

PLANNING & ZONING COMMISSION MEETING

Tuesday, July 22, 2025 at 6:00 PM

Agenda

- 1. Call to Order
- 2. Opening Prayer and Pledge of Allegiance
- 3. Presented Items
 - A) Consideration of Resolutions, Recognizing Commissioner Sam McGaugh and Commissioner Tim Slattery for Public Service to Gluckstadt
- 4. Consideration and Approval of Minutes
 - A) Review and Approve June 24, 2025 Board Minutes
- 5. New Conditional Use Considerations
 - A) Discussion and Consideration of B&B Cosmetic MS LLC Conditional Use
- 6. New Site Plan Considerations
 - A) Discussion and Consideration of Wellspring Church Parking Expansion Site Plan
- 7. New Business
- 8. Next Meeting
 - A) The Next Planning and Zoning Meeting Will Be Held on August 26, 2025
- 9. Adjourn

MINUTES OF THE REGULAR MEETING OF THE PLANNING AND ZONING COMMISSION OF THE CITY OF GLUCKSTADT, MISSISSIPPI

A regular meeting of the Planning and Zoning Commission of the City of Gluckstadt, Mississippi ("the Board"), was duly called, held, and conducted on Tuesday, June 24, 2025, at 6:00 p.m. at Gluckstadt City Hall, 343 Distribution Drive, Gluckstadt, Madison County, Mississippi.

The following members were present, to-wit:

Sam McGaugh (Chairman) Melanie Greer (Vice-Chairwoman) Tim Slattery Andrew Duggar Katrina B. Myricks Phillips King Kayce Saik

Absent:

Also present:

Zachary L. Giddy, Attorney William Hall, City of Gluckstadt

Chairman Sam McGaugh called the meeting to order. Roll was called and it was announced that a majority of the voting members of the Board were present, and that said number constituted a quorum.

Chairman Sam McGaugh opened the meeting with prayer and led the Pledge of Allegiance.

All members of the Board present acknowledged receipt of the agenda and the agenda was as follows:

- 1. Call to Order
- 2. Opening Prayer and Pledge of Allegiance
- 3. Consideration and Approval of Minutes

A) Review and Approve May 27, 2025 Board Minutes

4. Request for Variance

- A) Discussion and Consideration of 1743 Hwy 51 Texaco Sign Variance
- 5. New Business
- 6. Next Meeting
 - A) The Next Planning and Zoning Meeting Will Be Held on July 22, 2025
- 7. Adjourn

The Board considered the Minutes of the May 27, 2025, regular meeting. Commissioner Kayce Saik moved to approve the minutes presented as written. The motion was seconded by Commissioner Melanie Greer and approved unanimously by all present Commissioners. The Chairman declared the motion carried.

Application by Sum Oil, LLC for Texaco Sign Variance

First came on for consideration an Application for Variance from the Sign Regulations by Sun Oil, LLC for Texaco for property located at 1743 Highway 51 and identified as Tax Parcel No. 082H-27-004/04.00, in the City of Gluckstadt. The property is currently zoned C-2 Highway Commercial District. There was no one present on behalf of the Applicant. William Hall advised that the applicant is requesting a height variance of the current ground sign regulations to 14'6" for the Texaco sign. William Hall further advised that no public hearing is required because the variance falls under the city's Sign Ordinance. Mr. Hall stated that under the Sign Ordinance, sign are limited to 6' in height. The application states the sign set back is 50' from the road; however Mr. Hall advised the set back is actually 6'.

There was discussion regarding the need for variance because of visibility issues and further discussion regarding heights of other signs throughout the city.

After discussion, Chairman Sam McGaugh called for a vote on the Application. On motion by Commissioner Melanie Greer and seconded by Commissioner Katrina Myricks, the Board present voted unanimously to recommend to the Mayor and Board of Aldermen that they deny the requested variance for Applicant to allow the 14'6" Texaco ground sign on the subject property located in the C-2 zoning district. The Chairman declared the motion carried.

NEW BUSINESS

Phillips King moved to have a Resolution drafted thanking Sam McGaugh and Tim Slattery for their service on the Planning and Zoning Board. The motion was seconded by Melanie Greer, and the Board present voted unanimously to have a Resolution drafted thanking Sam McGaugh and Tim Slattery for their service on the Planning and Zoning Board. The Chairman declared the motion carried.

OLD BUSINESS							
None.							
There was no further business to be presented.							
<u>ADJOURN</u>							
Commissioner Tim Slattery moved that the meeting be adjourned. The motion was seconded by Commissioner Phillips King and approved unanimously by all present Commissioners. The Chairman declared the Motion carried.							
WITNESS OUR HANDS, this the day of, 2025.							
SAM McGAUGH, Chairman							
MELANIE GREER, Vice Chairman/Secretary							

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City of Gluckstadt

Application for Conditional Use

Subject Property Address: 547 Church Rd, Parcel #: 082E-15-001	Madison, MS 39110
Owner:S & D Realty, LLC	B&B Cosmetic MS LLC Applicant:
Address: 115 Honours Lane	Address: 312 Bristlecone Court
Madison, MS 39110	Flowood, MS 39232
Phone #	626-551-1523
Phone #:E-Mail:	Phone #: bryan.tho1992@gmail.com_
Current Zoning District:	
Acreage of Property (If applicable):	
Use sought of Property: <u>Luxury Nail Salon</u>	

Requirements of Applicant:

- 1. Letter demonstrating how the proposed use will comply with or otherwise satisfy the requirements for granting a Conditional Use pursuant to Section 804.01 of the Zoning Ordinance.
- 2. Copy of written legal description.
- 3. Additional items may be requested depending on the nature and status of the proposed development or property.
- 4. \$ 250.00 fee required for processing
- 5. Sie Plan as required in Section 807-810

Requirements for Granting Conditional Use: (Section 805.01, Zoning Ordinance)

A Conditional Use shall not be granted unless satisfactory provisions and arrangements have been made concerning all the following:

- (a). Ingress and egress to property and proposed structures
- (b). Off-Street parking and loading areas
- (c). Refuse and service areas
- (d). Utilities, with reference locations, availability, and compatibility.
- (e). Screening and buffering with reference to type, dimensions, and character.
- (f). Required yards and other open spaces.
- (g). General compatibility with adjacent properties and other properties in the district.
- (h). Any other provisions deemed applicable by the Mayor and Board of Aldermen.

Applicant shall be present at the Planning and Zoning Commission meeting and Mayor and Board of Alderman meeting. Documents shall be submitted thirty (30) days prior to the Planning and Zoning Commission meeting

Applicant is responsible for complying with all applicable requirements of the Zoning Ordinance.

By signing this application, it is understood and agreed that permission is given to the Zoning Administrator to have a sign erected on subject property, giving notice to the public that said property is being considered for a dimensional variance.

Signed by: Byylinlu Nguyen Do	7/1/2025	
Applicant Signature	Date	
Property Owner Signature	7/1/25 Date	

Docusign Envelope ID: DC9564CE-D7D0-4628-A1CE-7A3D6BF975B1

Section 5, Item A)

Dear the City of Gluckstadt,

I am writing to express my interest in opening a luxury nail salon in Gluckstadt, Mississippi. With

over 20 years in the beauty and wellness industry, this luxury salon will fill a significant gap in the

market.

Currently, all nail salons are located on the west side of I-55, while the east side is underserved. My

proposed location will provide high-end, relaxing services with premium products in a spa-like

atmosphere, attracting clients who seek more than just a basic service. This project will create local

job opportunities and contribute to the area's retail growth.

Establishing a luxury salon on the east side will also help balance traffic and reduce congestion in

the west side's retail areas. This aligns with the city's goals for equitable development.

I kindly request your support in approving my application. I am eager to discuss this further and

provide any additional information that may be needed.

Thank you for your consideration.

Warm regards,

Signed by:

Quynhnhu Do

7/1/2025

B&B Cosmetic MS LLC

Chynlenler Myrgen Vo

7

Invoice

JOURNAL

Column Software PBC PO Box 208098 Dallas, TX 75320-8098 help.column.us

Bill to

above.

City of Gluckstadt Planning and Zoning

Invoice number
Notice ID
Publisher
Date of issue
Date due
Amount due

20571CB1-0055 C8iwKGvEsfbfVIIUvK16 Madison County Journal Jul 1, 2025 Aug 1, 2025

\$27.00

Description	Qty	Unit price	Amount
07/03/2025: Governmental Entity Notice	1	15.00	15.00
Proof of Publication Fee	1	5.00	5.00
=== Notes === Notice Name: Conditional Use 547 Church Ru		Net Subtotal	\$20.00
=== How to pay this invoice === Column Software PBC accepts online payment via credit or debit c	ard, or	Tax	0.00
ACH bank transfers. Please click here to pay online: https://www.column.us/invoices/f4TYSu8MypH1q8vjprNk/pay		Processing Fee	7.00
Please note that, once paid, the merchant name on your billing stawill be Column Software PBC.	itements	Amount due	\$27.00



Pay here: https://www.column.us/invoices/f4TYSu8MypH1q8vjprNk/pay

Select organizations may also pay via check, Checks will result in processing delays and should not be used if your notice requires upfront payment. Please pay the exact amount due, write your invoice number 20571CB1-0055 on the memo, include a printed copy of your Invoice PDF, make the check payable to Column Software PBC, and mail to the address



INTERIM AD DRAFT

This is the proof of your ad scheduled to run in **Madison County Journal** on the dates indicated below. If changes are needed, please contact us prior to deadline at **(601) 853-4222**.

Notice ID: C8iwKGvEsfbfVIIUvK16 | **Proof Updated: Jul. 01, 2025 at 01:59pm CDT**Notice Name: Conditional Use

This is not an invoice. Below is an estimated price, and it is subject to change. You will receive an invoice with the final price upon invoice creation by the publisher.

FILER

FILING FOR

Bridgette Smith

Madison County Journal

bridgette.smith@gluckstadt.net

(769) 567-2306

Columns Wide:

Ad Class: Legals

Total Column Inches: 2.17

Number of Lines:

19

07/03/2025: Governmental Entity

15.00

Proof of Publication Fee

5.00

Subtotal

\$20.00

Tax

\$0.00

Processing Fee

\$7.00

Total

\$27.00

IS HEREBY GIVEN TO THOSE PARTIES IN INTEREST that there will be a public hearing on Tuesday, July 22, 2025 at 6:00 PM before the Gluckstadt Planning and Zoning Commission at the Gluckstadt City Hall, 343 Distribution Drive, Gluckstadt, MS 39110 for the purpose of determining whether or not a conditional use shall be granted to B & B Cosmetic MS LLC for the following address:

547 Church Road

The public hearing in relation thereto shall provide parties i interest and citizens an opportunity to be heard . A copy is available at City Hall for inspection by the public

City of Gluckstadt

Application for Site Plan Review Subject Property Address: Lo+ 6, Glucks tast Business Park

Parcel #: 082F-21-025/00,00 Applicant: Wollspring Methodist Church Owner: Wellspring Mothodist Church Address: 418 Business Park Dr Gluckstedt, MS Address: P.O. Box 3344 Ridgeland, M5 39158 Arth: John Moore, Secretary Phone #: 601-260-6834
E-Mail: john@johndmoorepa.com Phone #: 601-853-9131 E-Mail: _____ Acreage of Property (If applicable): _ Use sought of Property: Parking Lot & Greenspace

Requirements of Applicant:

- Copy of written legal description.
- 2. Site Plan as required in Sections 807-810 of City of Gluckstadt Zoning Ordinance
- 3. Color Rendering & Elevations at time of submittal

Requirements for Site Plan Submittal (Refer to Section 807, Gluckstadt Zoning Ordinance) Nine (9) copies of the site plan shall be prepared and submitted to the Zoning Administrator. Digital copies are acceptable. Three (3) hard copies are required.

Site Plan Specifications (Section 809, Zoning Ordinance)

- A. Lot Lines (property lines)
- B. Zoning of the adjacent lots
- C. The names of owners of adjacent lots
- D. Rights of way existing and proposed streets, including streets shown on the adopted Throughfares plan
- E. Access ways, curb cuts, driveways, and parking, including number of parking spaces to be provided
- F. All existing and proposed easements
- G. All existing and proposed water and sewer lines. Also, the location of all existing and proposed fire hydrants.
- H. Drainage plan showing existing and proposed storm drainage facilities. The drainage plan shall indicate adjacent off site drainage courses and projected storm water flow rates from off-site and on-site sources.

- 1. Contours at vertical intervals of five (5) feet or less.
- J. Floodplain designation, according to FEMA Maps.
- K. Landscaped areas and planting screens.
- L. Building lines and the locations of all structures, existing and proposed
- M. Proposed uses of the land and buildings, if known
- N. Open space and recreation areas, where required.
- O. Area in square feet, and/or square acres of parcel
- P. Proposed gross lot coverage in square feet
- Q. Number and type of dwelling units where proposed
- R. Location of sign structures and drawings. (Section 701)
- S. Location of garbage dumpster and enclosure. (Section 406.06)
- T. Any other data necessary to allow for a through evaluation of the proposed use, including a traffic study.

Applicant shall be present at the monthly meeting of the Planning and Zoning Commission when site plan is on the agenda for consideration; additionally, applicant shall be present at the Mayor and Board of Alderman meeting when the site plan is on the agenda for final approval.

Applicant is responsible for complying with all applicable requirements of the Gluckstadt Zoning Ordinance.

Site Plans shall be submitted by the 5:00 pm on the 5th day of the month, immediately preceding the next regular meeting of the Planning and Zoning Commission. <u>No Exceptions.</u>

Once submitted to the Planning & Zoning Administrator for approval to add to the Planning and Zoning Commission's agenda, no amendments or changes shall be made to the site plan. If you wish to submit changes, you will be required to resubmit by the 5th of the following month for the next monthly meeting of the Planning and Zoning Commission.

Attestation: By signing this application, the applicant agrees to all the terms and conditions laid out in this document. Approval of site plan is subject to Board approval.

Applicant Signature Moore, Secretary Date

Wellspring Methodist Church

CITY OF GLUCKSTADT BUILDING DEPARTMENT
OFFICE USE ONLY

Date Received:

7.7.2025

Application Complete & Approved to Submit to P&Z Board (please check):

Yes

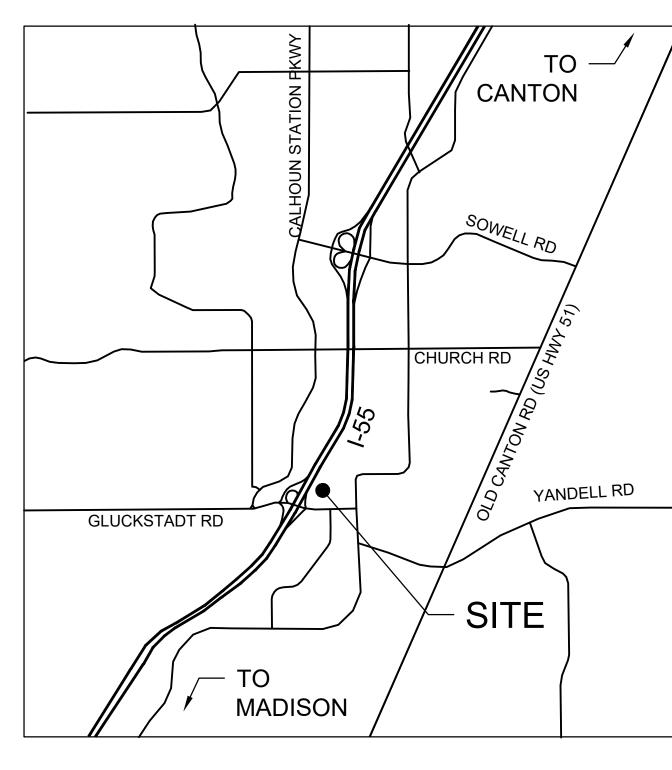
Signature:

Planning & Zoning Administrator (or Authorized Representative)

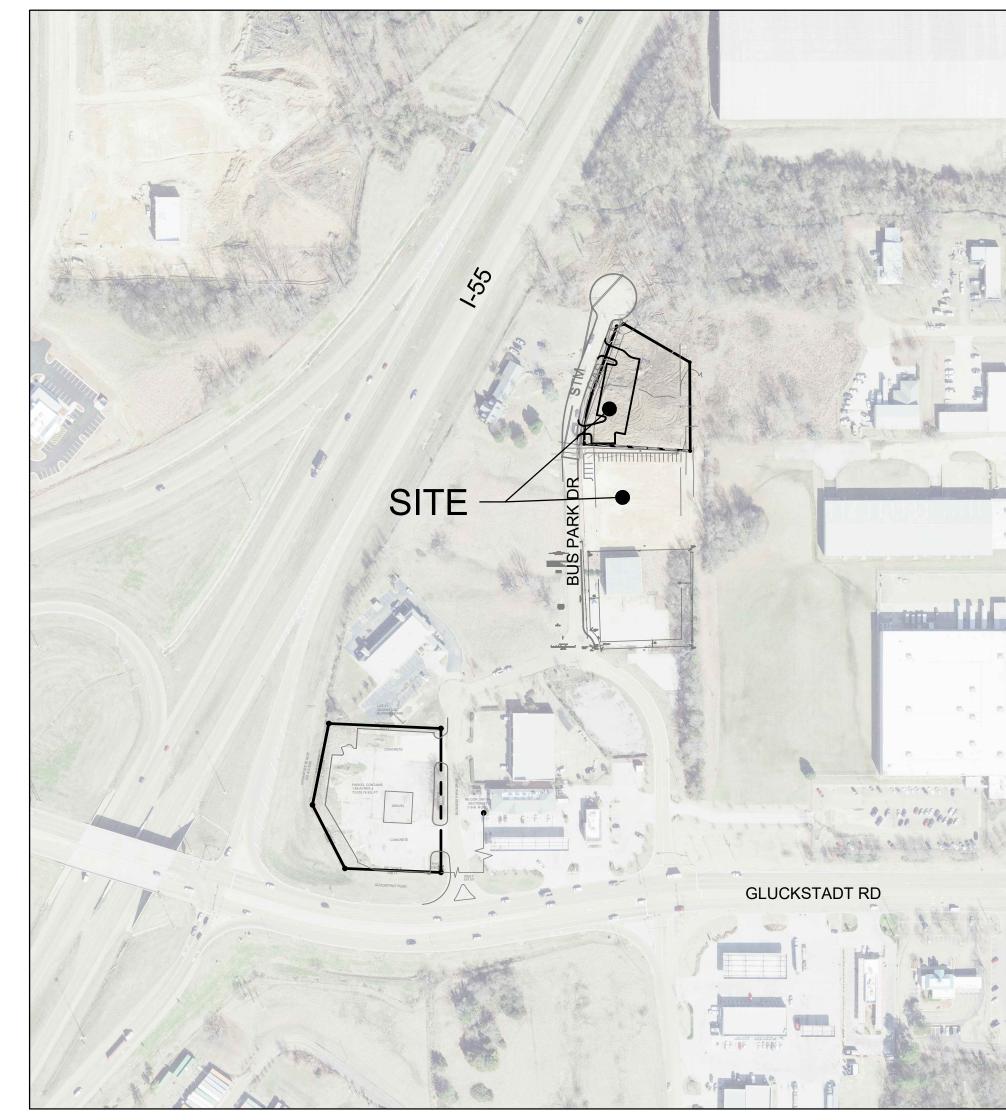
WELLSPRING CHURCH

PROPOSED PARKING LOT EXPANSION

418 BUS PARK DR MADISON, MS 39110



CITY LOCATION



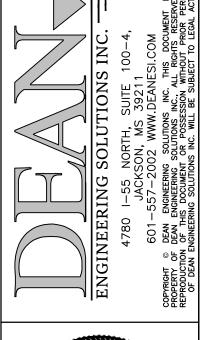
STREET LOCATION

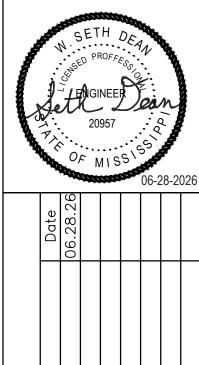
TABLE OF CONTENTS

- C1.0 COVER
- C2.0 EXISTING CONDITIONS & DEMO PLAN
- C3.0 SITE PLAN
- C4.0 GRADING PLAN
- C5.0 EROSION CONTROL PLAN (SWPPP)



STATE LOCATION





FING
Description

PLANS SUBMITTED FOR REVIEW

ARK DR
5 39110

CHURCH PARKING EXPANSION

WELLSPR
WELLSPR
CHURC
VER

PROJECT TITLE: WELLSPRING CHURCH PA

SHEET TITLE:

COVER

DATE: 09 JUN 2029

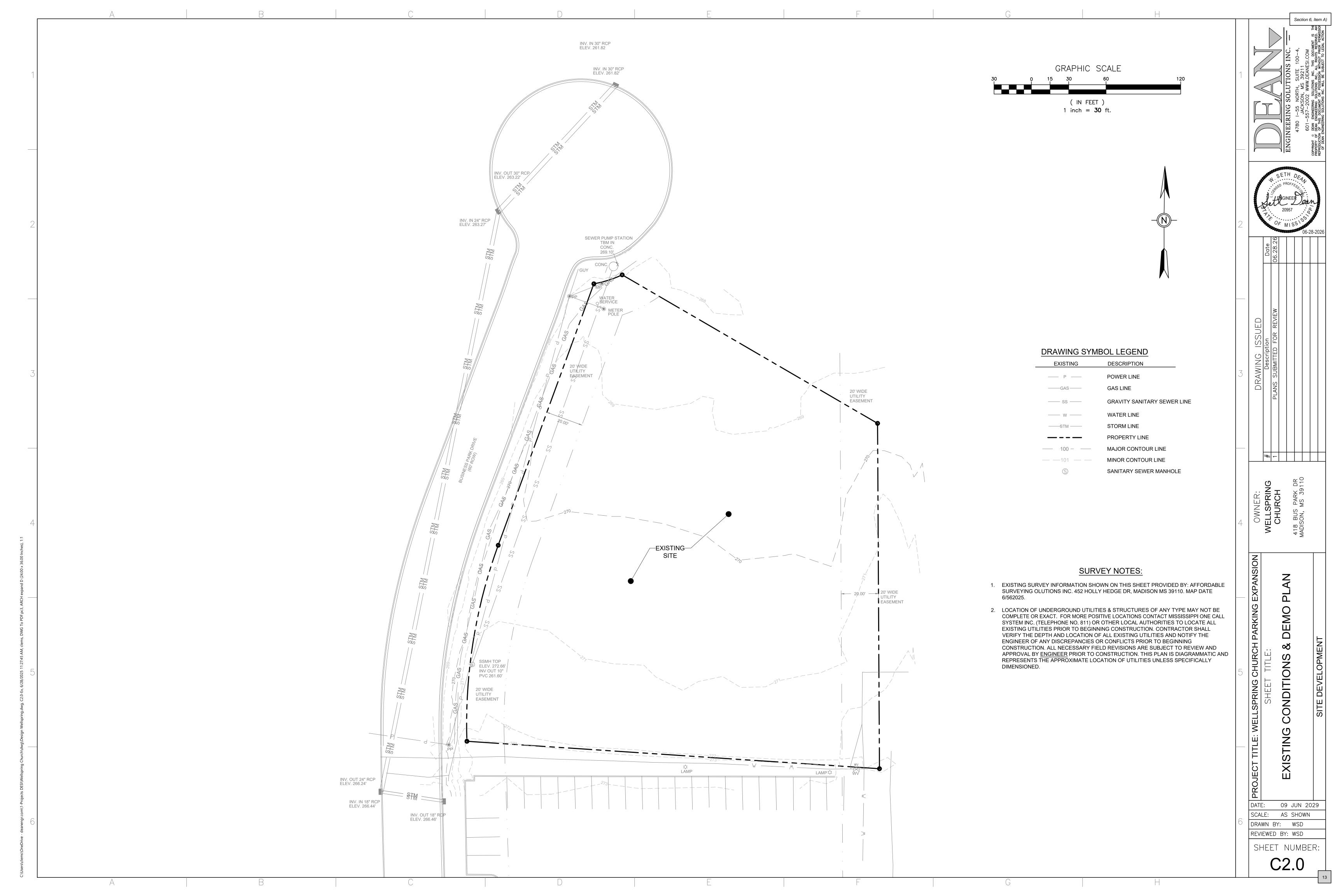
SCALE: AS SHOWN

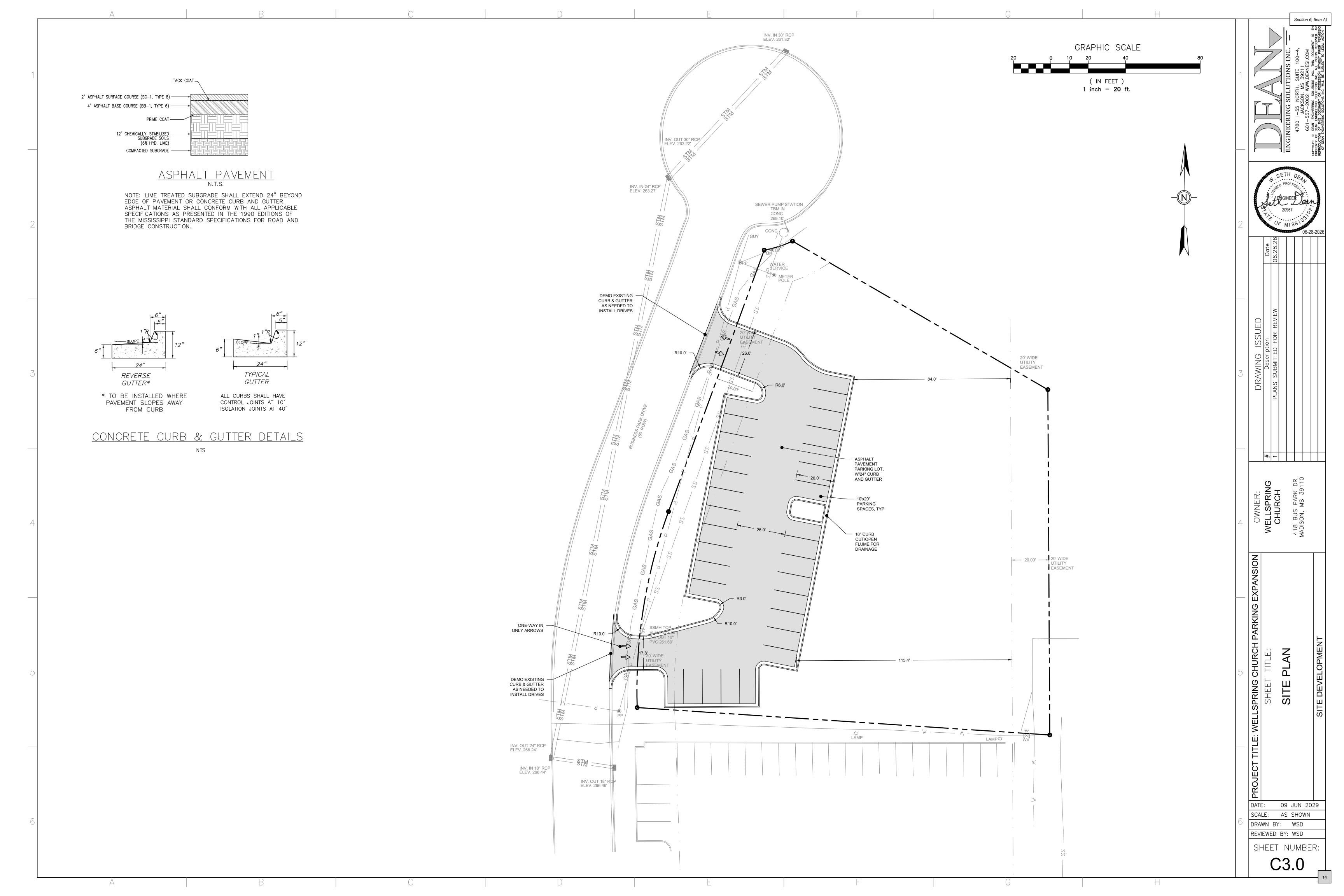
DRAWN BY: WSD

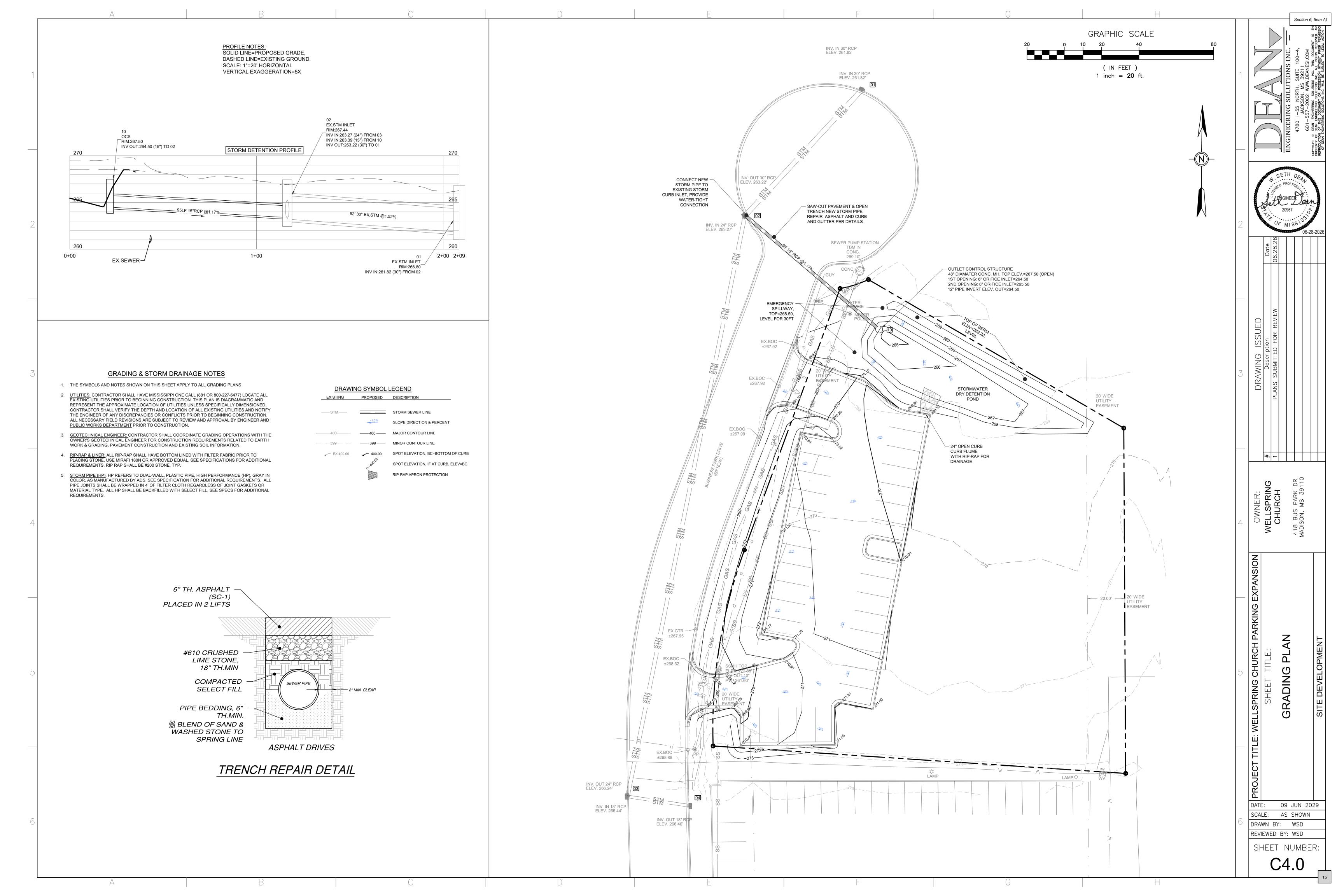
REVIEWED BY: WSD

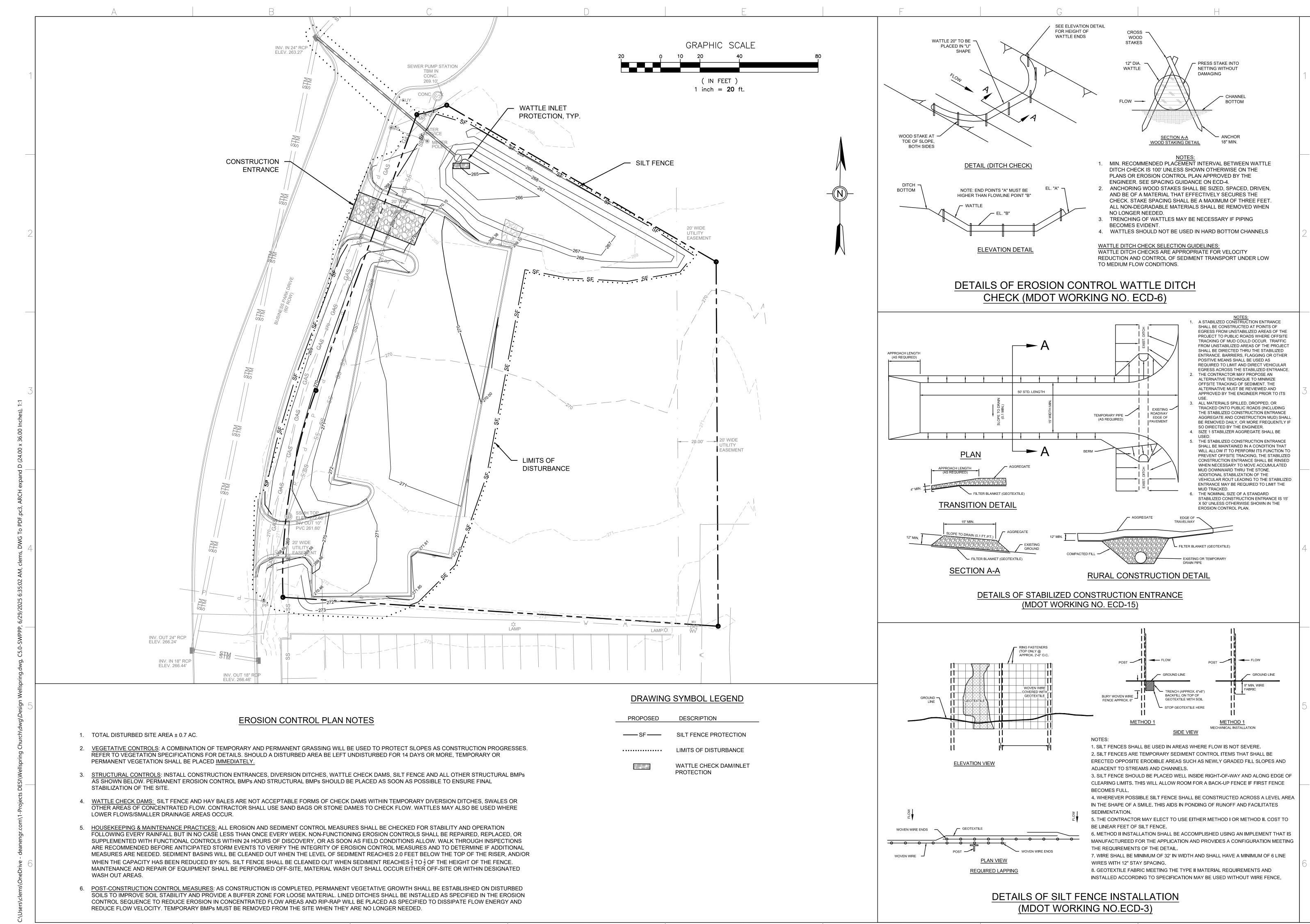
SHEET NUMBER:











0

09 JUN 2029 SCALE: AS SHOWN

DRAWN BY: WSD REVIEWED BY: WSD

SHEET NUMBER:



www.de Section 6, Item A)
ph: 601-557-2002
info@deanesi.com

Stormwater Impact Analysis

For

Wellspring Church
A Proposed Site Development
418 Bus Park Dr
Madison, MS 39110

Report Prepared by:

Dean Engineering Solutions Inc.



Issue Dates 28 Jun 2025 <u>Description</u> Submittal for Review

Section 6. Item A)

Project Overview

The existing site lies on a roughly 1-acre tract of land in the City of Gluckstadt along Bus Park Dr. The project will feature a new asphalt parking lot expansion. Stormwater management for the site will be handled with a new dry detention pond that is sized to accommodate all the new development, plus future building expansion areas within the 1-acre tract.

Existing Site Description:

According to the USDA Natural Resource Conservation Service, Web Soil Survey Service mapping, the existing site soils are Grenada silt loam, which have been modeled as USDA hydrologic soils group C.

According to FEMA FIRM Map #28089c0415G effective January 17, 2025, the site lies within zone X of the 100-year flood plain, areas of minimal flood hazard.

Stormwater Management Requirements:

The City of Gluckstadt requires peak stormwater discharge flows for all new development to be equal to or less than the pre-development condition for the 2-100 year storm events.

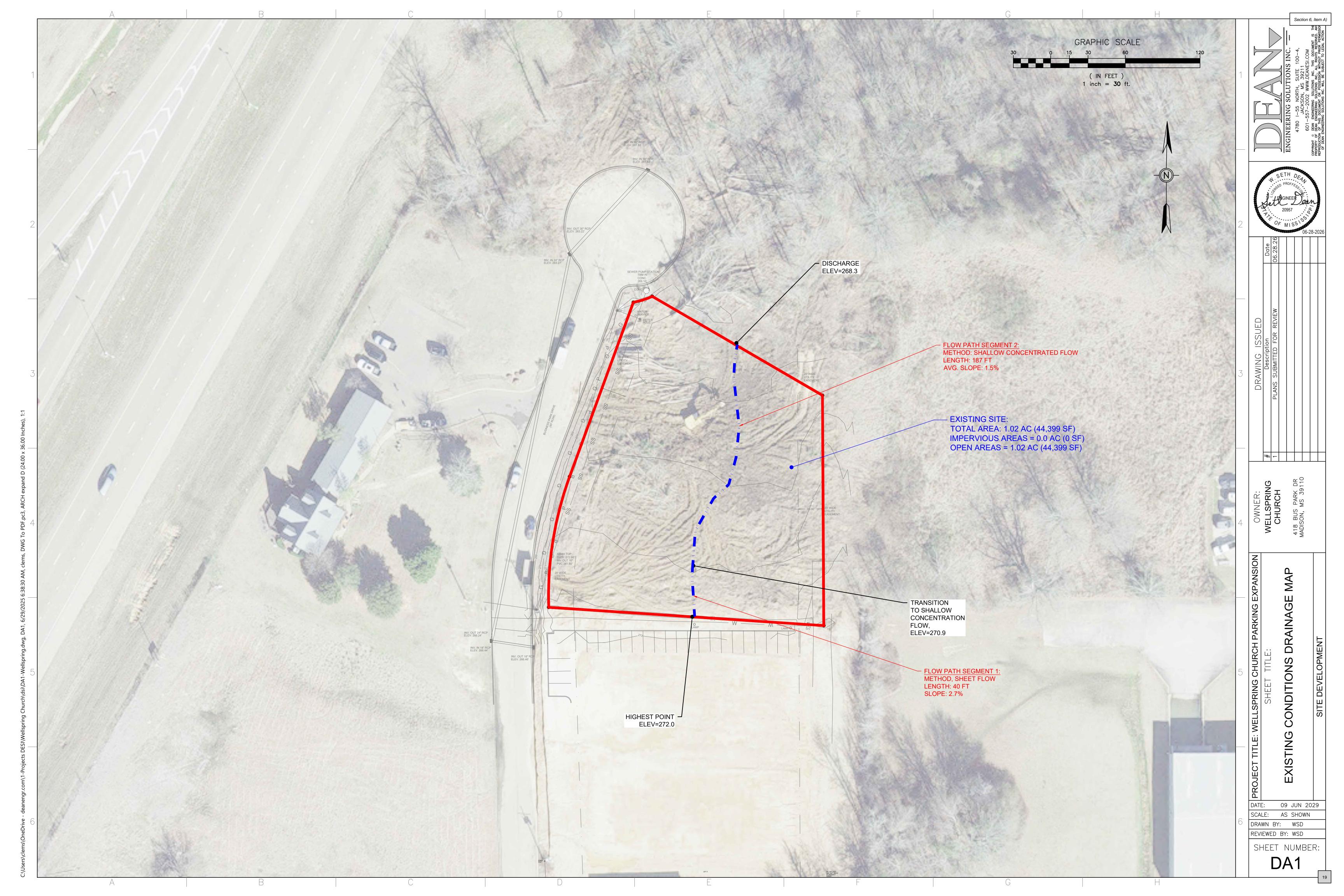
Conclusion:

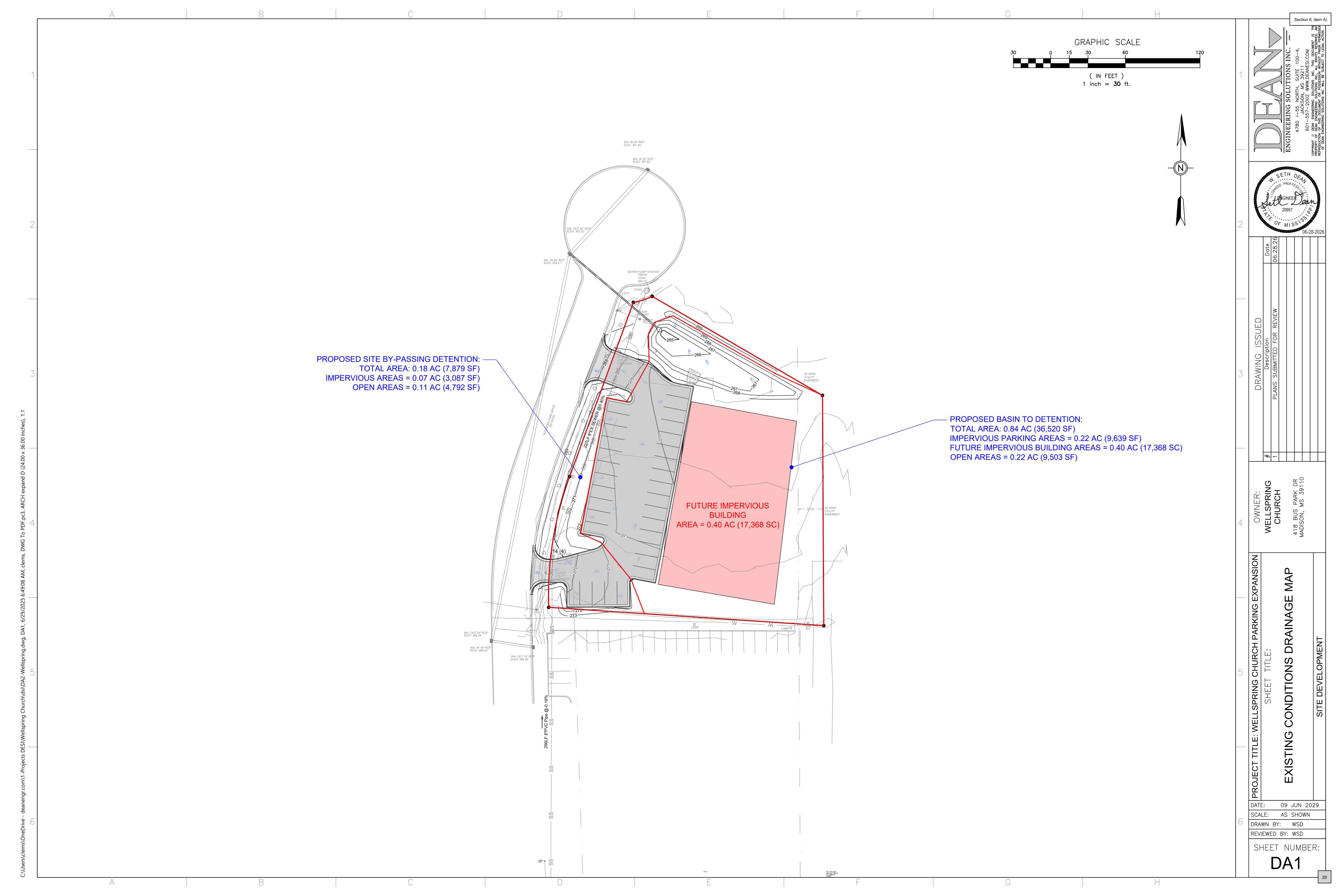
The proposed stormwater detention design meets the City's requirements, reducing stormwater flows below the existing development conditions for the 2-year, 5, 10, 25, 50 and 100-yr storm events as indicated in Table 1 below. See also the list attachments for detailed stormwater pre-vs-post flow results and other pertinent design parameters, inputs and results.

Pond routing runoff summary									
	Pre-	Post-Dvlp.							
Storm	Developed	Peak flow							
Event	peak flow	(detained)							
(year)	(cfs)	(cfs)	Pond Elev						
2	2.4	2.21	266.89						
5	3.6	3.04	267.18						
10	4.64	3.55	267.41						
25	5.71	4.68	267.58						
50	6.68	6.44	267.64						
100	7.54	7.50	267.70						

List of Attachments:

- Maps
 - o DA1 Pre-Development Drainage Map
 - o DA2 Post Development Drainage Map
 - o Natural Resources Conservation Service Web Soil Survey
 - o FEMA FIRMette Map
- Calculations
 - HydroCAD Pond Routing Report (2-100 year events)

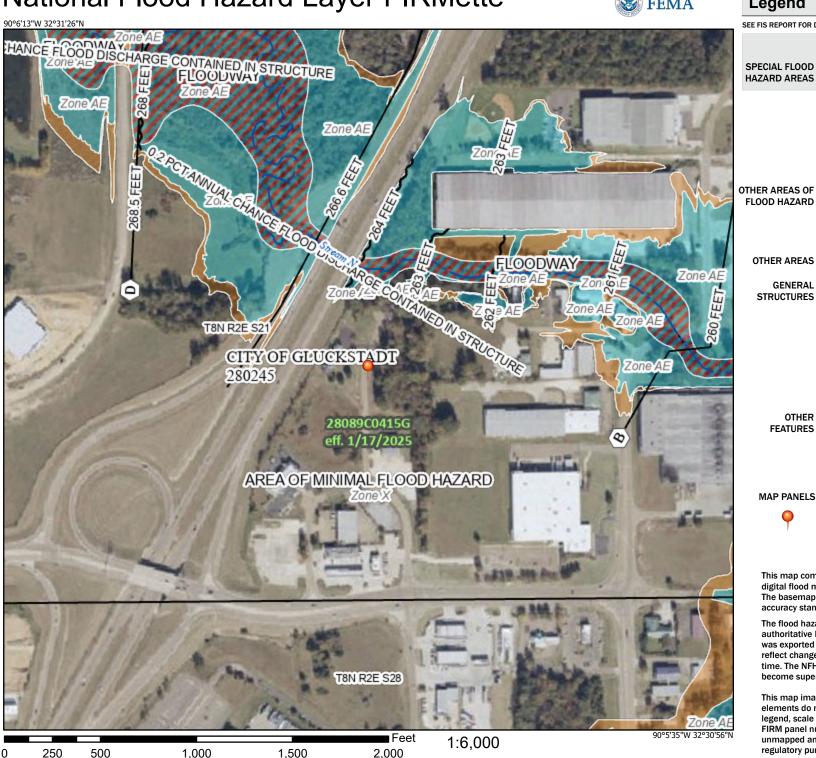




National Flood Hazard Layer FIRMette



Basemap Imagery Source: USGS National Map 2023



Legend SEE FIS REPORT FOR DETAILED LEGEND AND

Section 6, Item A)

Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR

Regulatory Floodway

0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X

Future Conditions 1% Annual Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X

NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs

OTHER AREAS OF FLOOD HAZARD Area with Flood Risk due to Levee Zone D

OTHER AREAS Area of Undetermined Flood Hazard Zone D - - - Channel, Culvert, or Storm Sewer **GENERAL** STRUCTURES | IIIIII Levee, Dike, or Floodwall

20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation **Coastal Transect** ₩ 513 W Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary Coastal Transect Baseline OTHER **Profile Baseline FEATURES** Hydrographic Feature

Digital Data Available No Digital Data Available MAP PANELS Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 6/27/2025 at 4:13 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community ide FIRM panel number, and FIRM effective date. Map in unmapped and unmodernized areas cannot be used regulatory purposes.

MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons



Soil Map Unit Lines



Soil Map Unit Points

Special Point Features

Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Stony Spot

Spoil Area



Very Stony Spot



Wet Spot Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20.000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Madison County, Mississippi Survey Area Data: Version 19, Sep 6, 2024

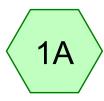
Soil map units are labeled (as space allows) for map scales 1:50.000 or larger.

Date(s) aerial images were photographed: Nov 8, 2021—Nov 29. 2021

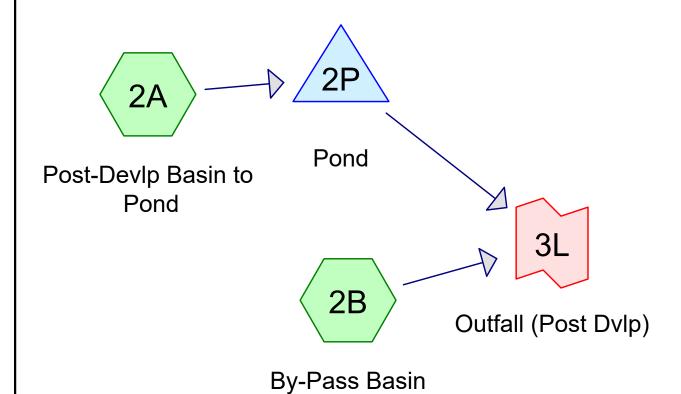
The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Gb	Gillsburg silt loam	0.4	3.2%
GrB2	Grenada silt loam, 2 to 5 percent slopes, eroded	7.5	62.9%
LoA	Loring silt loam, 0 to 2 percent slopes, south	2.7	23.0%
LoC2	Loring silt loam, 5 to 8 percent slopes, moderately eroded, central	1.3	10.9%
Totals for Area of Interest		11.9	100.0%



Pre-Development Basin











Routing Diagram for Wellspring Church STM Study
Prepared by {enter your company name here}, Printed 6/29/2025
HydroCAD® 10.00-26 s/n 09984 © 2020 HydroCAD Software Solutions LLC

Printed 6/29/2025 Page 2

Area Listing (all nodes)

Area	CN	Description
(acres)		(subcatchment-numbers)
1.350	74	>75% Grass cover, Good, HSG C (1A, 2A, 2B)
0.400	98	FUTURE BLDG, HSG C (2A)
0.290	98	Paved parking, HSG C (2A, 2B)
2.040	82	TOTAL AREA

Printed 6/29/2025 Page 3

Soil Listing (all nodes)

Area	Soil	Subcatchment
(acres)	Group	Numbers
0.000	HSG A	
0.000	HSG B	
2.040	HSG C	1A, 2A, 2B
0.000	HSG D	
0.000	Other	
2.040		TOTAL AREA

Printed 6/29/2025 Page 4

Ground Covers (all nodes)

_	HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchment Numbers
	0.000	0.000	1.350	0.000	0.000	1.350	>75% Grass cover, Good	1A, 2A,
								2B
	0.000	0.000	0.400	0.000	0.000	0.400	FUTURE BLDG	2A
	0.000	0.000	0.290	0.000	0.000	0.290	Paved parking	2A, 2B
	0.000	0.000	2.040	0.000	0.000	2.040	TOTAL AREA	

Printed 6/29/2025

Page 5

Pipe Listing (all nodes)

Line#	Node	In-Invert	Out-Invert	Length	Slope	n	Diam/Width	Height	Inside-Fill
	Number	(feet)	(feet)	(feet)	(ft/ft)		(inches)	(inches)	(inches)
1	2P	264.50	263.39	95.0	0.0117	0.009	12.0	0.0	0.0

Section 6, Item A)

Wellspring Church STM Study

Type III 24-hr 2yr Rainfall=4.50"

Prepared by {enter your company name here}

Printed 6/29/2025

HydroCAD® 10.00-26 s/n 09984 © 2020 HydroCAD Software Solutions LLC

Page 6

Time span=0.00-48.00 hrs, dt=0.02 hrs, 2401 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1A: Pre-Development Basin Runoff Area = 1.020 ac 0.00% Impervious Runoff Depth = 1.97"

Flow Length=227' Tc=5.2 min CN=74 Runoff=2.40 cfs 0.168 af

Subcatchment 2A: Post-Devlp Basin to Runoff Area=0.840 ac 73.81% Impervious Runoff Depth=3.60"

Tc=5.0 min CN=92 Runoff=3.50 cfs 0.252 af

Subcatchment 2B: By-Pass Basin Runoff Area=0.180 ac 38.89% Impervious Runoff Depth=2.73"

Tc=5.0 min CN=83 Runoff=0.59 cfs 0.041 af

Pond 2P: Pond Peak Elev=266.89' Storage=0.031 af Inflow=3.50 cfs 0.252 af

Primary=1.84 cfs 0.252 af Secondary=0.00 cfs 0.000 af Outflow=1.84 cfs 0.252 af

Link 3L: Outfall (Post Dvlp) Inflow=2.21 cfs 0.293 af

Primary=2.21 cfs 0.293 af

Total Runoff Area = 2.040 ac Runoff Volume = 0.461 af Average Runoff Depth = 2.71" 66.18% Pervious = 1.350 ac 33.82% Impervious = 0.690 ac

Type III 24-hr 2yr Rainfall=4.50" Printed 6/29/2025

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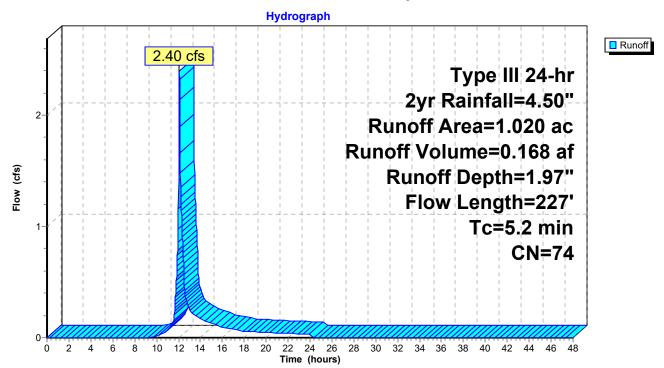
Summary for Subcatchment 1A: Pre-Development Basin

Runoff = 2.40 cfs @ 12.08 hrs, Volume= 0.168 af, Depth= 1.97"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.02 hrs Type III 24-hr 2yr Rainfall=4.50"

_	Area	(ac) C	N Desc	cription							
	1.020 74 >75% Grass cover, Good, HSG C										
	1.	020	100.	00% Pervi	ous Area						
	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description					
-	3.5	40	0.0270	0.19	, ,	Sheet Flow, sheet					
_	1.7	187	0.0150	1.84		Grass: Short n= 0.150 P2= 4.50" Shallow Concentrated Flow, Grassed Waterway Kv= 15.0 fps					
	5.2	227	Total								

Subcatchment 1A: Pre-Development Basin



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Wellspring Church STM Study

Type III 24-hr 2yr Rainfall=4.50" Printed 6/29/2025

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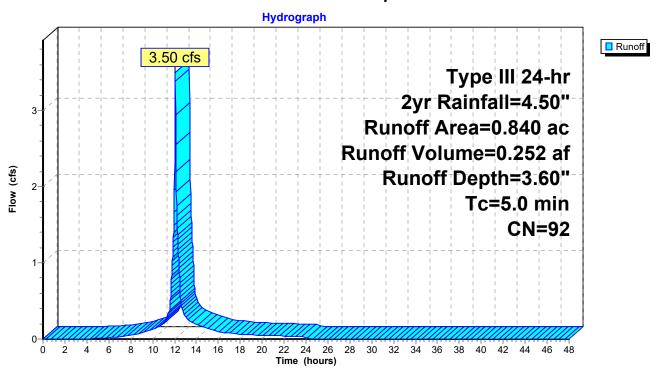
Summary for Subcatchment 2A: Post-Devlp Basin to Pond

Runoff = 3.50 cfs @ 12.07 hrs, Volume= 0.252 af, Depth= 3.60"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.02 hrs Type III 24-hr 2yr Rainfall=4.50"

	Area	(ac)	CN	Desc	ription				
	0.:	220	74	>75%	6 Grass co	over, Good	, HSG C		
*	0.4	400	98	FUT	FUTURE BLDG, HSG C				
	0.:	220	98	Pave	ed parking,	HSG C			
	0.	840	92	Weig	hted Aver	age			
0.220 26.19% Pervious Area					9% Pervio	us Area			
	0.	0.620 73.81% Impervious Area							
	Tc	Leng		Slope	Velocity	Capacity	Description		
_	(min)	(fee	et)	(ft/ft)	(ft/sec)	(cfs)			
	5.0						Direct Entry,		

Subcatchment 2A: Post-Devlp Basin to Pond



Type III 24-hr 2yr Rainfall=4.50" Printed 6/29/2025 Page 9

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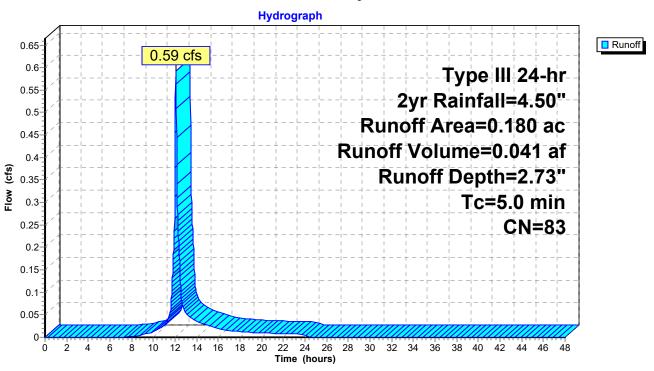
Summary for Subcatchment 2B: By-Pass Basin

Runoff = 0.59 cfs @ 12.07 hrs, Volume= 0.041 af, Depth= 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.02 hrs Type III 24-hr 2yr Rainfall=4.50"

_	Area	(ac)	CN	Desc	ription					
	0.110 74 >75% Grass cover, Good,						, HSG C			
_	0.070 98 Paved parking, HSG C									
	0.180 83 Weighted Average					age				
	0.110 61.				61.11% Pervious Area					
	0.070			38.89% Impervious Area						
	_			21		.	5			
	Tc	Lengt		Slope	Velocity	Capacity	Description			
_	(min)	(feet	t)	(ft/ft)	(ft/sec)	(cfs)				
	5.0						Direct Entry			

Subcatchment 2B: By-Pass Basin



Type III 24-hr 2yr Rainfall=4.50"

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Summary for Pond 2P: Pond

Inflow Area = 0.840 ac, 73.81% Impervious, Inflow Depth = 3.60" for 2yr event

Inflow = 3.50 cfs @ 12.07 hrs, Volume= 0.252 af

Outflow = 1.84 cfs @ 12.19 hrs, Volume= 0.252 af, Atten= 47%, Lag= 7.1 min

Routing by Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.02 hrs Peak Elev= 266.89' @ 12.19 hrs Surf.Area= 0.041 ac Storage= 0.031 af

Plug-Flow detention time= 4.1 min calculated for 0.252 af (100% of inflow)

Center-of-Mass det. time= 4.1 min (789.3 - 785.2)

Volume	Invert A	Avail.Storage	Storage D	escription	
#1	264.50'	0.267 af	Custom S	tage Data	(Prismatic)Listed below (Recalc)
Elevation (feet)	Surf.Area (acres			ım.Store cre-feet)	
264.50	0.000	0	.000	0.000	
265.00	0.001	1 0	.000	0.000	
266.00	0.012	2 0	.006	0.007	
267.00	0.045	5 0	.028	0.035	
268.00	0.069	9 0	.057	0.092	
269.00	0.089	9 0	.079	0.171	
270.00	0.103	3 0	.096	0.267	
Device Ro	outina	Invert O	utlet Devices	i	

Device	Routing	Invert	Outlet Devices
#1	Primary	264.50'	12.0" Round Culvert
	-		L= 95.0' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 264.50' / 263.39' S= 0.0117 '/' Cc= 0.900
			n= 0.009, Flow Area= 0.79 sf
#2	Device 1	264.50'	6.0" Vert. Orifice/Grate C= 0.600
#3	Device 1	266.50'	8.0" Vert. Orifice/Grate C= 0.600
#4	Device 1	267.50'	48.0" Horiz. Orifice/Grate C= 0.600
			Limited to weir flow at low heads
#5	Secondary	268.50'	30.0' long x 4.0' breadth Broad-Crested Rectangular Weir
			Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00
			2.50 3.00 3.50 4.00 4.50 5.00 5.50
			Coef. (English) 2.38 2.54 2.69 2.68 2.67 2.67 2.65 2.66 2.66
			2.68 2.72 2.73 2.76 2.79 2.88 3.07 3.32

Primary OutFlow Max=1.84 cfs @ 12.19 hrs HW=266.89' (Free Discharge)

-1=Culvert (Passes 1.84 cfs of 5.20 cfs potential flow)

2=Orifice/Grate (Orifice Controls 1.38 cfs @ 7.05 fps)

-3=Orifice/Grate (Orifice Controls 0.45 cfs @ 2.13 fps)

-4=Orifice/Grate (Controls 0.00 cfs)

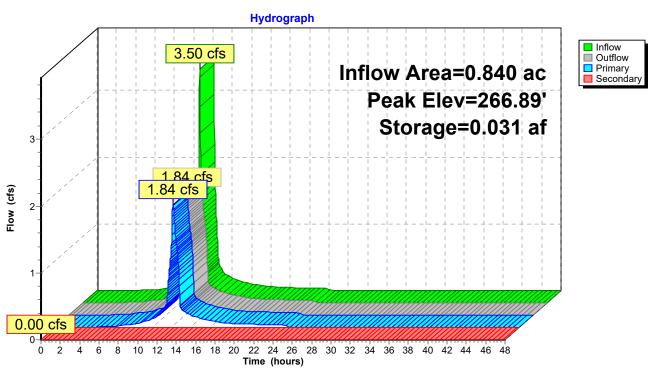
Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=264.50' (Free Discharge)

5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Type III 24-hr 2yr Rainfall=4.50" Printed 6/29/2025 Page 11

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Pond 2P: Pond



Type III 24-hr 2yr Rainfall=4.50" Printed 6/29/2025

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Summary for Link 3L: Outfall (Post Dvlp)

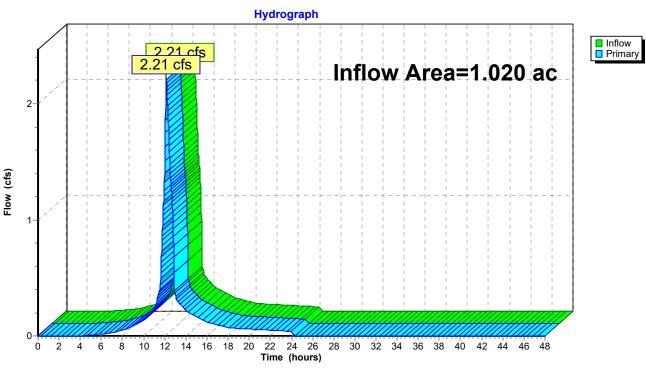
Inflow Area = 1.020 ac, 67.65% Impervious, Inflow Depth = 3.45" for 2yr event

Inflow = 2.21 cfs @ 12.15 hrs, Volume= 0.293 af

Primary = 2.21 cfs @ 12.15 hrs, Volume= 0.293 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-48.00 hrs, dt= 0.02 hrs

Link 3L: Outfall (Post Dvlp)



Section 6, Item A)

Wellspring Church STM Study

Type III 24-hr 5yr Rainfall=5.70" Printed 6/29/2025

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Time span=0.00-48.00 hrs, dt=0.02 hrs, 2401 points Runoff by SCS TR-20 method, UH=SCS, Weighted-CN Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1A: Pre-DevelopmentBasin Runoff Area=1.020 ac 0.00% Impervious Runoff Depth=2.93"

Flow Length=227' Tc=5.2 min CN=74 Runoff=3.60 cfs 0.249 af

Runoff Area=0.840 ac 73.81% Impervious Runoff Depth=4.77" Subcatchment 2A: Post-Devlp Basin to

Tc=5.0 min CN=92 Runoff=4.57 cfs 0.334 af

Runoff Area=0.180 ac 38.89% Impervious Runoff Depth=3.81" Subcatchment 2B: By-Pass Basin

Tc=5.0 min CN=83 Runoff=0.82 cfs 0.057 af

Peak Elev=267.18' Storage=0.044 af Inflow=4.57 cfs 0.334 af Pond 2P: Pond

Primary=2.46 cfs 0.334 af Secondary=0.00 cfs 0.000 af Outflow=2.46 cfs 0.334 af

Inflow=3.04 cfs 0.391 af Link 3L: Outfall (Post Dvlp)

Primary=3.04 cfs 0.391 af

Total Runoff Area = 2.040 ac Runoff Volume = 0.641 af Average Runoff Depth = 3.77" 66.18% Pervious = 1.350 ac 33.82% Impervious = 0.690 ac

Type III 24-hr 5yr Rainfall=5.70"
Printed 6/29/2025
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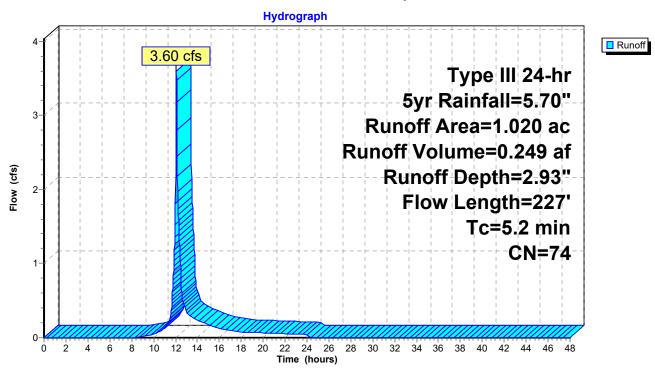
Summary for Subcatchment 1A: Pre-Development Basin

Runoff = 3.60 cfs @ 12.08 hrs, Volume= 0.249 af, Depth= 2.93"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.02 hrs Type III 24-hr 5yr Rainfall=5.70"

_	Area	(ac) C	N Des	cription							
	1.020 74 >75% Grass cover, Good, HSG C										
Ī	1.	020	100.	00% Pervi	ous Area						
	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description					
-	3.5	40	0.0270	0.19	, ,	Sheet Flow, sheet Grass: Short n= 0.150 P2= 4.50"					
	1.7	187	0.0150	1.84		Shallow Concentrated Flow, Grassed Waterway Kv= 15.0 fps					
_	5.2	227	Total			•					

Subcatchment 1A: Pre-Development Basin



Type III 24-hr 5yr Rainfall=5.70" Printed 6/29/2025 Page 15

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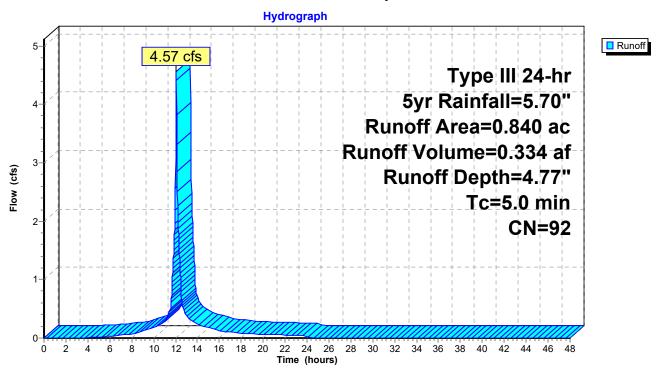
Summary for Subcatchment 2A: Post-Devlp Basin to Pond

Runoff = 4.57 cfs @ 12.07 hrs, Volume= 0.334 af, Depth= 4.77"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.02 hrs Type III 24-hr 5yr Rainfall=5.70"

	Area	(ac)	CN	Desc	ription			
	0.	220	74	>75%	6 Grass co	over, Good	, HSG C	
*	0.	400	98	FUT	JRE BLDO	G, HSG C		
	0.	220	98	Pave	d parking,	HSG C		
	0.	840	92	Weig	hted Aver	age		
	0.	220		26.19	9% Pervio	us Area		
	0.	620		73.8	1% Imperv	rious Area		
	Тс	Leng	th	Slope	Velocity	Capacity	Description	
_	(min)	(fee	et)	(ft/ft)	(ft/sec)	(cfs)		
	5.0						Direct Entry,	

Subcatchment 2A: Post-Devlp Basin to Pond



Type III 24-hr 5yr Rainfall=5.70" Printed 6/29/2025 Page 16

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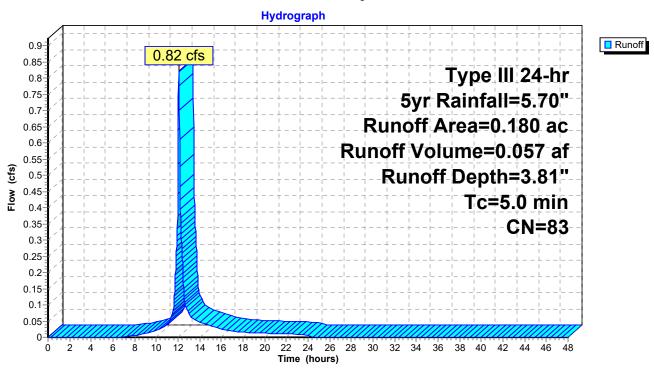
Summary for Subcatchment 2B: By-Pass Basin

Runoff = 0.82 cfs @ 12.07 hrs, Volume= 0.057 af, Depth= 3.81"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.02 hrs Type III 24-hr 5yr Rainfall=5.70"

	Area	(ac)	CN	Desc	ription				
	0.110 74 >75% Grass cover, Good, HSG C								
	0.070 98 Paved parking, HSG C								
0.180 83 Weighted Average									
	0.	110		61.1	1% Pervio	us Area			
	0.070			38.89	9% Imperv	ious Area			
	т.	1		21	V/.1	0	D		
	Tc	Lengt	n :	Slope	Velocity	Capacity	Description		
	(min)	(feet	:)	(ft/ft)	(ft/sec)	(cfs)			
	5.0						Direct Entry		

Subcatchment 2B: By-Pass Basin



Type III 24-hr 5yr Rainfall=5.70"

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Summary for Pond 2P: Pond

Inflow Area = 0.840 ac, 73.81% Impervious, Inflow Depth = 4.77" for 5yr event
Inflow = 4.57 cfs @ 12.07 hrs, Volume= 0.334 af
Outflow = 2.46 cfs @ 12.19 hrs, Volume= 0.334 af, Atten= 46%, Lag= 6.9 min
Primary = 2.46 cfs @ 12.19 hrs, Volume= 0.334 af

Primary = 2.46 cfs @ 12.19 hrs, Volume= 0.334 af Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.02 hrs Peak Elev= 267.18' @ 12.19 hrs Surf.Area= 0.049 ac Storage= 0.044 af

Plug-Flow detention time= 4.8 min calculated for 0.334 af (100% of inflow)

Center-of-Mass det. time= 4.8 min (782.6 - 777.8)

<u>Volume</u>	Inve	ert Av	ail.Stora	ge S	Storage Des	cription	
#1	264.5	60'	0.267	af (Custom Sta	ige Data	(Prismatic)Listed below (Recalc)
Elevatio (fee		rf.Area (acres)		c.Stor	T	n.Store e-feet)	
264.5		0.000	(40.	0.00	, , ,	0.000	
265.0	-	0.001		0.00	-	0.000	
266.0	0	0.012		0.00	16	0.007	
267.0	0	0.045		0.02	.8	0.035	
268.0	0	0.069		0.05	57	0.092	
269.0	0	0.089		0.07	9	0.171	
270.0	0	0.103		0.09	16	0.267	
Device	Routing		Invert	Outle	et Devices		
#1	Primary	2	64.50'	12.0	" Round C	ulvert	

Device	Routing	invert	Outlet Devices
#1	Primary	264.50'	12.0" Round Culvert
	-		L= 95.0' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 264.50' / 263.39' S= 0.0117 '/' Cc= 0.900
			n= 0.009, Flow Area= 0.79 sf
#2	Device 1	264.50'	6.0" Vert. Orifice/Grate C= 0.600
#3	Device 1	266.50'	8.0" Vert. Orifice/Grate C= 0.600
#4	Device 1	267.50'	48.0" Horiz. Orifice/Grate C= 0.600
			Limited to weir flow at low heads
#5	Secondary	268.50'	30.0' long x 4.0' breadth Broad-Crested Rectangular Weir
	-		Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00
			2.50 3.00 3.50 4.00 4.50 5.00 5.50
			Coef. (English) 2.38 2.54 2.69 2.68 2.67 2.67 2.65 2.66 2.66
			2.68 2.72 2.73 2.76 2.79 2.88 3.07 3.32

Primary OutFlow Max=2.46 cfs @ 12.19 hrs HW=267.18' (Free Discharge)

-1=Culvert (Passes 2.46 cfs of 5.58 cfs potential flow)

2=Orifice/Grate (Orifice Controls 1.47 cfs @ 7.50 fps)

-3=Orifice/Grate (Orifice Controls 0.98 cfs @ 2.82 fps)

-4=Orifice/Grate (Controls 0.00 cfs)

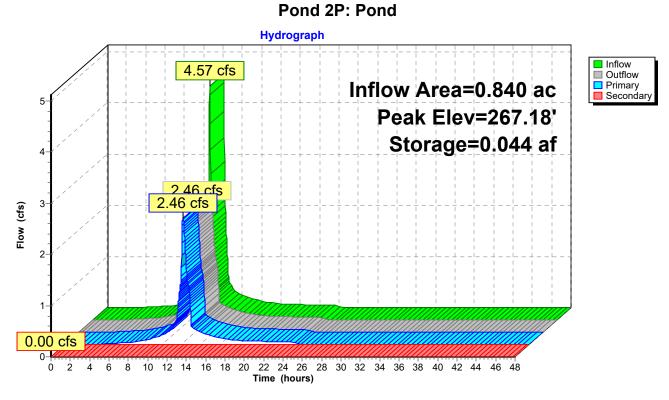
Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=264.50' (Free Discharge)

5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Type III 24-hr 5yr Rainfall=5.70" Printed 6/29/2025 C Page 18

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Type III 24-hr 5yr Rainfall=5.70" Printed 6/29/2025

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Summary for Link 3L: Outfall (Post Dvlp)

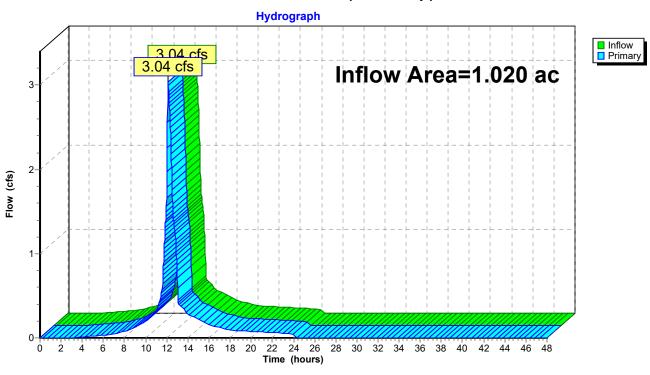
Inflow Area = 1.020 ac, 67.65% Impervious, Inflow Depth = 4.61" for 5yr event

Inflow = 3.04 cfs @ 12.13 hrs, Volume= 0.391 af

Primary = 3.04 cfs @ 12.13 hrs, Volume= 0.391 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-48.00 hrs, dt= 0.02 hrs

Link 3L: Outfall (Post Dvlp)



Section 6, Item A)

Wellspring Church STM Study

Type III 24-hr 10yr Rainfall=6.70" Printed 6/29/2025

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Time span=0.00-48.00 hrs, dt=0.02 hrs, 2401 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1A: Pre-Development Basin Runoff Area = 1.020 ac 0.00% Impervious Runoff Depth = 3.78"

Flow Length=227' Tc=5.2 min CN=74 Runoff=4.64 cfs 0.321 af

Subcatchment 2A: Post-Devlp Basin to Runoff Area=0.840 ac 73.81% Impervious Runoff Depth=5.76"

Tc=5.0 min CN=92 Runoff=5.45 cfs 0.403 af

Subcatchment 2B: By-Pass Basin Runoff Area=0.180 ac 38.89% Impervious Runoff Depth=4.75"

Tc=5.0 min CN=83 Runoff=1.02 cfs 0.071 af

Pond 2P: Pond Peak Elev=267.41' Storage=0.056 af Inflow=5.45 cfs 0.403 af

Primary=2.82 cfs 0.403 af Secondary=0.00 cfs 0.000 af Outflow=2.82 cfs 0.403 af

Link 3L: Outfall (Post Dvlp) Inflow=3.55 cfs 0.474 af

Primary=3.55 cfs 0.474 af

Total Runoff Area = 2.040 ac Runoff Volume = 0.796 af Average Runoff Depth = 4.68" 66.18% Pervious = 1.350 ac 33.82% Impervious = 0.690 ac

Type III 24-hr 10yr Rainfall=6.70" Printed 6/29/2025

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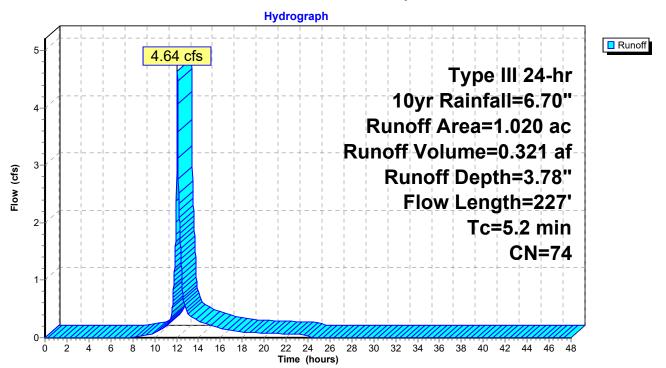
Summary for Subcatchment 1A: Pre-Development Basin

Runoff = 4.64 cfs @ 12.08 hrs, Volume= 0.321 af, Depth= 3.78"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.02 hrs Type III 24-hr 10yr Rainfall=6.70"

_	Area	(ac) C	N Desc	cription			
	1.	020 7	⁷ 4 >75 ⁹	% Grass co	over, Good	, HSG C	
	1.	020	100.00% Pervious Area				
	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description	
-	3.5	40	0.0270	0.19	, ,	Sheet Flow, sheet	
	1.7	187	0.0150	1.84		Grass: Short n= 0.150 P2= 4.50" Shallow Concentrated Flow, Grassed Waterway Kv= 15.0 fps	
	5.2	227	Total				

Subcatchment 1A: Pre-Development Basin



Type III 24-hr 10yr Rainfall=6.70" Printed 6/29/2025

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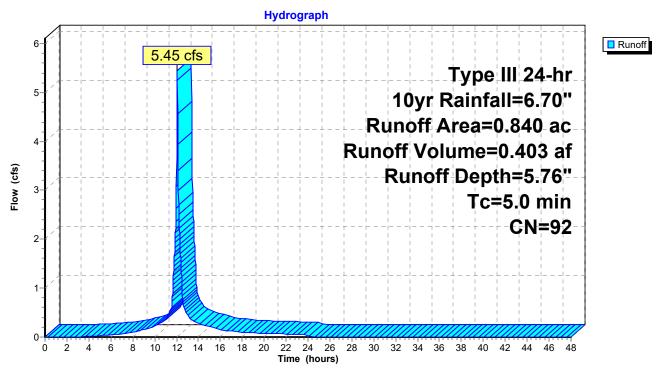
Summary for Subcatchment 2A: Post-Devlp Basin to Pond

Runoff = 5.45 cfs @ 12.07 hrs, Volume= 0.403 af, Depth= 5.76"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.02 hrs Type III 24-hr 10yr Rainfall=6.70"

	Area	(ac)	CN	Desc	ription			
	0.	220	74	>75%	6 Grass co	over, Good	, HSG C	
*	0.	400	98	FUT	JRE BLDO	G, HSG C		
	0.	220	98	Pave	d parking,	HSG C		
	0.	840	92	Weig	hted Aver	age		
	0.	220		26.19	9% Pervio	us Area		
	0.	620		73.8	1% Imperv	rious Area		
	Тс	Leng	th	Slope	Velocity	Capacity	Description	
_	(min)	(fee	et)	(ft/ft)	(ft/sec)	(cfs)		
	5.0						Direct Entry,	

Subcatchment 2A: Post-Devlp Basin to Pond



Type III 24-hr 10yr Rainfall=6.70" Printed 6/29/2025

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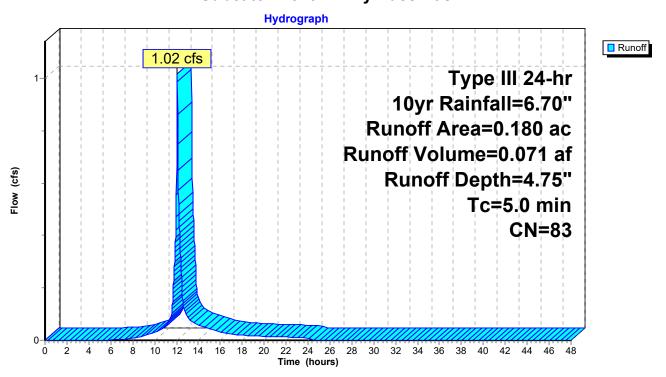
Summary for Subcatchment 2B: By-Pass Basin

Runoff = 1.02 cfs @ 12.07 hrs, Volume= 0.071 af, Depth= 4.75"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.02 hrs Type III 24-hr 10yr Rainfall=6.70"

	Area	(ac)	CN	Desc	Description							
0.110 74 >75% Grass cover, Good,							d, HSG C					
0.070 98 Paved parking, HSG C						HSG C						
0.180 83 Weighted Average						age						
0.110 61.11% Pervious Area												
	0.070			38.89	9% Imperv	ious Area						
	Тс	Lengt	h :	Slope	Velocity	Capacity	Description					
((min)	(fee	t)	(ft/ft)	(ft/sec)	(cfs)						
	5.0						Direct Entry,					

Subcatchment 2B: By-Pass Basin



Type III 24-hr 10yr Rainfall=6.70"

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Summary for Pond 2P: Pond

Inflow Area = 0.840 ac, 73.81% Impervious, Inflow Depth = 5.76" for 10yr event

Inflow = 5.45 cfs @ 12.07 hrs, Volume= 0.403 af

Outflow = 2.82 cfs @ 12.19 hrs, Volume= 0.403 af, Atten= 48%, Lag= 7.3 min

Primary = 2.82 cfs @ 12.19 hrs, Volume= 0.403 af Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.02 hrs Peak Elev= 267.41' @ 12.19 hrs Surf.Area= 0.055 ac Storage= 0.056 af

Plug-Flow detention time= 5.5 min calculated for 0.403 af (100% of inflow)

Center-of-Mass det. time= 5.5 min (778.5 - 773.0)

Volume	Invert A	vail.Storage	Storage De	escription	
#1	264.50'	0.267 af	Custom S	tage Data	(Prismatic)Listed below (Recalc)
Elevation	Surf.Area			m.Store	
(feet)	(acres)	(acre-fe	eet) (ad	<u>cre-feet)</u>	
264.50	0.000	0.0	000	0.000	
265.00	0.001	0.0	000	0.000	
266.00	0.012	0.0	006	0.007	
267.00	0.045	_	028	0.035	
268.00	0.069	0.0	057	0.092	
269.00	0.089	0.0	079	0.171	
270.00	0.103	0.0	096	0.267	
Davies D	outin a	Invert Ou	tlet Devises		

Device	Routing	Invert	Outlet Devices
#1	Primary	264.50'	12.0" Round Culvert
	•		L= 95.0' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 264.50' / 263.39' S= 0.0117 '/' Cc= 0.900
			n= 0.009, Flow Area= 0.79 sf
#2	Device 1	264.50'	6.0" Vert. Orifice/Grate C= 0.600
#3	Device 1	266.50'	8.0" Vert. Orifice/Grate C= 0.600
#4	Device 1	267.50'	48.0" Horiz. Orifice/Grate C= 0.600
			Limited to weir flow at low heads
#5	Secondary	268.50'	30.0' long x 4.0' breadth Broad-Crested Rectangular Weir
			Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00
			2.50 3.00 3.50 4.00 4.50 5.00 5.50
			Coef. (English) 2.38 2.54 2.69 2.68 2.67 2.67 2.65 2.66 2.66
			2.68 2.72 2.73 2.76 2.79 2.88 3.07 3.32

Primary OutFlow Max=2.81 cfs @ 12.19 hrs HW=267.41' (Free Discharge)

1=Culvert (Passes 2.81 cfs of 5.87 cfs potential flow)

2=Orifice/Grate (Orifice Controls 1.54 cfs @ 7.85 fps)

-3=Orifice/Grate (Orifice Controls 1.27 cfs @ 3.65 fps)

-4=Orifice/Grate (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=264.50' (Free Discharge)

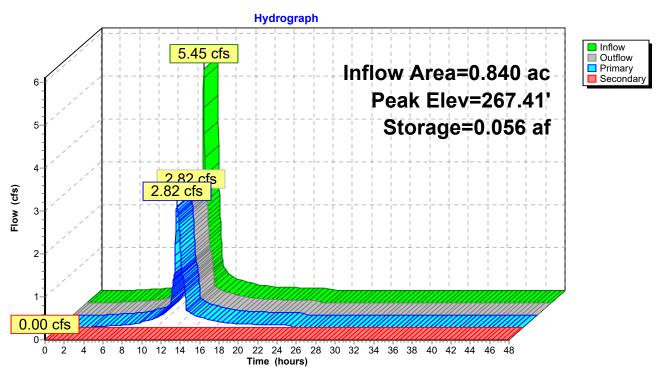
5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Type III 24-hr 10yr Rainfall=6.70" Printed 6/29/2025

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Pond 2P: Pond



Type III 24-hr 10yr Rainfall=6.70" Printed 6/29/2025

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Summary for Link 3L: Outfall (Post Dvlp)

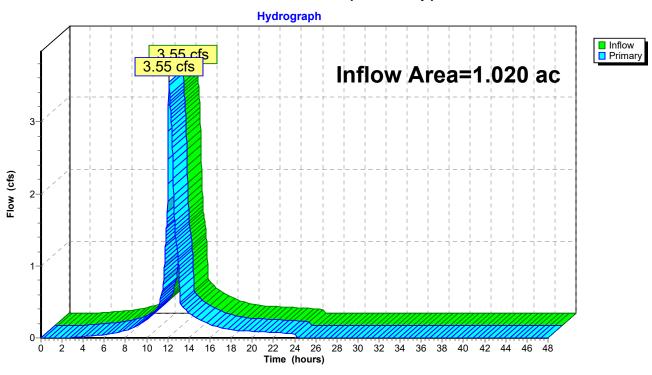
Inflow Area = 1.020 ac, 67.65% Impervious, Inflow Depth = 5.58" for 10yr event

Inflow = 3.55 cfs @ 12.11 hrs, Volume= 0.474 af

Primary = 3.55 cfs @ 12.11 hrs, Volume= 0.474 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-48.00 hrs, dt= 0.02 hrs

Link 3L: Outfall (Post Dvlp)



Section 6, Item A)

Wellspring Church STM Study

Type III 24-hr 25yr Rainfall=7.70"

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Time span=0.00-48.00 hrs, dt=0.02 hrs, 2401 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1A: Pre-DevelopmentBasin Runoff Area=1.020 ac 0.00% Impervious Runoff Depth=4.66"

Flow Length=227' Tc=5.2 min CN=74 Runoff=5.71 cfs 0.396 af

Subcatchment 2A: Post-Devlp Basin to Runoff Area=0.840 ac 73.81% Impervious Runoff Depth=6.75"

Tc=5.0 min CN=92 Runoff=6.33 cfs 0.472 af

Subcatchment 2B: By-Pass Basin Runoff Area=0.180 ac 38.89% Impervious Runoff Depth=5.69"

Tc=5.0 min CN=83 Runoff=1.21 cfs 0.085 af

Pond 2P: Pond Peak Elev=267.58' Storage=0.065 af Inflow=6.33 cfs 0.472 af

Primary=3.92 cfs 0.472 af Secondary=0.00 cfs 0.000 af Outflow=3.92 cfs 0.472 af

Link 3L: Outfall (Post Dvlp) Inflow=4.68 cfs 0.558 af

Primary=4.68 cfs 0.558 af

Total Runoff Area = 2.040 ac Runoff Volume = 0.954 af Average Runoff Depth = 5.61" 66.18% Pervious = 1.350 ac 33.82% Impervious = 0.690 ac

Type III 24-hr 25yr Rainfall=7.70" Printed 6/29/2025

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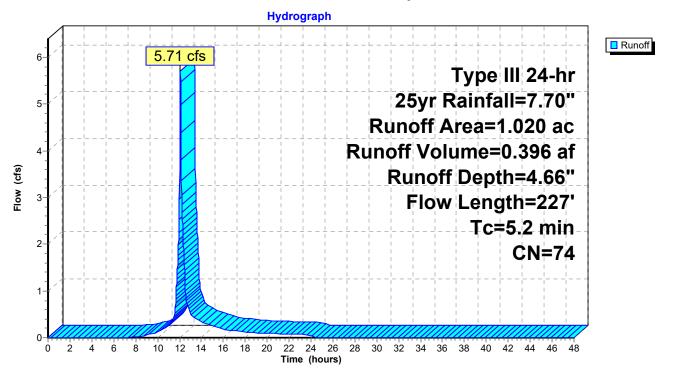
Summary for Subcatchment 1A: Pre-Development Basin

Runoff = 5.71 cfs @ 12.08 hrs, Volume= 0.396 af, Depth= 4.66"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.02 hrs Type III 24-hr 25yr Rainfall=7.70"

_	Area	(ac) C	N Desc	cription			
	1.	020 7	⁷ 4 >75 ⁹	% Grass co	over, Good	, HSG C	
	1.	020	100.00% Pervious Area				
	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description	
-	3.5	40	0.0270	0.19	, ,	Sheet Flow, sheet	
	1.7	187	0.0150	1.84		Grass: Short n= 0.150 P2= 4.50" Shallow Concentrated Flow, Grassed Waterway Kv= 15.0 fps	
	5.2	227	Total				

Subcatchment 1A: Pre-Development Basin



Type III 24-hr 25yr Rainfall=7.70" Printed 6/29/2025

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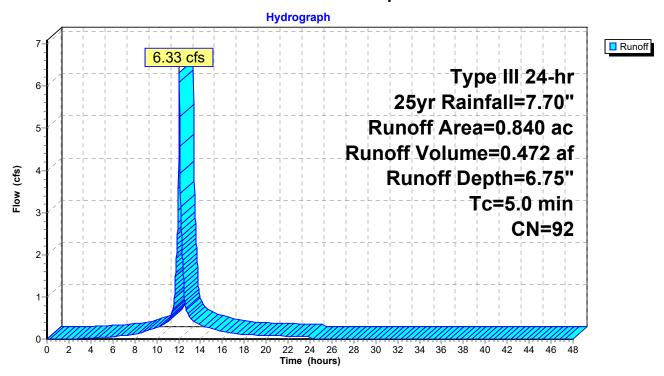
Summary for Subcatchment 2A: Post-Devlp Basin to Pond

Runoff = 6.33 cfs @ 12.07 hrs, Volume= 0.472 af, Depth= 6.75"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.02 hrs Type III 24-hr 25yr Rainfall=7.70"

	Area	(ac)	CN	Desc	ription			
	0.	220	74	>75%	6 Grass co	over, Good,	, HSG C	
*	0.	400	98	FUT	JRE BLDO	G, HSG C		
	0.	220	98	Pave	ed parking,	HSG C		
	0.	840	92	Weig	hted Aver	age		
	0.	220		26.19	9% Pervio	us Area		
	0.	620		73.8	1% Imperv	rious Area		
	Тс	Leng	•	Slope	Velocity	Capacity	Description	
_	(min)	(fee	et)	(ft/ft)	(ft/sec)	(cfs)		
	5.0						Direct Entry.	

Subcatchment 2A: Post-Devlp Basin to Pond



Type III 24-hr 25yr Rainfall=7.70" Printed 6/29/2025

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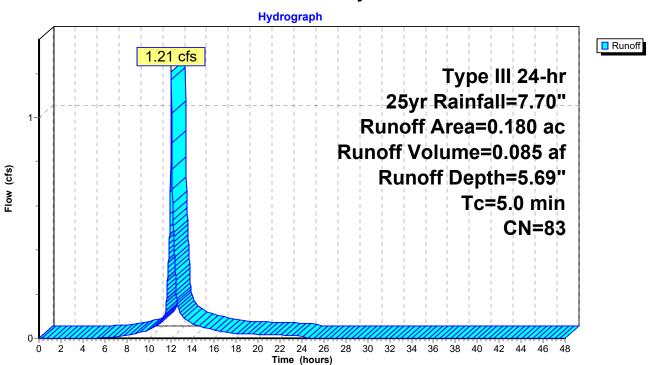
Summary for Subcatchment 2B: By-Pass Basin

Runoff = 1.21 cfs @ 12.07 hrs, Volume= 0.085 af, Depth= 5.69"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.02 hrs Type III 24-hr 25yr Rainfall=7.70"

Area	(ac)	CN	Desc	Description							
0.	110	74	>75%	>75% Grass cover, Good, HSG C							
0.	.070	98	Pave	Paved parking, HSG C							
0.	0.180 83 Weighted Average										
0.	0.110 61.11% Pervious Area										
0.	.070		38.89	9% Imperv	rious Area						
Тс	Leng	th S	Slope	Velocity	Capacity	Description					
(min)	(fee	et)	(ft/ft)	(ft/sec)	(cfs)						
5.0						Direct Entry,					

Subcatchment 2B: By-Pass Basin



Type III 24-hr 25yr Rainfall=7.70"

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Summary for Pond 2P: Pond

Inflow Area = 0.840 ac, 73.81% Impervious, Inflow Depth = 6.75" for 25yr event

Inflow 6.33 cfs @ 12.07 hrs, Volume= 0.472 af

3.92 cfs @ 12.16 hrs, Volume= Outflow 0.472 af, Atten= 38%, Lag= 5.6 min

3.92 cfs @ 12.16 hrs, Volume= Primary 0.472 af 0.000 af Secondary = 0.00 cfs @ 0.00 hrs, Volume=

Routing by Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.02 hrs Peak Elev= 267.58' @ 12.16 hrs Surf.Area= 0.059 ac Storage= 0.065 af

Plug-Flow detention time= 5.8 min calculated for 0.472 af (100% of inflow)

Center-of-Mass det. time= 5.8 min (775.0 - 769.2)

Volume	Inve	ert Av	ail.Stora	ge S	Storage Des	cription	
#1	264.5	50'	0.267	af C	Custom Sta	ge Data	(Prismatic)Listed below (Recalc)
Elevatio		rf.Area (acres)		c.Store		ı.Store e-feet)	
264.5	50	0.000		0.00	0	0.000	
265.0	00	0.001		0.00	0	0.000	
266.0	00	0.012		0.00	6	0.007	
267.0	00	0.045		0.02	8	0.035	
268.0	00	0.069		0.05	7	0.092	
269.0	00	0.089		0.079	9	0.171	
270.0	00	0.103		0.09	6	0.267	
Device	Routing		Invert		et Devices		
#1	Primary	2	264.50'	12.0"	' Round C	ulvert	

Routing	Invert	Outlet Devices
Primary	264.50'	12.0" Round Culvert
		L= 95.0' CPP, square edge headwall, Ke= 0.500
		Inlet / Outlet Invert= 264.50' / 263.39' S= 0.0117 '/' Cc= 0.900
		n= 0.009, Flow Area= 0.79 sf
Device 1	264.50'	6.0" Vert. Orifice/Grate C= 0.600
Device 1	266.50'	8.0" Vert. Orifice/Grate C= 0.600
Device 1	267.50'	48.0" Horiz. Orifice/Grate C= 0.600
		Limited to weir flow at low heads
Secondary	268.50'	30.0' long x 4.0' breadth Broad-Crested Rectangular Weir
		Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00
		2.50 3.00 3.50 4.00 4.50 5.00 5.50
		Coef. (English) 2.38 2.54 2.69 2.68 2.67 2.67 2.65 2.66 2.66
		2.68 2.72 2.73 2.76 2.79 2.88 3.07 3.32
	Primary Device 1 Device 1 Device 1	Primary 264.50' Device 1 264.50' Device 1 266.50' Device 1 267.50'

Primary OutFlow Max=3.88 cfs @ 12.16 hrs HW=267.58' (Free Discharge)

1=Culvert (Passes 3.88 cfs of 6.07 cfs potential flow)

-2=Orifice/Grate (Orifice Controls 1.59 cfs @ 8.09 fps)

-3=Orifice/Grate (Orifice Controls 1.45 cfs @ 4.15 fps)

-4=Orifice/Grate (Weir Controls 0.84 cfs @ 0.90 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=264.50' (Free Discharge)

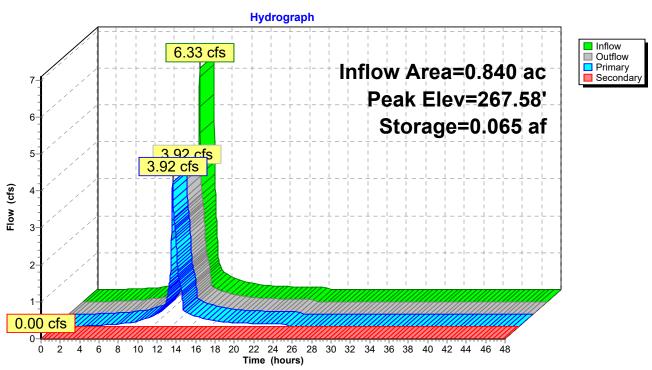
-5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Type III 24-hr 25yr Rainfall=7.70" Printed 6/29/2025

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Type III 24-hr 25yr Rainfall=7.70" Printed 6/29/2025

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Summary for Link 3L: Outfall (Post Dvlp)

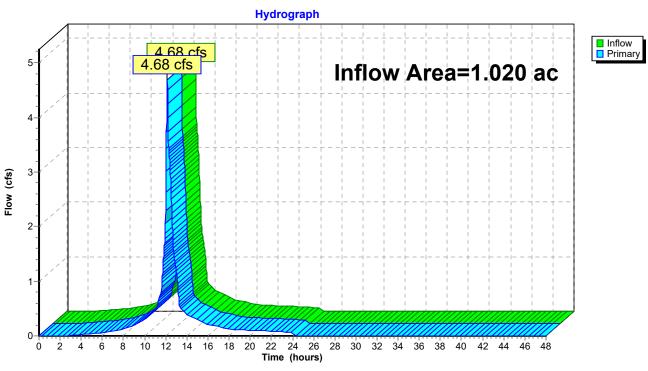
1.020 ac, 67.65% Impervious, Inflow Depth = 6.56" for 25yr event Inflow Area =

Inflow 4.68 cfs @ 12.16 hrs, Volume= 0.558 af

4.68 cfs @ 12.16 hrs, Volume= Primary 0.558 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-48.00 hrs, dt= 0.02 hrs

Link 3L: Outfall (Post Dvlp)



Section 6, Item A)

Wellspring Church STM Study

Type III 24-hr 50yr Rainfall=8.60"

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Time span=0.00-48.00 hrs, dt=0.02 hrs, 2401 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1A: Pre-Development Basin Runoff Area=1.020 ac 0.00% Impervious Runoff Depth=5.47"

Flow Length=227' Tc=5.2 min CN=74 Runoff=6.68 cfs 0.465 af

Subcatchment 2A: Post-Devlp Basin to Runoff Area=0.840 ac 73.81% Impervious Runoff Depth=7.64"

Tc=5.0 min CN=92 Runoff=7.11 cfs 0.535 af

Subcatchment 2B: By-Pass Basin Runoff Area=0.180 ac 38.89% Impervious Runoff Depth=6.55"

Tc=5.0 min CN=83 Runoff=1.38 cfs 0.098 af

Pond 2P: Pond Peak Elev=267.64' Storage=0.069 af Inflow=7.11 cfs 0.535 af

Primary=5.33 cfs 0.535 af Secondary=0.00 cfs 0.000 af Outflow=5.33 cfs 0.535 af

Link 3L: Outfall (Post Dvlp) Inflow=6.44 cfs 0.633 af

Primary=6.44 cfs 0.633 af

Total Runoff Area = 2.040 ac Runoff Volume = 1.098 af Average Runoff Depth = 6.46" 66.18% Pervious = 1.350 ac 33.82% Impervious = 0.690 ac

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Wellspring Church STM Study

Type III 24-hr 50yr Rainfall=8.60" Printed 6/29/2025

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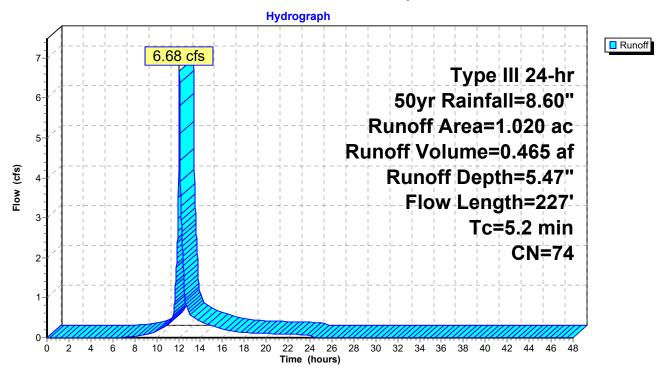
Summary for Subcatchment 1A: Pre-Development Basin

Runoff = 6.68 cfs @ 12.08 hrs, Volume= 0.465 af, Depth= 5.47"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.02 hrs Type III 24-hr 50yr Rainfall=8.60"

_	Area	(ac) C	N Desc	cription						
	1.020 74 >75% Grass cover, Good, HSG C									
	1.	020	100.	00% Pervi	ous Area					
	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description				
-	3.5	40	0.0270	0.19	, ,	Sheet Flow, sheet				
	1.7	187	0.0150	1.84		Grass: Short n= 0.150 P2= 4.50" Shallow Concentrated Flow, Grassed Waterway Kv= 15.0 fps				
	5.2	227	Total							

Subcatchment 1A: Pre-Development Basin



Type III 24-hr 50yr Rainfall=8.60" Printed 6/29/2025

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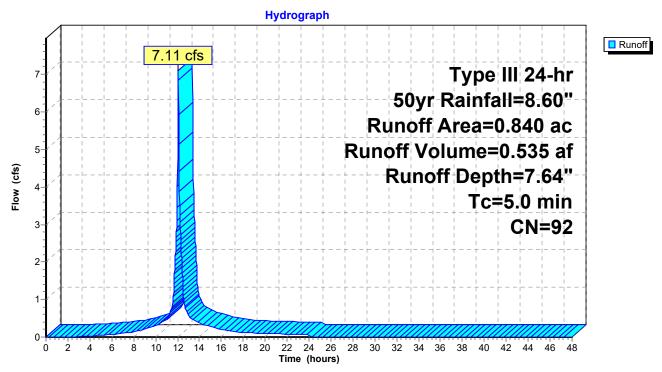
Summary for Subcatchment 2A: Post-Devlp Basin to Pond

Runoff = 7.11 cfs @ 12.07 hrs, Volume= 0.535 af, Depth= 7.64"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.02 hrs Type III 24-hr 50yr Rainfall=8.60"

	Area	(ac)	CN	Desc	ription						
	0.:	220	74	>75%	75% Grass cover, Good, HSG C						
*	0.4	400	98	FUT	FUTURE BLDG, HSG C						
	0.:	220	98	Pave	ed parking,	HSG C					
	0.	0.840 92 Weighted Average									
0.220 26.19% Pervious Area											
0.620 73.81% Impervious Area					1% Imperv	rious Area					
	Тс	Leng		Slope	Velocity	Capacity	Description				
	(min)	(fee	et)	(ft/ft)	(ft/sec)	(cfs)					
	5.0						Direct Entry,				

Subcatchment 2A: Post-Devlp Basin to Pond



Type III 24-hr 50yr Rainfall=8.60" Printed 6/29/2025

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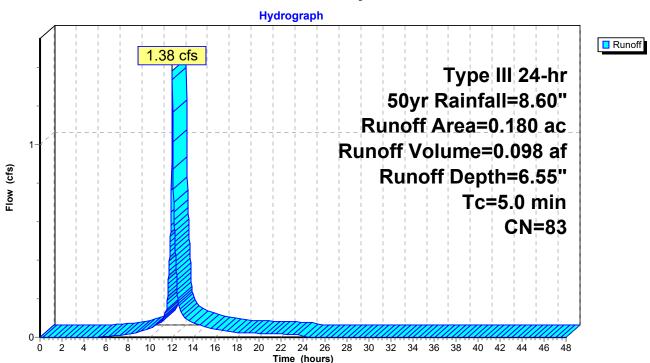
Summary for Subcatchment 2B: By-Pass Basin

Runoff = 1.38 cfs @ 12.07 hrs, Volume= 0.098 af, Depth= 6.55"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.02 hrs Type III 24-hr 50yr Rainfall=8.60"

Area	(ac)	CN	Desc	Description						
0.	.110	74	>75%	>75% Grass cover, Good, HSG C						
0	.070	98	Pave	Paved parking, HSG C						
0.180 83 Weighted Average										
0.	.110		61.1	61.11% Pervious Area						
0.	0.070			9% Imperv	rious Area					
Тс	Lengt	h S	Slope	Velocity	Capacity	Description				
(min)	(fee	t)	(ft/ft)	(ft/sec)	(cfs)					
5.0						Direct Entry,				

Subcatchment 2B: By-Pass Basin



Type III 24-hr 50yr Rainfall=8.60"

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Summary for Pond 2P: Pond

Inflow Area = 0.840 ac, 73.81% Impervious, Inflow Depth = 7.64" for 50yr event

Inflow 7.11 cfs @ 12.07 hrs, Volume= 0.535 af

5.33 cfs @ 12.14 hrs, Volume= Outflow 0.535 af, Atten= 25%, Lag= 4.0 min

5.33 cfs @ 12.14 hrs, Volume= Primary 0.535 af Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.02 hrs Peak Elev= 267.64' @ 12.14 hrs Surf.Area= 0.060 ac Storage= 0.069 af

Plug-Flow detention time= 5.7 min calculated for 0.534 af (100% of inflow)

Avail Ctorogo Ctorogo Description

Center-of-Mass det. time= 5.7 min (772.0 - 766.3)

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volume	invert <i>F</i>	Avaii.Storage	Storage De	scription	
#1	264.50'	0.267 af	Custom St	age Data	(Prismatic)Listed below (Recalc)
Elevation (feet)	Surf.Area (acres)			n.Store re-feet)	
264.50	0.000	0.0	000	0.000	
265.00	0.001	0.0	000	0.000	
266.00	0.012	2. 0.0	006	0.007	
267.00	0.045	0.0)28	0.035	
268.00	0.069	0.0)57	0.092	
269.00	0.089	0.0	79	0.171	
270.00	0.103	0.0	96	0.267	
Davidsa D	4!	l	41-4 Davidana		

Device	Routing	Invert	Outlet Devices
#1	Primary	264.50'	12.0" Round Culvert
			L= 95.0' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 264.50' / 263.39' S= 0.0117 '/' Cc= 0.900
			n= 0.009, Flow Area= 0.79 sf
#2	Device 1	264.50'	6.0" Vert. Orifice/Grate C= 0.600
#3	Device 1	266.50'	8.0" Vert. Orifice/Grate C= 0.600
#4	Device 1	267.50'	48.0" Horiz. Orifice/Grate C= 0.600
			Limited to weir flow at low heads
#5	Secondary	268.50'	30.0' long x 4.0' breadth Broad-Crested Rectangular Weir
			Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00
			2.50 3.00 3.50 4.00 4.50 5.00 5.50
			Coef. (English) 2.38 2.54 2.69 2.68 2.67 2.67 2.65 2.66 2.66
			2.68 2.72 2.73 2.76 2.79 2.88 3.07 3.32

Primary OutFlow Max=5.35 cfs @ 12.14 hrs HW=267.64' (Free Discharge)

1=Culvert (Passes 5.35 cfs of 6.15 cfs potential flow)

-2=Orifice/Grate (Orifice Controls 1.61 cfs @ 8.19 fps)

-3=Orifice/Grate (Orifice Controls 1.51 cfs @ 4.33 fps)

-4=Orifice/Grate (Weir Controls 2.23 cfs @ 1.24 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=264.50' (Free Discharge)

5=Broad-Crested Postonoular Max (Out to 10.00)

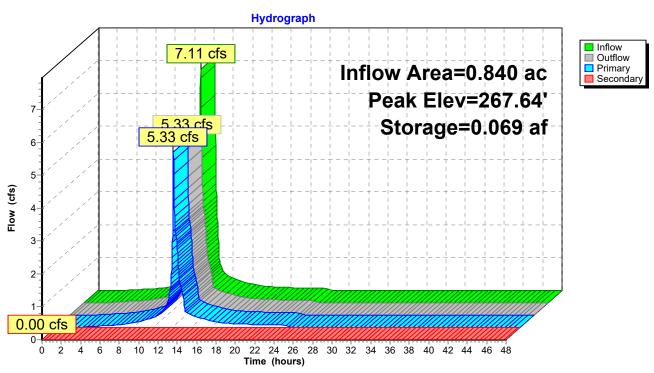
-5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Type III 24-hr 50yr Rainfall=8.60" Printed 6/29/2025

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Pond 2P: Pond



Type III 24-hr 50yr Rainfall=8.60" Printed 6/29/2025

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Summary for Link 3L: Outfall (Post Dvlp)

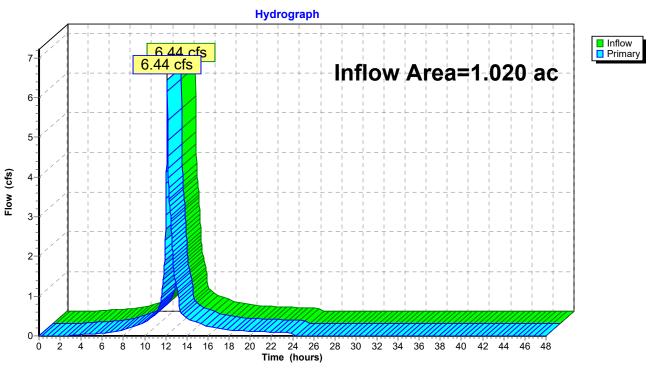
Inflow Area = 1.020 ac, 67.65% Impervious, Inflow Depth = 7.45" for 50yr event

Inflow = 6.44 cfs @ 12.13 hrs, Volume= 0.633 af

Primary = 6.44 cfs @ 12.13 hrs, Volume= 0.633 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-48.00 hrs, dt= 0.02 hrs

Link 3L: Outfall (Post Dvlp)



Section 6, Item A)

Wellspring Church STM Study

Type III 24-hr 100yr Rainfall=9.40"

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Time span=0.00-48.00 hrs, dt=0.02 hrs, 2401 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1A: Pre-Development Basin Runoff Area = 1.020 ac 0.00% Impervious Runoff Depth=6.19"

Flow Length=227' Tc=5.2 min CN=74 Runoff=7.54 cfs 0.527 af

Subcatchment 2A: Post-Devlp Basin to Runoff Area=0.840 ac 73.81% Impervious Runoff Depth=8.43"

Tc=5.0 min CN=92 Runoff=7.81 cfs 0.590 af

Subcatchment 2B: By-Pass Basin Runoff Area=0.180 ac 38.89% Impervious Runoff Depth=7.32"

Tc=5.0 min CN=83 Runoff=1.54 cfs 0.110 af

Pond 2P: Pond Peak Elev=267.70' Storage=0.073 af Inflow=7.81 cfs 0.590 af

Primary=6.25 cfs 0.590 af Secondary=0.00 cfs 0.000 af Outflow=6.25 cfs 0.590 af

Link 3L: Outfall (Post Dvlp) Inflow=7.50 cfs 0.700 af

Primary=7.50 cfs 0.700 af

Total Runoff Area = 2.040 ac Runoff Volume = 1.227 af Average Runoff Depth = 7.22" 66.18% Pervious = 1.350 ac 33.82% Impervious = 0.690 ac

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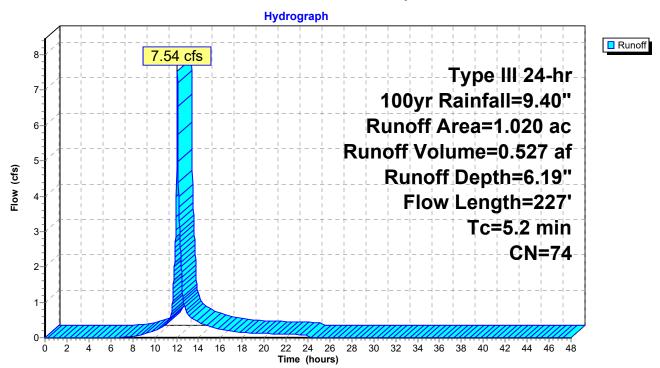
Summary for Subcatchment 1A: Pre-Development Basin

Runoff = 7.54 cfs @ 12.08 hrs, Volume= 0.527 af, Depth= 6.19"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.02 hrs Type III 24-hr 100yr Rainfall=9.40"

_	Area	(ac) C	N Desc	cription						
	1.020 74 >75% Grass cover, Good, HSG C									
	1.	020	100.	00% Pervi	ous Area					
	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description				
-	3.5	40	0.0270	0.19	, ,	Sheet Flow, sheet				
	1.7	187	0.0150	1.84		Grass: Short n= 0.150 P2= 4.50" Shallow Concentrated Flow, Grassed Waterway Kv= 15.0 fps				
	5.2	227	Total							

Subcatchment 1A: Pre-Development Basin



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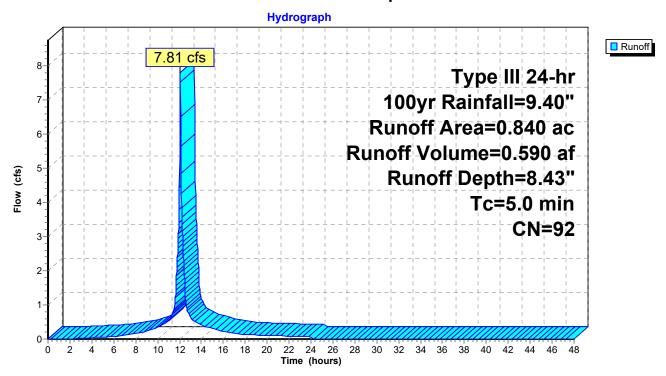
Summary for Subcatchment 2A: Post-Devlp Basin to Pond

Runoff = 7.81 cfs @ 12.07 hrs, Volume= 0.590 af, Depth= 8.43"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.02 hrs Type III 24-hr 100yr Rainfall=9.40"

	Area	(ac)	CN	Desc	ription						
	0.:	220	74	>75%	75% Grass cover, Good, HSG C						
*	0.4	400	98	FUT	FUTURE BLDG, HSG C						
	0.:	220	98	Pave	ed parking,	HSG C					
	0.	0.840 92 Weighted Average									
	0.220 26.19% Pervious Area										
	0.	620		73.8	1% Imperv	rious Area					
	Тс	Leng		Slope	Velocity	Capacity	Description				
_	(min)	(fee	et)	(ft/ft)	(ft/sec)	(cfs)					
	5.0						Direct Entry,				

Subcatchment 2A: Post-Devlp Basin to Pond



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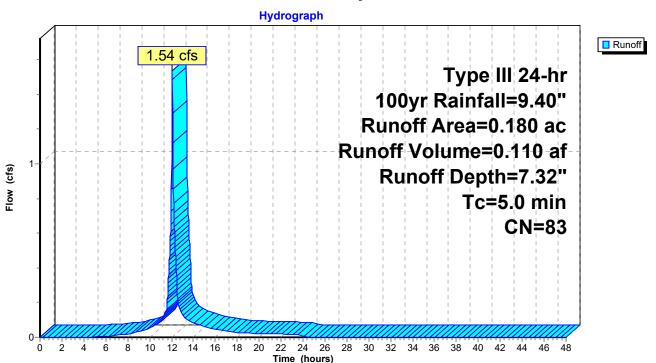
Summary for Subcatchment 2B: By-Pass Basin

Runoff = 1.54 cfs @ 12.07 hrs, Volume= 0.110 af, Depth= 7.32"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.02 hrs Type III 24-hr 100yr Rainfall=9.40"

Area	(ac)	CN	Desc	Description							
0.	110	74	>75%	>75% Grass cover, Good, HSG C							
0.	070	98	Pave	Paved parking, HSG C							
0.	0.180 83 Weighted Average										
0.	0.110 61.11% Pervious Area										
0.	070		38.89	9% Imperv	rious Area						
Тс	Lengt	h S	Slope	Velocity	Capacity	Description					
(min)	(fee	t)	(ft/ft)	(ft/sec)	(cfs)						
5.0						Direct Entry,					

Subcatchment 2B: By-Pass Basin



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Summary for Pond 2P: Pond

Inflow Area = 0.840 ac, 73.81% Impervious, Inflow Depth = 8.43" for 100yr event

Inflow 7.81 cfs @ 12.07 hrs, Volume= 0.590 af

6.25 cfs @ 12.13 hrs, Volume= Outflow 0.590 af, Atten= 20%, Lag= 3.6 min

6.25 cfs @ 12.13 hrs, Volume= Primary 0.590 af Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.02 hrs Peak Elev= 267.70' @ 12.13 hrs Surf.Area= 0.062 ac Storage= 0.073 af

Plug-Flow detention time= 5.7 min calculated for 0.590 af (100% of inflow)

Center-of-Mass det. time= 5.7 min (769.7 - 764.0)

Volume	Invert Av	/ail.Storage	Storage De	scription		
#1	264.50'	0.267 af	Custom St	age Data	(Prismatic)Listed below (Recalc)	
Elevation (feet)	Surf.Area (acres)	Inc.St (acre-fe		n.Store re-feet)		
264.50	0.000	0.0	000	0.000		
265.00	265.00 0.001		000	0.000		
266.00	0.012	0.0	006	0.007		
267.00	0.045	0.0	028	0.035		
268.00	0.069	0.0	057	0.092		
269.00	0.089	0.0	079	0.171		
270.00	0.103	0.0	096	0.267		
Device R	outing	Invert Ou	ıtlet Devices			

Device	Routing	Invert	Outlet Devices
#1	Primary	264.50'	12.0" Round Culvert
	•		L= 95.0' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 264.50' / 263.39' S= 0.0117 '/' Cc= 0.900
			n= 0.009, Flow Area= 0.79 sf
#2	Device 1	264.50'	6.0" Vert. Orifice/Grate C= 0.600
#3	Device 1	266.50'	8.0" Vert. Orifice/Grate C= 0.600
#4	Device 1	267.50'	48.0" Horiz. Orifice/Grate C= 0.600
			Limited to weir flow at low heads
#5	Secondary	268.50'	30.0' long x 4.0' breadth Broad-Crested Rectangular Weir
	•		Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00
			2.50 3.00 3.50 4.00 4.50 5.00 5.50
			Coef. (English) 2.38 2.54 2.69 2.68 2.67 2.67 2.65 2.66 2.66
			2.68 2.72 2.73 2.76 2.79 2.88 3.07 3.32

Primary OutFlow Max=6.21 cfs @ 12.13 hrs HW=267.69' (Free Discharge)

1=Culvert (Inlet Controls 6.21 cfs @ 7.90 fps)

-2=Orifice/Grate (Passes < 1.62 cfs potential flow)

-3=Orifice/Grate (Passes < 1.56 cfs potential flow)

-4=Orifice/Grate (Passes < 3.53 cfs potential flow)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=264.50' (Free Discharge)

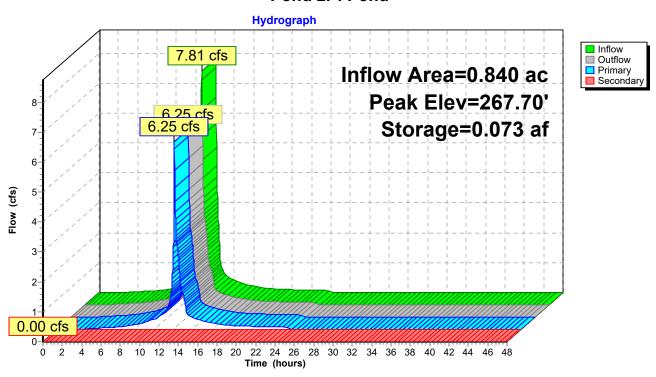
5=Broad-Crested Postonoular Max (Out to 10.00)

-5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

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Pond 2P: Pond



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Summary for Link 3L: Outfall (Post Dvlp)

Inflow Area = 1.020 ac, 67.65% Impervious, Inflow Depth = 8.24" for 100yr event

Inflow = 7.50 cfs @ 12.12 hrs, Volume= 0.700 af

Primary = 7.50 cfs @ 12.12 hrs, Volume= 0.700 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-48.00 hrs, dt= 0.02 hrs

Link 3L: Outfall (Post Dvlp)

