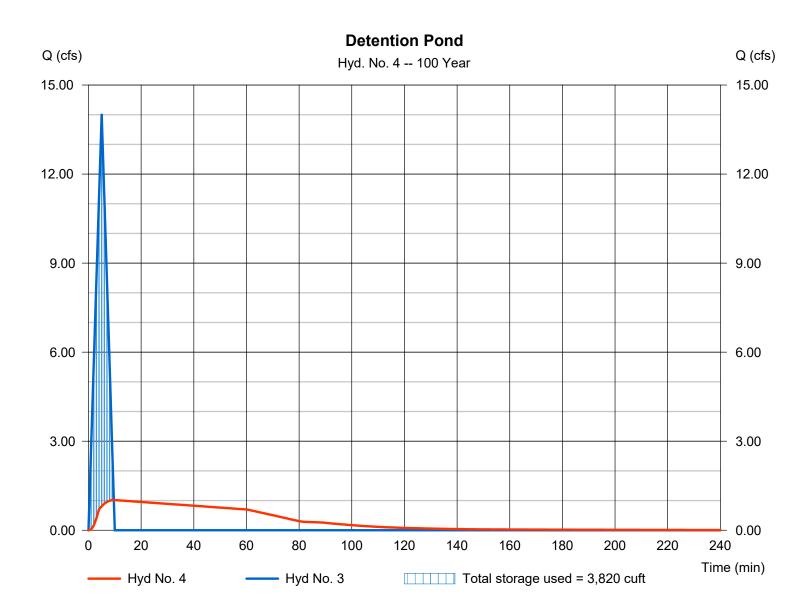
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

Tuesday, 03 / 19 / 2024

Hyd. No. 4

Detention Pond

Hydrograph type = Reservoir Peak discharge = 1.016 cfsStorm frequency Time to peak = 10 min = 100 yrsTime interval = 1 min Hyd. volume = 4,203 cuftMax. Elevation Inflow hyd. No. = 3 - Post Dev. DA 2 = 426.67 ft= Det. Pond Reservoir name Max. Storage = 3.820 cuft



Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

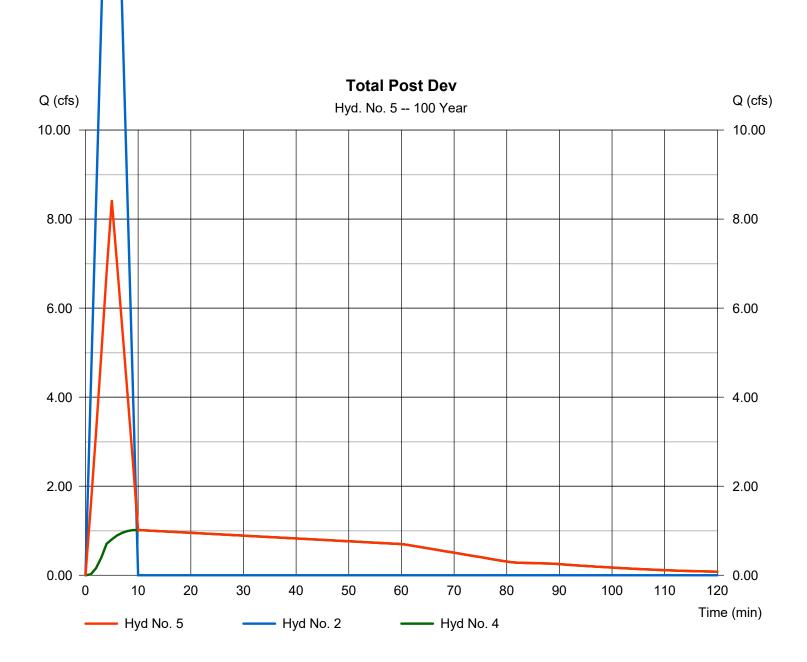
Tuesday, 03 / 19 / 2024

Hyd. No. 5

Total Pos: Dev

Hydrograph type = Combine
Storm frequency = 100 yrs
Time interval = 1 min
Inflow hyds = 2, 4

Peak discharge = 8.423 cfs
Time to peak = 5 min
Hyd. volume = 6,488 cuft
Contrib. drain. area = 2.300 ac



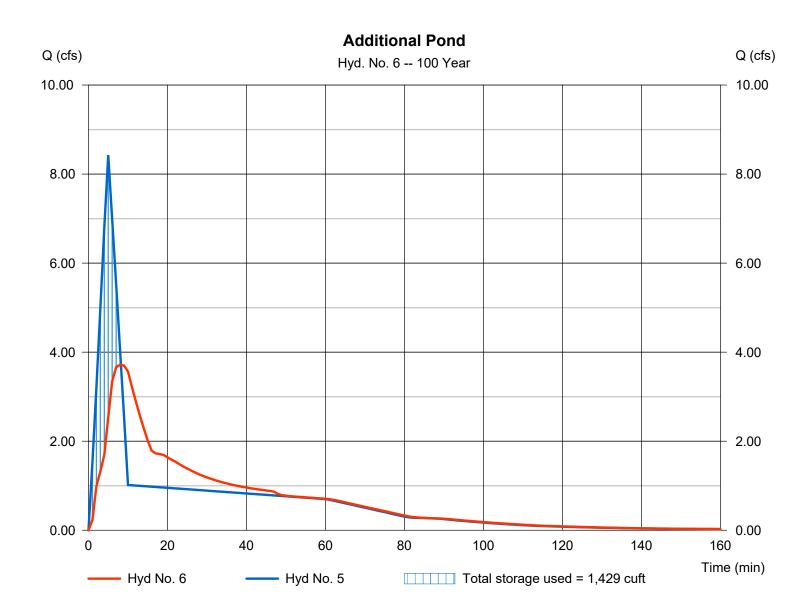
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

Tuesday, 03 / 19 / 2024

Hyd. No. 6

Additional Pond

Hydrograph type = Reservoir Peak discharge = 3.720 cfsStorm frequency Time to peak = 8 min = 100 yrsTime interval = 1 min Hyd. volume = 6,488 cuft Max. Elevation Inflow hyd. No. = 5 - Total Post Dev = 424.04 ft= Additional Pond Reservoir name Max. Storage = 1,429 cuft





SIGN PERMIT APPLICATION

Applicants are advised to read the Sign Ordinance prior to completing and signing this form. The Sign Ordinance is available at www.cityofbryant.com under the Planning and Community Development tab.

Date: 3/13 /2024	Note: Electrical Permits may be Required, Please contact the Community Development Office for more information.
Sign Co. or Sign Owner	Property Owner
Name L. Grophics Address 70/N. Roynolds Rd City, State, Zip Bryant, AR72022 Phone 501) 653-4444 Alternate Phone	Name Part Furguson Address 3507 Markt place Ste. 200 City, State, Zip Bryant, AR72022 Phone (501) 840-2782 Alternate Phone
GENERAL INFORMATION	
Name of Business P31 Boutique Address/Location of sign 3507 Marked Zoning Classification	place Ste, 200
Please use following page to provide details on the provided on this application, a Site Plan showing plan property is required to be submitted. Renderings of required to be submitted with the application. A this collected at the time of permit issuance. According to special sign permit request shall be one hundred doll required by Sign Administrator.	cement of sign(s) and any existing sign(s) on the the sign(s) showing the correct dimensions is also ty-five dollar (\$35) per sign payment will be the Sign Ordinance a fee for and sign variance or
READ CAREFULLY BEFORE SIGNING	
I	dless of approval. I further certify that the proposed sign is

that no sign may be placed in public right of way. I understand that I must comply with all Building and Electrical Codes and that it is my responsibility to obtain all necessary permits.

Use table below to enter information regarding each sign for approval. Please use each letter to reference each sign rendering.

SIGN	Type (Façade, Pole, Monument, other)	Dimensions (Height, Length, Width)	Sqft {Measured in whole as rectangle}	Height of Sign (Measured from lot surface)		Column for Admin Certifying Approval
				Top of Sign	Bottom of Sign	
Α	channel letter	60"×60"	25307	18	13	
В						
С						
E						
F						
G						



18 feet

