Bryant Development and Review Committee Meeting

Boswell Municipal Complex - City Hall Conference Room

210 SW 3rd Street

Date: May 19, 2022 - **Time:** 9:00 AM

Call to Order

Old Business

New Business

1. Meramec Specialty Company - Fireworks - 6905 HWY 5

Meramec Specialty Co - Requesting Approval for Temporary Business License

- 0550-APP-01.pdf

2. 1925 Johnswood Rd - Rezoning

Penny Webb - Requesting Rezoning from R-E to R-M

- 0551-APP-02.pdf
- 0551-APP-01.pdf

3. Bryant Family Clinic - 507 W Commerce - New Fencing

Scott Stone - Requesting Approval for Update to Site Plan for New Fencing

- 0552-PLN-01.pdf

4. Merchant and Farmers Bank - 3512 Hwy 5 - Outparcel

GarNat Engineering - Requesting Approval for Site Work to Outparcel

- 0553-PLN-02.pdf
- 0553-PLN-01.pdf

5. Doles Two Lot Subdivision - Corner of Zuber and Samples

Blake Doles - Requesting Discussion on Sewer Connection and Subdivision of Property

- 0558-PLN-01.pdf

6. Splash Carwash - Reynolds Road and Evans Loop

Phillip Lewis Engineering - Requesting Site Plan Approval

- 0559-PLN-02.pdf
- 0559-ELV-01.pdf
- 0559-PLN-01.pdf
- 0559-DRN-01.pdf
- 0559-APP-01.pdf

7. Abby Road Shopping Center - 1812 N Reynolds Road

Phillip Lewis Engineering - Requesting Discussion on Site Plan

- 0560-PLN-01.pdf

Staff Approved

8. VN Nails - 3310 Main St - Sign Permit

Requesting Sign Permit Approval - STAFF APPROVED

- 0549-APP-02.pdf
- 0549-APP-01.pdf

9. Modern Storage - 300 Dell Dr - Sign Permit

Arkansas Sign and Banner - Requesting Sign Permit Approval - STAFF APPROVED

- 0554-APP-01.pdf

10. Pizza Hut - 3429 Marketplace Ave - Sign Permit

Ace Sign Company - Requesting Sign Permit Approval - STAFF APPROVED

- 0555-APP-01.pdf

11. Leap Kids Dental - 7409 Alcoa Road - Sign Permit

Cupples Sign Co - Requesting Sign Permit Approval - STAFF APPROVED

- 0557-APP-01.pdf

Permit Report

Adjournments

MERAMEC SPECIALTY COMPANY

April , 2022

Bryant Planning Commission
Bryant City Hall
210 SW 3rd Street
Bryant, AR 72022

RE: Fireworks application for 6905 Highway 5 in Bryant, AR

Bryant Planning and Building Department:

The purpose of this letter is to notify the Bryant Planning Commission that Meramec Specialty Company has permission to sell fireworks at 6905 Highway 5 North in Bryant, AR during the period of June 10, 2022 through July 10, 2022. This is the same location that Meramec Specialty Company has operated at during previous years. I have attached the following items that are required in order to receive a fireworks permit in Bryant, AR.

1. A temporary business license application.
2. $25.00 application fee.
3. A copy of our site plan.
4. A letter of permission from the property owner.
5. A copy of our Surety Bond
6. A copy of a State of Arkansas fireworks permit.

If you have any questions or comments, please email me at kbaileyar@aol.com or call me at 901.409.1884.

Best regards,

MERAMEC SPECIALTY COMPANY

Kevin A. Bailey

P.O. BOX 1150 WEST MEMPHIS, AR PH (870)735-1753 FAX (870)735-1793

Temporary Business Application
City of Bryant

Date 4-21-2022

Name of Business Meramec Specialty Co.

Federal Tax Employer Identification Number 43-0762804

Arkansas State Sales Tax Number 035048-18-001

Type of Business Retail Fireworks

Location of proposed Temporary Business 6905 Hwy 5N., Bryant, AR. 72072

Owner Mailing Address P.O Box 1150, West Memphis, AR. 72303

Contact Person Kevin Bailey

Daytime Phone No. (901) 409-1884

Evening Phone No. (901) 409-1884

Please check the category you are applying for. Permits cannot exceed the following time limits:

___	Carnivals	30 Days
X	Fireworks stands or tents	30 Days
___	Christmas tree stands, tents or lots	60 Days
___	General commercial sales stands, tents or lots	90 Days
___	Concession/Refreshment stands/Food Service	180 Days

Beginning Date Requested June 20 Ending Date Requested July 7

I understand violation of Temporary Business Ordinance 2007-43 is a misdemeanor punishable by a fine of up to $500.00 per occurrence of violation. Each day's occurrence is a separate violation. No temporary business may operate for more than 180 days during any consecutive 12-month period. Meramec Specialty Company

Owners Signature Kevin Bailey

CITY OF BRYANT – BRYANT, ARKANSAS
210 S.W. Third Street, Bryant, Arkansas
Phone: (501) 847-5559 (Ext 212) or FAX: (501) 847-5332

Privilege Fee Information
TEMPORARY BUSINESS LICENSE PERMIT

(WHEN FILLING IN THE BLANKS PLEASE PRINT OR TYPE IN INK)

A $1000.00 Surety Bond made payable to the city of Bryant is required for all applicants and must be received in this office and approved before any license will be issued.

Date: 4-21-22

Business Name: Meramec Specialty Co.
Location of Business: 6905 Hwy 5 N. Bryant, AR. 72072
Mailing Address: P.O. Box 1180
City: West Memphis State: AR. Zip Code: 72303
Business Telephone: 870-735-1753 Cellphone:

Type of License applied for: Fireworks Period license is desired: June 20 - July 7

Type of Business (Services offered or product sold): Fireworks

Applicants Name: Kevin Bailey
Applicants Home Address: 5505 Chesterfield Cove
City: Bartlett State: TN. Zip Code: 38134
Applicants Home Telephone: 901-409-1884 Cellphone: 901-409-1884

Name(s) of each employee/peddler/vendor/salesman: Phillip Montalvo

Address of business or premises to be used in Bryant: 6905 Hwy 5 N.

Last two cities worked in: 1. — 2. —

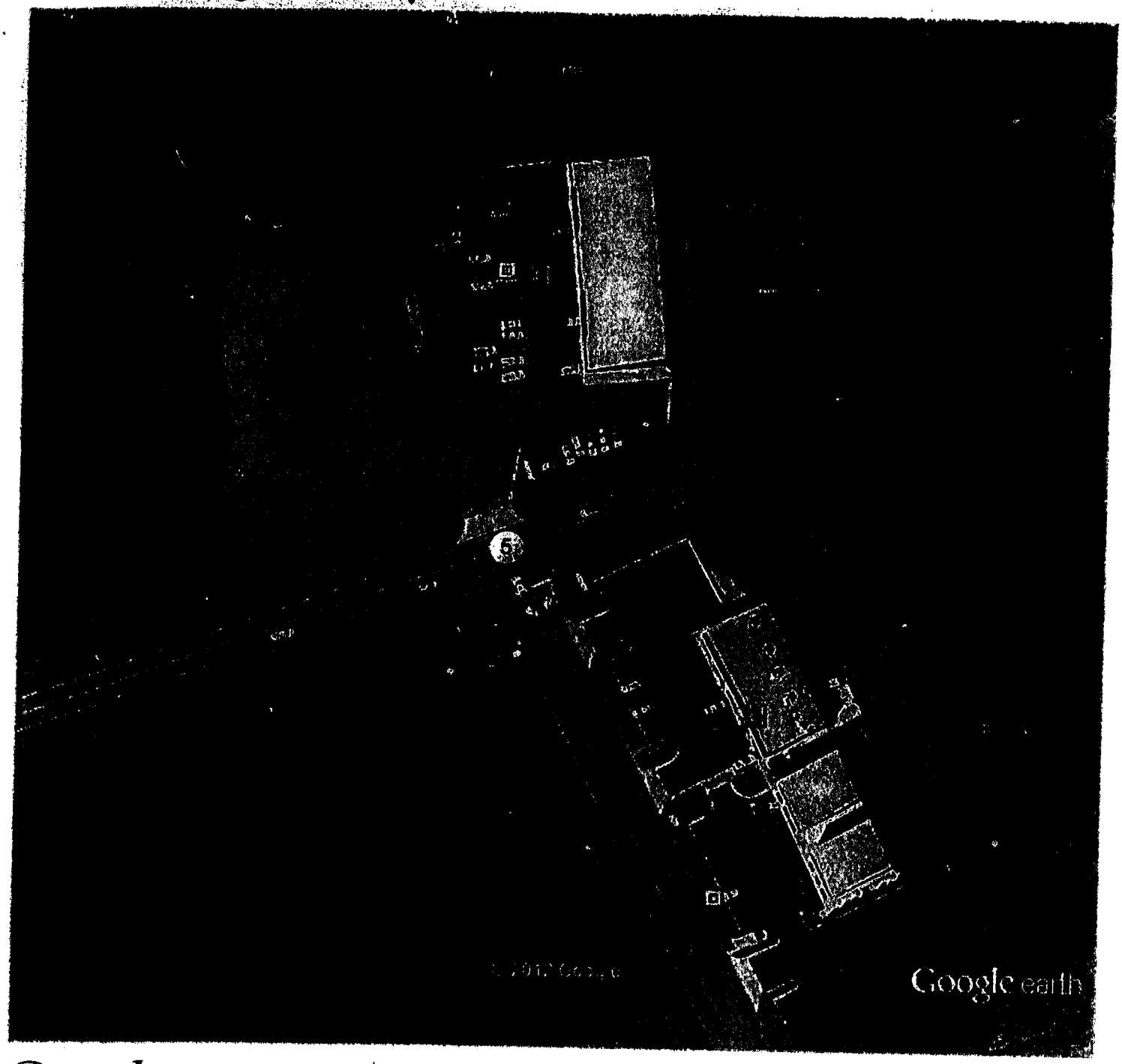
I hereby certify the above to be true and correct and state that I am operating a business in accordance with the city zoning regulations and/or any other city, state, or federal laws which may be applicable. I understand that if I am found to be in violation of any of the city zoning regulations and/or any other city laws, I may be subject to fines as outlined in any applicable City of Bryant Ordinance.

MERAMEC SPECIALTY COMPANY

Signature of Applicant

Bond Received and Approved
Signature of Designated City Official

6905 HWY. 5 N



Google earth

feet 400
meters 100

August 6, 2021

City of Bryant Planning Commission:

The purpose of this letter is to notify you that Meramec Specialty Company has permission to sell fireworks on my property during the period of June 15, 2022 through July 10, 2022. The physical address of the property is 6905 Highway 5 in Bryant, Arkansas.

Sincerely,

PINNACLE IMPROVEMENTS, LLC

Rick Jones

OUTDOOR MANAGEMENT DISPLAYS
P.O. BOX 91
ALEXANDER, AR 72002
Telephone 501.847.1000

August 23, 2021

Bryant Planning Commission:

The purpose of this letter is to notify you that Meramec Specialty Company has permission to sell fireworks on my property during the period of June 15, 2022 through July 10, 2022. The physical address of the property is 6905 Highway 5 in Bryant, Arkansas.

Sincerely,

OUTDOOR MANAGEMENT DISPLAYS

Billy Smith

WESTERN SURETY COMPANY • ONE OF AMERICA'S OLDEST BONDING COMPANIES

Western Surety Company

CONTINUATION CERTIFICATE

Western Surety Company hereby continues in force Bond No. 15146913 briefly described as TEMPORARY BUSINESS PERMIT CITY OF BRYANT, ARKANSAS, for MERAMEC SPECIALTY COMPANY, as Principal, in the sum of $ ONE THOUSAND AND NO/100 Dollars, for the term beginning May 20, 2022, and ending May 20, 2023, subject to all the covenants and conditions of the original bond referred to above.

This continuation is issued upon the express condition that the liability of Western Surety Company under said Bond and this and all continuations thereof shall not be cumulative and shall in no event exceed the total sum above written.

Dated this 6th day of April, 2022.

WESTERN SURETY COMPANY

By _____
Paul T. Bruflat, Vice President

WESTERN SURETY COMPANY CORPORATE SEAL SIOUX FALLS SOUTH DAKOTA

THIS "Continuation Certificate" MUST BE FILED WITH THE ABOVE BOND.

Form 90-A-8-2012

WESTERN SURETY COMPANY • ONE OF AMERICA'S OLDEST BONDING COMPANIES

0205

ARKANSAS STATE POLICE

REGULATORY and BUILDING OPERATIONS DIVISION

FIRE MARSHAL'S OFFICE

RETAIL FIREWORKS LICENSE - FEE $25.00

LICENSE EXPIRES JANUARY 6, 2023

This is to certify that the person named below is licensed to act as a RETAILER of FIREWORKS under the provision of Act 224 of 1961, as amended, State of Arkansas.

Name of Person Applying Kristi Loyd Telephone #: 870 735-175

Address of Person Applying 381 Front St. (Street) West Memphis (City) 72301 (Zip)

Name of Organization Meramec Specialty Co.

Address of the Stand Location 6139 Hwy 5N. (Street) Bryant (City) 72022 (Zip)

This license is issued to the person named above for use in making retail sales of PERMISSIBLE FIREWORKS from June 20 through July 10 and December 10 through January 5

This license is not transferable and must be DISPLAYED AT ALL TIMES.

Vendor: Atomic of Arkansas

License #: 801

Telephone #: (870) 735-1753

Date Issued: 4-11-22

Major Lindsey Williams
Major Lindsey Williams
State Fire Marshal
Telephone (501) 618-8624

NOTICE: This license may be revoked by the State Fire Marshal or his deputies for violation of any of the provisions of the above referred to law.

127

DRAYTON INSURANCE BROKERS, INC.

2500 CENTER POINT ROAD, SUITE 301
BIRMINGHAM, ALABAMA 35215
PHONE: (205) 854-5806
FAX: (205) 854-5899

POST OFFICE BOX 94067
BIRMINGHAM, ALABAMA 35220
EMAIL: dib@draytonins.com

CERTIFICATE OF INSURANCE

NO. 230502

We certify that insurance is afforded as stated below. This Certificate does not affirmatively or negatively amend, extend or alter the coverage afforded by the insurance policy and the insurance afforded is subject to all the terms, exclusions and conditions of the policy.

INSURER Admiral Insurance Company **POLICY NO.** CA000018967-09

NAMED INSURED
Atomic Fireworks Inc. of Arkansas
Atomic Fireworks Inc. of Missouri
Meramec Specialty Company
P.O. Box 305
Arnold, Missouri 63010

T.E.A. Enterprises, Inc.
Pacific Specialty Company
West Alton Properties, Inc
ATLG, LLC
ATLH, LLC

POLICY TERM March 1, 2022 to March 1, 2023; Both Days 12:01 A.M. Standard Time

COVERAGE Premises-Operations Liability: ☒ Occurrence Basis ☐ Claims Made Basis

LIMIT OF LIABILITY $1,000,000 each occurrence, $10,000,000 general aggregate
The limit of liability shall not be increased by the inclusion of more than one insured or additional insured.

INSURED OPERATIONS The sale of consumer fireworks (1.4G) and related products at the **Insured location**, during the **period of operation**.

It is certified that, for the period of operation stated below and when named below as such, this policy includes as Additional Insureds 1) the operator(s), sponsor(s), promoter(s), organizer(s), of the **Insured Premises** used principally for the retail sale of consumer fireworks supplied by the Named Insureds and/or 2) the owner(s), manager(s), tenant(s), mortgagee(s) (including other entities having similar interests), of the property on which the **Insured Premises** is located and/or 3) the licensing authority issuing a permit or license for the operation of the **Insured Premises** and/or 4) any entity for which the Named Insured is required, by written contract, to provide insurance such as is afforded by the terms of this policy.

NAME(S) OF ADDITIONAL INSURED(S)

Northside, LLC-Property Owner
Meramec Specialty Company-Stand Owner and Operator
Stand Manager and Sub-Operator
Licensing Authorities-State of Ar., City of Bryant

ADDRESS OF INSURED PREMISES An area measuring approximately 150' x 150' whose physical address is 6139 Hwy 5 N. in Bryant, Arkansas. #127A

PERIOD OF OPERATION March 1, 2022 through February 28, 2023

It is certified that this policy requires a 30 day mutual notice of cancellation between the Insurer and the Named Insured. In the event of such cancellation we will endeavor to mail 10 days written notice to the Additional Insured(s), whose name and address is shown hereon, but failure to mail such notice shall impose no obligation or liability of any kind upon the insurer and/or the undersigned.

DRAYTON INSURANCE BROKERS, INC.

March 1, 2022
DATE OF ISSUE

A. J. STRINGER, PRESIDENT

DRAYTON INSURANCE BROKERS, INC.

2500 CENTER POINT ROAD, SUITE 301
BIRMINGHAM, ALABAMA 35215
PHONE: (205) 854-5806
FAX: (205) 854-5899

POST OFFICE BOX 94067
BIRMINGHAM, ALABAMA 35220
EMAIL: dib@draytonins.com

CERTIFICATE OF INSURANCE

NO. 230503

We certify that insurance is afforded as stated below. This Certificate does not affirmatively or negatively amend, extend or alter the coverage afforded by the insurance policy and the insurance afforded is subject to all the terms, exclusions and conditions of the policy.

INSURER Admiral Insurance Company **POLICY NO.** CA000018967-09

NAMED INSURED
Atomic Fireworks Inc. of Arkansas
Atomic Fireworks Inc. of Missouri
Meramec Specialty Company
P.O. Box 305
Arnold, Missouri 63010

T.E.A. Enterprises, Inc.
Pacific Specialty Company
West Alton Properties, Inc
ATLG, LLC
ATLH, LLC

POLICY TERM March 1, 2022 to March 1, 2023; Both Days 12:01 A.M. Standard Time

COVERAGE Premises-Operations Liability: ☒ Occurrence Basis ☐ Claims Made Basis

LIMIT OF LIABILITY $1,000,000 each occurrence, $10,000,000 general aggregate
The limit of liability shall not be increased by the inclusion of more than one insured or additional insured.

INSURED OPERATIONS The sale of consumer fireworks (1.4G) and related products at the **Insured location**, during the **period of operation**.

It is certified that, for the period of operation stated below and when named below as such, this policy includes as Additional Insureds 1) the operator(s), sponsor(s), promoter(s), organizer(s), of the **Insured Premises** used principally for the retail sale of consumer fireworks supplied by the Named Insureds and/or 2) the owner(s), manager(s), tenant(s), mortgagee(s) (including other entities having similar interests), of the property on which the **Insured Premises** is located and/or 3) the licensing authority issuing a permit or license for the operation of the **Insured Premises** and/or 4) any entity for which the Named Insured is required, by written contract, to provide insurance such as is afforded by the terms of this policy.

NAME(S) OF ADDITIONAL INSURED(S)

Pinnacle Improvements, LLC- Property Owner
Meramec Specialty Company-Stand Owner and Operator
Stand Manager and Sub-Operator
Licensing Authorities-State of Ar., City of Bryant

ADDRESS OF INSURED PREMISES An area measuring approximately 150' x 150' whose physical address is 6139 Hwy 5 N. in Bryant, Arkansas. #127B

PERIOD OF OPERATION March 1, 2022 through February 28, 2023

It is certified that this policy requires a 30 day mutual notice of cancellation between the Insurer and the Named Insured. In the event of such cancellation we will endeavor to mail 10 days written notice to the Additional Insured(s), whose name and address is shown hereon, but failure to mail such notice shall impose no obligation or liability of any kind upon the insurer and/or the undersigned.

DRAYTON INSURANCE BROKERS, INC.

March 1, 2022
DATE OF ISSUE

A.J. STRINGER, PRESIDENT

State of Arkansas

ARKANSAS SALES AND USE TAX PERMIT

MERAMEC SPECIALITY CO

P.O. BOX 1150

WEST MEMPHIS AR 72301

DATE ISSUED:

PERMIT NUMBER: 035048-18-00i

DLN:

DATE OPENED: 01/01/1965

SIC: 5042
TOYS AND HOBBY GOODS AND SUPPLIES

EXEMPTION: 81 THIS BUSINESS IS EXEMPT FROM SALES TAX ONLY FOR THE PURCHASES OF GOODS TO BE RESOLD IN THE NORMAL COURSE OF BUSINESS.

THIS PERMIT IS VALID UNTIL IT IS CANCELED AND SURRENDERED BY THE PERMIT HOLDER OR REVOKED BY THE COMMISSIONER OF REVENUES.

THIS PERMIT MUST BE SURRENDERED IF BUSINESS IS SOLD, DISCONTINUED OR LOCATION CHANGED.

WHEN THIS PERMIT IS SURRENDERED FOR ANY OF THE ABOVE REASONS, YOU MUST REPORT AND PAY ANY SALES OR USE TAX PLUS ANY PENALTIES OR INTEREST THAT IS OWED BY THIS BUSINESS. FAILURE TO PAY THESE TAXES WILL RESULT IN A LIEN BEING PLACED AGAINST THE STOCK AND FIXTURES OF THIS BUSINESS AND THE SAME IS ENFORCEABLE AGAINST PURCHASERS AND THIRD PARTIES.

Certificate of Flame Resistance

REGISTERED FABRIC NUMBER

140.01

ISSUED BY

SNYDER MANUFACTURING, INC.
3001 PROGRESS STREET
DOVER, OHIO 44622

Date manufactured

06/02/10

This is to certify that the materials described below are flame-retardant and inherently nonflammable.

FOR RIVER CITY TENTS AND AWNING INC

CITY PINE BLUFF ADDRESS 3008 EVA DRIVE

STATE AR 71602

☒ The articles described below are made from a flame-resistant fabric or material registered and approved by the State Fire Marshal for such use.

The Flame Retardant Process Used WILL NOT Be Removed By Washing

* FABRIC MEETS THE REQUIREMENTS OF THE SPECIFICATIONS LISTED BELOW INDICATED BY ☒

☐ NFPA-701 (Large Scale) ☐ MIL-C-43006

☐ CAN/ULC-S109 ☐ CPAI-84 ☐ FMVSS-302

☐ A-A-55305

SNYDER MANUFACTURING INC. By Michael D. Smith Title Supervisor, Quality Control

STYLE PRV 13109 WHITE 61" HI GLOSS

CONTROL NO. 18629

SNYDER S-ORDER NO. 216670 CUSTOMER ORDER NO. RAY

YARDS OR QUANTITY 375 DATE PROCESSED 06/02/10

DATE CERTIFIED 06/04/10

4.10-4-99F-R2

Certificate of Flame Resistance

REGISTERED FABRIC NUMBER

140.01

ISSUED BY

SNYDER MANUFACTURING, INC.
3001 PROGRESS STREET
DOVER, OHIO 44622

Date manufactured

06/02/10

This is to certify that the materials described below are flame-retardant and inherently nonflammable.

FOR RIVER CITY TENTS AND AWNING INC

CITY PINE BLUFF ADDRESS 3008 EVA DRIVE

STATE AR 71602

☒ The articles described below are made from a flame-resistant fabric or material registered and approved by the State Fire Marshal for such use.

The Flame Retardant Process Used WILL NOT Be Removed By Washing

* FABRIC MEETS THE REQUIREMENTS OF THE SPECIFICATIONS LISTED BELOW INDICATED BY ☒

☐ NFPA-701 (Large Scale) ☐ MIL-C-43006

☐ CAN/ULC-S109 ☐ CPAI-84 ☐ FMVSS-302

☐ A-A-55305

SNYDER MANUFACTURING INC. By Michael D. Smith Title Supervisor, Quality Control

STYLE PRV 13109 RED 61" HI GLOSS

CONTROL NO. 18564

SNYDER S-ORDER NO. 216670 CUSTOMER ORDER NO. RAY

YARDS OR QUANTITY 375 DATE PROCESSED 06/02/10

DATE CERTIFIED 06/04/10

Certificate of Flame Resistance

REGISTERED FABRIC NUMBER
140.01

ISSUED BY
SNYDER MANUFACTURING, INC.
3001 PROGRESS STREET
DOVER, OHIO 44622

Date manufactured
02/07/11

This is to certify that the materials described below are flame-retardant and inherently nonflammable.

FOR RIVER CITY TENTS AND AWNING INC
ADDRESS 3008 EVA DRIVE
CITY PINE BLUFF
STATE AR 71602

☒ The articles described below are made from a flame-resistant fabric or material registered and approved by the State Fire Marshal for such use.

The Flame Retardant Process Used WILL NOT Be Removed By Washing

* FABRIC MEETS THE REQUIREMENTS OF THE SPECIFICATIONS LISTED BELOW INDICATED BY ☒

☐ NFPA-701 (Large Scale) ☐ MIL-C-43006 ☐ FMVSS-302
☐ CAN/ULC-S109 ☐ CPAI-84 ☐ A-A-55306

SNYDER MANUFACTURING INC. By Title Supervisor, Quality Control

STYLE PRV 13100 DARK BLUE 61" HI-GLOSS
CONTROL NO. 18347
SNYDER S-ORDER NO. 215565
YARDS OR QUANTITY 75
CUSTOMER ORDER NO. VBL RAY
DATE PROCESSED 02/07/11
DATE CERTIFIED 02/22/11

4.10-4-SFF-92

Certificate of Flame Resistance

REGISTERED FABRIC NUMBER
140.01

ISSUED BY
SNYDER MANUFACTURING, INC.
3001 PROGRESS STREET
DOVER, OHIO 44622

Date manufactured
01/06/11

This is to certify that the materials described below are flame-retardant and inherently nonflammable.

FOR RIVER CITY TENTS AND AWNING INC
ADDRESS 3008 EVA DRIVE
CITY PINE BLUFF
STATE AR 71602

☒ The articles described below are made from a flame-resistant fabric or material registered and approved by the State Fire Marshal for such use.

The Flame Retardant Process Used WILL NOT Be Removed By Washing

* FABRIC MEETS THE REQUIREMENTS OF THE SPECIFICATIONS LISTED BELOW INDICATED BY ☒

☐ NFPA-701 (Large Scale) ☐ MIL-C-43006 ☐ FMVSS-302
☐ CAN/ULC-S109 ☐ CPAI-84 ☐ A-A-55306

SNYDER MANUFACTURING INC. By Title Supervisor, Quality Control

STYLE PRV 13100 WHITE 61" HI GLOSS
CONTROL NO. 19254
SNYDER S-ORDER NO. 220003
YARDS OR QUANTITY 300
CUSTOMER ORDER NO. RAY
DATE PROCESSED 01/06/11
DATE CERTIFIED 01/21/11

4.10-4-SFF-92

Advertising Receipt

Saline Courier
PO Box 207
Benton AR 72018

Phone: (501) 315-8228
Fax: (501) 315-1920

Clayton Homes-Legals
Jessie Helton
26204 Interstate 30
Bryant , AR 72022

Acct #: 04109259
Ad #: 00116521
Phone: (501)653-3200
Date: 04/29/2022
Ad taker: JS **Salesperson:** LEGA

Sort Line: NOTICE OF PUBLIC HEARING A pu **Classification** 710

Description	Start	Stop	Ins.	Cost/Day	Total
01 The Saline Courier	05/27/2022	05/27/2022	1	46.80	46.80
AFFI Affidavit					2.60

Ad Text:

NOTICE OF PUBLIC HEARING

A public hearing will be held on Monday, June 13, 2022 at 6:00 P.M. at the Bryant City Office Complex, 210 Southwest 3rd Street, City of Bryant, Saline County, for the purpose of public comment on a conditional use request at the site of 1925 Johnswood Rd, Bryant, AR 72022. A legal description of this property can be obtained by contacting the Bryant Department of Community Development.

Rick Johnson Chairman Board of Zoning Adjustment
City of Bryant

Payment Reference:

Jessie Helton CC NO. 5374 04/24 -49.4 Auth:

Total:	49.40
Tax:	0.00
Net:	49.40
Prepaid:	-49.40
Total Due:	0.00

City of Bryant, Arkansas
Community Development
210 SW 3rd Street Bryant, AR 72022
501-943-0943

Rezoning Application

Applicants are advised to read the Amendments section of Bryant Zoning Code prior to completing and signing this form. The Zoning Code is available at www.cityofbryant.com under the Planning and Community Development tab.

Date: 4/25/22

Applicant or Designee:

Name Penny Webb
Address 1925 Johnswood Rd
Phone 501-681-9828
Email Address N/A

Property Owner (If different from Applicant):

Name Ahran Washington & Daphne Powell
Address 1907 Johnswood Rd. Bryant, AR 72103
Phone 501-348-0453 501-416-3994
Email Address ahran_washington@yahoo.com

Property Information:

Address 1925 Johnswood Rd Bryant, AR 72022
Parcel Number 84013189-001
Existing Zoning Classification RE
Requested Zoning Classification RM

Legal Description (If Acreage or Metes and Bounds description, please attach in a legible typed format)

_____

Application Submission Checklist:

- ☑ Letter stating request of zoning change from (Current Zoning) to (Requested Zoning) and to be placed on the Planning Commission Agenda
- ☑ Completed Rezoning Application
- ☑ Rezoning Application Fee ($40 fee for lot and black descriptions or $125 for acreage or metes and bound descriptions)
- ☑ If someone, other than the owner, will be handling the zoning process, we will require a

letter from the owner of said property, giving him or her authority to do so.

☑ Recent surveyed plat of the property including vicinity map

Additional Requirements:

*Items below **must be completed before the public hearing can occur**. Failure to provide notices in the following manners shall require delay of the public hearing until notice has been properly made.*

☐ Publication: Public Notice shall be published by the applicant at least one (1) time fifteen (15) days prior to the public hearing at which the rezoning application will be heard. Once published please provide a proof of publication to the Community Development office. (Sample notice attached below)

☐ Posting of Property: The city shall provide signs to post on the property involved for the fifteen (15) consecutive days leading up to Public hearing. One (1) sign is required for every two hundred (200) feet of street frontage.

☐ Notification of adjacent landowners: Applicant shall attempt to inform by certified letter, return receipt requested, all owners of land within three hundred (300) feet of any boundary of the subject property of the public hearing. (Sample letter attached below)

☐ Certified list of property owners, all return receipts, and a copy of the notice shall be provided to the Community Development Department at least five (5) days prior to the public hearing.

Note: that this is not an exhaustive guideline regarding the Conditional Use Permit Process. Additional information is available in the Bryant Zoning Ordinance.

READ CAREFULLY BEFORE SIGNING

I Danny Webb, do hereby certify that all information contained within this application is true and correct. I further certify that the owner of the property authorizes this proposed application. I understand that I must comply with all City Codes that pertain to this project and that it is my responsibility to obtain all necessary permits as needed.

REQUEST OF ZONING CHANGE

I am writing to formally request a zoning change for the property located at **1925 Johnswood Rd, Bryant, AR 72022** from **RE to RM**.

Thank you for your time and consideration.

4·25·22

Signature & Date

To Whom It May Concern,

As the property owners we, Ahran Washington and Daphne Powell, give Penny Webb the authority to handle the rezoning process of the property at 1925 Johnswood Rd, Bryant, AR 72022.

Thank you,

Ahran Washington 4/26/22

Property Owner Signature & Date

4/26/22

Property Owner Signature & Date

21-1254
Drawing No.

Know what's below. Call before you dig.

POINT OF COMMENCEMENT
FND 1/2" PINCH PIPE
NW CORNER NW 1/4 SE 1/4
SECTION 23 T-01-S, R-14-W

Parcel Line Table		
Line #	Direction	Length
L1	N3°15'56"E	47.49'
L2	S86°30'53"E	30.02'
L7	S4°40'20"W	47.33'
L8	N86°51'09"W	28.86'

Easement Line Table		
Line #	Direction	Length
L3	S3°15'41"W	65.89'
L4	N3°15'56"E	20.00'
L5	N3°15'41"E	45.86'
L6	S86°56'16"E	20.00'

BASIS OF BEARINGS: GRID NORTH ARKANSAS COORDINATE SYSTEM, SOUTH ZONE BY G.P.S. OBSERVATIONS

BJ WILLIAMS PROPERTIES LLC
PARCEL #840-13188-000

FND 5/8" REBAR

S3° 15' 04"W 757.57'

S86° 49' 24"E 629.46'

15' BUILDING SETBACK LINE (B.S.L.)

FND 5/8" REBAR & FND 2" PIPE

25' BUILDING SETBACK LINE

FARR THELMA ETAL (1/3 Rec'd #840-13188-000)

N3° 15' 00"E 345.88'

TRACT 1
4.33 ACRES
188664 Sq. Ft.

EXISTING DWELLING

DECK 8' x 8' GAZEBO

28.7'
69.0'
76.4'
21.6'
40.4'

STORM SHELTER SHED

15' B.S.L.

N86° 56' 16"W 359.64'

15' BUILDING SETBACK LINE

25' B.S.L.

25' B.S.L.

N3° 15' 41"E 121.11'

25' BUILDING SETBACK LINE

225.33'

S3° 14' 32"W 346.43'

WALLACE, A C JR & DOROTHY TRUSTEES JOINT REVOCABLE
PARCEL #840-13187-003

POINT OF BEGINNING TRACT 2

FND 1/2" REBAR

TRACT 2
1.00 ACRES
43557 Sq. Ft.

FND 1/2" REBAR
POINT OF BEGINNING TRACT 1 & DEDICATION TO THE CITY OF BRYANT

L2

S86° 51' 09"E 279.85'

20' INGRESS/EGRESS/UTILITY ESMT

L7

L8

L4

L3

45.89'

15' BUILDING SETBACK LINE

N86° 56' 16"W 359.68'

FND 3/8" REBAR

N86° 51' 09"W 299.85'

FND 1/2" REBAR

FND 1/2" REBAR

FND 1.5" PIPE

FARR THELMA ETAL
PARCEL #840-13190-000

FND 2" PIPE

N3° 15' 56"E 558.46'

24' EASEMENT (SALINE DOC #2021-015929)

FND 1" X 2" ROD
SW CORNER
NW 1/4 SE 1/4
SECTION 23
T-01-S, R-14-W

JOHNSWOOD ROAD

2022-007655
I certify this instrument was filed on:
04/01/2022 09:09:24 AM
Myka Bono Sample
Saline County Circuit Clerk
Pages: 1
C GREGORY

CERTIFICATE OF OWNER:

We, the undersigned, owners of the real estate shown and described herein do hereby certify that we have laid off, platted and subdivided, and do hereby lay off, plat and subdivide said real estate in accordance with the within plat.

3/11/22
Date of Execution

Name: Ahran Washington

Source of Title: Saline County Deed Book 2021 Page 015929.

CERTIFICATE OF FINAL SURVEYING ACCURACY:

I, Jonathan L. Hope, hereby certify that this plat correctly represents a survey completed by me, or under my supervision, that the boundary lines shown hereon correspond with the description in the deeds cited in the above Source of Titles; and that all monuments which were found or placed on the property are correctly described and located.

3/31/2022
Date of Execution

Name: Jonathan L. Hope,
Registered Professional
Land Surveyor, No. 1762
Arkansas

CERTIFICATE OF FINAL APPROVAL:

Pursuant to the City of Bryant Subdivision Rules and Regulations, this document was given approval by the Bryant Planning Commission at a meeting held _____ 20___. All documents is hereby accepted, and this certificate executed under the authority of said rules and regulations.

3/31/22
Date of Execution

Rick Johnson
Bryant Planning Commission

LEGAL DESCRIPTION

TRACT 1
PART OF THE NORTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 23, TOWNSHIP 01 SOUTH, RANGE 15 WEST, SALINE COUNTY, ARKANSAS, MORE PARTICULARLY DESCRIBED AS FOLLOWS:
COMMENCING A FOUND 1/2" PINCH PIPE ACCEPTED AS THE NORTHWEST CORNER OF THE NORTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 23; THENCE S03°15'04"W, ALONG THE WEST LINE THEREOF, A DISTANCE OF 757.57 FEET TO A FOUND 1/2" REBAR BEING THE **POINT OF BEGINNING** OF HEREIN TRACT OF LAND; THENCE LEAVING SAID WEST LINE, S86°30'53"E, A DISTANCE OF 30.02 FEET TO A FOUND 1/2" REBAR; THENCE N03°15'00"E, A DISTANCE OF 345.88 FEET TO A FOUND 5/8" REBAR REBAR;
THENCE S86°49'24"E, A DISTANCE OF 629.46 FEET TO A FOUND 5/8" REBAR;
THENCE S03°14'32"W, A DISTANCE OF 225.33 FEET TO A SET 1/2" REBAR PLS #1762;
THENCE N86°56'16"W, A DISTANCE OF 359.64 FEET TO A SET 1/2" REBAR PLS #1762;
THENCE S03°15'41"W, A DISTANCE OF 121.11 FEET TO A FOUND 1/2" REBAR; THENCE S03°15'41"W, A DISTANCE OF 45.89 FEET TO FOUND 1/2" REBAR; THENCE N86°51'09"W, A DISTANCE OF 299.85 FEET TO A SET 1/2" REBAR PLS #1762 ON WEST LINE OF THE NORTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 23, THENCE N03°15'56"E, ALONG THE WEST LINE THEREOF, A DISTANCE OF 47.49 FEET TO THE **POINT OF BEGINNING**, CONTAINING 4.33 ACRES OR 188,664 SQUARE FEET, MORE OR LESS;

LESS & EXCEPT THAT PORTION TO BE DEDICATED TO THE CITY OF BRYANT, SALINE COUNTY, ARKANSAS MORE PARTICULARLY DESCRIBED AS FOLLOWS; COMMENCING A FOUND 1/2" PINCH PIPE ACCEPTED AS THE NORTHWEST CORNER OF THE NORTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 23, THENCE S03°15'04"W, ALONG THE WEST LINE THEREOF, A DISTANCE OF 757.57 FEET TO A FOUND 1/2" REBAR BEING THE **POINT OF BEGINNING** OF HEREIN TRACT OF LAND; THENCE LEAVING SAID WEST LINE, S86°30'53"E, A DISTANCE OF 30.02 FEET TO A FOUND 1/2" REBAR; THENCE S04°40'20"W, A DISTANCE OF 47.33 FEET TO A FOUND 1/2" REBAR; THENCE N86°51'09"W, A DISTANCE OF 28.86 FEET TO A SET 1/2" REBAR ON THE WEST LINE OF THE NORTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 23, THENCE N03°15'56"E, ALONG THE WEST LINE THEREOF, A DISTANCE OF 47.49 FEET TO THE **POINT OF BEGINNING**; CONTAINING 0.03 ACRES OR 1,395.4 SQUARE FEET, MORE OR LESS;

ALSO, TOGETHER WITH A 24' INGRESS AND EGRESS EASEMENT AS DESCRIBED IN SALINE COUNTY DOCUMENT NUMBER 2021-015929;

ALSO, SUBJECT TO A 20' INGRESS/EGRESS & UTILITY EASEMENT OVER THE FOLLOWING DESCRIBED PROPERTY:
PART OF THE NORTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 23, TOWNSHIP 01 SOUTH, RANGE 15 WEST, SALINE COUNTY, ARKANSAS, MORE PARTICULARLY DESCRIBED AS FOLLOWS:
COMMENCING A FOUND 1/2" PINCH PIPE ACCEPTED AS THE NORTHWEST CORNER OF THE NORTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 23; THENCE S03°15'04"W, ALONG THE WEST LINE THEREOF, A DISTANCE OF 757.57 FEET TO A FOUND 1/2" REBAR; THENCE N03°15'56"E, A DISTANCE OF 47.49 FEET TO THE **POINT OF BEGINNING** OF SAID EASEMENT; THENCE N03°15'56"E, A DISTANCE OF 20.00 FEET; THENCE S86°51'09"E, A DISTANCE OF 279.85 FEET; THENCE N03°15'41"E, A DISTANCE OF 45.86 FEET; THENCE S86°56'16"E, A DISTANCE OF 20.00 FEET; THENCE S03°15'41"W, A DISTANCE OF 65.89 FEET; THENCE N86°51'09"W, A DISTANCE OF 299.85 FEET TO THE POINT OF BEGINNING; CONTAINING 0.16 ACRE OR 6,914 SQUARE FEET, MORE OR LESS.

TRACT 2
PART OF THE NORTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 23, TOWNSHIP 01 SOUTH, RANGE 15 WEST, SALINE COUNTY, ARKANSAS, MORE PARTICULARLY DESCRIBED AS FOLLOWS:
COMMENCING A FOUND 1/2" PINCH PIPE ACCEPTED AS THE NORTHWEST CORNER OF THE NORTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 23; THENCE S03°15'04"W, ALONG THE WEST LINE THEREOF, A DISTANCE OF 757.57 FEET TO A FOUND 1/2" REBAR; THENCE LEAVING SAID WEST LINE, S86°30'53"E, A DISTANCE OF 30.02 FEET TO A FOUND 1/2" REBAR; THENCE N03°15'00"E, A DISTANCE OF 345.88 FEET TO A FOUND 5/8" REBAR REBAR; THENCE S86°49'24"E, A DISTANCE OF 629.46 FEET TO A FOUND 5/8" REBAR; THENCE S03°14'32"W, A DISTANCE OF 225.33 FEET THE **POINT OF BEGINNING** OF HEREIN TRACT OF LAND; THENCE S03°14'32"W, A DISTANCE OF 121.11 FEET TO A FOUND 2" PIPE; THENCE N86°56'16"W, A DISTANCE OF 359.68 FEET TO A FOUND 1/2" REBAR; THENCE N03°15'41"E, A DISTANCE OF 121.11 FEET TO A SET 1/2" REBAR PLS #1762; THENCE S86°56'16" E A DISTANCE OF 359.64 FEET TO THE POINT OF BEGINNING; CONTAINING 1.00 ACRE OR 43,557 SQUARE FEET, MORE OR LESS;

ALSO, TOGETHER WITH A 24' INGRESS AND EGRESS EASEMENT AS DESCRIBED IN SALINE COUNTY DOCUMENT NUMBER 2021-015929;

ALSO, TOGETHER WITH A 20' INGRESS/EGRESS & UTILITY EASEMENT OVER THE FOLLOWING DESCRIBED PROPERTY:
PART OF THE NORTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 23, TOWNSHIP 01 SOUTH, RANGE 15 WEST, SALINE COUNTY, ARKANSAS, MORE PARTICULARLY DESCRIBED AS FOLLOWS:
COMMENCING A FOUND 1/2" PINCH PIPE ACCEPTED AS THE NORTHWEST CORNER OF THE NORTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 23; THENCE S03°15'04"W, ALONG THE WEST LINE THEREOF, A DISTANCE OF 757.57 FEET TO A FOUND 1/2" REBAR; THENCE N03°15'56"E, A DISTANCE OF 47.49 FEET TO THE **POINT OF BEGINNING** OF SAID EASEMENT; THENCE N03°15'56"E, A DISTANCE OF 20.00 FEET; THENCE S86°51'09"E, A DISTANCE OF 279.85 FEET; THENCE N03°15'41"E, A DISTANCE OF 45.86 FEET; THENCE S86°56'16"E, A DISTANCE OF 20.00 FEET; THENCE S03°15'41"W, A DISTANCE OF 65.89 FEET; THENCE N86°51'09"W, A DISTANCE OF 299.85 FEET TO THE POINT OF BEGINNING; CONTAINING 0.16 ACRE OR 6,914 SQUARE FEET, MORE OR LESS.

100' 50' 0' 100'

REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF ARKANSAS
NO. 1762
SIGNATURE
JONATHAN L. HOPE
3/31/22

HOPE CONSULTING
ENGINEERS - SURVEYORS

117 S. Market Street,
Benton, Arkansas 72015
TEL (501) 315-2626
FAX (501) 315-0024
www.hopeconsulting.com

For the Exclusive Use and Benefit of:
Ahran Washington;

Address 1907 Johnswood Road
Bryant, Arkansas 72022
Date 12/03/2021

500	01S	14W	0	23	240	62	1762

By affixing my seal and signature, I Jonathan L. Hope, PLS No, 1762, hereby certify that this drawing correctly depicts a survey compiled under my supervision.

This survey is for the exclusive use and benefit of parties shown hereon. Use or duplication of this document by any other parties is prohibited and voids said document.

This survey was based on legal descriptions and title work furnished by others. No investigation or independent search has been made for easements of record, encumbrances, restrictive covenants, ownership title information, or any other facts which an accurate and current title search may disclose.

No portion of the property described hereon lies within the 100 year flood plain, according to the Flood Insurance Rate Map, panel # 05125C0380E , dated: 06/05/2020.

LEGEND
- Aliquot Corner
- Found Monument
- Set ½" Rebar
- Computed point
(M)-Measured
(P)-Platted
-x-x-x- -Fence

Drawn By: JPP Checked: _____

Privacy fence in grass between curbs.

PRICING ONLY - NOT FOR CONSTRUCTION

A-1

SHEET NUMBER

10-148 PROJECT NUMBER

MAY 11, 2010 ISSUE DATE

REVISION DATE

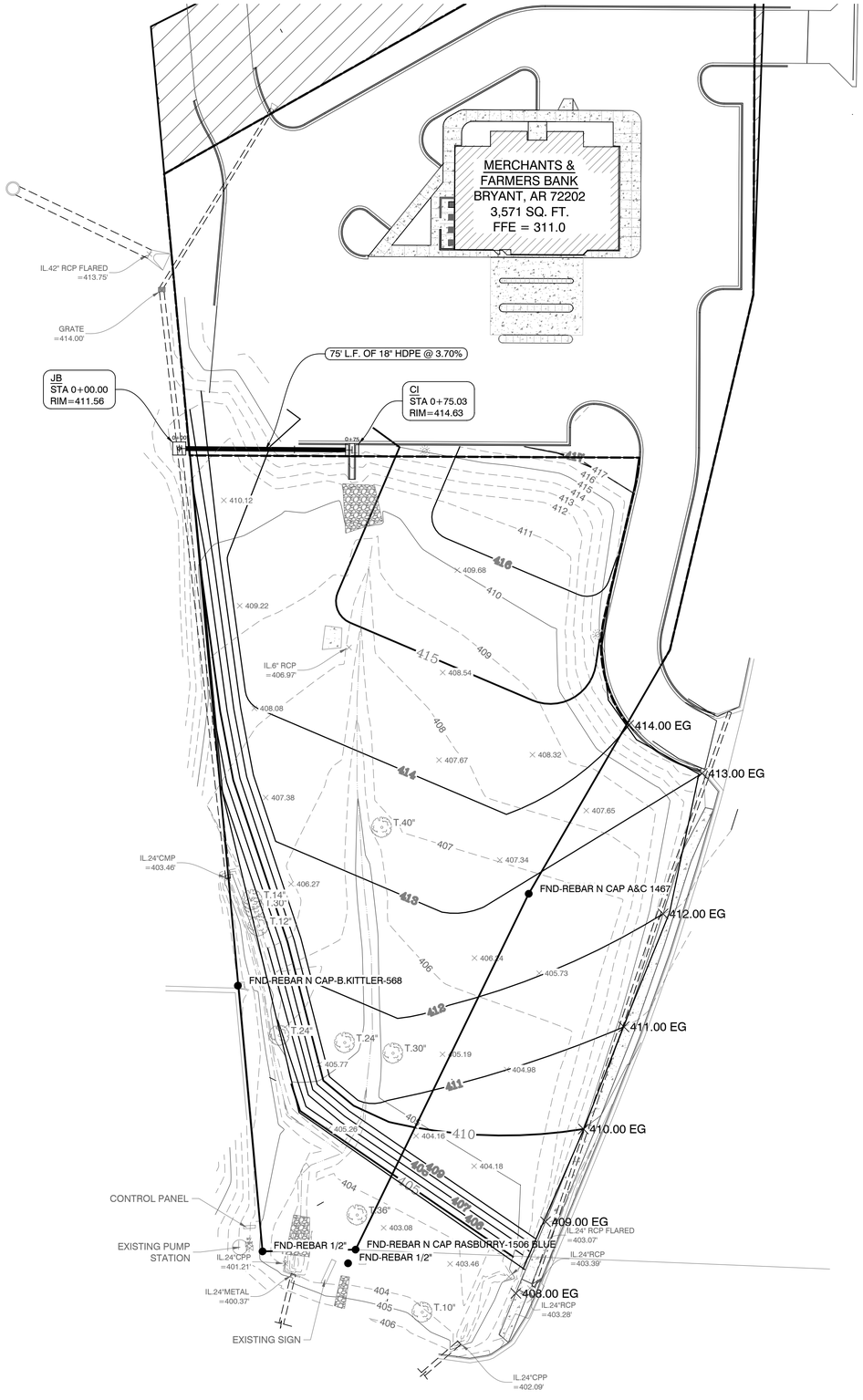
SITE PLAN SHEET TITLE

BRYANT FAMILY CLINIC
PHASE I
BRYANT, ARKANSAS

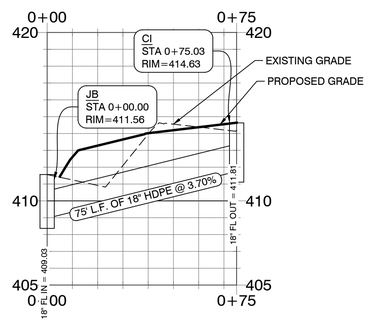
EIGHTEEN CORPORATE HILL DRIVE
LITTLE ROCK, AR 72205
T 501.224.0870
F 501.224.0873

WILLIAMS & DEAN ASSOCIATED ARCHITECTS

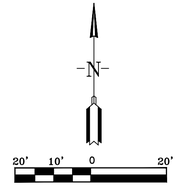
Primary tare in glass
bottom carbs.



Proposed PROFILE



HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" =3'



DATE	REVISION	BY

GNE Designing our client's success
GarNat Engineering, LLC
P.O. Box 116
Benton, AR 72018
Ph (501) 408-4650
3825 Mt Carmel Rd
Bryant, AR 72022
garnatengineering@gmail.com

MERCHANTS & FARMERS BANK
SOUTH TRACT
DRAINAGE IMPROVEMENTS
BRYANT, AR

STATE OF ARKANSAS
Vernon J. Williams
REGISTERED
PROFESSIONAL
ENGINEER
NO. 9551
VERNON J. WILLIAMS

2-05-2020

CONTENTS:

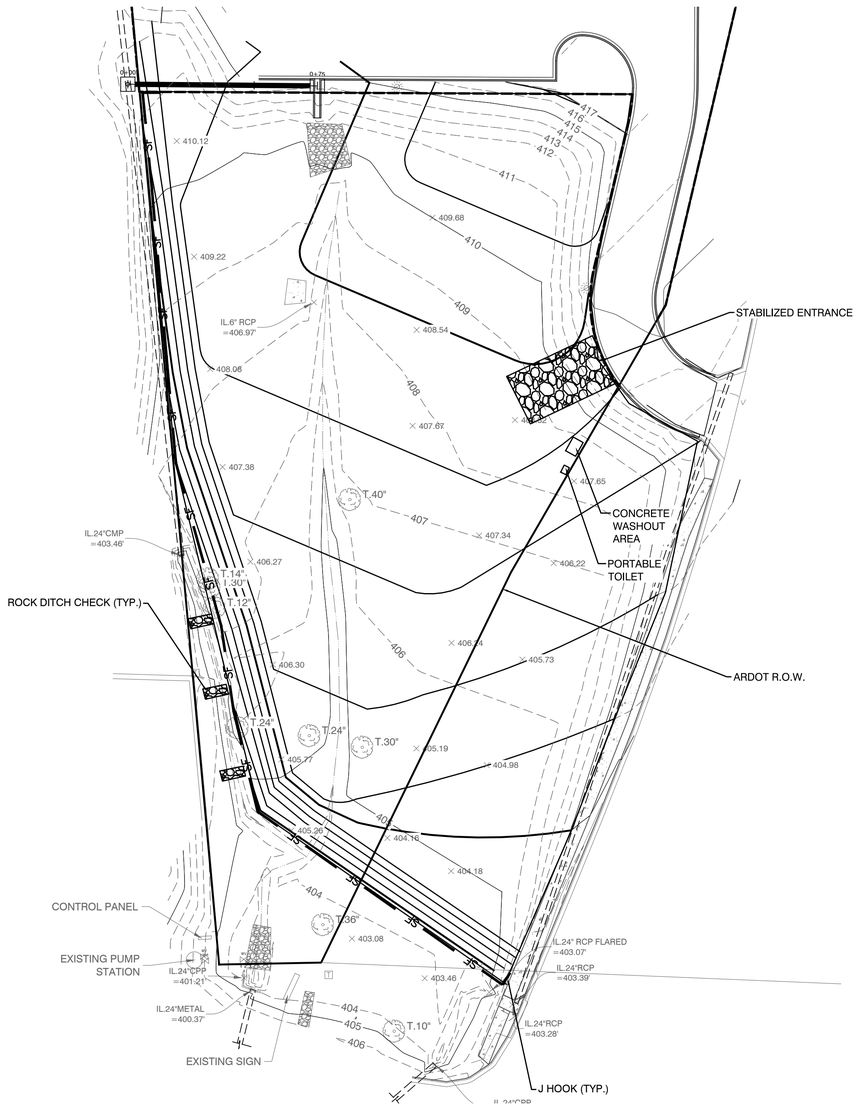
GRADING & DRAINAGE PLAN

PROJECT NO:
20003

DATE:
JAN. 2020

SHEET NO:
C1.0

a:\Projects\2020 Projects\20003 Merchants and Farmers Bank South Tract Drainage Improvements\Design\20003 Merchants and Farmers Bank South Tract Grading Plan 28 x 34.dwg



BMP NOTES:

1. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.

2. DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.

3. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIAL SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORMWATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.

4. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS STOPPED FOR AT LEAST 14 DAYS, SHALL BE TEMPORARILY SEEDED. THESE AREAS SHALL BE SEEDED NO LATER THAN 14 DAYS FROM THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS.

5. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY SEEDED. THESE AREAS SHALL BE SEEDED NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS. REFER TO THE GRADING PLAN AND/OR LANDSCAPE PLAN.

6. IF THE ACTION OF VEHICLES TRAVELING OVER THE SITE IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF OF THE SITE.

7. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

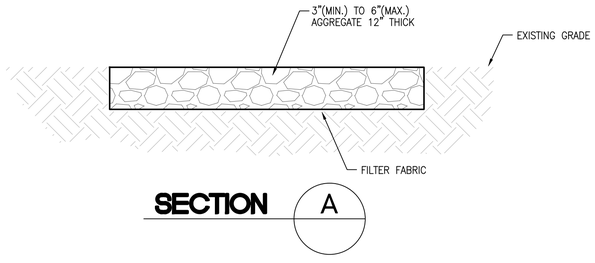
8. CONTRACTORS OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING SEDIMENT IN THE DETENTION POND AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.

9. ON-SITE & OFF SITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE SITE MAP AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.

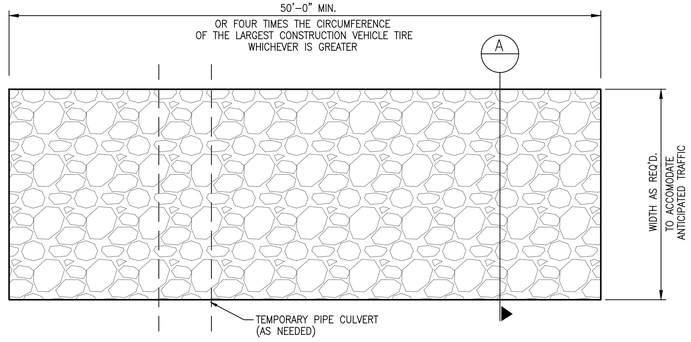
10. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY, THIS INCLUDES BACKFILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION.

TOTAL SITE: 1.04 ACRES (INCLUDES R-0-W)

TOTAL DISTURBED AREA: 1.25 ACRES (INCLUDES R-O-W)



SECTION A



STABILIZED CONSTRUCTION ENTRANCE

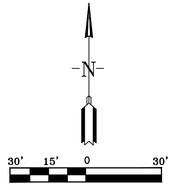
NOT TO SCALE

LEGEND:

500 EXISTING CONTOURS

DIRECTION OF OVERLAND FLOW

SF SILT FENCING



BY	DATE	REVISION

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Ph (501) 408-4650
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MERCHANTS & FARMERS BANK
SOUTH TRACT
DRAINAGE IMPROVEMENTS
BRYANT, AR

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
NO. 9551
VERNON J. WILLIAMS
5-03-2022

CONTENTS:

EROSION CONTROL PLAN

PROJECT NO: 20003

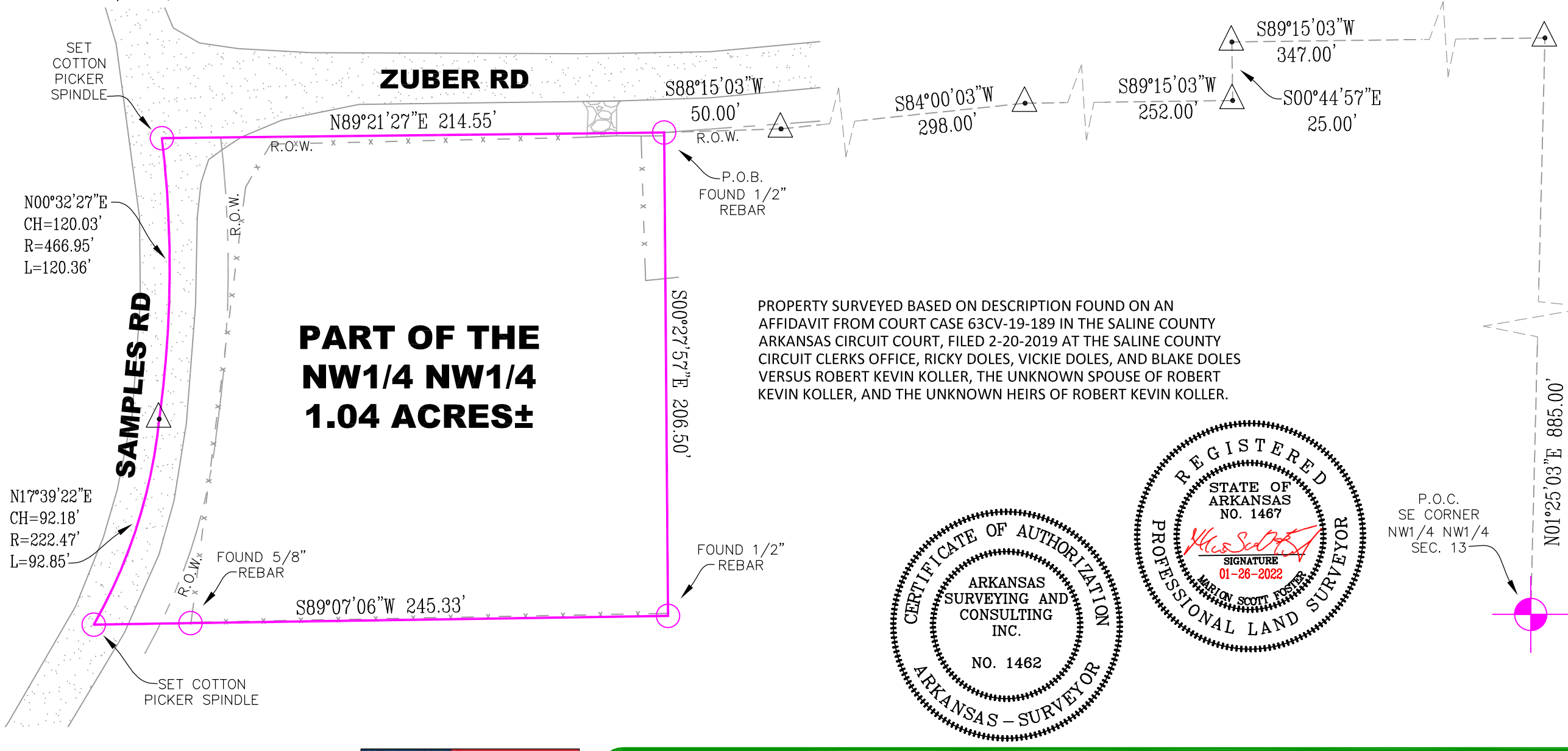
DATE: MAY 2022

SHEET NO: C4.0

J:\Projects\2003 Projects\20003 Merchants and Farmers Bank South Tract Type\Drawings\CAD\Design\20003 Merchants and Farmers Bank South Tract Grading Plan 04-21.dwg

PROPERTY DESCRIPTION FROM SURVEY:

PART OF THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER, SECTION 13, TOWNSHIP 01 SOUTH, RANGE 15 WEST, SALINE COUNTY, ARKANSAS, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS; COMMENCING AT THE SOUTHEAST CORNER OF THE SAID NORTHWEST QUARTER OF THE NORTHWEST QUARTER; THENCE NORTH 01 DEGREE 25 MINUTES 03 SECONDS EAST 885.00 FEET TO A POINT ON THE CENTERLINE OF ZUBER ROAD; THENCE ALONG THE SAID CENTERLINE OF ZUBER ROAD SOUTH 89 DEGREES 15 MINUTES 03 SECONDS WEST 347.00 FEET TO A POINT; THENCE DEPARTING THE SAID CENTERLINE OF ZUBER ROAD SOUTH 00 DEGREES 44 MINUTES 57 SECONDS EAST 25.00 FEET TO THE POINT ON THE SOUTHERN RIGHT OF WAY LINE OF ZUBER ROAD; THENCE ALONG THE SAID SOUTHERN RIGHT OF WAY LINE OF ZUBER ROAD FOR THE FOLLOWING THREE (3) COURSES AND DISTANCES; THENCE SOUTH 89 DEGREES 15 MINUTES 03 SECONDS WEST 252.00 FEET TO A POINT; THENCE SOUTH 84 DEGREES 00 MINUTES 03 SECONDS WEST 298.00 FEET TO A POINT; THENCE SOUTH 88 DEGREES 15 MINUTES 03 SECONDS WEST 50.0 FEET TO A FOUND ONE HALF INCH REBAR AND THE POINT OF BEGINNING; THENCE DEPARTING THE SAID SOUTHERN RIGHT OF WAY LINE SOUTH 00 DEGREES 27 MINUTES 57 SECONDS EAST 206.50 FEET TO FOUND ONE HALF INCH REBAR; THENCE SOUTH 89 DEGREES 07 MINUTES 06 SECONDS WEST 245.33 FEET TO A SET COTTON PICKER SPINDLE IN THE CENTERLINE OF SAMPLES ROAD; THENCE ALONG THE SAID CENTERLINE OF SAMPLES ROAD FOR THE FOLLOWING TWO (2) CHORD BEARINGS AND DISTANCES; THENCE 92.85 FEET ALONG THE ARC OF A 222.47 FOOT RADIUS CURVE TO THE LEFT, HAVING A CHORD BEARING AND DISTANCE OF NORTH 17 DEGREES 39 MINUTES 22 SECONDS EAST 92.18 FEET TO A POINT; THENCE 120.36 FEET ALONG THE ARC OF A 466.95 FOOT RADIUS CURVE TO THE LEFT, HAVING A CHORD BEARING AND DISTANCE OF NORTH 00 DEGREES 32 MINUTES 27 SECONDS EAST 120.03 FEET TO A SET COTTON PICKER SPINDLE AT THE POINT OF INTERSECTION OF THE CENTERLINE OF SAMPLES ROAD AND AN EXTENSION OF THE SOUTHERN RIGHT OF WAY OF ZUBER ROAD; THENCE DEPARTING THE SAID CENTERLINE OF SAMPLES ROAD AND ALONG THE SOUTHERN RIGHT OF WAY OF ZUBER ROAD NORTH 89 DEGREES 21 MINUTES 27 SECONDS EAST 214.55 FEET TO THE POINT OF BEGINNING, CONTAINING 45,356 SQUARE FEET OR 1.04 ACRES MORE.



PROPERTY SURVEYED BASED ON DESCRIPTION FOUND ON AN AFFIDAVIT FROM COURT CASE 63CV-19-189 IN THE SALINE COUNTY ARKANSAS CIRCUIT COURT, FILED 2-20-2019 AT THE SALINE COUNTY CIRCUIT CLERKS OFFICE, RICKY DOLES, VICKIE DOLES, AND BLAKE DOLES VERSUS ROBERT KEVIN KOLLER, THE UNKNOWN SPOUSE OF ROBERT KEVIN KOLLER, AND THE UNKNOWN HEIRS OF ROBERT KEVIN KOLLER.

BASIS OF BEARING:
NAD-83 GRID NORTH
ARSP SOUTH ZONE.

LEGEND

- POWER POLE
- LIGHT POLE
- SIGN
- WATER VALVE
- WATER METER
- SANITARY SEWER MAN-HOLE
- TELEPHONE PEDESTAL
- FIRE HYDRANT
- GAS METER
- DROP INLET GRATE
- HANDICAP PARKING
- COMPUTED POINTS
- CONCRETE — CONC.
- GUY WIRE ANCHOR — G.W.A.
- POINT OF BEGINNING — P.O.B.
- ELEVATION — ELEV.

0 25' 50' 100'
(IN FEET)
SCALE: 1"= 50' FT.

NOTES

SURVEY BEARINGS ARE BASED ON GRID NORTH AR STATE PLANE SOUTH ZONE AS DETERMINED BY GPS

THE BEARINGS SHOWN ON THIS PLAT ARE ASSUMED AND ARE TO BE USED TO DEFINE THE GENERAL DIRECTION AND TRUE ANGLES AT INTERSECTION OF PROPERTY AND LAND LINES.

TRACT IS SUBJECT TO EASEMENTS, RESTRICTIVE COVENANTS, SUBDIVISION RESTRICTIONS, AND PLANNING AND ZONING REGULATIONS OF RECORD, IF ANY, AND IS SUBJECT TO SUCH FACTS AS AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE.

NO STATEMENT IS MADE AS TO THE EXISTENCE OR LOCATION, EXCEPT WHERE SHOWN OF ANY PROPERTY CORNER MONUMENTS.

NO STATEMENT IS MADE CONCERNING SUBSURFACE CONDITIONS.

CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL MEASUREMENTS PRIOR TO BEGINNING CONSTRUCTION. (IF APPLICABLE).

SURVEY VALID ONLY IF PRINT HAS ORIGINAL SEAL AND SIGNATURE OF SURVEYOR IN RED PRESENT ON IT.

UTILITIES NOT FIELD VERIFIED. NO OTHER STATEMENT IS MADE AS TO UTILITY EXISTENCE OR LOCATION.

I CERTIFY THAT THE ABOVE DESCRIBED PROPERTY HAS BEEN SURVEYED, CORNER MONUMENTS HAVE BEEN ESTABLISHED IN ACCORDANCE WITH EXISTING MONUMENTATION IN THE AREA AND IMPROVEMENTS IF ANY ARE AS SHOWN HEREON.

DECLARATION IS MADE TO ORIGINAL PURCHASER OF THE SURVEY. IT IS NOT TRANSFERABLE TO ADDITIONAL INSTITUTIONS OR SUBSEQUENT OWNERS.

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CERTIFICATE OF AUTHORIZATION
ARKANSAS SURVEYING AND CONSULTING INC.
NO. 1462
ARKANSAS – SURVEYOR

REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF ARKANSAS
NO. 1467
SIGNATURE
01-26-2022
MARION SCOTT FOSTER

DATE: 01-26-2022
SCALE: 1"= 50'
DRAWN BY: KVS/SAF
CHECKED BY: MSF
FILE NAME: CONGO AVILLA AREA COMPOSITE

ARKANSAS SURVEYING & CONSULTING
1926 SALEM ROAD
BENTON, ARKANSAS 72019
TELE. OFFICE (501) 794-4500
HOLLY GROVE ARKANSAS, 72069
WEB SITE: ascsurveyors.com TELE OFFICE (870) 462-0844

VICKI DOLES
SAMPLES ROAD, BENTON, AR
PROPERTY SURVEY
500-01S-15W-0-13-440-62-1467

Land Projects 2004\CONGO AVILLA AREA\dwg/CONGO AVILLA AREA COMPOSITE.dwg

Key Name	LOCATION	TYPE	MANUFACTURER	PRODUCT INFORMATION	FINISH	NOTES
FLOOR FINISH						
E	TUNNEL	EPOXY FLOORING	TUFCO	REFER TO SPECIFICATIONS		
SC	EQUIPMENT ROOM, OFFICE, TOILET	SEALED CONCRETE		REFER TO SPECIFICATIONS		
FLOOR BASE						
B-1	OFFICE, TOILET	RESILIENT BASE	EQUAL TO JOHNSONITE	4" COVE RUBBER BASE		
E	TUNNEL	EPOXY BASE	TUFCO	REFER TO SPECIFICATIONS		CONTINUE EPOXY COATING UP WALL TO COVER FIRST FULLY EXPOSED ROW OF CMU
WALL FINISH						
EP-1	EXPOSED STEEL	EPOXY PAINT	EQUAL TO SHERWIN WILLIAMS	REFER TO SPECIFICATIONS		
EXT	TUNNEL	EXTRUTECH PANEL	EXTRUTECH PLASTICS	REFER TO SPECIFICATIONS		
P-1	OFFICE, TOILET, EQUIPMENT ROOM, POS CANOPY	PAINT	EQUAL TO SHERWIN WILLIAMS	REFER TO SPECIFICATIONS		
CEILING FINISH						
EXT	TUNNEL	EXTRUTECH PANEL	EXTRUTECH PLASTICS	REFER TO SPECIFICATIONS		
P-2	EQUIPMENT ROOM	PAINT	EQUAL TO SHERWIN WILLIAMS	REFER TO SPECIFICATIONS		
SAT-1	OFFICE, TOILET	ACOUSTICAL CEILING TILE		REFER TO SPECIFICATIONS		
SURFACE FINISH						
L-1	OFFICE COUNTER	LAMINATE	FORMICA	6314-AN, NEO CLOUD, INFINITY FINISH		
L-2	OFFICE CABINET	LAMINATE	FORMICA	8848-58, BLACKENED LEGNO, MATTE FINISH		

TOILET ACCESSORY SCHEDULE

Type Mark	DESCRIPTION	MANU. & MODEL #	Model
18GB	18" Grab Bar	Bobrick Washroom Equipment, Inc.	B-6806x18
36GB	36" Grab Bar	Bobrick Washroom Equipment, Inc.	B-6806x36
42GB	42" Grab Bar	Bobrick Washroom Equipment, Inc.	B-6806x42
M	Welded Frame Mirror	Bobrick Washroom Equipment, Inc.	B-290 2436
PTD1	Contura Series Surface Mounted Paper Towel Dispenser	Bobrick Washroom Equipment, Inc.	B-4262
TPD	Surface-Mounted Toilet Tissue Dispenser and Utility Shelf	Bobrick Washroom Equipment, Inc.	B-2840

FINISH SCHEDULE LEGEND

LEGEND KEY

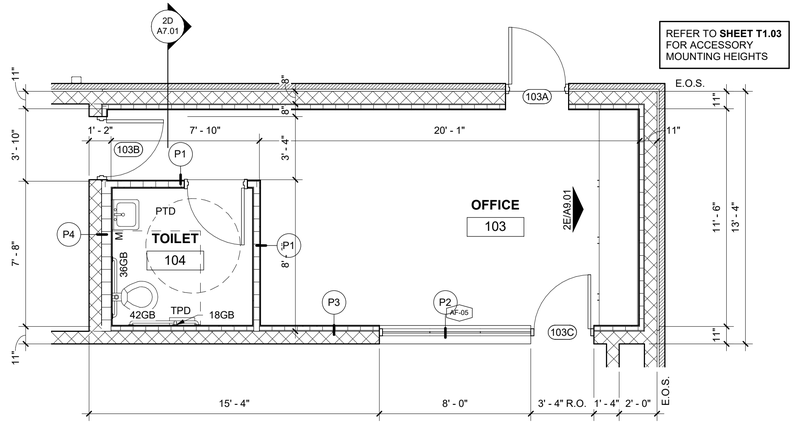
- XXX — INDICATES OVERALL FLOOR TREATMENT
- XXX — INDICATES OVERALL BASE TREATMENT
- XXX — INDICATES OVERALL WALL TREATMENT
- XXX — INDICATES OVERALL CEILING TREATMENT
- (X) — INDICATES ACCENT TREATMENT
- INDICATES COUNTERTOP TREATMENT
- (XX/XX) — INDICATES CASEWORK TREATMENT

MATERIAL CODES

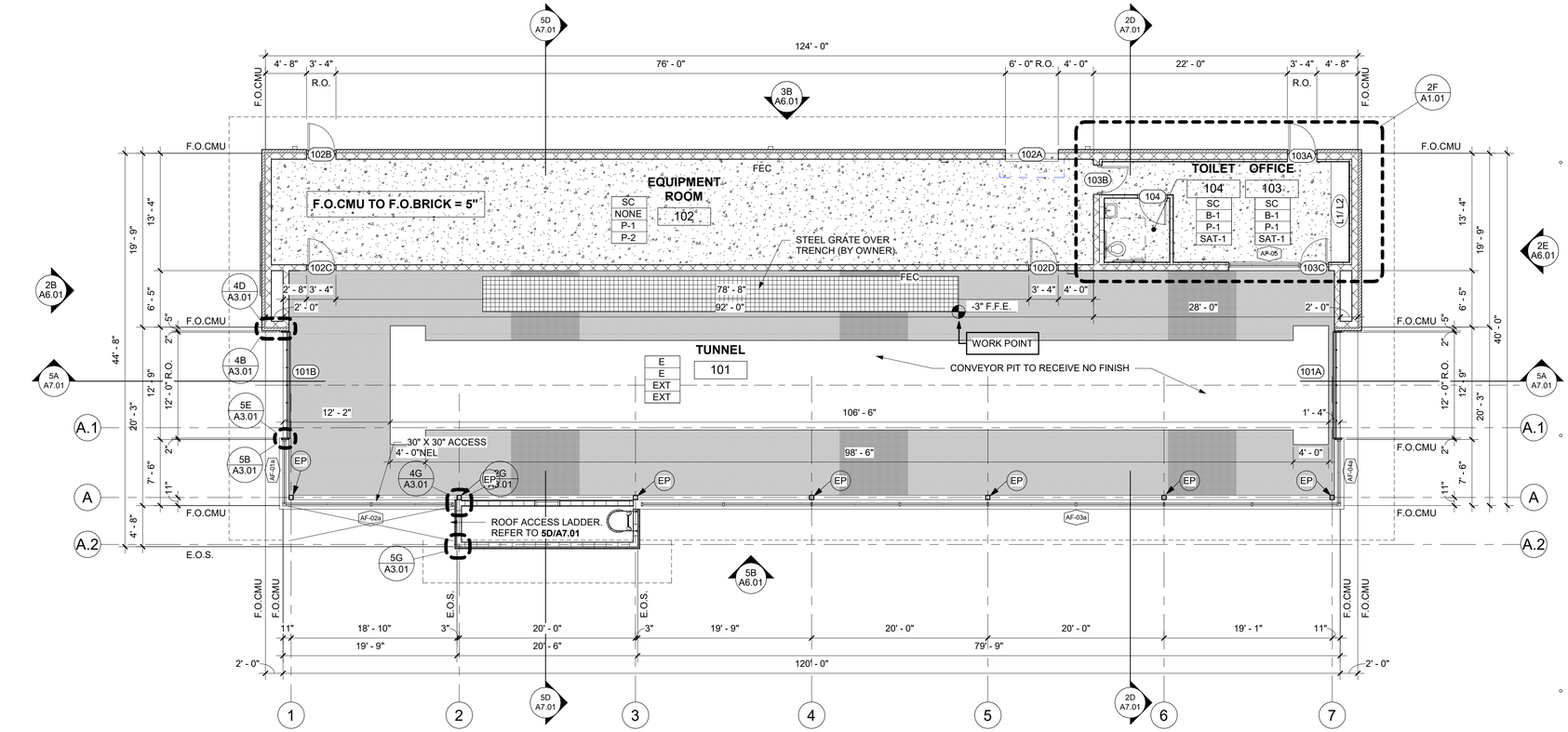
A	ACOUSTICAL TILE	EXT	EXTRUTECH
B	BASE	L	LAMINATE
E	EPOXY FLOORING	P	PAINT
EP	EPOXY PAINT	SC	SEALED CONCRETE

FLOOR FINISH LEGEND

- EPOXY FLOORING
- SEALED CONCRETE
- STEEL GRATE (BY OWNER)



2F ENLARGED OFFICE PLAN
1/4" = 1'-0"



5C FLOOR PLAN
1/8" = 1'-0"

0 2' 4' 8' 16' 24'

SCALE AT FULL SIZE: 1/8" = 1'-0"

NORTH

SCM
ARCHITECTS P.L.L.C.
1400 Kirk Road, Suite 220
Little Rock, Arkansas 72223
(501) 224-3055 FAX: (479)-966-4777
www.scmarchitects.com

EXPRESS TUNNEL SPLASH CARWASH

REYNOLDS RD.
BRYANT, ARKANSAS 72022

REVISIONS:

PROJECT NO.
21129
DATE:
APRIL 22, 2022

FLOOR PLAN

A1.01

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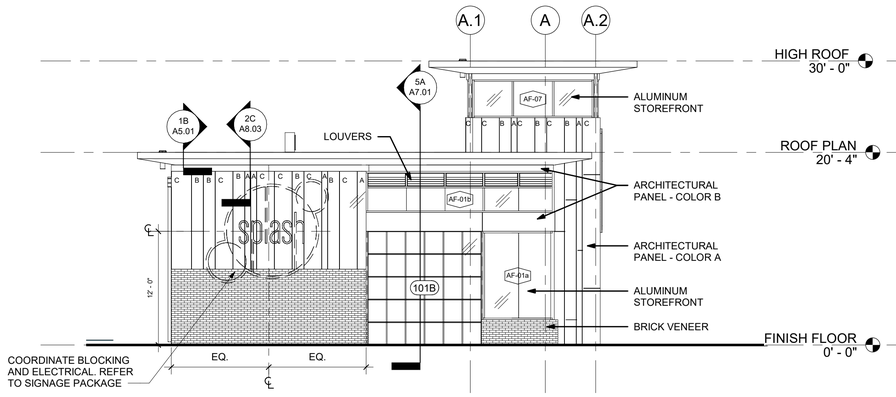
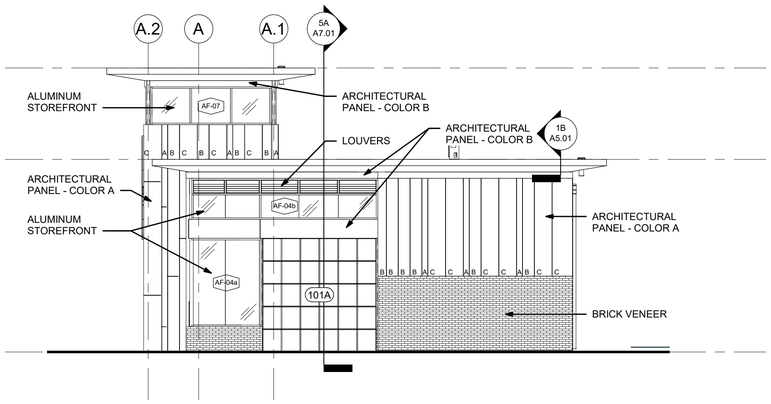
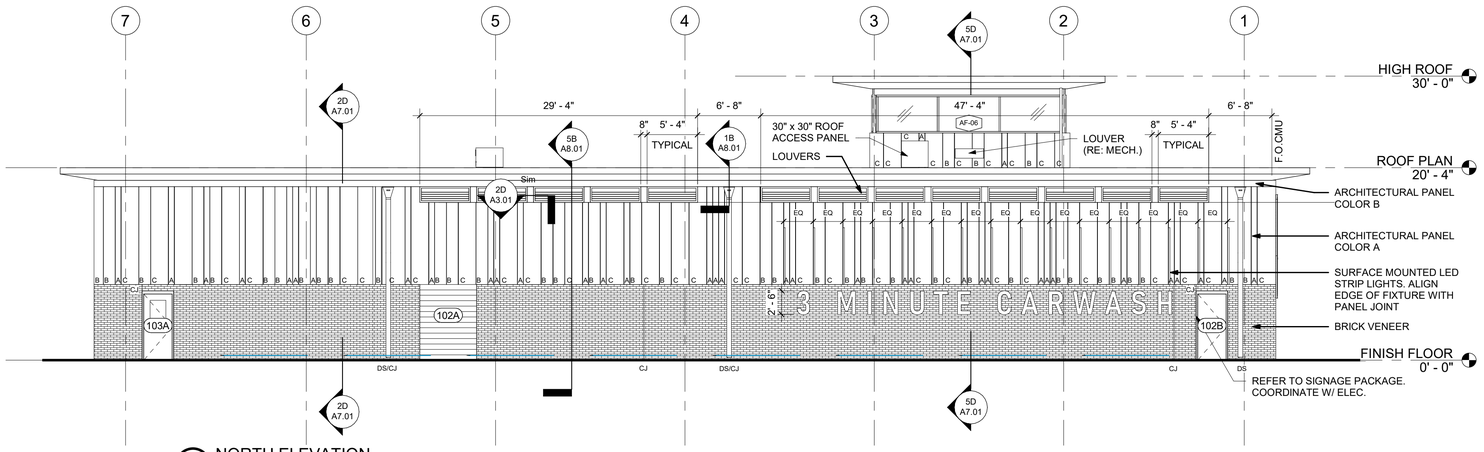


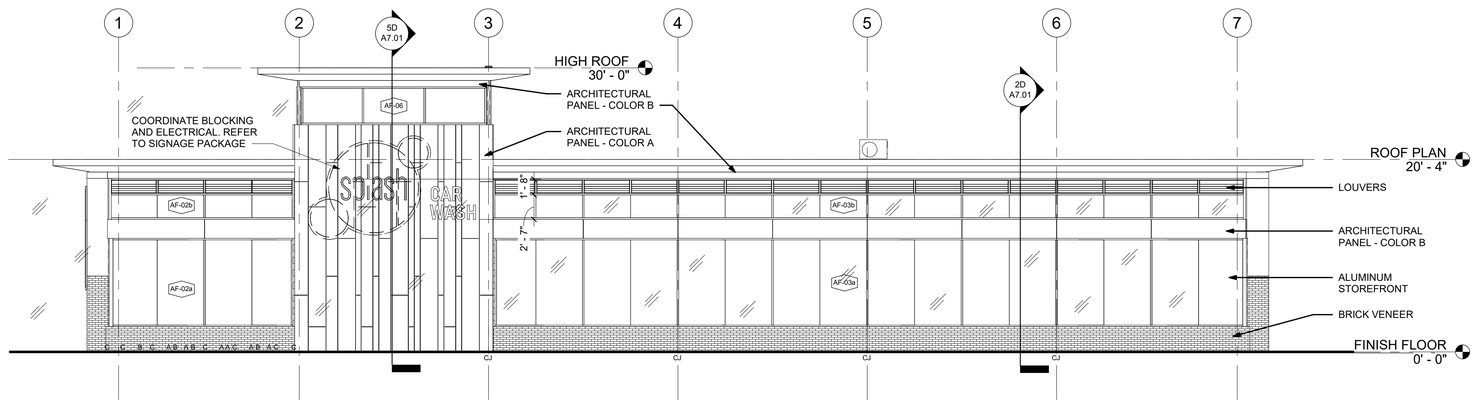
2B EAST ELEVATION
1/8" = 1'-0"



2E WEST ELEVATION
1/8" = 1'-0"



3B NORTH ELEVATION
1/8" = 1'-0"



5B SOUTH ELEVATION
1/8" = 1'-0"

ARCHITECTURAL PANEL TYPES	
PANEL TYPE "A":	7 1/2" WIDE
PANEL TYPE "B":	15" WIDE
PANEL TYPE "C":	22 1/2" WIDE

REFER ALSO TO PROJECT TECHNICAL SPECIFICATIONS

SCM
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Little Rock, Arkansas 72223
(501) 224-3055 FAX: (479)-966-4777
www.scmarchitects.com

EXPRESS TUNNEL SPLASH CARWASH

REYNOLDS RD.
BRYANT, ARKANSAS 72022

REVISIONS:

PROJECT NO.
21129
DATE:
APRIL 22, 2022

BUILDING ELEVATIONS

A6.01

SCM ARCHITECTS P.L.L.C.
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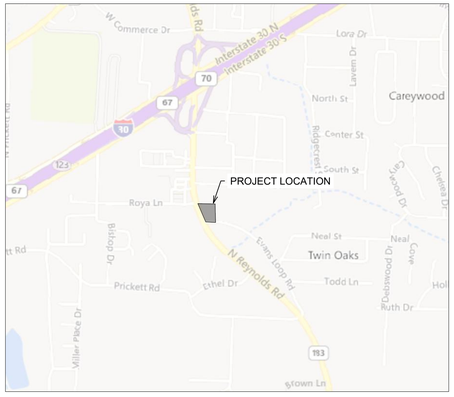
SPLASH CARWASH

BRYANT, ARKANSAS
REYNOLDS ROAD
MAY, 2022



VICINITY MAP

SCALE 1" = 1000'

SHEET INDEX	
SH. NO.	SHEET TITLE
00	COVER SHEET
G-1	EXISTING SITE SURVEY
C-1.0	SITE PLAN
C-1.1	UTILITY PLAN
C-1.3	GRADING PLAN
C-1.4	SITE DETAILS
C1.5	WATER & SEWER DETAILS
C-1.6	LANDSCAPE PLAN
C-1.7	STORM WATER POLLUTION PREVENTION PLAN
C-1.8	EROSION CONTROL DETAILS I
C-1.9	EROSION CONTROL DETAILS II

PROPERTY SPECIFICATIONS

OWNER: COLLIERS INTERNATIONAL
ATTN: BRADFORD GAINES
1 ALLIED DRIVE, STE 1500
LITTLE ROCK, AR 72202

DEVELOPER/SUBDIVIDER: COLLIERS INTERNATIONAL
ATTN: BRADFORD GAINES
1 ALLIED DRIVE, STE 1500
LITTLE ROCK, AR 72202
(501)-372-6161

ENGINEERS: PHILLIP LEWIS ENGINEERING, INC.
23620 INTERSTATE-30
BRYANT, ARKANSAS 72022
(501)-350-9840

ZONING CLASSIFICATION: C-2

DEVELOPMENT SPECIFICATIONS

BUILDING = 4,996 SQ. FT. (10.5% OF TOTAL PROPERTY AREA)
PAVING = 22,400 SQ. FT. (47.1% OF TOTAL PROPERTY AREA)
LANDSCAPE = 9,891 SQ. FT. (20.8% OF DEVELOPED AREA)

FLOOD ZONE INFORMATION

FIRM PANEL NO: 05125 C 0380E
EFFECTIVE DATE: 6/05/2020.
THE PROPERTY IS NOT LOCATED WITHIN THE 100 YEAR FLOOD PLAIN NO BASE FLOOD ELEVATION IS DETERMINED FOR ZONE X OR ZONE A

SITE NOTES

1. THE INFORMATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THIS SURVEY IS BASED ON RECORDS OF EXISTING UTILITY COMPANIES AND WHERE POSSIBLE, MEASUREMENTS WERE TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS IN ADVANCE BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES.
2. BASIS OF BEARINGS: ARKANSAS STATE PLANE, NORTH ZONE .

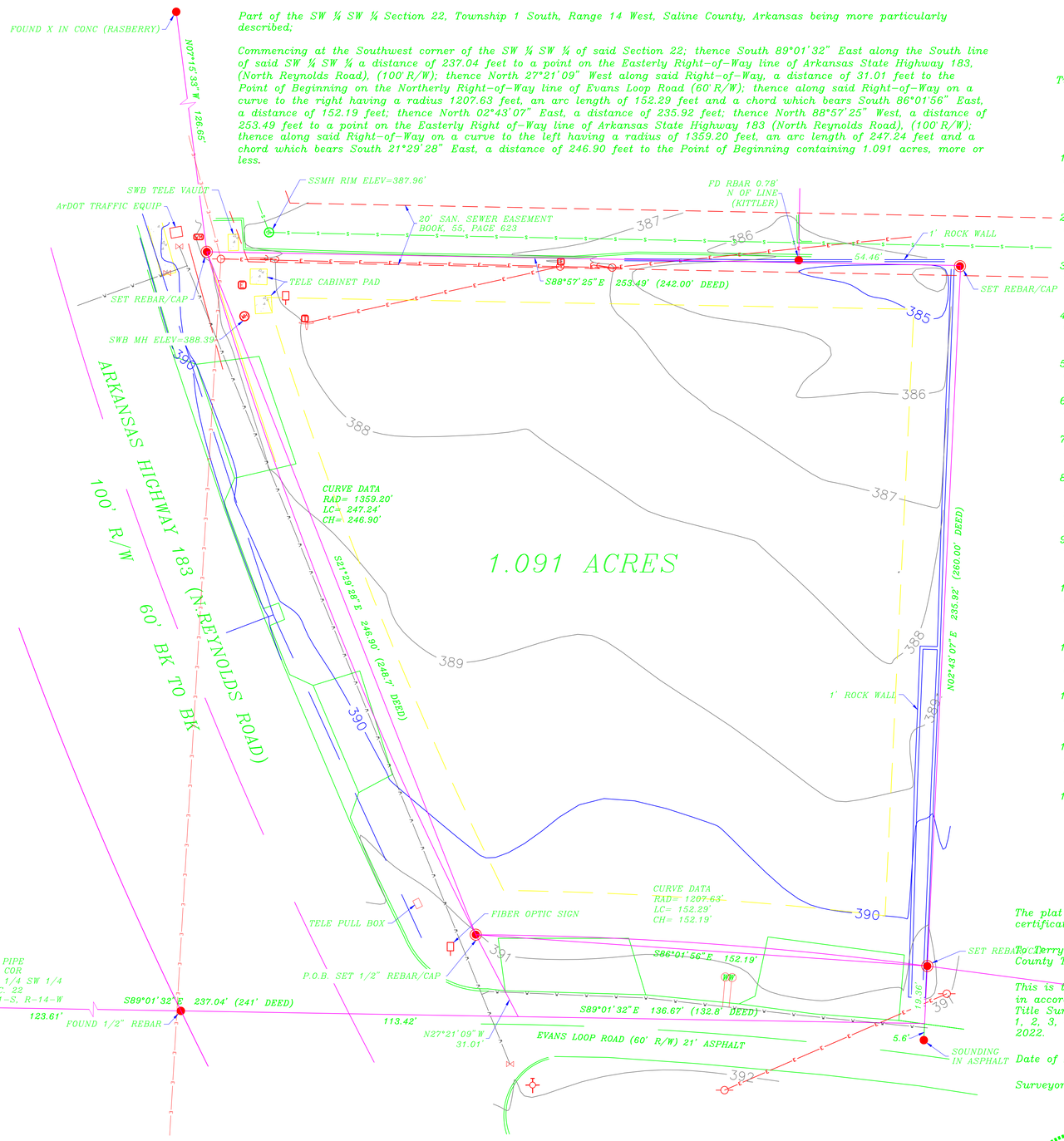
PHILLIP LEWIS ENGINEERING
Structural + Civil Consultants

Know what's **below.**
Call before you dig.

Legal Description

Part of the SW ¼ SW ¼ Section 22, Township 1 South, Range 14 West, Saline County, Arkansas being more particularly described;

Commencing at the Southwest corner of the SW ¼ SW ¼ of said Section 22; thence South 89°01'32" East along the South line of said SW ¼ SW ¼ a distance of 237.04 feet to a point on the Easterly Right-of-Way line of Arkansas State Highway 183, (North Reynolds Road), (100' R/W); thence North 27°21'09" West along said Right-of-Way, a distance of 31.01 feet to the Point of Beginning on the Northerly Right-of-Way line of Evans Loop Road (60' R/W); thence along said Right-of-Way on a curve to the right having a radius 1207.63 feet, an arc length of 152.29 feet and a chord which bears South 86°01'56" East, a distance of 152.19 feet; thence North 02°43'07" East, a distance of 235.92 feet; thence North 88°57'25" West, a distance of 253.49 feet to a point on the Easterly Right of-Way line of Arkansas State Highway 183 (North Reynolds Road), (100'R/W); thence along said Right-of-Way on a curve to the left having a radius of 1359.20 feet, an arc length of 247.24 feet and a chord which bears South 21°29'28" East, a distance of 246.90 feet to the Point of Beginning containing 1.091 acres, more or less.



CHICAGO TITLE INSURANCE COMPANY

COMMITMENT NO.22-0041240

Commitment Date: February 1, 2022 AT 06:00 am

Title to the Fee Simple estate or interest: 021618 FAMILY LAND TRUST, LLC

Schedule B-II

1. Any defect, lien, encumbrance, adverse claim, or other matter that appears for the first time in the Public Record or is crested, attaches or is disclosed between the Commitment Date and the date on which all of Schedule B, Part 1 Requirements are met. NOT SURVEY RELATED.

2. Any discrepancies or conflicts in boundary lines, any shortages in areas or any encroachment or overlapping of improvements. MULTIPLE DISCREPANCIES BETWEEN DEED AND SURVEY.

3. Any facts, rights interests or claims which are not shown by the public record, but which could be ascertained by an accurate survey of the land or by making inquiry of person of possession thereof. 30'R/W ON EVANS LOOP ROAD.

4. Easements, liens or encumbrances or claims thereof, which are not shown by the public record. PART OF A 20' SAN. SEWER EASEMENT ALONG THE NORTH LINE.

5. Any lien or right of lien, for services, labor of material imposed by law and not shown by the public record. NOT SURVEY RELATED.

6. Rights or claims of parties in possession of all or any part of the described premises, not shown by the public record. 30'R/W OF EVANS LOOP ROAD.

7. Rights of tenants in possession and under unrecorded leases. NOT SURVEY RELATER.

8. (a) unpatented mining claims; (b) reservations or exceptions in patents or in acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a). (b), or (c) are shown by the public records. NOT SURVEY RELATER.

9. The lien of all taxes for the year 2022 and thereafter not yet due and payable plus any penalties, costs and interest which may accrue. NOT SURVEY RELATER.

10. Losses arising from any oil, gas, or mineral interest, conveyed, retained, assigned or any activity on or damage to the insured land or caused by the exercise of the sub-surface rights or ownership, including but not limited to the right of ingress and egress for said sub-surface purpose. NOT SURVEY RELATER.

11. The exact quantity of land or number of acres or square feet contained within the property described herein is not insured. Any statement of acreage or quantity of land is shown for identification purposed only. ACREAGE AS SHOWN.

12. The rights of the public and others entitled thereto in and to the use of that portion of subject property comprising any road, street, alley, highway or other public right-of-way. 30'R/W OF EVANS LOOP ROAD.

13. (Note: item number 1 under Schedule B, Part II Exceptions, can't be removed from this commitment but will not be shown on the final policy.) NOT SURVEY RELATER.

14. Final owner's policy to Include ALTA 8.1 and 35 endorsements. NOT SURVEY RELATER.

Certification

The plat or map of an ALTA/NSPS Land Title Survey shall bear only the following certification, unaltered, except as may be required pursuant to Section 3.B. above:

To Derrywood INC., 021618 Family Land Trust, LLC, Chicago Title Company, Pulaski County Title LLC, Colliers Arkansas:

This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2016 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes Items 1, 2, 3, 4, 5, 8, 11, of Table A thereof. The fieldwork was completed on February 19, 2022.

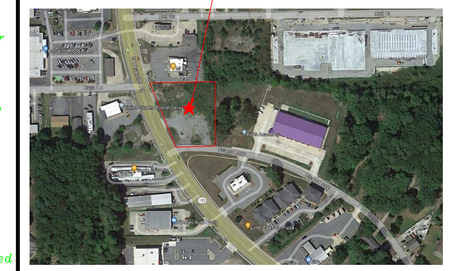
Date of Plat or Map: February 28, 2022.

Surveyor's signature_____ AR No. 1348

CERTIFICATE OF AUTHORIZATION JOHNSTON SURVEYING LLC No. 2542 ARKANSAS SURVEYOR

REGISTERED STATE OF ARKANSAS NO. 1348 PROFESSIONAL LAND SURVEYOR

500-01S-14W-0-22-30-62-1348



VICINITY MAP

LEGEND

- Right of Way Monument
- Control Points
- Set Iron Pin
- Found Monument
- Gas Regulator
- Gas Riser
- Gas Meter
- Clean Out
- Sanitary Sewer Manhole
- Telephone Pedestal
- Electric Meter
- Electric Box
- Power Pole
- Guy Wire Anchor
- Light Pole
- Center Line
- Flag Pole
- Fire Hydrant
- Water Hydrant
- Down Spout
- Water Meter
- Water Valve
- Metal Drainage Grate
- Gate Post
- Ground Light
- Sign
- Junction Box
- Handicap Parking
- Manhole
- Bollard
- Mailbox
- RPZ Valve
- Tree
- Vault
- Air Conditioner
- Flow Direction
- Flared End Section
- T — Telephone Line
- S — Sanitary Sewer Main
- E — Electric Line
- G — Underground Gas
- W — Waterline
- X — Fence
- F — Fiber Optic
- Treeline
- Concrete

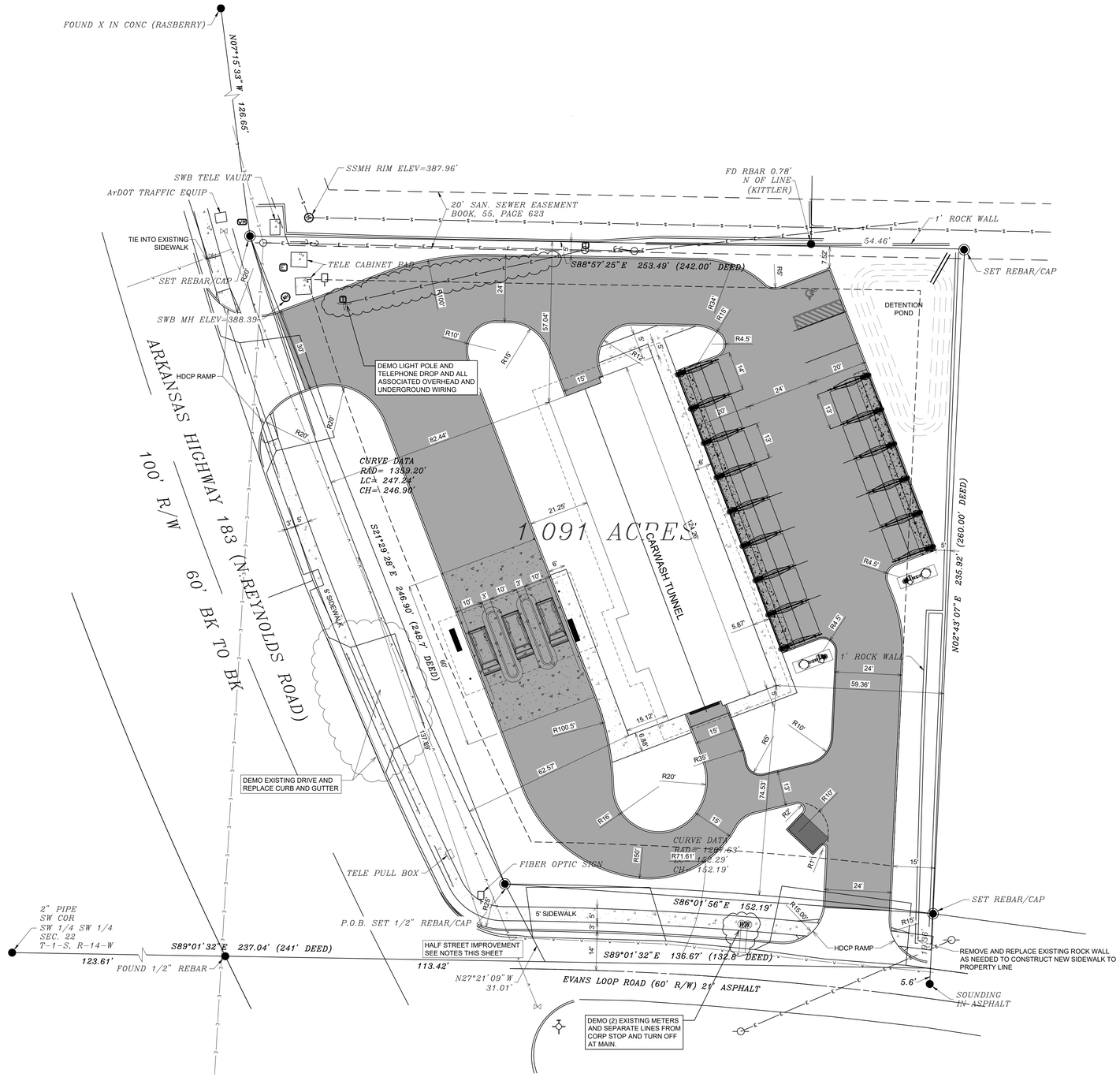
Flood Information
This property lies within Zone X according to Federal Flood Insurance Rate Map Community Panel No. 05125C0380E, effective June 5, 2020.

Note:
All utilities shown per visible field evidence, lines marked on the ground, or verbal communication from onsite utility personnel. Surveyor is not responsible for existing underground utilities that are incorrectly located, omitted from or added to this plat.

JOHNSTON SURVEYING, INC
37027 HWY 300
ROLAND, AR 72135
501-837-5643
MJohnstonsurveying@gmail.com

021618 FAMILY TRUST, LLC	
SW 1/4 SW 1/4 SEC 22	
T-1-S, R, R-14-W	
JOB NO. 696	
DATE: 2/28/2022	
SCALE: 1:30	
DRAWN BY: H. GRAFTENREED	
CHECKED BY: M. JOHNSTON	
FILE NAME: N Reynolds Road	

Z:\Splash Investment Group\Splash Carwash - Bryant\Survey\Documents\N Reynolds Road.dwg



SITE PLAN

SCALE 1" = 20'

GENERAL CONSTRUCTION NOTES

A. THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR DAMAGES OCCURRING TO ANY PROPERTY DURING THE CONSTRUCTION OF THIS PROJECT. SAID CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT PROPERTY DAMAGE.

B. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL SOLELY AND COMPLETELY BE RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND WILL NOT BE LIMITED TO NORMAL WORKING HOURS.

THE DUTY OF BRYANT TO CONDUCT CONSTRUCTION INSPECTION REVIEWS OF THE CONTRACTOR'S PERFORMANCE IS NOT AN INSPECTION OR REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.

C. ALL WATER AND SEWER IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST REVISION TO THE CITY OF BRYANT'S WATER AND WASTEWATER (SANITARY SEWER) STANDARD SPECIFICATIONS.

D. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF ALL UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLAN.

E. CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH, AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION OPERATIONS. DISPOSAL WILL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND/OR FEDERAL REGULATIONS GOVERNING SUCH OPERATIONS.

F. PRIOR TO INSTALLATION OF ANY UTILITIES, THE CONTRACTOR IS TO EXCAVATE, VERIFY AND CALCULATE ALL CROSSINGS AND INFORM ANY AND ALL UTILITIES OF ANY CONFLICTS PRIOR TO CONSTRUCTION.

G. CONSTRUCTION SHALL NOT START ON ANY WATER UTILITY TIE-INS UNTIL APPROVAL IS GIVEN BY BRYANT WATER. SAID CONTRACTOR SHALL NOT OPERATE ANY VALVE, HYDRANT, OR WATER UTILITY APPURTENANCE NOR SHALL HE ATTACH TO OR TAP ANY WATER UTILITY MAIN WITHOUT APPROVAL. THE CONTRACTOR SHALL BEAR THE COST AND CONSEQUENCE OF ANY DISRUPTION OF UTILITY OPERATION CAUSED BY CONSTRUCTION.

H. FIBER OPTIC CABLE ON AND/OR ADJACENT TO THIS SITE WERE NOT LOCATED BY THE SURVEY AND ARE NOT SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ANY FIBER OPTIC CABLES ASSOCIATED WITH THIS SITE AND TAKE ALL NECESSARY AND REQUIRED PRECAUTIONS TO PROTECT ANY EXISTING FIBER OPTIC CABLES. CONTRACTORS SHALL COORDINATE ALL EFFORTS WITH OWNER OF FIBER OPTIC CABLES OR THEIR DESIGNATED REPRESENTATIVE.

J. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING "ONECALL" SERVICE TO MARK ALL UTILITIES PRIOR TO ANY DEMOLITION, EARTHWORK, OR UTILITY WORK ON THIS SITE.

HALF STREET IMPROVEMENT NOTES:
1. EVANS LOOP IS CURRENTLY IMPROVED TO THE EAST 28' BC-BC WITH 60' R/W.
2. EXISTING PAVING ALONG PROPERTY LINE IS 11' CL TO EDGE OF PAVING.
3. CONTRACTOR SHALL INSTALL CURB AND GUTTER TO THE DIMENSION OF 14' FROM CL TO BACK OF CURB.
4. EXISTING LANE SLOPE SHALL BE TAKEN FROM CL EXISTING ROAD THROUGH A POINT 8' NORTH OF EXISTING CL TO DETERMINE EXISTING CROSS SLOPE TO MATCH.
5. ASPHALT PAVEMENT AND GUTTER SHALL MATCH EXISTING ROAD CROSS SLOPE AND GRADE TO DRAIN TO STORM BOX ON REYNOLDS ROAD AS CURRENTLY SLOPING.

PHILLIP LEWIS ENGINEERING, INC.
Structural + Civil Consultants
23620 Interstate 30 | Bryant, Arkansas
PH: 501-350-9840

REVISION:

SPLASH CARWASH
BRYANT, ARKANSAS

PROJECT NUMBER:

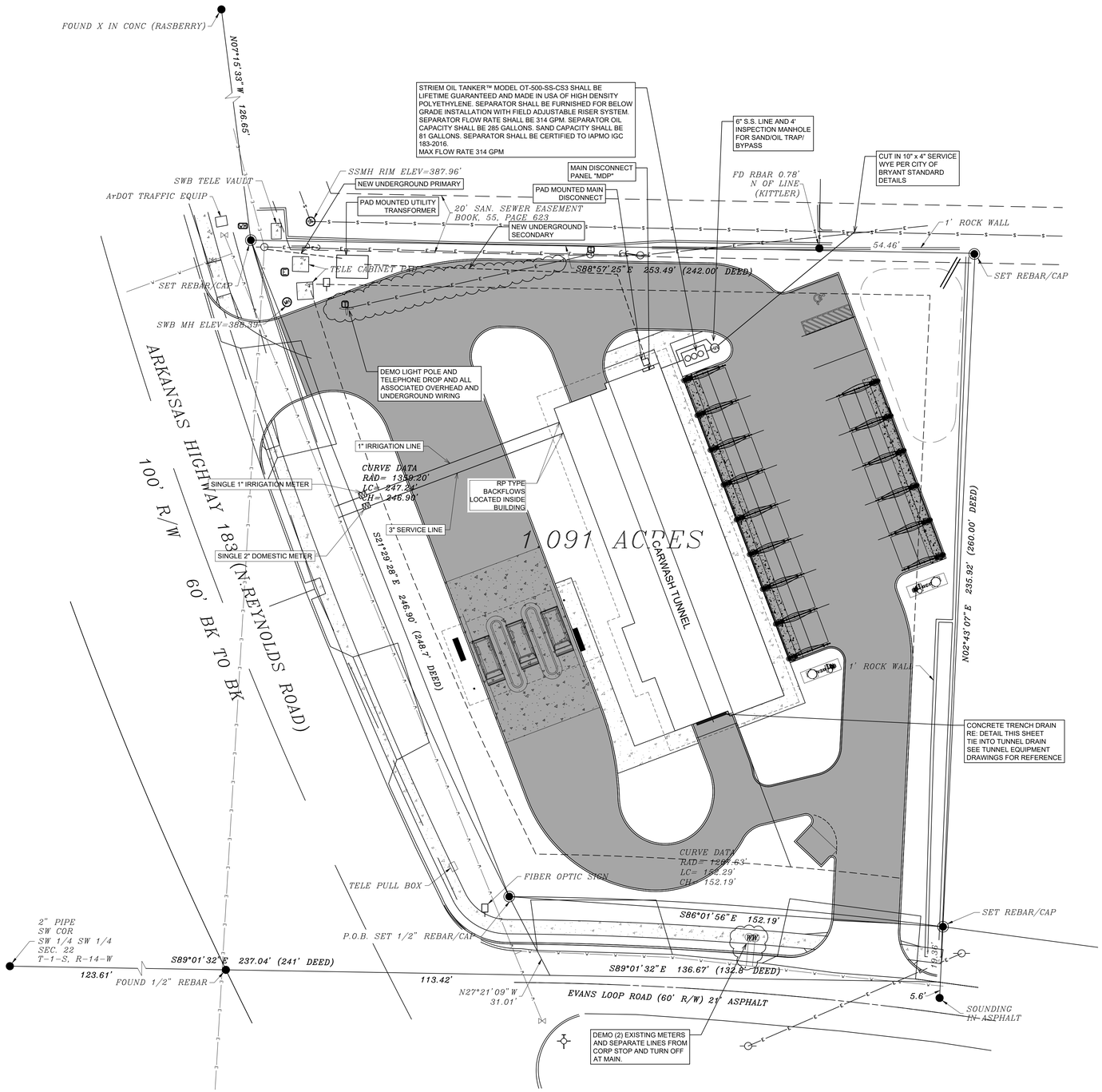
SHEET ISSUE DATE:
5/11/2022

PAGE TITLE:
SITE PLAN

SHEET NUMBER:
C-1.0

N

0 20'
1" = 20'-0"



UTILITY PLAN

SCALE 1" = 20'

ALL UTILITY WORK SHALL BE PERFORMED ACCORDING TO BRYANT STANDARD UTILITY DETAILS AND SPECIFICATIONS

GENERAL CONSTRUCTION NOTES

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PHILLIP LEWIS ENGINEERING, INC.
Structural + Civil Consultants
23620 Interstate 30 | Bryant, Arkansas
PH: 501-350-9840

REVISION:

SPLASH CARWASH
BRYANT, ARKANSAS

PROJECT NUMBER:

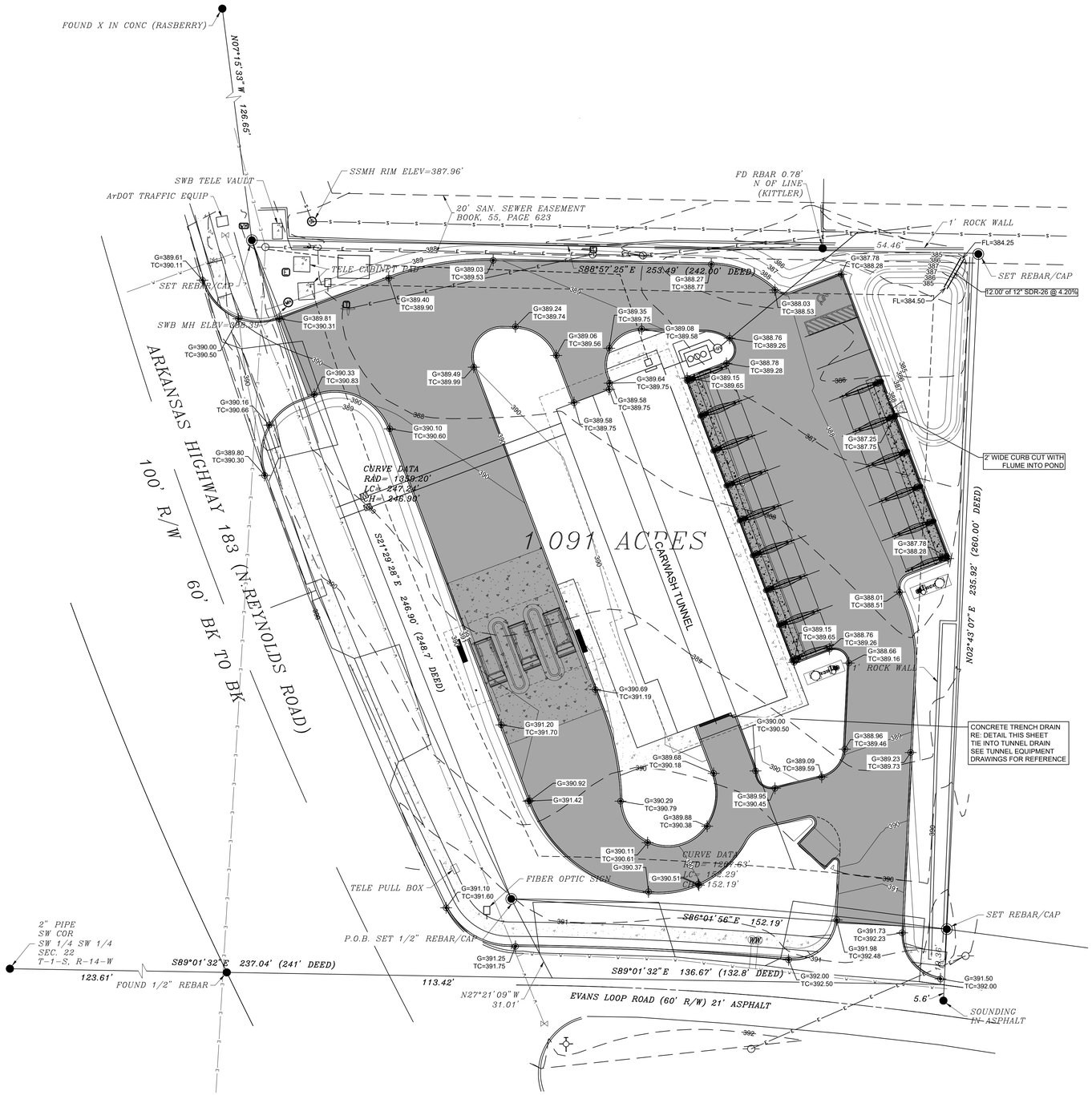
SHEET ISSUE DATE:
5/11/2022

PAGE TITLE:
UTILITY PLAN

SHEET NUMBER:
C-1.1

N

0 20'
1" = 20'-0"



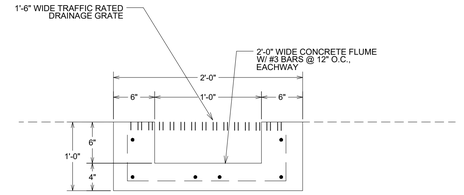
SITE GRADING PLAN

SCALE 1" = 20'

G = GUTTER ELEVATION
TC = TOP OF CURB ELEVATION

CONCRETE TRENCH DETAIL

NOT TO SCALE



GENERAL CONSTRUCTION NOTES

A. THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR DAMAGES OCCURRING TO ANY PROPERTY DURING THE CONSTRUCTION OF THIS PROJECT. SAID CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT PROPERTY DAMAGE.

B. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL SOLELY AND COMPLETELY BE RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND WILL NOT BE LIMITED TO NORMAL WORKING HOURS.

THE DUTY OF BRYANT TO CONDUCT CONSTRUCTION INSPECTION REVIEWS OF THE CONTRACTOR'S PERFORMANCE IS NOT AN INSPECTION OR REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.

C. ALL WATER AND SEWER IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST REVISION TO THE CITY OF BRYANT'S WATER AND WASTEWATER (SANITARY SEWER) STANDARD SPECIFICATIONS.

D. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF ALL UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLAN.

E. CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH, AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION OPERATIONS. DISPOSAL WILL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND/OR FEDERAL REGULATIONS GOVERNING SUCH OPERATIONS.

F. PRIOR TO INSTALLATION OF ANY UTILITIES, THE CONTRACTOR IS TO EXCAVATE, VERIFY AND CALCULATE ALL CROSSINGS AND INFORM ANY AND ALL UTILITIES OF ANY CONFLICTS PRIOR TO CONSTRUCTION.

G. CONSTRUCTION SHALL NOT START ON ANY WATER UTILITY TIE-INS UNTIL APPROVAL IS GIVEN BY BRYANT WATER. SAID CONTRACTOR SHALL NOT OPERATE ANY VALVE, HYDRANT, OR WATER UTILITY APPURTENANCE NOR SHALL HE ATTACH TO OR TAP ANY WATER UTILITY MAIN WITHOUT APPROVAL. THE CONTRACTOR SHALL BEAR THE COST AND CONSEQUENCE OF ANY DISRUPTION OF UTILITY OPERATION CAUSED BY CONSTRUCTION.

H. FIBER OPTIC CABLE ON AND/OR ADJACENT TO THIS SITE WERE NOT LOCATED BY THE SURVEY AND ARE NOT SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ANY FIBER OPTIC CABLES ASSOCIATED WITH THIS SITE AND TAKE ALL NECESSARY AND REQUIRED PRECAUTIONS TO PROTECT ANY EXISTING FIBER OPTIC CABLES. CONTRACTORS SHALL COORDINATE ALL EFFORTS WITH OWNER OF FIBER OPTIC CABLES OR THEIR DESIGNATED REPRESENTATIVE.

J. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING "ONECALL" SERVICE TO MARK ALL UTILITIES PRIOR TO ANY DEMOLITION, EARTHWORK, OR UTILITY WORK ON THIS SITE.

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GRADING PLAN

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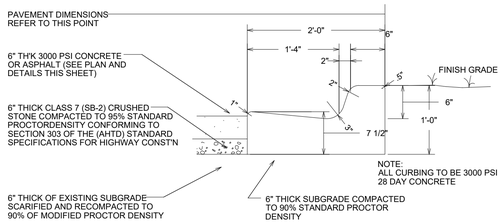
C-1.3

N

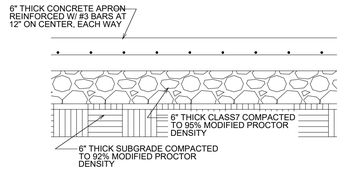
0 20'

1" = 20'-0"



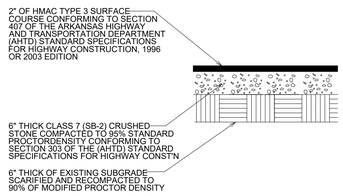
2'-0" CONCRETE CURB & GUTTER

NOT TO SCALE



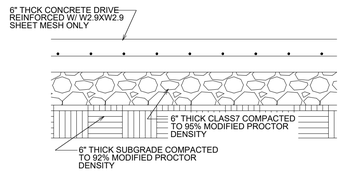
CONCRETE APRON SECTION

NOT TO SCALE



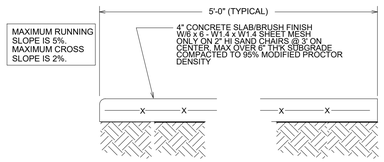
HMAC ASPHALT SURFACE COURSE

NOT TO SCALE



CONCRETE DRIVE SECTION

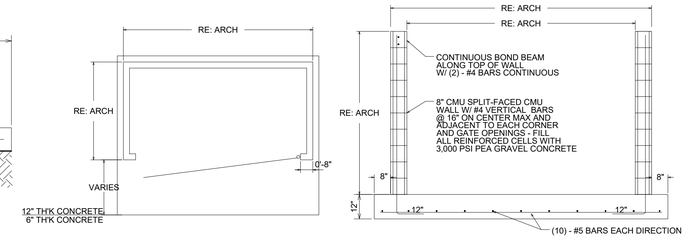
NOT TO SCALE



CONCRETE WALK SECTION

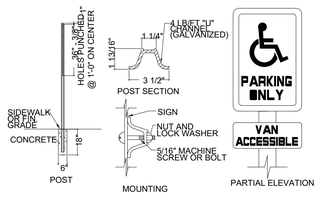
NOT TO SCALE

NOTE:
ALL SIDEWALK JOINTS TO BE STEEL TROWELED. ALL JOINT EDGES AND SHALL BE SPACED AT 5 FEET ON CENTER MAXIMUM IN ALL DIRECTIONS AND SHALLBE STEEL TROWELED ON A RADIUS NOT TO EXCEED ONE-HALF INCH.



DUMPSTER PAD/ENCLOSURE DETAIL

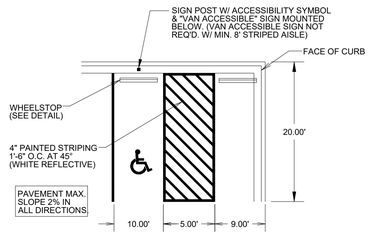
NOT TO SCALE



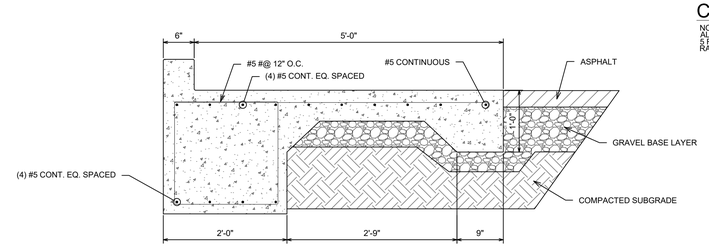
HANDICAP SIGN DETAIL

NOT TO SCALE

NOTE:
HANDICAP SIGNAGE SHALL BE IN STRICT COMPLIANCE WITH CURRENT FEDERAL AND LOCAL LAW REQUIREMENTS

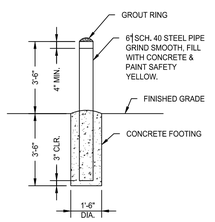


TYPICAL ACCESSIBLE PARKING STALLS



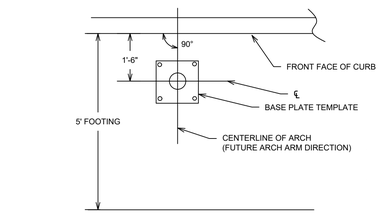
CONCRETE VACCUM FOOTING DETAIL

NOT TO SCALE



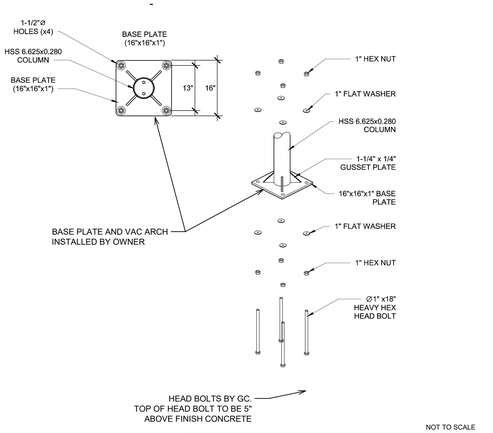
BOLLARD DETAIL

NOT TO SCALE



BASEPLATE TEMPLATE ORIENTATION DETAIL

NOT TO SCALE



NOT TO SCALE

BASEPLATE DETAIL

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REVISION:

SPLASH CARWASH

BRYANT, ARKANSAS

STATE OF ARKANSAS
PHILLIP A. LEWIS
REGISTERED PROFESSIONAL ENGINEER
No. 9540

CERTIFICATE OF AUTHORIZATION
PHILLIP LEWIS ENGINEERING, INC.
No. 566
ARKANSAS-ENGINEER

PROJECT NUMBER:

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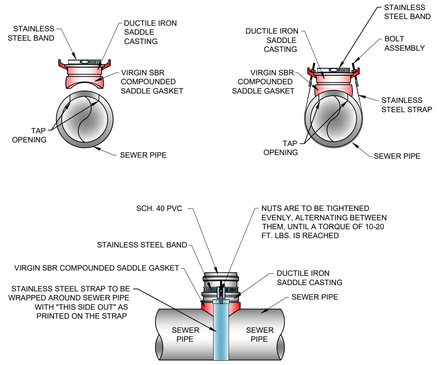
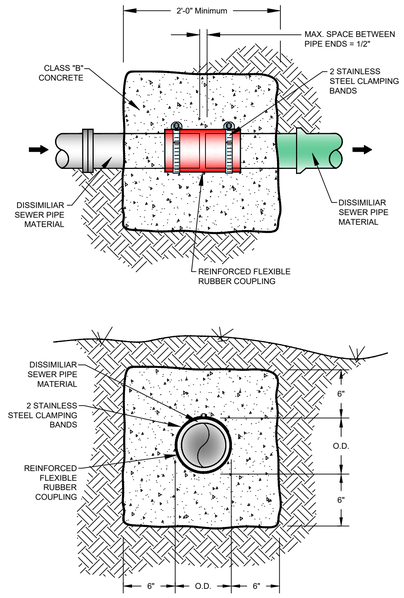
5/11/2022

PAGE TITLE:
SITE DETAILS

SHEET NUMBER:
C-1.4



SEWER SERVICE SADDLE

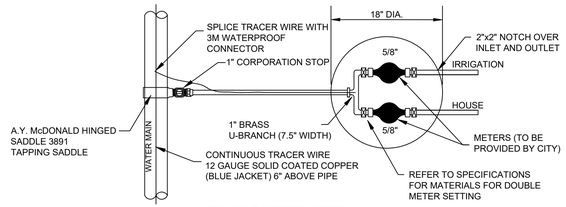


REINFORCE FLEXIBLE COUPLING

CONNECTION TO EXISTING SERVICE

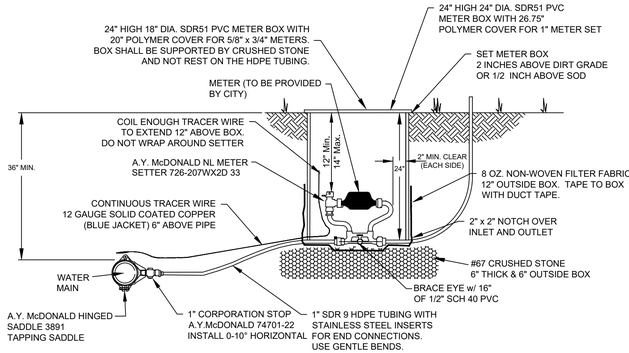
BOTTOM VIEW

WATER METER LID

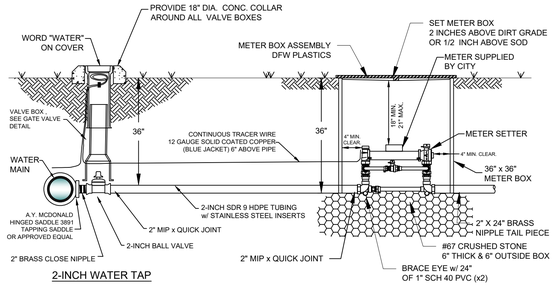


DOUBLE METER SETTING

ONLY FOR 1 LOT



SINGLE METER SETTING



2-INCH WATER TAP

2-INCH METER SETTER

NOTES:

1. COORDINATE INSTALLATION AND CONFIGURATIONOF ALL 1-1/2" AND LARGER METER SETTINGS WITH THE CITY.
2. ALL METER BOXES SHALL BE INSTALLED IN NON-PAVED AREAS . ANY METER BOX THAT GETS PLACED IN A PAVED AREA SHALL BE RELOCATED AT THE OWNER'S EXPENSE BEFORE A WATER METER WILL BE INSTALLED.
3. SUPPORT METER INSTALLATION WITH 1"x24" SCH40 PVC THROUGH EACH BRACE EYE.

2" WATER SERVICE AND WATER METER

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CITY, STATE

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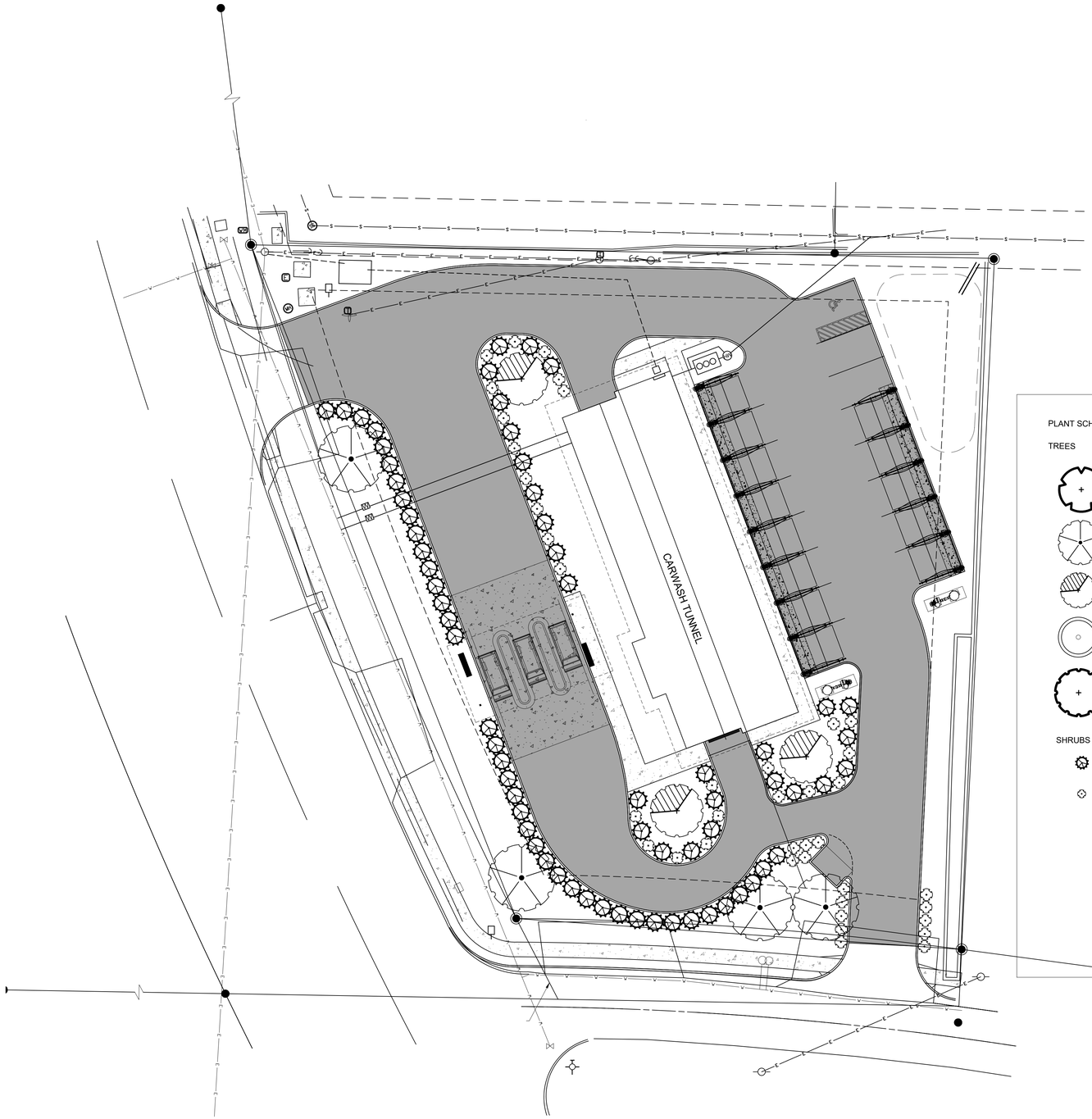
2



PLANT SCHEDULE

TREES	CODE	QTY	COMMON	BOTANICAL NAME	CONT	CAL / SIZE
	WP	0	WHITE PINE'	PINUS ALBA	B&B	2.5" CAL
	SM	5	NORWEGIAN SUNSET MAPLE	ACER 'NORWEGIAN SUNSET'	B&B	2.5" CAL
	RB	3	RIVER BIRCH 'HERITAGE'	BETULA NIGRA 'CULLY'	B&B	2.5" CAL
	CO	0	COLUMNAR OAK ' CRIMSON SPIRE'	QUERCUS ROBUR 'CRIMSCHMIDT'	B&B	2.5" CAL
	WO	0	WILLOW OAK (EXISTING)	QUERCUS PHELLOS 'HIGHTOWER'	N/A	N/A
SHRUBS						
	IH	66	PINK LADY INDIAN HAWTHORN	RHAPHIOLEPIS INDICA 'PINK LADY'	CONT	5 GAL
	EA	40	ENCORE AZALEA AUTUMN CHEER	RHODODENDRON 'CONLEF'	CONT	3 GAL (MIN 18" TALL AT INSTALLATION)

LANDSCAPING PLAN

SCALE 1" = 20'

N

0 20'

1" = 20'-0"

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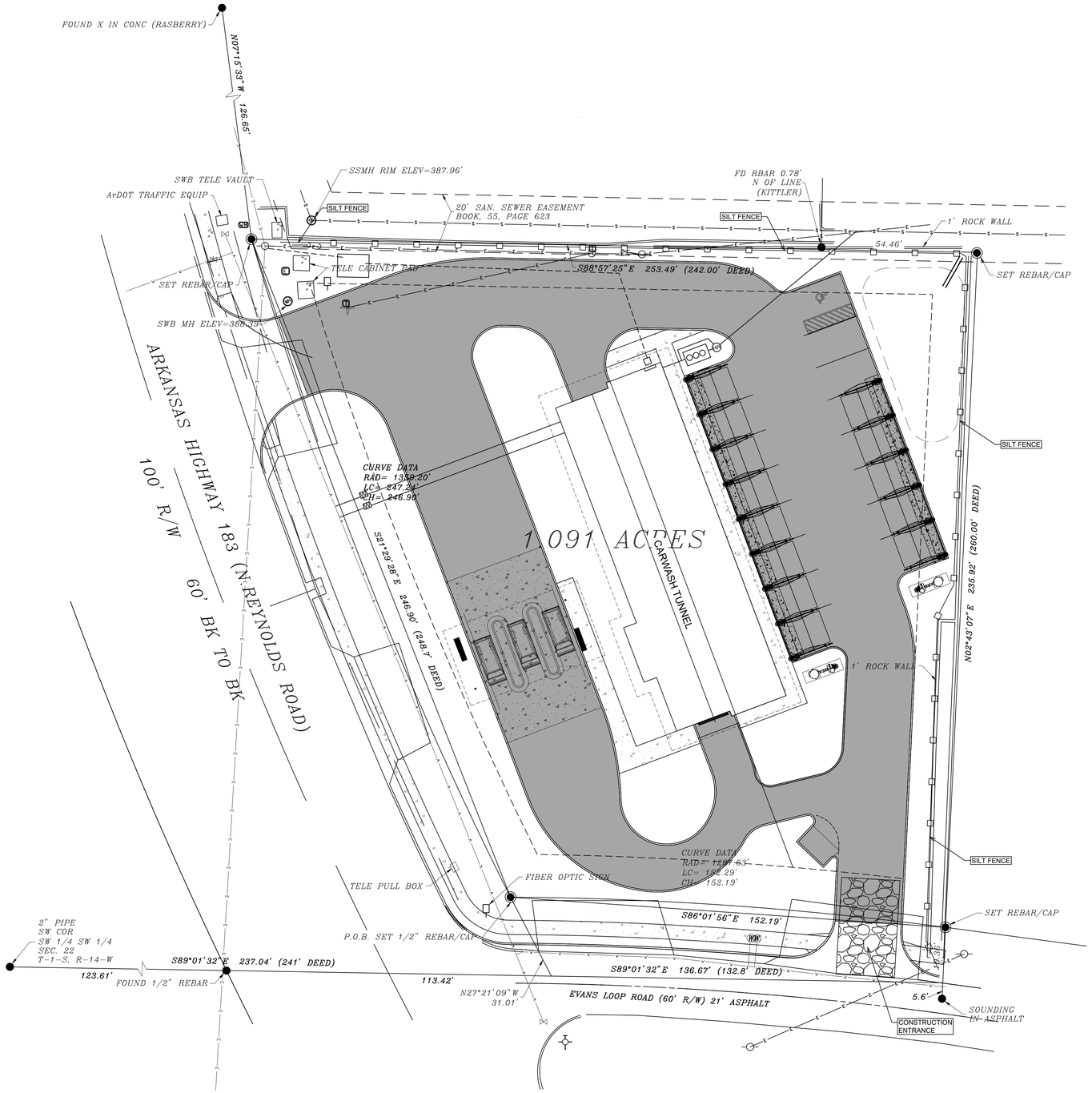

STORM WATER PREVENTION PLAN

SCALE 1" = 20'

G = GUTTER ELEVATION
TC = TOP OF CURB ELEVATION

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C. ALL WATER AND SEWER IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST REVISION TO THE CITY OF BRYANT'S WATER AND WASTEWATER (SANITARY SEWER) STANDARD SPECIFICATIONS.

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STORM WATER POLLUTION PREVENTION PLAN

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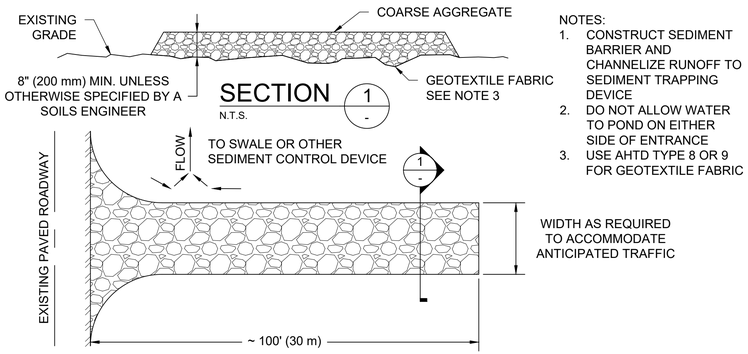
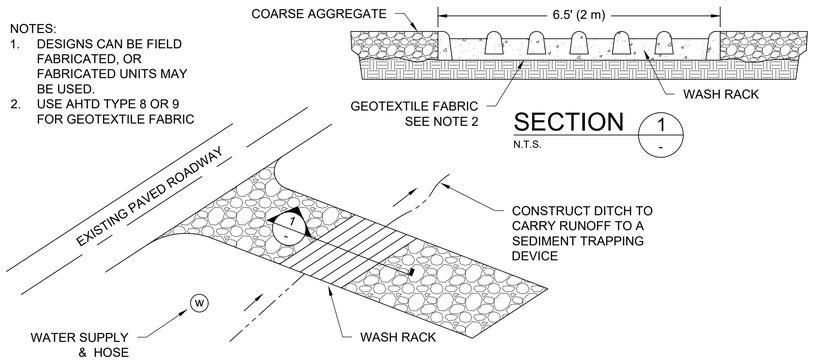


NOTES:
1. CONSTRUCT SEDIMENT BARRIER AND CHANNELIZE RUNOFF TO SEDIMENT TRAPPING DEVICE
2. DO NOT ALLOW WATER TO POND ON EITHER SIDE OF ENTRANCE
3. USE AHTD TYPE 8 OR 9 FOR GEOTEXTILE FABRIC

TEMPORARY CONSTRUCTION ENTRANCE

DETAIL A
N.T.S.

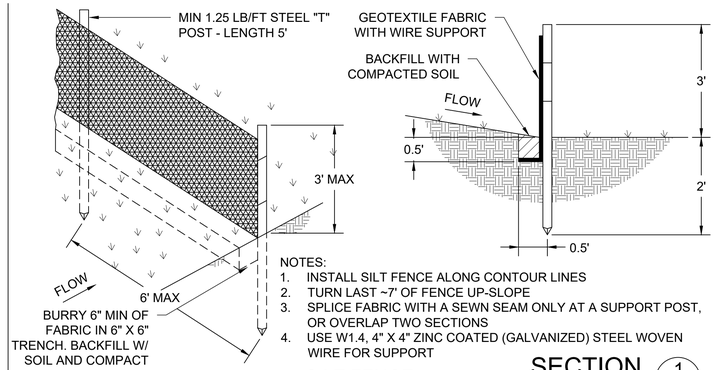
NOTES:
1. DESIGNS CAN BE FIELD FABRICATED, OR FABRICATED UNITS MAY BE USED.
2. USE AHTD TYPE 8 OR 9 FOR GEOTEXTILE FABRIC



PLAN
N.T.S.

TIRE WASH

DETAIL B
N.T.S.



NOTES:
1. INSTALL SILT FENCE ALONG CONTOUR LINES
2. TURN LAST ~7' OF FENCE UP-SLOPE
3. SPLICE FABRIC WITH A SEWN SEAM ONLY AT A SUPPORT POST, OR OVERLAP TWO SECTIONS
4. USE W1.4, 4" X 4" ZINC COATED (GALVANIZED) STEEL WOVEN WIRE FOR SUPPORT

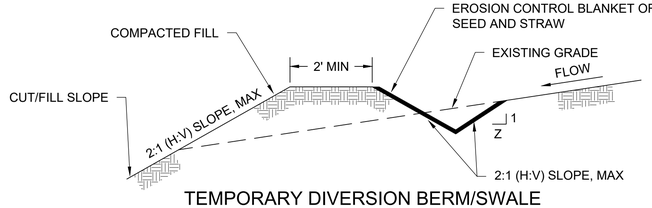
TYPICAL INSTALLATION
N.T.S.

SILT FENCE

DETAIL C
N.T.S.

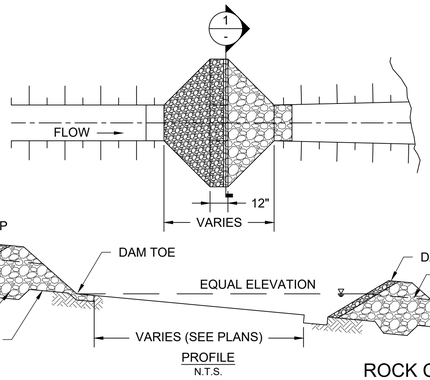
SECTION 1 -
N.T.S.

SWALE DATA					
SWALE	Z:1 (FT/FT)	DEPTH (FT)	SLOPE (%)	VELOCITY (FPS)	Q (CFS)



TEMPORARY DIVERSION BERM/SWALE

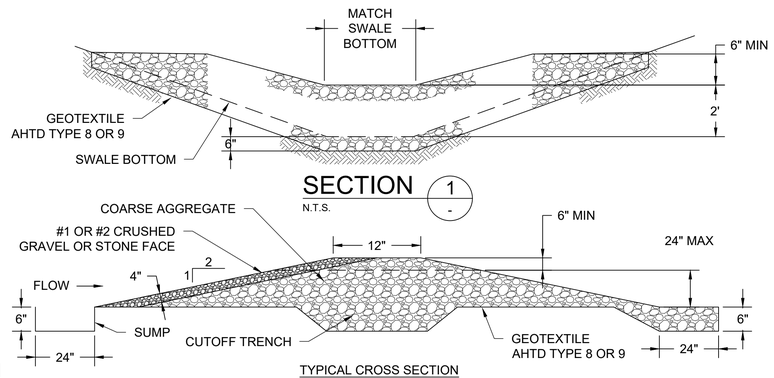
DETAIL D
N.T.S.



PROFILE
N.T.S.

ROCK CHECK DAM

DETAIL E
N.T.S.



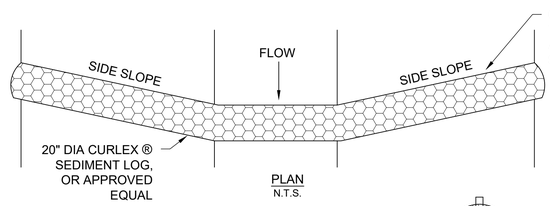
TYPICAL CROSS SECTION
N.T.S.

SPECIES	SEEDING RATE (LB/1,000 FT^2)	PLANTING TIME
RYE OR CEREAL GRASSES	2.3	AUG 15-JAN 20
BROWN TOP MILLET	1.25	JAN 21-AUG 14

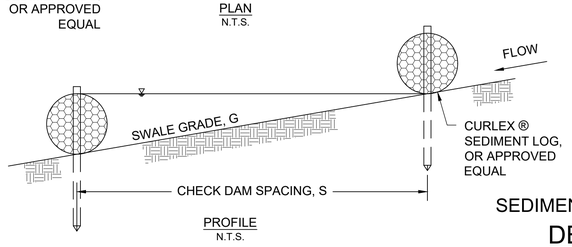
NOTES:
1. THE AREA DESIGNATED OR DIRECTED TO BE TEMPORARILY SEEDED DOES NOT HAVE TO BE BROUGHT TO GARDEN-LINE CONDITION, BUT SHALL BE LIGHTLY TILLED.
2. FERTILIZER SHALL BE APPLIED AT THE RATE OF 11.5 LB/1,000 FT^2 OF 10-20-10 OR THE EQUIVALENT AMOUNT OF PLANT FOOD.
3. MULCH COVER SHALL CONSIST OF STRAW FROM THRESHED RICE, OATS, WHEAT, BARLEY, OR RYE; OF WOOD EXCELSIOR, OR OF HAY OBTAINED FROM VARIOUS LEGUMES OR GRASSES SUCH AS LESPEDEZA, CLOVER, VETCH, SOYBEANS, BERMUDA, CARPET SEDGE, BAHIA, FESCUE, OR OTHER LEGUMES OR GRASSES; OR A COMBINATION THEREOF. MULCH SHALL BE DRY AND REASONABLY FREE FROM NOXIOUS WEEDS. MULCH COVER SHALL BE APPLIED AT THE RATE OF 92 LB/1,000 FT^2 IMMEDIATELY AFTER SEEDING AND SHALL BE SPREAD UNIFORMLY OVER THE ENTIRE AREA.
4. FROM APRIL 1 TO DECEMBER 31, EITHER THE DAY BEFORE THE TEMPORARY SEEDING IS PLACED OR ON THE DAY OF THE TEMPORARY SEEDING OPERATION (EITHER BEFORE THE SEED IS PLACED OR AFTER THE APPLICATION OF THE MULCH COVER) , A MINIMUM OF 0.5 M GAL/1,000 FT^2 OF WATER WILL BE APPLIED.

TEMPORARY SEEDING

DETAIL F
N.T.S.



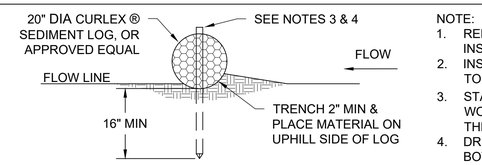
PLAN
N.T.S.



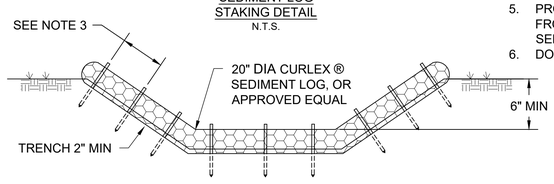
PROFILE
N.T.S.

SEDIMENT LOG CHECK DAM

DETAIL G
N.T.S.



SEDIMENT LOG STAKING DETAIL
N.T.S.



TYPICAL CROSS SECTION
N.T.S.

NOTE:
1. REPAIR ALL RILLS OR GULLIES PRIOR TO INSTALLATION
2. INSTALL CHECK DAMS IN SWALES PERPENDICULAR TO THE FLOWLINE
3. STAKE SEDIMENT LOGS IN PLACE WITH $1\frac{1}{8}$" X $1\frac{1}{8}$" WOODEN STAKES. DRIVE STAKES AT EACH END OF THE SEDIMENT LOG AT 2' (MAX) SPACING.
4. DRIVE STAKES INTO UNDISTURBED SOIL OF SWALE BOTTOM 16" (MIN). EXPOSE STAKES 2" MIN ABOVE TOP OF LOG.
5. PROVIDE SUFFICIENT LENGTH TO PREVENT WATER FROM FLOWING AROUND THE ENDS OF THE SEDIMENT LOG.
6. DO NOT USE WITH SWALE GRADE > 5%

CHECK DAM SPACING	
G (%)	S (FT)
1	150
2	75
3	50
4	40
5	30

PHILLIP LEWIS ENGINEERING, INC.
Structural + Civil Consultants
23620 Interstate 30 | Bryant, Arkansas
PH: 501-350-9840

REVISION:

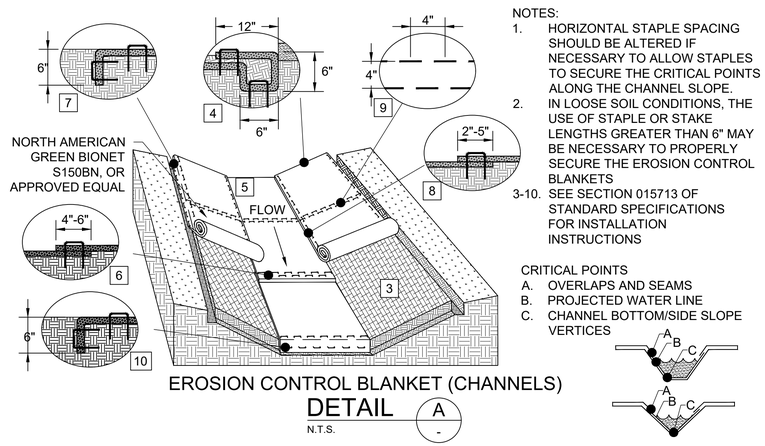
SPLASH CARWASH
BRYANT, ARKANSAS

PROJECT NUMBER:

SHEET ISSUE DATE:
5/11/2022

PAGE TITLE:
EROSION CONTROL DETAILS I

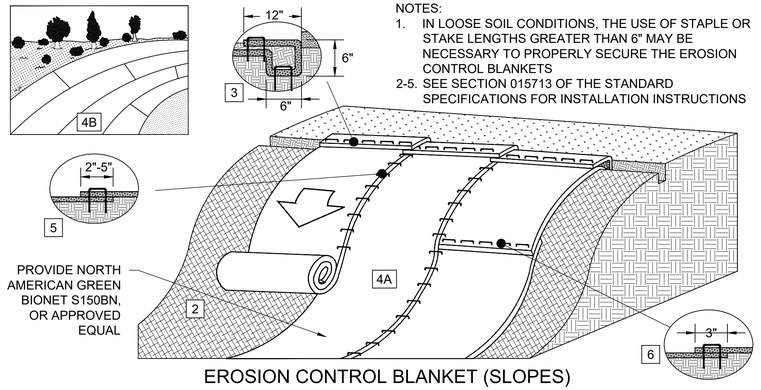
SHEET NUMBER:
C-1.8



NOTES:
1. HORIZONTAL STAPLE SPACING SHOULD BE ALTERED IF NECESSARY TO ALLOW STAPLES TO SECURE THE CRITICAL POINTS ALONG THE CHANNEL SLOPE.
2. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE EROSION CONTROL BLANKETS
3-10. SEE SECTION 015713 OF STANDARD SPECIFICATIONS FOR INSTALLATION INSTRUCTIONS

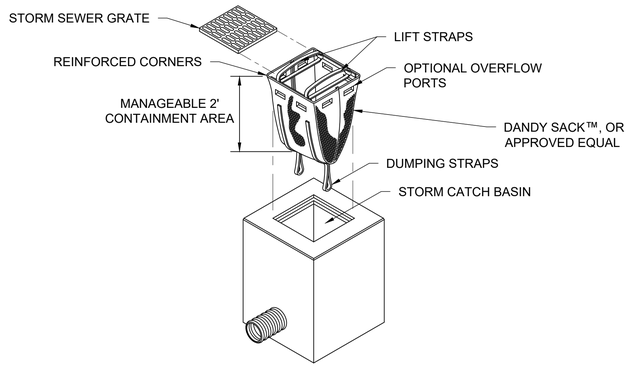
CRITICAL POINTS
A. OVERLAPS AND SEAMS
B. PROJECTED WATER LINE
C. CHANNEL BOTTOM/SIDE SLOPE VERTICES

EROSION CONTROL BLANKET (CHANNELS) DETAIL A
N.T.S.

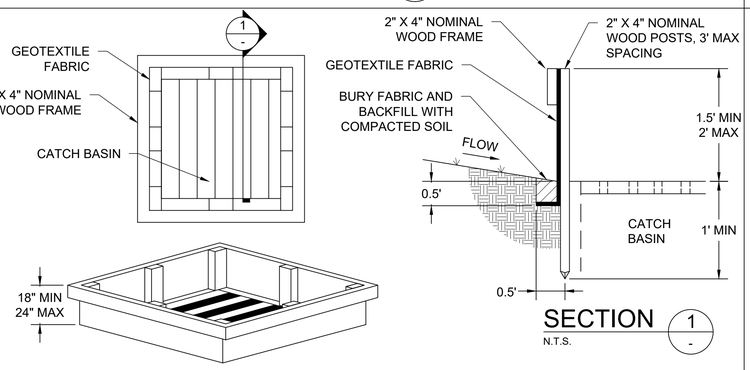


NOTES:
1. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE EROSION CONTROL BLANKETS
2-5. SEE SECTION 015713 OF THE STANDARD SPECIFICATIONS FOR INSTALLATION INSTRUCTIONS

EROSION CONTROL BLANKET (SLOPES) DETAIL B
N.T.S.

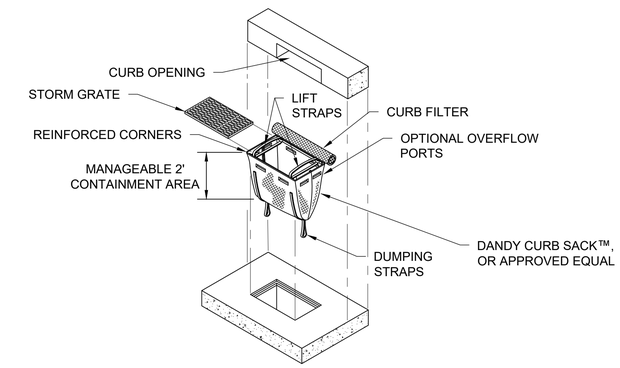


CATCH BASIN INLET PROTECTION DETAIL C
N.T.S.

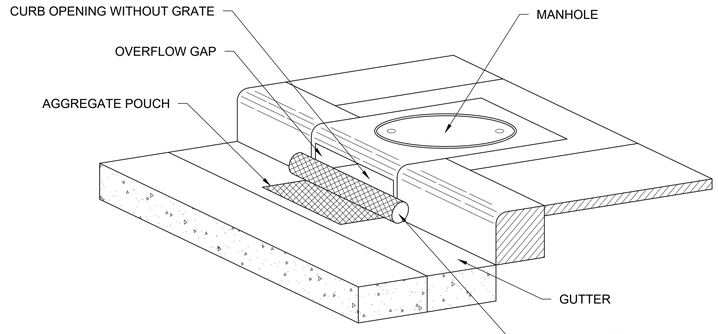


SECTION 1
N.T.S.

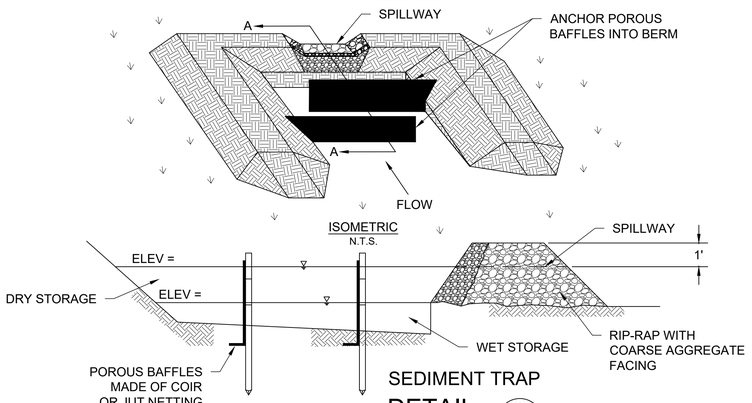
CATCH BASIN INLET PROTECTION DETAIL D
N.T.S.



COMBO INLET PROTECTION DETAIL E
N.T.S.

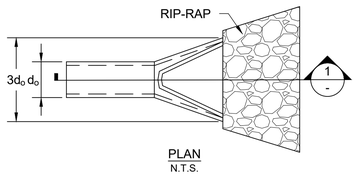


CURB INLET PROTECTION DETAIL F
N.T.S.

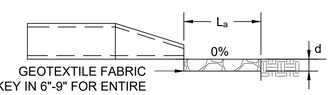


SEDIMENT TRAP DETAIL G
N.T.S.

A - LOW TAILWATER

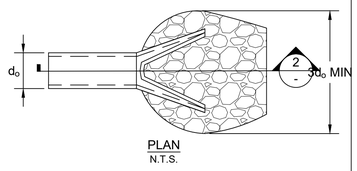


PLAN
N.T.S.

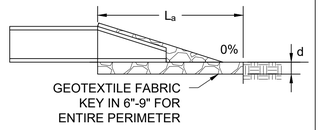


SECTION A-A
N.T.S.

B - HIGH TAILWATER



PLAN
N.T.S.



SECTION B-B
N.T.S.

TEMPORARY OUTLET PROTECTION DETAIL H
N.T.S.

PHILLIP LEWIS ENGINEERING, INC.
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REVISION:

SPLASH CARWASH
BRYANT, ARKANSAS

PROJECT NUMBER:

SHEET ISSUE DATE:
5/11/2022

PAGE TITLE:
EROSION CONTROL DETAILS II

SHEET NUMBER:
C-1.9

DRAINAGE REPORT

Splash Carwash

Date: **05-11-2022**

Located in: **Bryant, Arkansas**

Prepared for:
City of Bryant, Arkansas

Prepared by:

PHILLIP LEWIS ENGINEERING

Structural + Civil Consultants

23620 Interstate 30 | Bryant, AR
PH: 501-350-9840

PHILLIP LEWIS ENGINEERING, INC.
Structural/Civil Design
23620 Interstate 30 N
Bryant, Arkansas 72022

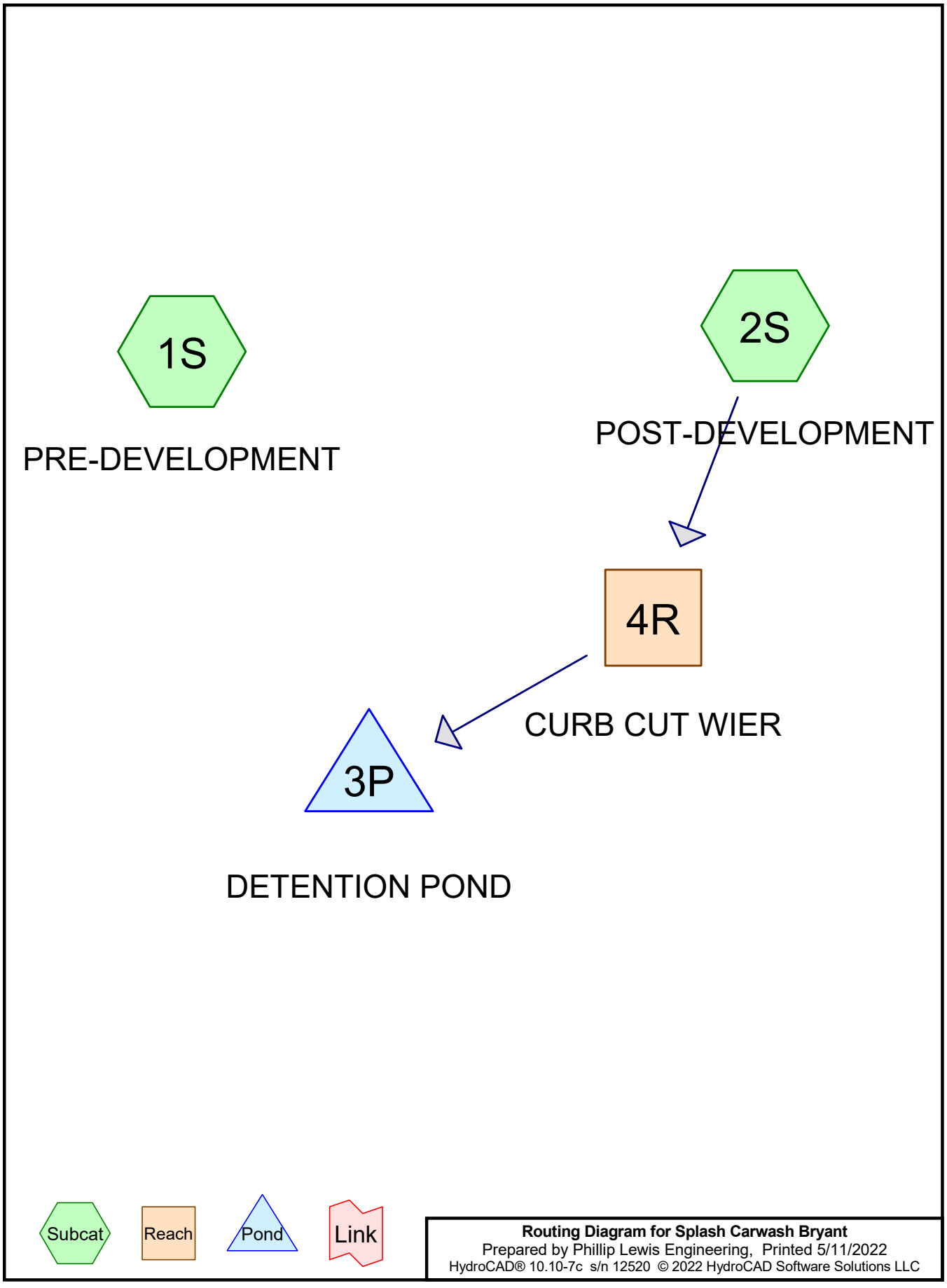
Description of Project

The proposed project is for development of Splash Carwash facility located at 2116 Reynolds Rood in Bryant, Arkansas. The 1.09 acres is located at the intersection of Reynolds Road and Evans loop (old filling station site).

The scope of the project includes the construction of a drive thru tunnel carwash with self service vacuum bays and a covered pay kiosk. In addition to the vacuum bays, new interior landscape islands will be added around the vacuum bays as well as new landscape areas at the South and West side of the property.

Post-development runoff conditions will be reduced from Pre-development runoff conditions after completion of the devlopement with a detention pond constructed in the North East Corner of the property. Post-development site conditions will have an increase in pervious areas. Detention is calculated and sized for the 100 year storm.

PHILLIP LEWIS ENGINEERING, INC.
Structural/Civil Design
23620 Interstate 30 N
Bryant, Arkansas 72022



Routing Diagram for Splash Carwash Bryant
Prepared by Phillip Lewis Engineering, Printed 5/11/2022
HydroCAD® 10.10-7c s/n 12520 © 2022 HydroCAD Software Solutions LLC

Area Listing (all nodes)

Area (acres)	C	Description (subcatchment-numbers)
0.516	0.95	ASPHALT SURFACE (2S)
0.390	0.46	GRASS LANDSCAPING (2S)
0.712	0.65	GRAVEL PARKING (1S)
0.152	0.97	ROOF TOP (2S)
0.345	0.77	SHRUB POOR CONDITION BRUSH (1S)
2.115	**0.73**	**TOTAL AREA**

Pipe Listing (all nodes)

Line#	Node Number	In-Invert (feet)	Out-Invert (feet)	Length (feet)	Slope (ft/ft)	n	Width (inches)	Diam/Height (inches)	Inside-Fill (inches)
1	3P	384.50	384.00	10.0	0.0500	0.011	0.0	12.0	0.0

Time span=0.00-12.00 hrs, dt=0.01 hrs, 1201 points
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1S: PRE-DEVELOPMENT Runoff Area=46,055 sf 0.00% Impervious Runoff Depth=0.63"
Flow Length=270' Slope=0.0250 '/' Tc=15.5 min C=0.69 Runoff=2.53 cfs 0.056 af

Subcatchment 2S: POST-DEVELOPMENT Runoff Area=46,055 sf 63.15% Impervious Runoff Depth=0.71"
Flow Length=360' Slope=0.0150 '/' Tc=8.8 min C=0.77 Runoff=2.82 cfs 0.062 af

Reach 4R: CURB CUT WIER Avg. Flow Depth=0.19' Max Vel=4.94 fps Inflow=2.82 cfs 0.062 af
n=0.013 L=4.0' S=0.0200 '/' Capacity=12.61 cfs Outflow=2.83 cfs 0.062 af

Pond 3P: DETENTION POND Peak Elev=385.57' Storage=1,038 cf Inflow=2.83 cfs 0.062 af
12.0" Round Culvert n=0.011 L=10.0' S=0.0500 '/' Outflow=2.26 cfs 0.062 af

Total Runoff Area = 2.115 ac Runoff Volume = 0.118 af Average Runoff Depth = 0.67"
68.43% Pervious = 1.447 ac 31.57% Impervious = 0.668 ac

Summary for Subcatchment 1S: PRE-DEVELOPMENT

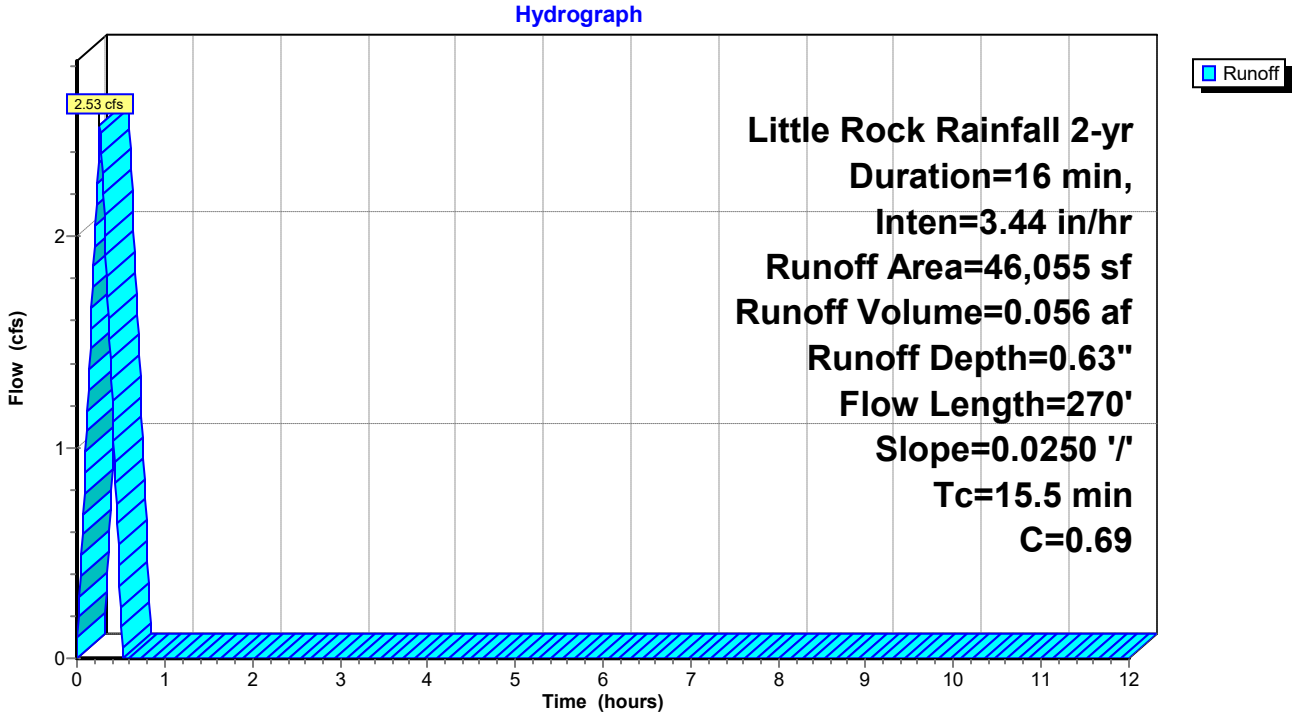
Runoff = 2.53 cfs @ 0.26 hrs, Volume= 0.056 af, Depth= 0.63"

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-12.00 hrs, dt= 0.01 hrs
Little Rock Rainfall 2-yr Duration=16 min, Inten=3.44 in/hr

Area (sf)	C	Description
31,035	0.65	GRAVEL PARKING
15,020	0.77	SHRUB POOR CONDITION BRUSH
46,055	0.69	Weighted Average
46,055		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	270	0.0250	0.29		**Sheet Flow, SHEET FLOW SURFACE** Range n= 0.130 P2= 4.19"

Subcatchment 1S: PRE-DEVELOPMENT



Hydrograph for Subcatchment 1S: PRE-DEVELOPMENT

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	5.10	0.00	10.20	0.00
0.10	0.98	5.20	0.00	10.30	0.00
0.20	**1.96**	5.30	0.00	10.40	0.00
0.30	**2.20**	5.40	0.00	10.50	0.00
0.40	1.22	5.50	0.00	10.60	0.00
0.50	0.24	5.60	0.00	10.70	0.00
0.60	0.00	5.70	0.00	10.80	0.00
0.70	0.00	5.80	0.00	10.90	0.00
0.80	0.00	5.90	0.00	11.00	0.00
0.90	0.00	6.00	0.00	11.10	0.00
1.00	0.00	6.10	0.00	11.20	0.00
1.10	0.00	6.20	0.00	11.30	0.00
1.20	0.00	6.30	0.00	11.40	0.00
1.30	0.00	6.40	0.00	11.50	0.00
1.40	0.00	6.50	0.00	11.60	0.00
1.50	0.00	6.60	0.00	11.70	0.00
1.60	0.00	6.70	0.00	11.80	0.00
1.70	0.00	6.80	0.00	11.90	0.00
1.80	0.00	6.90	0.00	12.00	0.00
1.90	0.00	7.00	0.00		
2.00	0.00	7.10	0.00		
2.10	0.00	7.20	0.00		
2.20	0.00	7.30	0.00		
2.30	0.00	7.40	0.00		
2.40	0.00	7.50	0.00		
2.50	0.00	7.60	0.00		
2.60	0.00	7.70	0.00		
2.70	0.00	7.80	0.00		
2.80	0.00	7.90	0.00		
2.90	0.00	8.00	0.00		
3.00	0.00	8.10	0.00		
3.10	0.00	8.20	0.00		
3.20	0.00	8.30	0.00		
3.30	0.00	8.40	0.00		
3.40	0.00	8.50	0.00		
3.50	0.00	8.60	0.00		
3.60	0.00	8.70	0.00		
3.70	0.00	8.80	0.00		
3.80	0.00	8.90	0.00		
3.90	0.00	9.00	0.00		
4.00	0.00	9.10	0.00		
4.10	0.00	9.20	0.00		
4.20	0.00	9.30	0.00		
4.30	0.00	9.40	0.00		
4.40	0.00	9.50	0.00		
4.50	0.00	9.60	0.00		
4.60	0.00	9.70	0.00		
4.70	0.00	9.80	0.00		
4.80	0.00	9.90	0.00		
4.90	0.00	10.00	0.00		
5.00	0.00	10.10	0.00		

Summary for Subcatchment 2S: POST-DEVELOPMENT

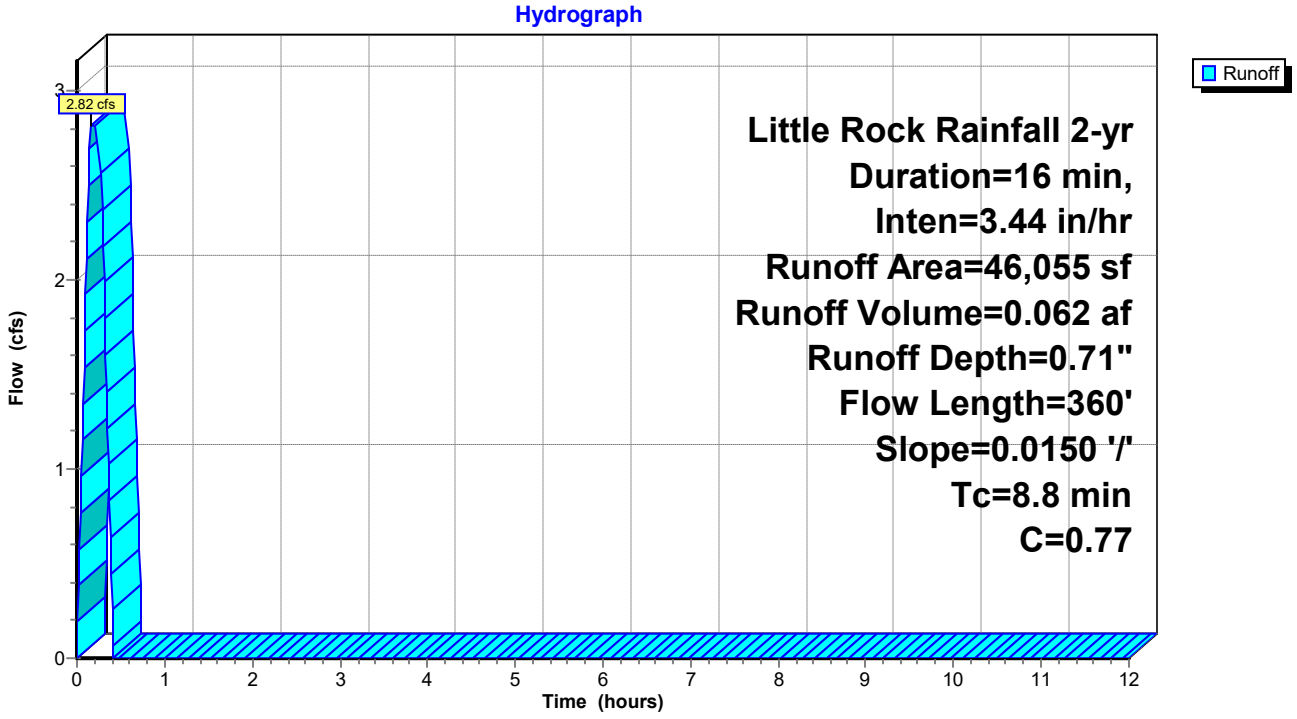
Runoff = 2.82 cfs @ 0.15 hrs, Volume= 0.062 af, Depth= 0.71"
Routed to Reach 4R : CURB CUT WIER

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-12.00 hrs, dt= 0.01 hrs
Little Rock Rainfall 2-yr Duration=16 min, Inten=3.44 in/hr

Area (sf)	C	Description
22,479	0.95	ASPHALT SURFACE
6,603	0.97	ROOF TOP
16,973	0.46	GRASS LANDSCAPING
46,055	0.77	Weighted Average
16,973		36.85% Pervious Area
29,082		63.15% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.7	40	0.0150	0.10		**Sheet Flow, GRASS** Grass: Dense n= 0.240 P2= 4.19"
2.1	320	0.0150	2.49		**Shallow Concentrated Flow, PAVEMENT** Paved Kv= 20.3 fps
8.8	360	Total			

Subcatchment 2S: POST-DEVELOPMENT



Hydrograph for Subcatchment 2S: POST-DEVELOPMENT

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	5.10	0.00	10.20	0.00
0.10	**1.92**	5.20	0.00	10.30	0.00
0.20	**2.82**	5.30	0.00	10.40	0.00
0.30	2.18	5.40	0.00	10.50	0.00
0.40	0.26	5.50	0.00	10.60	0.00
0.50	0.00	5.60	0.00	10.70	0.00
0.60	0.00	5.70	0.00	10.80	0.00
0.70	0.00	5.80	0.00	10.90	0.00
0.80	0.00	5.90	0.00	11.00	0.00
0.90	0.00	6.00	0.00	11.10	0.00
1.00	0.00	6.10	0.00	11.20	0.00
1.10	0.00	6.20	0.00	11.30	0.00
1.20	0.00	6.30	0.00	11.40	0.00
1.30	0.00	6.40	0.00	11.50	0.00
1.40	0.00	6.50	0.00	11.60	0.00
1.50	0.00	6.60	0.00	11.70	0.00
1.60	0.00	6.70	0.00	11.80	0.00
1.70	0.00	6.80	0.00	11.90	0.00
1.80	0.00	6.90	0.00	12.00	0.00
1.90	0.00	7.00	0.00		
2.00	0.00	7.10	0.00		
2.10	0.00	7.20	0.00		
2.20	0.00	7.30	0.00		
2.30	0.00	7.40	0.00		
2.40	0.00	7.50	0.00		
2.50	0.00	7.60	0.00		
2.60	0.00	7.70	0.00		
2.70	0.00	7.80	0.00		
2.80	0.00	7.90	0.00		
2.90	0.00	8.00	0.00		
3.00	0.00	8.10	0.00		
3.10	0.00	8.20	0.00		
3.20	0.00	8.30	0.00		
3.30	0.00	8.40	0.00		
3.40	0.00	8.50	0.00		
3.50	0.00	8.60	0.00		
3.60	0.00	8.70	0.00		
3.70	0.00	8.80	0.00		
3.80	0.00	8.90	0.00		
3.90	0.00	9.00	0.00		
4.00	0.00	9.10	0.00		
4.10	0.00	9.20	0.00		
4.20	0.00	9.30	0.00		
4.30	0.00	9.40	0.00		
4.40	0.00	9.50	0.00		
4.50	0.00	9.60	0.00		
4.60	0.00	9.70	0.00		
4.70	0.00	9.80	0.00		
4.80	0.00	9.90	0.00		
4.90	0.00	10.00	0.00		
5.00	0.00	10.10	0.00		

Summary for Reach 4R: CURB CUT WIER

[88] Warning: Qout>Qin may require smaller dt or Finer Routing

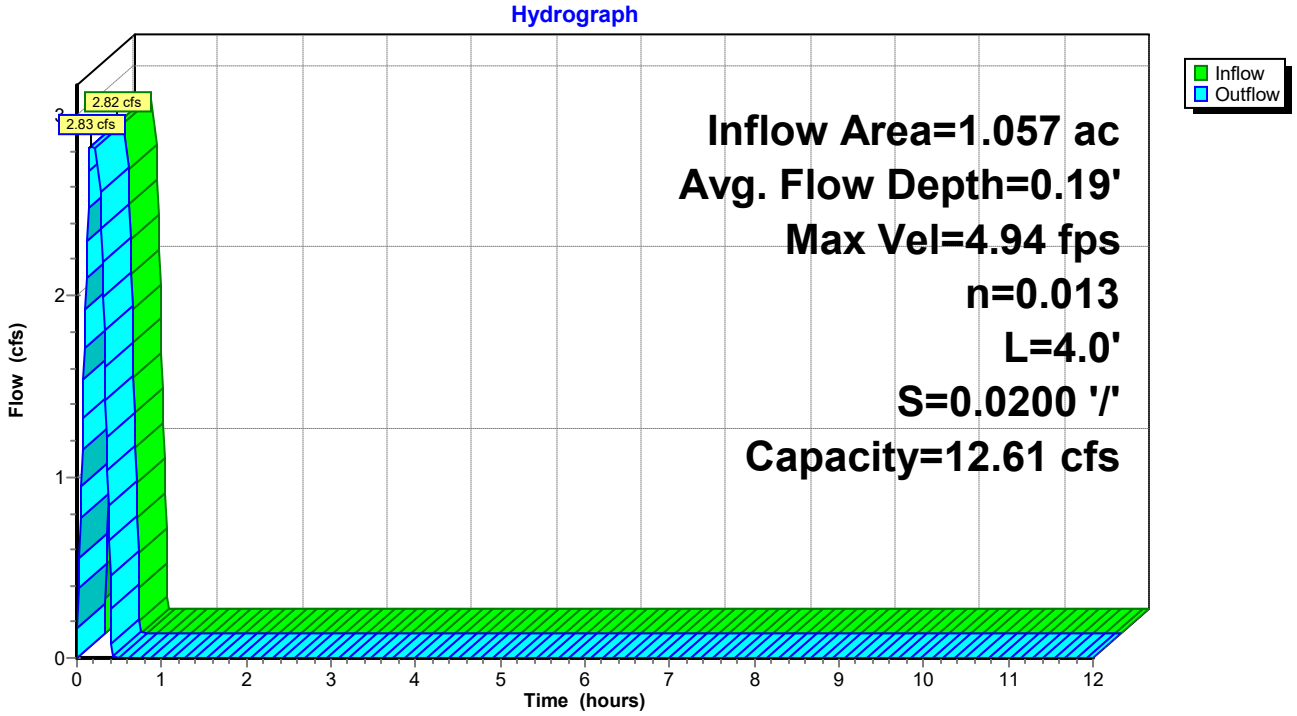
Inflow Area = 1.057 ac, 63.15% Impervious, Inflow Depth = 0.71" for 2-yr event
Inflow = 2.82 cfs @ 0.15 hrs, Volume= 0.062 af
Outflow = 2.83 cfs @ 0.16 hrs, Volume= 0.062 af, Atten= 0%, Lag= 0.6 min
Routed to Pond 3P : DETENTION POND

Routing by Stor-Ind+Trans method, Time Span= 0.00-12.00 hrs, dt= 0.01 hrs
Max. Velocity= 4.94 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 3.92 fps, Avg. Travel Time= 0.0 min

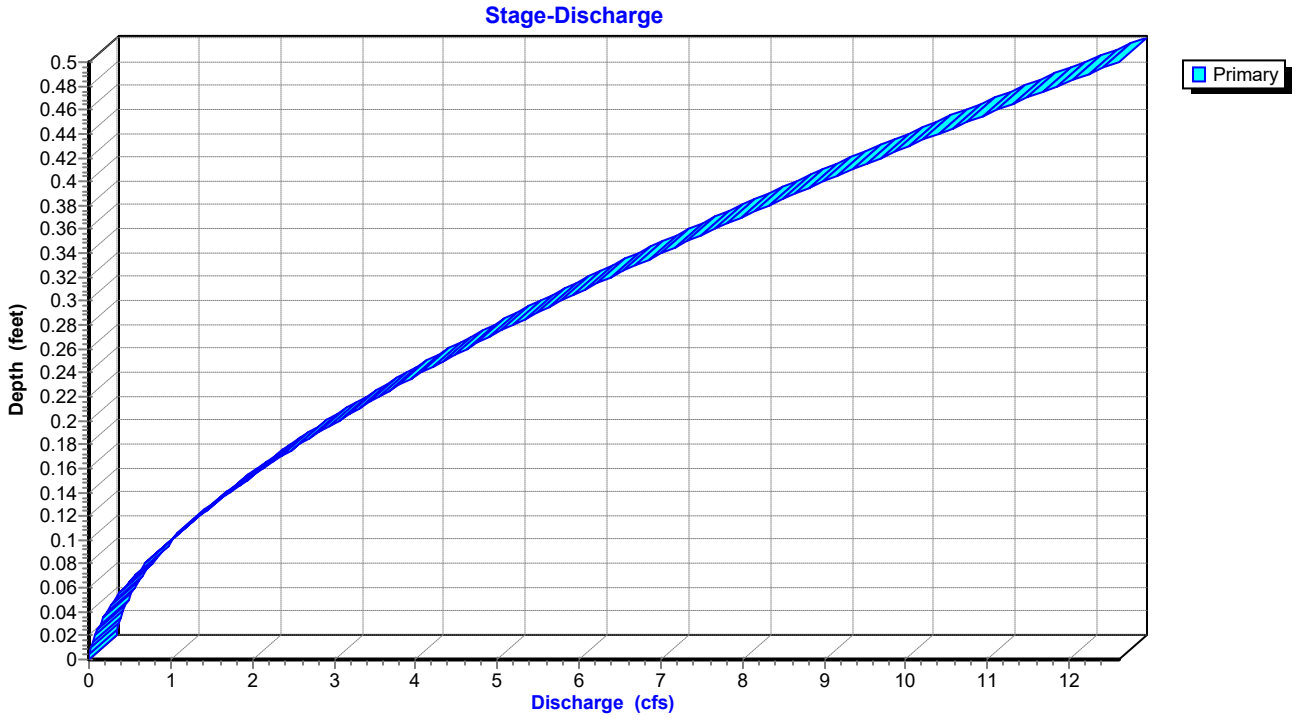
Peak Storage= 2 cf @ 0.16 hrs
Average Depth at Peak Storage= 0.19' , Surface Width= 3.00'
Bank-Full Depth= 0.50' Flow Area= 1.5 sf, Capacity= 12.61 cfs

3.00' x 0.50' deep channel, n= 0.013 Concrete, trowel finish
Length= 4.0' Slope= 0.0200 '/'
Inlet Invert= 387.25', Outlet Invert= 387.17'

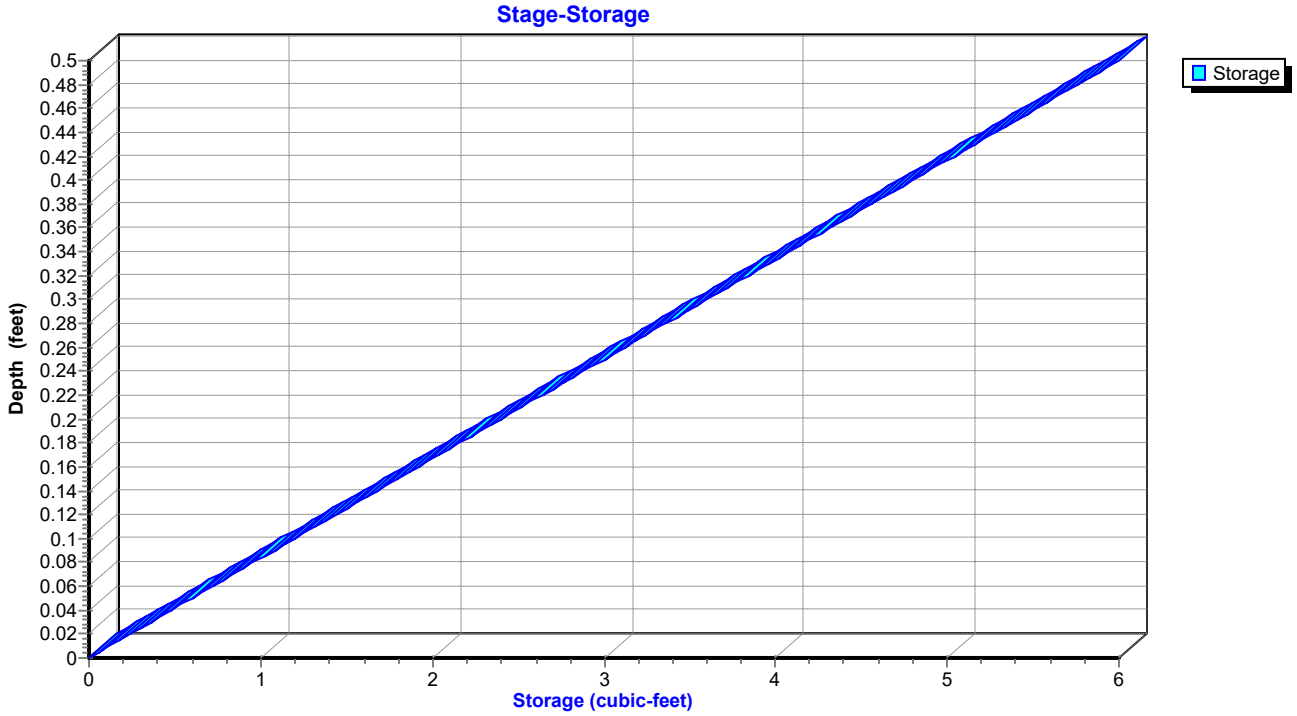
Reach 4R: CURB CUT WIER



Reach 4R: CURB CUT WIER



Reach 4R: CURB CUT WIER



Hydrograph for Reach 4R: CURB CUT WIER

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)
0.00	**0.00**	**0**	**387.25**	**0.00**
0.50	**0.00**	**0**	**387.25**	**0.00**
1.00	0.00	0	387.25	0.00
1.50	0.00	0	387.25	0.00
2.00	0.00	0	387.25	0.00
2.50	0.00	0	387.25	0.00
3.00	0.00	0	387.25	0.00
3.50	0.00	0	387.25	0.00
4.00	0.00	0	387.25	0.00
4.50	0.00	0	387.25	0.00
5.00	0.00	0	387.25	0.00
5.50	0.00	0	387.25	0.00
6.00	0.00	0	387.25	0.00
6.50	0.00	0	387.25	0.00
7.00	0.00	0	387.25	0.00
7.50	0.00	0	387.25	0.00
8.00	0.00	0	387.25	0.00
8.50	0.00	0	387.25	0.00
9.00	0.00	0	387.25	0.00
9.50	0.00	0	387.25	0.00
10.00	0.00	0	387.25	0.00
10.50	0.00	0	387.25	0.00
11.00	0.00	0	387.25	0.00
11.50	0.00	0	387.25	0.00
12.00	0.00	0	387.25	0.00

Stage-Discharge for Reach 4R: CURB CUT WIER

Elevation (feet)	Velocity (ft/sec)	Discharge (cfs)
387.25	0.00	0.00
387.26	0.75	0.02
387.27	1.18	0.07
387.28	1.54	0.14
387.29	1.86	0.22
387.30	2.15	0.32
387.31	2.41	0.43
387.32	2.66	0.56
387.33	2.90	0.70
387.34	3.12	0.84
387.35	3.34	1.00
387.36	3.54	1.17
387.37	3.74	1.35
387.38	3.92	1.53
387.39	4.11	1.72
387.40	4.28	1.93
387.41	4.45	2.14
387.42	4.62	2.36
387.43	4.78	2.58
387.44	4.93	2.81
387.45	5.09	3.05
387.46	5.23	3.30
387.47	5.38	3.55
387.48	5.52	3.81
387.49	5.65	4.07
387.50	5.79	4.34
387.51	5.92	4.62
387.52	6.05	4.90
387.53	6.17	5.19
387.54	6.30	5.48
387.55	6.42	5.77
387.56	6.53	6.08
387.57	6.65	6.38
387.58	6.76	6.69
387.59	6.87	7.01
387.60	6.98	7.33
387.61	7.09	7.65
387.62	7.19	7.98
387.63	7.30	8.32
387.64	7.40	8.65
387.65	7.50	9.00
387.66	7.59	9.34
387.67	7.69	9.69
387.68	7.79	10.04
387.69	7.88	10.40
387.70	7.97	10.76
387.71	8.06	11.12
387.72	8.15	11.49
387.73	8.24	11.86
387.74	8.32	12.23
387.75	**8.41**	**12.61**

Stage-Area-Storage for Reach 4R: CURB CUT WIER

Elevation (feet)	End-Area (sq-ft)	Storage (cubic-feet)
387.25	0.0	0
387.26	0.0	0
387.27	0.1	0
387.28	0.1	0
387.29	0.1	0
387.30	0.2	1
387.31	0.2	1
387.32	0.2	1
387.33	0.2	1
387.34	0.3	1
387.35	0.3	1
387.36	0.3	1
387.37	0.4	1
387.38	0.4	2
387.39	0.4	2
387.40	0.4	2
387.41	0.5	2
387.42	0.5	2
387.43	0.5	2
387.44	0.6	2
387.45	0.6	2
387.46	0.6	3
387.47	0.7	3
387.48	0.7	3
387.49	0.7	3
387.50	0.8	3
387.51	0.8	3
387.52	0.8	3
387.53	0.8	3
387.54	0.9	3
387.55	0.9	4
387.56	0.9	4
387.57	1.0	4
387.58	1.0	4
387.59	1.0	4
387.60	1.1	4
387.61	1.1	4
387.62	1.1	4
387.63	1.1	5
387.64	1.2	5
387.65	1.2	5
387.66	1.2	5
387.67	1.3	5
387.68	1.3	5
387.69	1.3	5
387.70	1.4	5
387.71	1.4	6
387.72	1.4	6
387.73	1.4	6
387.74	1.5	6
387.75	**1.5**	**6**

Summary for Pond 3P: DETENTION POND

Inflow Area = 1.057 ac, 63.15% Impervious, Inflow Depth = 0.71" for 2-yr event
Inflow = 2.83 cfs @ 0.16 hrs, Volume= 0.062 af
Outflow = 2.26 cfs @ 0.30 hrs, Volume= 0.062 af, Atten= 20%, Lag= 8.2 min
Primary = 2.26 cfs @ 0.30 hrs, Volume= 0.062 af

Routing by Stor-Ind method, Time Span= 0.00-12.00 hrs, dt= 0.01 hrs
Peak Elev= 385.57' @ 0.30 hrs Surf.Area= 1,150 sf Storage= 1,038 cf

Plug-Flow detention time= 10.9 min calculated for 0.062 af (100% of inflow)
Center-of-Mass det. time= 10.8 min (23.3 - 12.4)

Volume	Invert	Avail.Storage	Storage Description
#1	384.50'	2,986 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

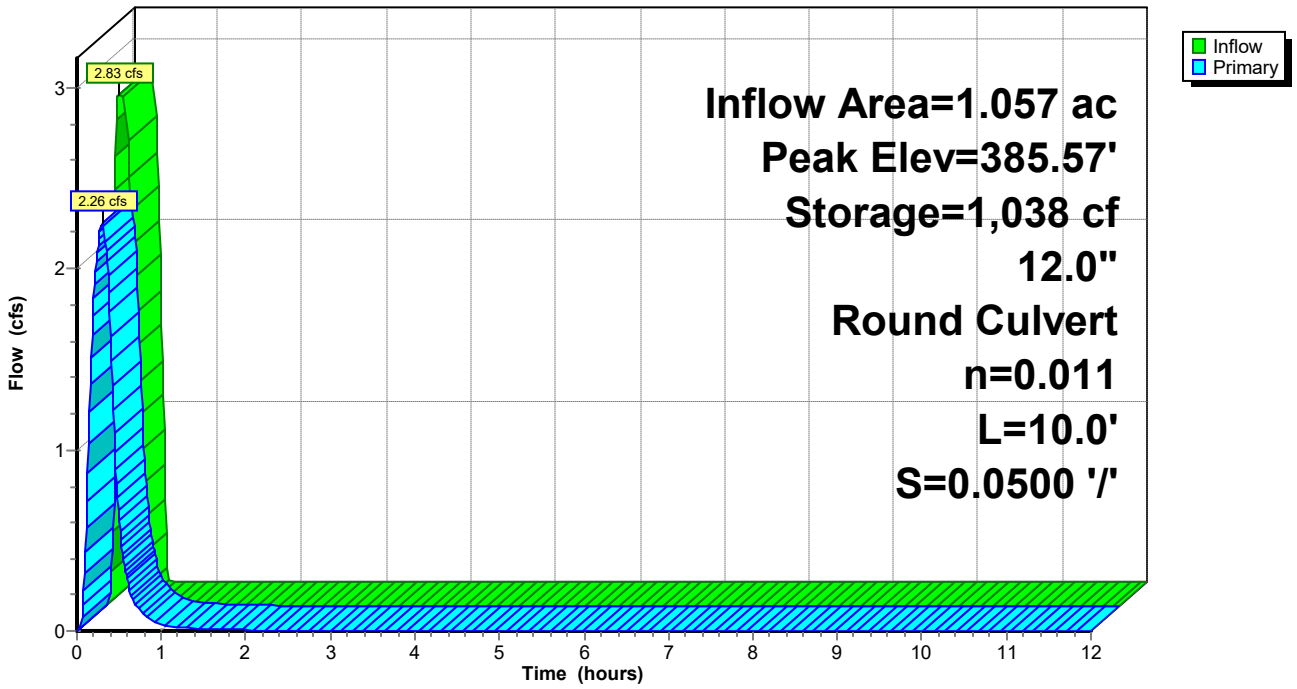
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
384.50	724	0	0
385.00	986	428	428
386.00	1,273	1,130	1,557
387.00	1,585	1,429	2,986

Device	Routing	Invert	Outlet Devices
#1	Primary	384.50'	**12.0" Round 12" RCP** L= 10.0' CMP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 384.50' / 384.00' S= 0.0500 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=2.26 cfs @ 0.30 hrs HW=385.57' (Free Discharge)
↑—**1=12" RCP** (Inlet Controls 2.26 cfs @ 2.87 fps)

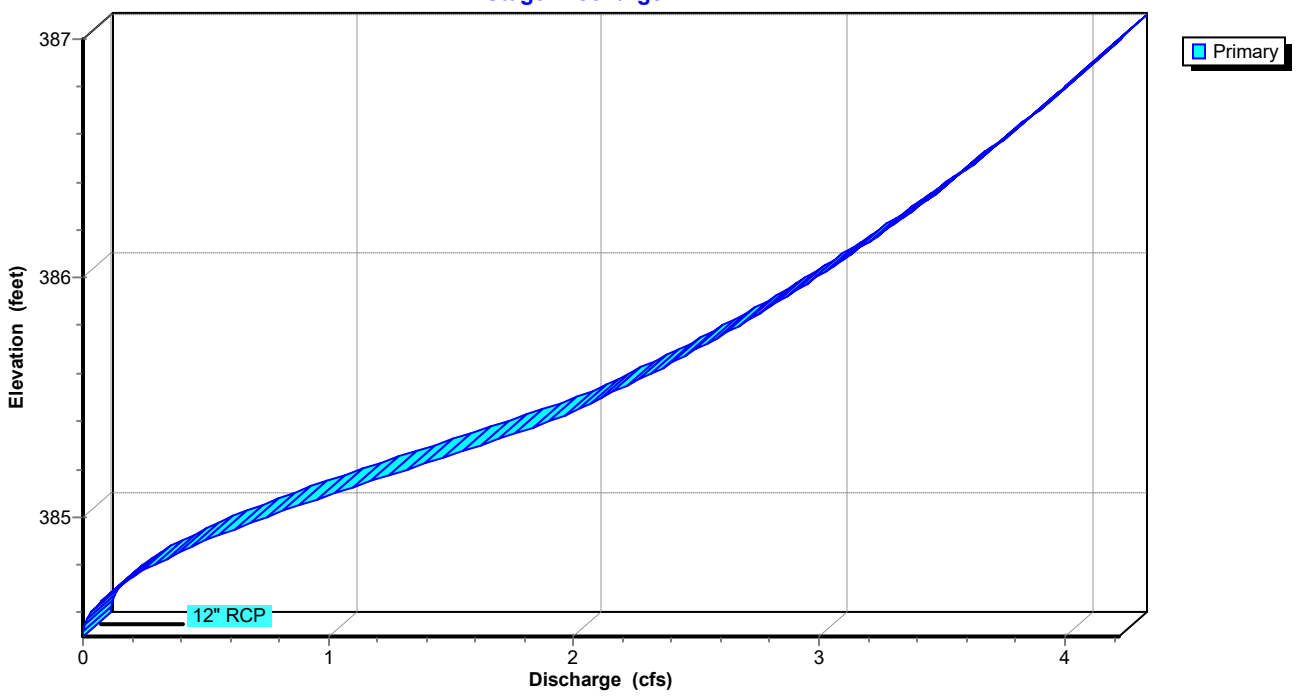
Pond 3P: DETENTION POND

Hydrograph

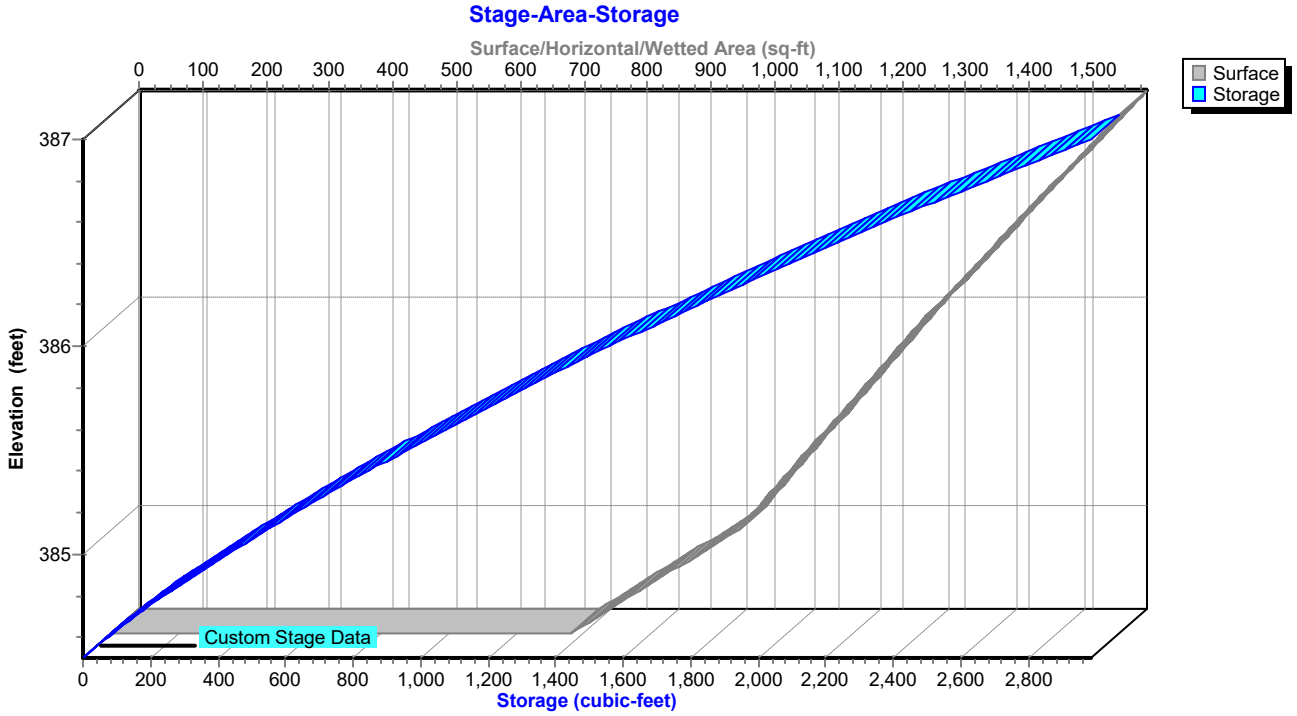


Pond 3P: DETENTION POND

Stage-Discharge



Pond 3P: DETENTION POND



Hydrograph for Pond 3P: DETENTION POND

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	**0.00**	**0**	**384.50**	**0.00**
0.50	**0.00**	**375**	**384.95**	**0.61**
1.00	0.00	79	384.60	0.04
1.50	0.00	41	384.56	0.01
2.00	0.00	27	384.54	0.01
2.50	0.00	20	384.53	0.00
3.00	0.00	16	384.52	0.00
3.50	0.00	13	384.52	0.00
4.00	0.00	10	384.51	0.00
4.50	0.00	8	384.51	0.00
5.00	0.00	7	384.51	0.00
5.50	0.00	5	384.51	0.00
6.00	0.00	4	384.51	0.00
6.50	0.00	3	384.50	0.00
7.00	0.00	3	384.50	0.00
7.50	0.00	2	384.50	0.00
8.00	0.00	2	384.50	0.00
8.50	0.00	1	384.50	0.00
9.00	0.00	1	384.50	0.00
9.50	0.00	1	384.50	0.00
10.00	0.00	1	384.50	0.00
10.50	0.00	1	384.50	0.00
11.00	0.00	0	384.50	0.00
11.50	0.00	0	384.50	0.00
12.00	0.00	0	384.50	0.00

Stage-Discharge for Pond 3P: DETENTION POND

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
384.50	0.00	385.52	2.15	386.54	3.70
384.52	0.00	385.54	2.19	386.56	3.73
384.54	0.01	385.56	2.23	386.58	3.75
384.56	0.01	385.58	2.27	386.60	3.78
384.58	0.02	385.60	2.31	386.62	3.80
384.60	0.03	385.62	2.35	386.64	3.82
384.62	0.05	385.64	2.39	386.66	3.85
384.64	0.07	385.66	2.43	386.68	3.87
384.66	0.09	385.68	2.46	386.70	3.89
384.68	0.11	385.70	2.50	386.72	3.92
384.70	0.13	385.72	2.53	386.74	3.94
384.72	0.16	385.74	2.57	386.76	3.96
384.74	0.19	385.76	2.60	386.78	3.98
384.76	0.22	385.78	2.64	386.80	4.01
384.78	0.26	385.80	2.67	386.82	4.03
384.80	0.29	385.82	2.70	386.84	4.05
384.82	0.33	385.84	2.74	386.86	4.07
384.84	0.37	385.86	2.77	386.88	4.09
384.86	0.41	385.88	2.80	386.90	4.12
384.88	0.45	385.90	2.83	386.92	4.14
384.90	0.50	385.92	2.86	386.94	4.16
384.92	0.55	385.94	2.89	386.96	4.18
384.94	0.59	385.96	2.93	386.98	4.20
384.96	0.64	385.98	2.96	387.00	**4.22**
384.98	0.69	386.00	2.99		
385.00	0.75	386.02	3.02		
385.02	0.80	386.04	3.04		
385.04	0.85	386.06	3.07		
385.06	0.91	386.08	3.10		
385.08	0.97	386.10	3.13		
385.10	1.02	386.12	3.16		
385.12	1.08	386.14	3.19		
385.14	1.14	386.16	3.22		
385.16	1.20	386.18	3.24		
385.18	1.26	386.20	3.27		
385.20	1.32	386.22	3.30		
385.22	1.38	386.24	3.32		
385.24	1.44	386.26	3.35		
385.26	1.50	386.28	3.38		
385.28	1.56	386.30	3.40		
385.30	1.62	386.32	3.43		
385.32	1.68	386.34	3.46		
385.34	1.74	386.36	3.48		
385.36	1.79	386.38	3.51		
385.38	1.85	386.40	3.53		
385.40	1.90	386.42	3.56		
385.42	1.95	386.44	3.58		
385.44	2.00	386.46	3.61		
385.46	2.04	386.48	3.63		
385.48	2.08	386.50	3.66		
385.50	2.11	386.52	3.68		

Stage-Area-Storage for Pond 3P: DETENTION POND

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
384.50	724	0
384.55	750	37
384.60	776	75
384.65	803	114
384.70	829	155
384.75	855	197
384.80	881	241
384.85	907	285
384.90	934	332
384.95	960	379
385.00	986	428
385.05	1,000	477
385.10	1,015	528
385.15	1,029	579
385.20	1,043	630
385.25	1,058	683
385.30	1,072	736
385.35	1,086	790
385.40	1,101	845
385.45	1,115	900
385.50	1,130	956
385.55	1,144	1,013
385.60	1,158	1,071
385.65	1,173	1,129
385.70	1,187	1,188
385.75	1,201	1,248
385.80	1,216	1,308
385.85	1,230	1,369
385.90	1,244	1,431
385.95	1,259	1,494
386.00	1,273	1,557
386.05	1,289	1,621
386.10	1,304	1,686
386.15	1,320	1,751
386.20	1,335	1,818
386.25	1,351	1,885
386.30	1,367	1,953
386.35	1,382	2,022
386.40	1,398	2,091
386.45	1,413	2,161
386.50	1,429	2,233
386.55	1,445	2,304
386.60	1,460	2,377
386.65	1,476	2,450
386.70	1,491	2,525
386.75	1,507	2,600
386.80	1,523	2,675
386.85	1,538	2,752
386.90	1,554	2,829
386.95	1,569	2,907
387.00	**1,585**	**2,986**

Time span=0.00-12.00 hrs, dt=0.01 hrs, 1201 points
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1S: PRE-DEVELOPMENT Runoff Area=46,055 sf 0.00% Impervious Runoff Depth=0.75"
Flow Length=270' Slope=0.0250 '/' Tc=15.5 min C=0.69 Runoff=3.01 cfs 0.066 af

Subcatchment 2S: POST-DEVELOPMENT Runoff Area=46,055 sf 63.15% Impervious Runoff Depth=0.84"
Flow Length=360' Slope=0.0150 '/' Tc=8.8 min C=0.77 Runoff=3.36 cfs 0.074 af

Reach 4R: CURB CUT WIER Avg. Flow Depth=0.21' Max Vel=5.27 fps Inflow=3.36 cfs 0.074 af
n=0.013 L=4.0' S=0.0200 '/' Capacity=12.61 cfs Outflow=3.36 cfs 0.074 af

Pond 3P: DETENTION POND Peak Elev=385.75' Storage=1,253 cf Inflow=3.36 cfs 0.074 af
12.0" Round Culvert n=0.011 L=10.0' S=0.0500 '/' Outflow=2.59 cfs 0.074 af

Total Runoff Area = 2.115 ac Runoff Volume = 0.140 af Average Runoff Depth = 0.80"
68.43% Pervious = 1.447 ac 31.57% Impervious = 0.668 ac

Summary for Subcatchment 1S: PRE-DEVELOPMENT

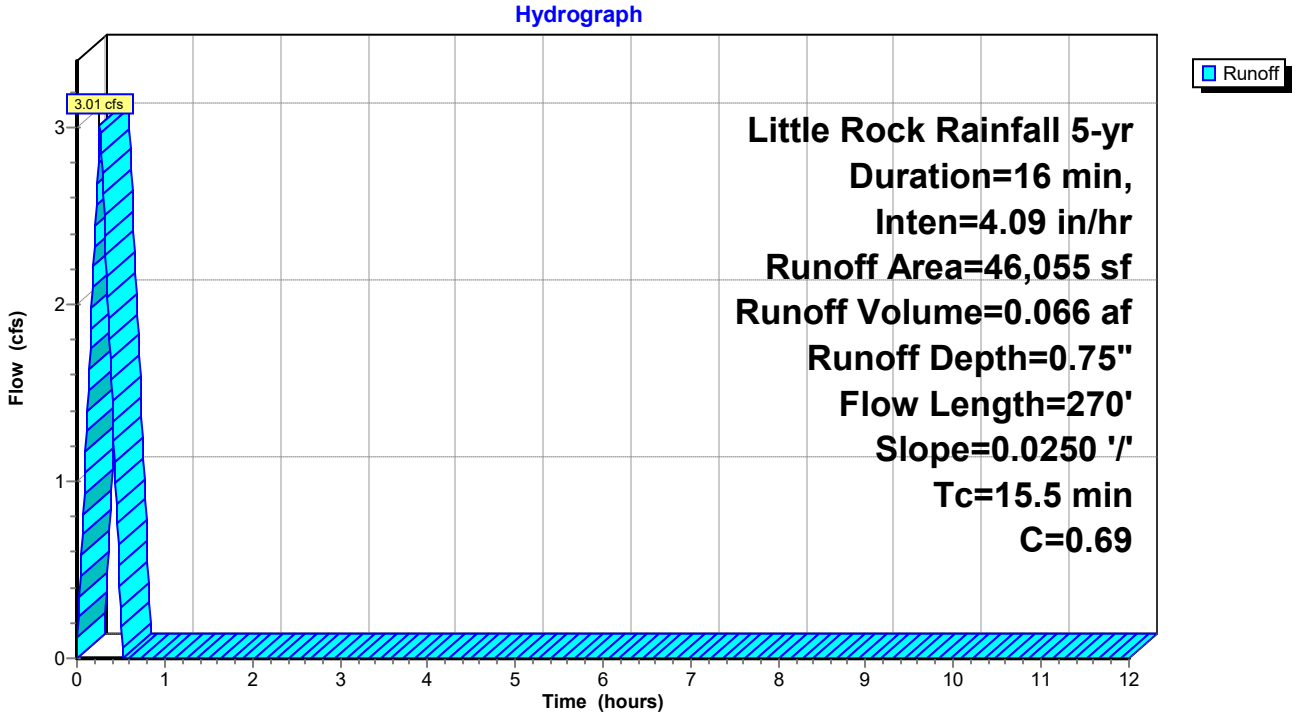
Runoff = 3.01 cfs @ 0.26 hrs, Volume= 0.066 af, Depth= 0.75"

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-12.00 hrs, dt= 0.01 hrs
Little Rock Rainfall 5-yr Duration=16 min, Inten=4.09 in/hr

Area (sf)	C	Description
31,035	0.65	GRAVEL PARKING
15,020	0.77	SHRUB POOR CONDITION BRUSH
46,055	0.69	Weighted Average
46,055		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	270	0.0250	0.29		**Sheet Flow, SHEET FLOW SURFACE** Range n= 0.130 P2= 4.19"

Subcatchment 1S: PRE-DEVELOPMENT



Hydrograph for Subcatchment 1S: PRE-DEVELOPMENT

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	5.10	0.00	10.20	0.00
0.10	1.16	5.20	0.00	10.30	0.00
0.20	**2.33**	5.30	0.00	10.40	0.00
0.30	**2.62**	5.40	0.00	10.50	0.00
0.40	1.46	5.50	0.00	10.60	0.00
0.50	0.29	5.60	0.00	10.70	0.00
0.60	0.00	5.70	0.00	10.80	0.00
0.70	0.00	5.80	0.00	10.90	0.00
0.80	0.00	5.90	0.00	11.00	0.00
0.90	0.00	6.00	0.00	11.10	0.00
1.00	0.00	6.10	0.00	11.20	0.00
1.10	0.00	6.20	0.00	11.30	0.00
1.20	0.00	6.30	0.00	11.40	0.00
1.30	0.00	6.40	0.00	11.50	0.00
1.40	0.00	6.50	0.00	11.60	0.00
1.50	0.00	6.60	0.00	11.70	0.00
1.60	0.00	6.70	0.00	11.80	0.00
1.70	0.00	6.80	0.00	11.90	0.00
1.80	0.00	6.90	0.00	12.00	0.00
1.90	0.00	7.00	0.00		
2.00	0.00	7.10	0.00		
2.10	0.00	7.20	0.00		
2.20	0.00	7.30	0.00		
2.30	0.00	7.40	0.00		
2.40	0.00	7.50	0.00		
2.50	0.00	7.60	0.00		
2.60	0.00	7.70	0.00		
2.70	0.00	7.80	0.00		
2.80	0.00	7.90	0.00		
2.90	0.00	8.00	0.00		
3.00	0.00	8.10	0.00		
3.10	0.00	8.20	0.00		
3.20	0.00	8.30	0.00		
3.30	0.00	8.40	0.00		
3.40	0.00	8.50	0.00		
3.50	0.00	8.60	0.00		
3.60	0.00	8.70	0.00		
3.70	0.00	8.80	0.00		
3.80	0.00	8.90	0.00		
3.90	0.00	9.00	0.00		
4.00	0.00	9.10	0.00		
4.10	0.00	9.20	0.00		
4.20	0.00	9.30	0.00		
4.30	0.00	9.40	0.00		
4.40	0.00	9.50	0.00		
4.50	0.00	9.60	0.00		
4.60	0.00	9.70	0.00		
4.70	0.00	9.80	0.00		
4.80	0.00	9.90	0.00		
4.90	0.00	10.00	0.00		
5.00	0.00	10.10	0.00		

Summary for Subcatchment 2S: POST-DEVELOPMENT

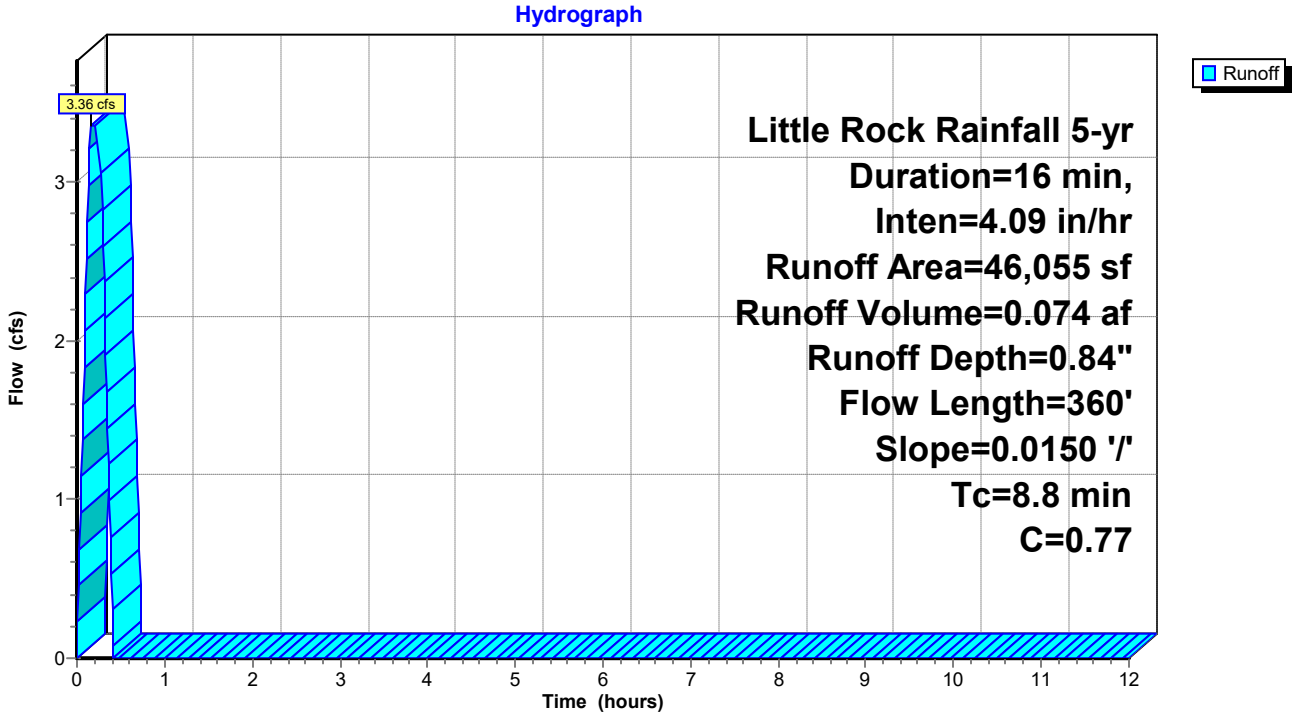
Runoff = 3.36 cfs @ 0.15 hrs, Volume= 0.074 af, Depth= 0.84"
Routed to Reach 4R : CURB CUT WIER

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-12.00 hrs, dt= 0.01 hrs
Little Rock Rainfall 5-yr Duration=16 min, Inten=4.09 in/hr

Area (sf)	C	Description
22,479	0.95	ASPHALT SURFACE
6,603	0.97	ROOF TOP
16,973	0.46	GRASS LANDSCAPING
46,055	0.77	Weighted Average
16,973		36.85% Pervious Area
29,082		63.15% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.7	40	0.0150	0.10		**Sheet Flow, GRASS** Grass: Dense n= 0.240 P2= 4.19"
2.1	320	0.0150	2.49		**Shallow Concentrated Flow, PAVEMENT** Paved Kv= 20.3 fps
8.8	360	Total			

Subcatchment 2S: POST-DEVELOPMENT



Hydrograph for Subcatchment 2S: POST-DEVELOPMENT

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	5.10	0.00	10.20	0.00
0.10	**2.29**	5.20	0.00	10.30	0.00
0.20	**3.36**	5.30	0.00	10.40	0.00
0.30	2.59	5.40	0.00	10.50	0.00
0.40	0.31	5.50	0.00	10.60	0.00
0.50	0.00	5.60	0.00	10.70	0.00
0.60	0.00	5.70	0.00	10.80	0.00
0.70	0.00	5.80	0.00	10.90	0.00
0.80	0.00	5.90	0.00	11.00	0.00
0.90	0.00	6.00	0.00	11.10	0.00
1.00	0.00	6.10	0.00	11.20	0.00
1.10	0.00	6.20	0.00	11.30	0.00
1.20	0.00	6.30	0.00	11.40	0.00
1.30	0.00	6.40	0.00	11.50	0.00
1.40	0.00	6.50	0.00	11.60	0.00
1.50	0.00	6.60	0.00	11.70	0.00
1.60	0.00	6.70	0.00	11.80	0.00
1.70	0.00	6.80	0.00	11.90	0.00
1.80	0.00	6.90	0.00	12.00	0.00
1.90	0.00	7.00	0.00		
2.00	0.00	7.10	0.00		
2.10	0.00	7.20	0.00		
2.20	0.00	7.30	0.00		
2.30	0.00	7.40	0.00		
2.40	0.00	7.50	0.00		
2.50	0.00	7.60	0.00		
2.60	0.00	7.70	0.00		
2.70	0.00	7.80	0.00		
2.80	0.00	7.90	0.00		
2.90	0.00	8.00	0.00		
3.00	0.00	8.10	0.00		
3.10	0.00	8.20	0.00		
3.20	0.00	8.30	0.00		
3.30	0.00	8.40	0.00		
3.40	0.00	8.50	0.00		
3.50	0.00	8.60	0.00		
3.60	0.00	8.70	0.00		
3.70	0.00	8.80	0.00		
3.80	0.00	8.90	0.00		
3.90	0.00	9.00	0.00		
4.00	0.00	9.10	0.00		
4.10	0.00	9.20	0.00		
4.20	0.00	9.30	0.00		
4.30	0.00	9.40	0.00		
4.40	0.00	9.50	0.00		
4.50	0.00	9.60	0.00		
4.60	0.00	9.70	0.00		
4.70	0.00	9.80	0.00		
4.80	0.00	9.90	0.00		
4.90	0.00	10.00	0.00		
5.00	0.00	10.10	0.00		

Summary for Reach 4R: CURB CUT WIER

[88] Warning: Qout>Qin may require smaller dt or Finer Routing

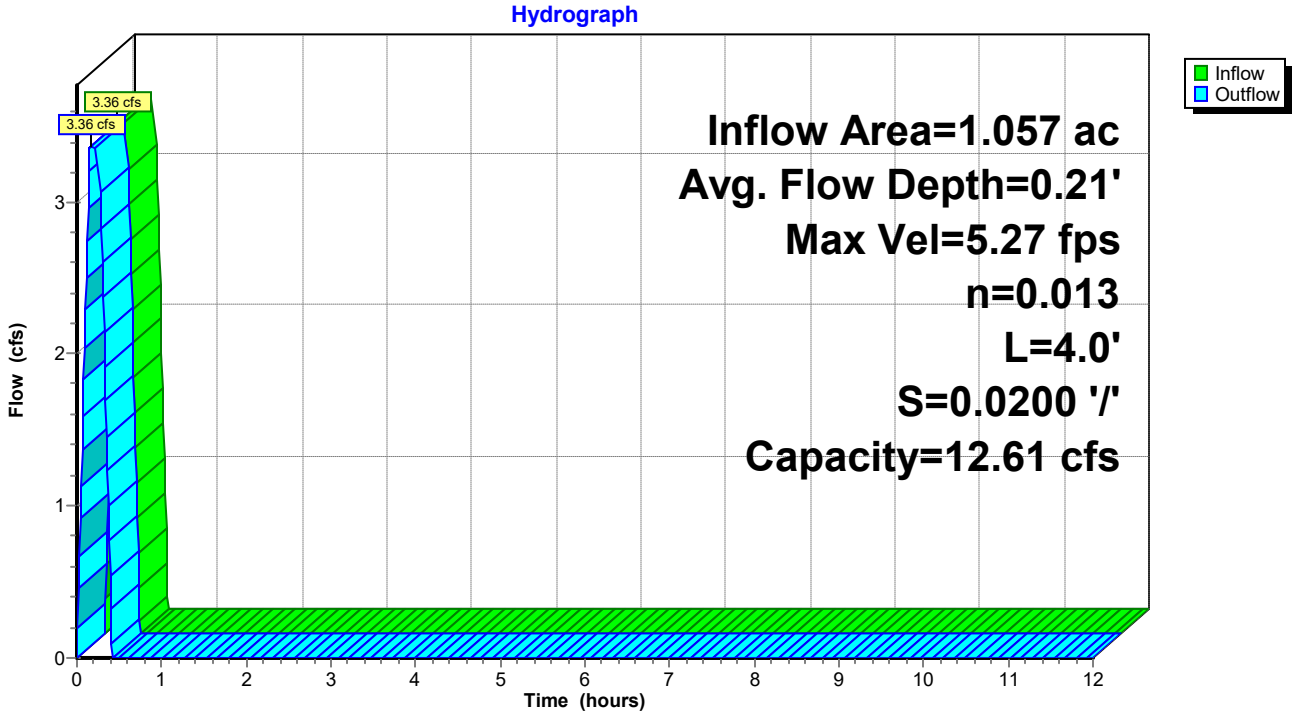
Inflow Area = 1.057 ac, 63.15% Impervious, Inflow Depth = 0.84" for 5-yr event
Inflow = 3.36 cfs @ 0.15 hrs, Volume= 0.074 af
Outflow = 3.36 cfs @ 0.16 hrs, Volume= 0.074 af, Atten= 0%, Lag= 0.6 min
Routed to Pond 3P : DETENTION POND

Routing by Stor-Ind+Trans method, Time Span= 0.00-12.00 hrs, dt= 0.01 hrs
Max. Velocity= 5.27 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 4.18 fps, Avg. Travel Time= 0.0 min

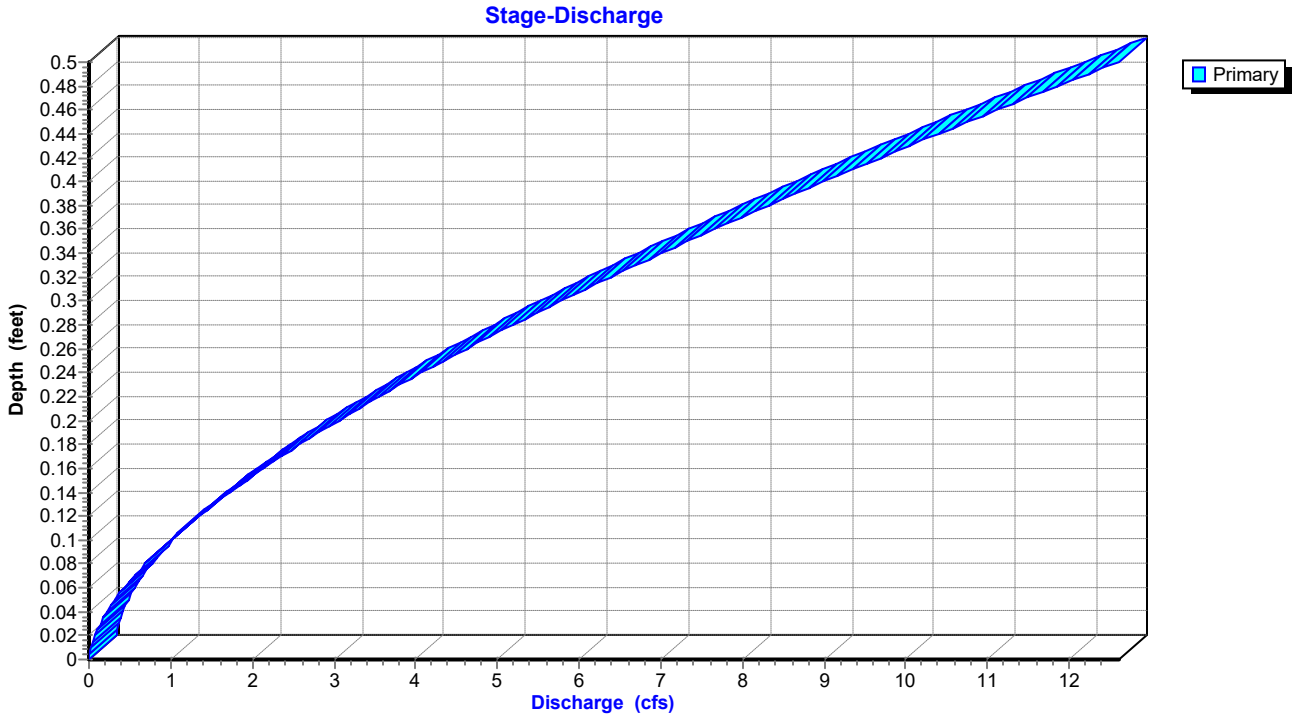
Peak Storage= 3 cf @ 0.16 hrs
Average Depth at Peak Storage= 0.21' , Surface Width= 3.00'
Bank-Full Depth= 0.50' Flow Area= 1.5 sf, Capacity= 12.61 cfs

3.00' x 0.50' deep channel, n= 0.013 Concrete, trowel finish
Length= 4.0' Slope= 0.0200 '/'
Inlet Invert= 387.25', Outlet Invert= 387.17'

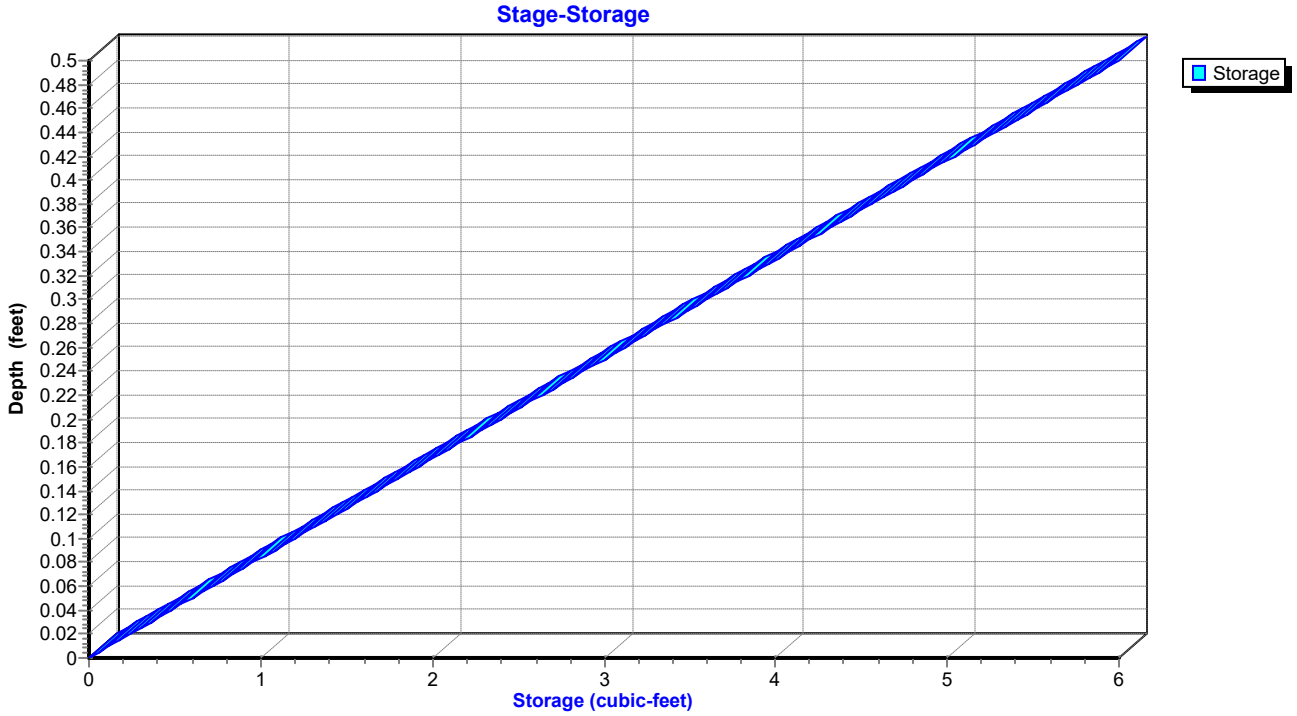
Reach 4R: CURB CUT WIER



Reach 4R: CURB CUT WIER



Reach 4R: CURB CUT WIER



Hydrograph for Reach 4R: CURB CUT WIER

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)
0.00	**0.00**	**0**	**387.25**	**0.00**
0.50	**0.00**	**0**	**387.25**	**0.00**
1.00	0.00	0	387.25	0.00
1.50	0.00	0	387.25	0.00
2.00	0.00	0	387.25	0.00
2.50	0.00	0	387.25	0.00
3.00	0.00	0	387.25	0.00
3.50	0.00	0	387.25	0.00
4.00	0.00	0	387.25	0.00
4.50	0.00	0	387.25	0.00
5.00	0.00	0	387.25	0.00
5.50	0.00	0	387.25	0.00
6.00	0.00	0	387.25	0.00
6.50	0.00	0	387.25	0.00
7.00	0.00	0	387.25	0.00
7.50	0.00	0	387.25	0.00
8.00	0.00	0	387.25	0.00
8.50	0.00	0	387.25	0.00
9.00	0.00	0	387.25	0.00
9.50	0.00	0	387.25	0.00
10.00	0.00	0	387.25	0.00
10.50	0.00	0	387.25	0.00
11.00	0.00	0	387.25	0.00
11.50	0.00	0	387.25	0.00
12.00	0.00	0	387.25	0.00

Stage-Discharge for Reach 4R: CURB CUT WIER

Elevation (feet)	Velocity (ft/sec)	Discharge (cfs)
387.25	0.00	0.00
387.26	0.75	0.02
387.27	1.18	0.07
387.28	1.54	0.14
387.29	1.86	0.22
387.30	2.15	0.32
387.31	2.41	0.43
387.32	2.66	0.56
387.33	2.90	0.70
387.34	3.12	0.84
387.35	3.34	1.00
387.36	3.54	1.17
387.37	3.74	1.35
387.38	3.92	1.53
387.39	4.11	1.72
387.40	4.28	1.93
387.41	4.45	2.14
387.42	4.62	2.36
387.43	4.78	2.58
387.44	4.93	2.81
387.45	5.09	3.05
387.46	5.23	3.30
387.47	5.38	3.55
387.48	5.52	3.81
387.49	5.65	4.07
387.50	5.79	4.34
387.51	5.92	4.62
387.52	6.05	4.90
387.53	6.17	5.19
387.54	6.30	5.48
387.55	6.42	5.77
387.56	6.53	6.08
387.57	6.65	6.38
387.58	6.76	6.69
387.59	6.87	7.01
387.60	6.98	7.33
387.61	7.09	7.65
387.62	7.19	7.98
387.63	7.30	8.32
387.64	7.40	8.65
387.65	7.50	9.00
387.66	7.59	9.34
387.67	7.69	9.69
387.68	7.79	10.04
387.69	7.88	10.40
387.70	7.97	10.76
387.71	8.06	11.12
387.72	8.15	11.49
387.73	8.24	11.86
387.74	8.32	12.23
387.75	**8.41**	**12.61**

Stage-Area-Storage for Reach 4R: CURB CUT WIER

Elevation (feet)	End-Area (sq-ft)	Storage (cubic-feet)
387.25	0.0	0
387.26	0.0	0
387.27	0.1	0
387.28	0.1	0
387.29	0.1	0
387.30	0.2	1
387.31	0.2	1
387.32	0.2	1
387.33	0.2	1
387.34	0.3	1
387.35	0.3	1
387.36	0.3	1
387.37	0.4	1
387.38	0.4	2
387.39	0.4	2
387.40	0.4	2
387.41	0.5	2
387.42	0.5	2
387.43	0.5	2
387.44	0.6	2
387.45	0.6	2
387.46	0.6	3
387.47	0.7	3
387.48	0.7	3
387.49	0.7	3
387.50	0.8	3
387.51	0.8	3
387.52	0.8	3
387.53	0.8	3
387.54	0.9	3
387.55	0.9	4
387.56	0.9	4
387.57	1.0	4
387.58	1.0	4
387.59	1.0	4
387.60	1.1	4
387.61	1.1	4
387.62	1.1	4
387.63	1.1	5
387.64	1.2	5
387.65	1.2	5
387.66	1.2	5
387.67	1.3	5
387.68	1.3	5
387.69	1.3	5
387.70	1.4	5
387.71	1.4	6
387.72	1.4	6
387.73	1.4	6
387.74	1.5	6
387.75	**1.5**	**6**

Summary for Pond 3P: DETENTION POND

Inflow Area = 1.057 ac, 63.15% Impervious, Inflow Depth = 0.84" for 5-yr event
Inflow = 3.36 cfs @ 0.16 hrs, Volume= 0.074 af
Outflow = 2.59 cfs @ 0.30 hrs, Volume= 0.074 af, Atten= 23%, Lag= 8.4 min
Primary = 2.59 cfs @ 0.30 hrs, Volume= 0.074 af

Routing by Stor-Ind method, Time Span= 0.00-12.00 hrs, dt= 0.01 hrs
Peak Elev= 385.75' @ 0.30 hrs Surf.Area= 1,202 sf Storage= 1,253 cf

Plug-Flow detention time= 10.0 min calculated for 0.074 af (100% of inflow)
Center-of-Mass det. time= 10.4 min (22.9 - 12.4)

Volume	Invert	Avail.Storage	Storage Description
#1	384.50'	2,986 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

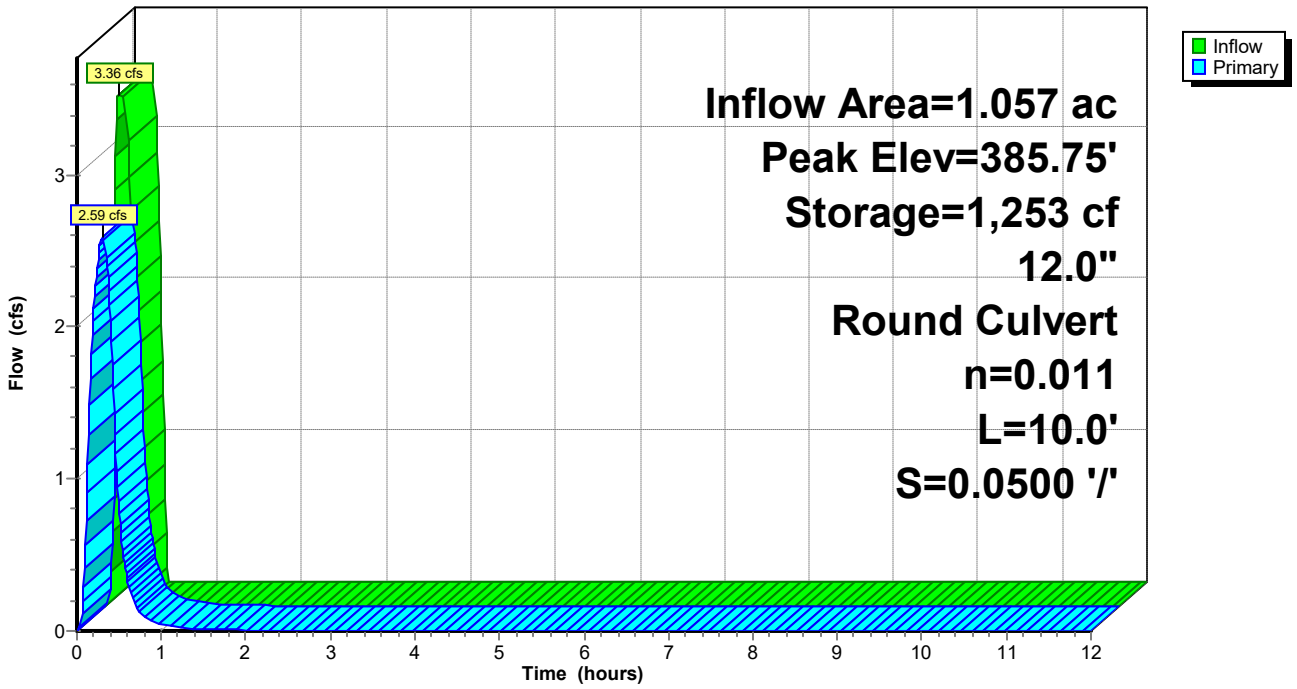
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
384.50	724	0	0
385.00	986	428	428
386.00	1,273	1,130	1,557
387.00	1,585	1,429	2,986

Device	Routing	Invert	Outlet Devices
#1	Primary	384.50'	**12.0" Round 12" RCP** L= 10.0' CMP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 384.50' / 384.00' S= 0.0500 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=2.59 cfs @ 0.30 hrs HW=385.75' (Free Discharge)
↑—**1=12" RCP** (Inlet Controls 2.59 cfs @ 3.30 fps)

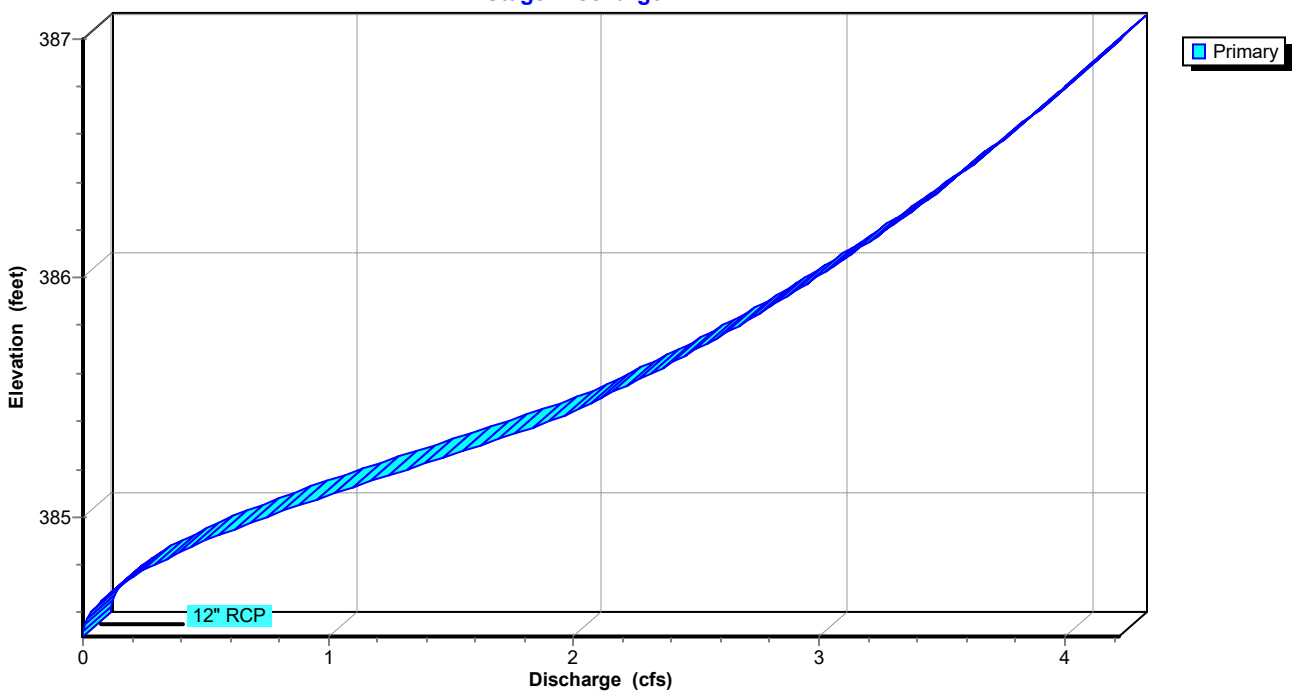
Pond 3P: DETENTION POND

Hydrograph

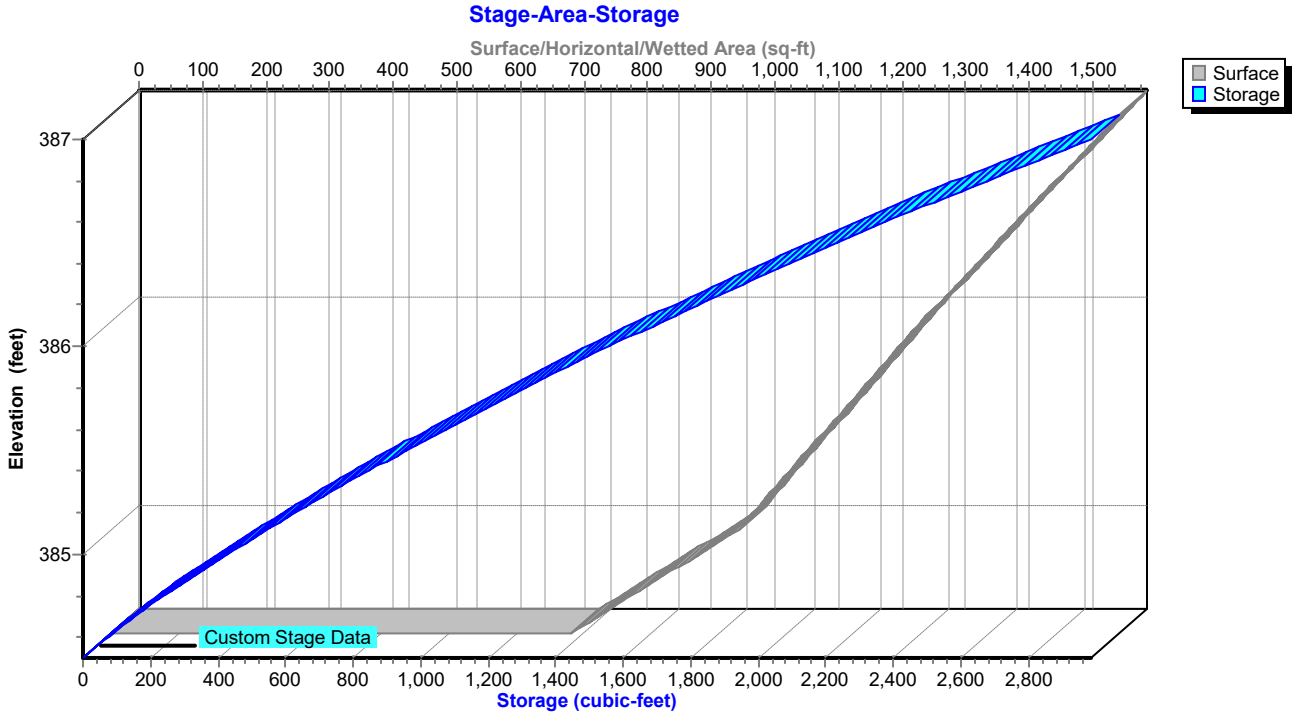


Pond 3P: DETENTION POND

Stage-Discharge



Pond 3P: DETENTION POND



Hydrograph for Pond 3P: DETENTION POND

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	**0.00**	**0**	**384.50**	**0.00**
0.50	**0.00**	**439**	**385.01**	**0.78**
1.00	0.00	82	384.61	0.04
1.50	0.00	42	384.56	0.01
2.00	0.00	28	384.54	0.01
2.50	0.00	20	384.53	0.00
3.00	0.00	16	384.52	0.00
3.50	0.00	13	384.52	0.00
4.00	0.00	10	384.51	0.00
4.50	0.00	8	384.51	0.00
5.00	0.00	7	384.51	0.00
5.50	0.00	5	384.51	0.00
6.00	0.00	4	384.51	0.00
6.50	0.00	3	384.50	0.00
7.00	0.00	3	384.50	0.00
7.50	0.00	2	384.50	0.00
8.00	0.00	2	384.50	0.00
8.50	0.00	1	384.50	0.00
9.00	0.00	1	384.50	0.00
9.50	0.00	1	384.50	0.00
10.00	0.00	1	384.50	0.00
10.50	0.00	1	384.50	0.00
11.00	0.00	0	384.50	0.00
11.50	0.00	0	384.50	0.00
12.00	0.00	0	384.50	0.00

Stage-Discharge for Pond 3P: DETENTION POND

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
384.50	0.00	385.52	2.15	386.54	3.70
384.52	0.00	385.54	2.19	386.56	3.73
384.54	0.01	385.56	2.23	386.58	3.75
384.56	0.01	385.58	2.27	386.60	3.78
384.58	0.02	385.60	2.31	386.62	3.80
384.60	0.03	385.62	2.35	386.64	3.82
384.62	0.05	385.64	2.39	386.66	3.85
384.64	0.07	385.66	2.43	386.68	3.87
384.66	0.09	385.68	2.46	386.70	3.89
384.68	0.11	385.70	2.50	386.72	3.92
384.70	0.13	385.72	2.53	386.74	3.94
384.72	0.16	385.74	2.57	386.76	3.96
384.74	0.19	385.76	2.60	386.78	3.98
384.76	0.22	385.78	2.64	386.80	4.01
384.78	0.26	385.80	2.67	386.82	4.03
384.80	0.29	385.82	2.70	386.84	4.05
384.82	0.33	385.84	2.74	386.86	4.07
384.84	0.37	385.86	2.77	386.88	4.09
384.86	0.41	385.88	2.80	386.90	4.12
384.88	0.45	385.90	2.83	386.92	4.14
384.90	0.50	385.92	2.86	386.94	4.16
384.92	0.55	385.94	2.89	386.96	4.18
384.94	0.59	385.96	2.93	386.98	4.20
384.96	0.64	385.98	2.96	387.00	**4.22**
384.98	0.69	386.00	2.99		
385.00	0.75	386.02	3.02		
385.02	0.80	386.04	3.04		
385.04	0.85	386.06	3.07		
385.06	0.91	386.08	3.10		
385.08	0.97	386.10	3.13		
385.10	1.02	386.12	3.16		
385.12	1.08	386.14	3.19		
385.14	1.14	386.16	3.22		
385.16	1.20	386.18	3.24		
385.18	1.26	386.20	3.27		
385.20	1.32	386.22	3.30		
385.22	1.38	386.24	3.32		
385.24	1.44	386.26	3.35		
385.26	1.50	386.28	3.38		
385.28	1.56	386.30	3.40		
385.30	1.62	386.32	3.43		
385.32	1.68	386.34	3.46		
385.34	1.74	386.36	3.48		
385.36	1.79	386.38	3.51		
385.38	1.85	386.40	3.53		
385.40	1.90	386.42	3.56		
385.42	1.95	386.44	3.58		
385.44	2.00	386.46	3.61		
385.46	2.04	386.48	3.63		
385.48	2.08	386.50	3.66		
385.50	2.11	386.52	3.68		

Stage-Area-Storage for Pond 3P: DETENTION POND

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
384.50	724	0
384.55	750	37
384.60	776	75
384.65	803	114
384.70	829	155
384.75	855	197
384.80	881	241
384.85	907	285
384.90	934	332
384.95	960	379
385.00	986	428
385.05	1,000	477
385.10	1,015	528
385.15	1,029	579
385.20	1,043	630
385.25	1,058	683
385.30	1,072	736
385.35	1,086	790
385.40	1,101	845
385.45	1,115	900
385.50	1,130	956
385.55	1,144	1,013
385.60	1,158	1,071
385.65	1,173	1,129
385.70	1,187	1,188
385.75	1,201	1,248
385.80	1,216	1,308
385.85	1,230	1,369
385.90	1,244	1,431
385.95	1,259	1,494
386.00	1,273	1,557
386.05	1,289	1,621
386.10	1,304	1,686
386.15	1,320	1,751
386.20	1,335	1,818
386.25	1,351	1,885
386.30	1,367	1,953
386.35	1,382	2,022
386.40	1,398	2,091
386.45	1,413	2,161
386.50	1,429	2,233
386.55	1,445	2,304
386.60	1,460	2,377
386.65	1,476	2,450
386.70	1,491	2,525
386.75	1,507	2,600
386.80	1,523	2,675
386.85	1,538	2,752
386.90	1,554	2,829
386.95	1,569	2,907
387.00	**1,585**	**2,986**

Time span=0.00-12.00 hrs, dt=0.01 hrs, 1201 points
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1S: PRE-DEVELOPMENT Runoff Area=46,055 sf 0.00% Impervious Runoff Depth=0.85"
Flow Length=270' Slope=0.0250 '/' Tc=15.5 min C=0.69 Runoff=3.39 cfs 0.075 af

Subcatchment 2S: POST-DEVELOPMENT Runoff Area=46,055 sf 63.15% Impervious Runoff Depth=0.94"
Flow Length=360' Slope=0.0150 '/' Tc=8.8 min C=0.77 Runoff=3.77 cfs 0.083 af

Reach 4R: CURB CUT WIER Avg. Flow Depth=0.23' Max Vel=5.50 fps Inflow=3.77 cfs 0.083 af
n=0.013 L=4.0' S=0.0200 '/' Capacity=12.61 cfs Outflow=3.78 cfs 0.083 af

Pond 3P: DETENTION POND Peak Elev=385.90' Storage=1,433 cf Inflow=3.78 cfs 0.083 af
12.0" Round Culvert n=0.011 L=10.0' S=0.0500 '/' Outflow=2.83 cfs 0.083 af

Total Runoff Area = 2.115 ac Runoff Volume = 0.158 af Average Runoff Depth = 0.89"
68.43% Pervious = 1.447 ac 31.57% Impervious = 0.668 ac

Summary for Subcatchment 1S: PRE-DEVELOPMENT

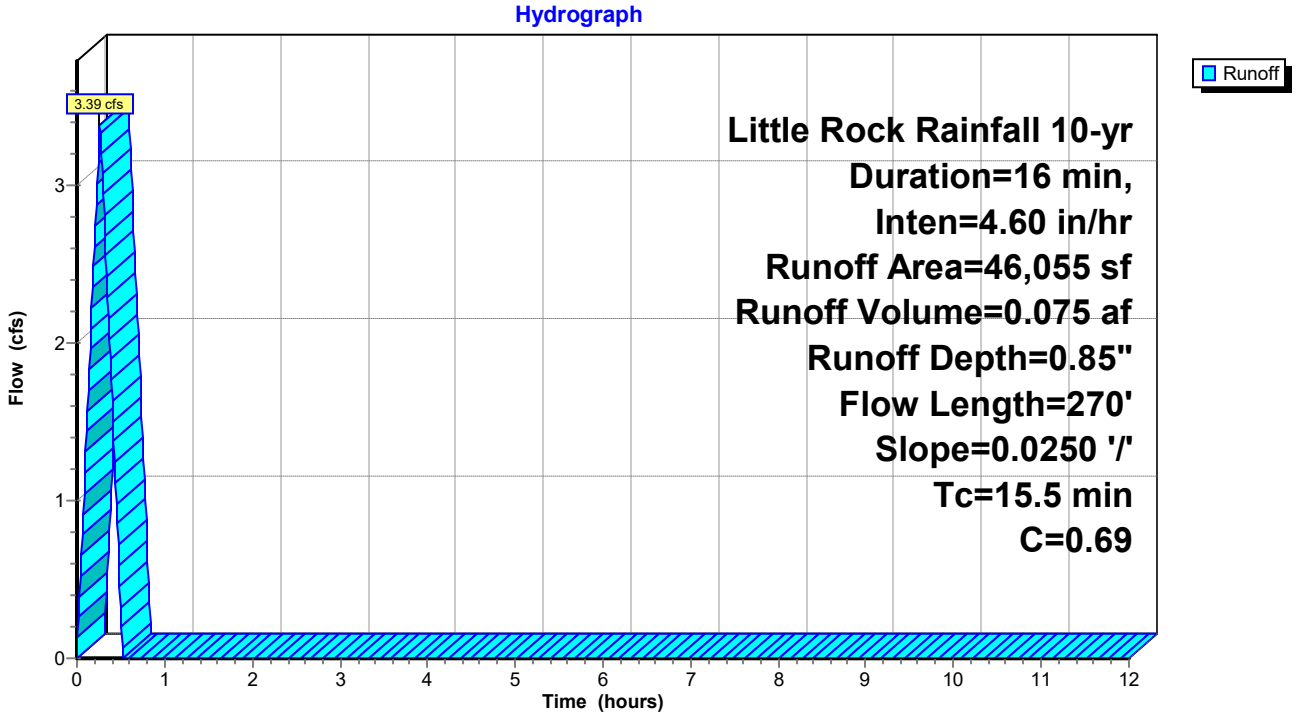
Runoff = 3.39 cfs @ 0.26 hrs, Volume= 0.075 af, Depth= 0.85"

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-12.00 hrs, dt= 0.01 hrs
Little Rock Rainfall 10-yr Duration=16 min, Inten=4.60 in/hr

Area (sf)	C	Description
31,035	0.65	GRAVEL PARKING
15,020	0.77	SHRUB POOR CONDITION BRUSH
46,055	0.69	Weighted Average
46,055		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	270	0.0250	0.29		**Sheet Flow, SHEET FLOW SURFACE** Range n= 0.130 P2= 4.19"

Subcatchment 1S: PRE-DEVELOPMENT



Hydrograph for Subcatchment 1S: PRE-DEVELOPMENT

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	5.10	0.00	10.20	0.00
0.10	1.31	5.20	0.00	10.30	0.00
0.20	**2.62**	5.30	0.00	10.40	0.00
0.30	**2.95**	5.40	0.00	10.50	0.00
0.40	1.64	5.50	0.00	10.60	0.00
0.50	0.33	5.60	0.00	10.70	0.00
0.60	0.00	5.70	0.00	10.80	0.00
0.70	0.00	5.80	0.00	10.90	0.00
0.80	0.00	5.90	0.00	11.00	0.00
0.90	0.00	6.00	0.00	11.10	0.00
1.00	0.00	6.10	0.00	11.20	0.00
1.10	0.00	6.20	0.00	11.30	0.00
1.20	0.00	6.30	0.00	11.40	0.00
1.30	0.00	6.40	0.00	11.50	0.00
1.40	0.00	6.50	0.00	11.60	0.00
1.50	0.00	6.60	0.00	11.70	0.00
1.60	0.00	6.70	0.00	11.80	0.00
1.70	0.00	6.80	0.00	11.90	0.00
1.80	0.00	6.90	0.00	12.00	0.00
1.90	0.00	7.00	0.00		
2.00	0.00	7.10	0.00		
2.10	0.00	7.20	0.00		
2.20	0.00	7.30	0.00		
2.30	0.00	7.40	0.00		
2.40	0.00	7.50	0.00		
2.50	0.00	7.60	0.00		
2.60	0.00	7.70	0.00		
2.70	0.00	7.80	0.00		
2.80	0.00	7.90	0.00		
2.90	0.00	8.00	0.00		
3.00	0.00	8.10	0.00		
3.10	0.00	8.20	0.00		
3.20	0.00	8.30	0.00		
3.30	0.00	8.40	0.00		
3.40	0.00	8.50	0.00		
3.50	0.00	8.60	0.00		
3.60	0.00	8.70	0.00		
3.70	0.00	8.80	0.00		
3.80	0.00	8.90	0.00		
3.90	0.00	9.00	0.00		
4.00	0.00	9.10	0.00		
4.10	0.00	9.20	0.00		
4.20	0.00	9.30	0.00		
4.30	0.00	9.40	0.00		
4.40	0.00	9.50	0.00		
4.50	0.00	9.60	0.00		
4.60	0.00	9.70	0.00		
4.70	0.00	9.80	0.00		
4.80	0.00	9.90	0.00		
4.90	0.00	10.00	0.00		
5.00	0.00	10.10	0.00		

Summary for Subcatchment 2S: POST-DEVELOPMENT

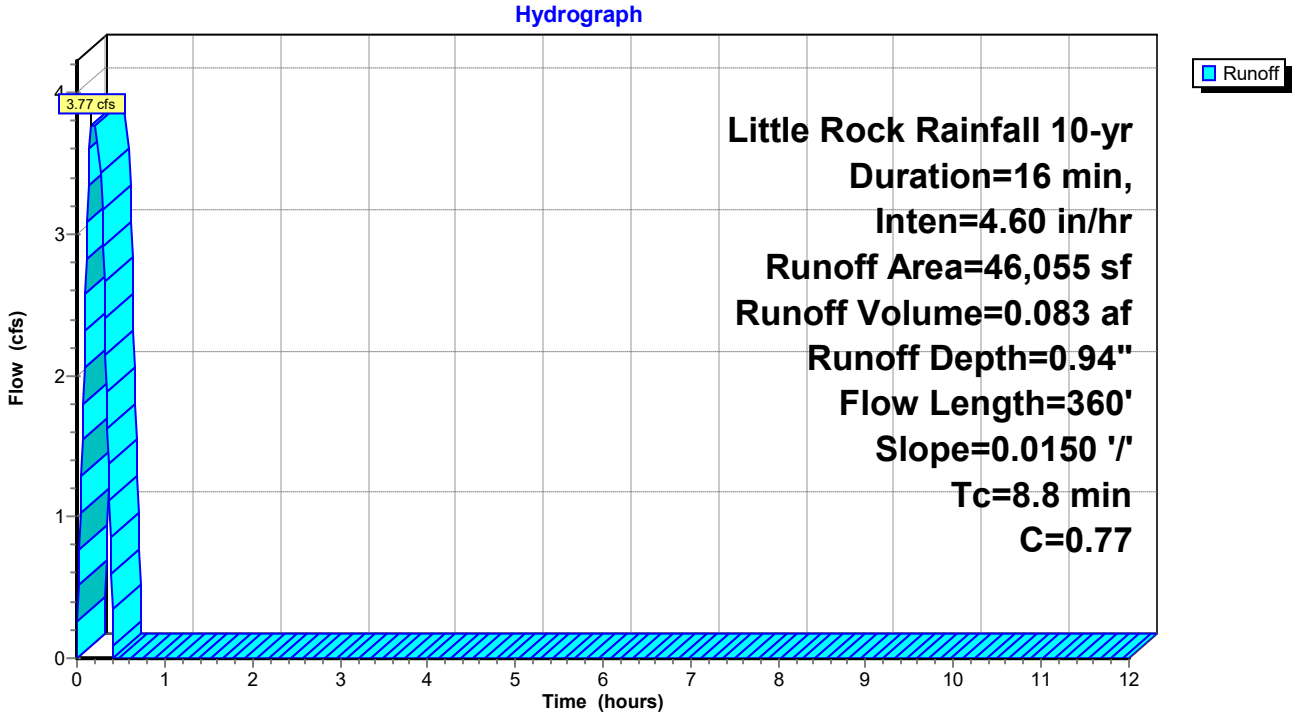
Runoff = 3.77 cfs @ 0.15 hrs, Volume= 0.083 af, Depth= 0.94"
Routed to Reach 4R : CURB CUT WIER

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-12.00 hrs, dt= 0.01 hrs
Little Rock Rainfall 10-yr Duration=16 min, Inten=4.60 in/hr

Area (sf)	C	Description
22,479	0.95	ASPHALT SURFACE
6,603	0.97	ROOF TOP
16,973	0.46	GRASS LANDSCAPING
46,055	0.77	Weighted Average
16,973		36.85% Pervious Area
29,082		63.15% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.7	40	0.0150	0.10		**Sheet Flow, GRASS** Grass: Dense n= 0.240 P2= 4.19"
2.1	320	0.0150	2.49		**Shallow Concentrated Flow, PAVEMENT** Paved Kv= 20.3 fps
8.8	360	Total			

Subcatchment 2S: POST-DEVELOPMENT



Hydrograph for Subcatchment 2S: POST-DEVELOPMENT

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	5.10	0.00	10.20	0.00
0.10	**2.57**	5.20	0.00	10.30	0.00
0.20	**3.77**	5.30	0.00	10.40	0.00
0.30	2.92	5.40	0.00	10.50	0.00
0.40	0.34	5.50	0.00	10.60	0.00
0.50	0.00	5.60	0.00	10.70	0.00
0.60	0.00	5.70	0.00	10.80	0.00
0.70	0.00	5.80	0.00	10.90	0.00
0.80	0.00	5.90	0.00	11.00	0.00
0.90	0.00	6.00	0.00	11.10	0.00
1.00	0.00	6.10	0.00	11.20	0.00
1.10	0.00	6.20	0.00	11.30	0.00
1.20	0.00	6.30	0.00	11.40	0.00
1.30	0.00	6.40	0.00	11.50	0.00
1.40	0.00	6.50	0.00	11.60	0.00
1.50	0.00	6.60	0.00	11.70	0.00
1.60	0.00	6.70	0.00	11.80	0.00
1.70	0.00	6.80	0.00	11.90	0.00
1.80	0.00	6.90	0.00	12.00	0.00
1.90	0.00	7.00	0.00		
2.00	0.00	7.10	0.00		
2.10	0.00	7.20	0.00		
2.20	0.00	7.30	0.00		
2.30	0.00	7.40	0.00		
2.40	0.00	7.50	0.00		
2.50	0.00	7.60	0.00		
2.60	0.00	7.70	0.00		
2.70	0.00	7.80	0.00		
2.80	0.00	7.90	0.00		
2.90	0.00	8.00	0.00		
3.00	0.00	8.10	0.00		
3.10	0.00	8.20	0.00		
3.20	0.00	8.30	0.00		
3.30	0.00	8.40	0.00		
3.40	0.00	8.50	0.00		
3.50	0.00	8.60	0.00		
3.60	0.00	8.70	0.00		
3.70	0.00	8.80	0.00		
3.80	0.00	8.90	0.00		
3.90	0.00	9.00	0.00		
4.00	0.00	9.10	0.00		
4.10	0.00	9.20	0.00		
4.20	0.00	9.30	0.00		
4.30	0.00	9.40	0.00		
4.40	0.00	9.50	0.00		
4.50	0.00	9.60	0.00		
4.60	0.00	9.70	0.00		
4.70	0.00	9.80	0.00		
4.80	0.00	9.90	0.00		
4.90	0.00	10.00	0.00		
5.00	0.00	10.10	0.00		

Summary for Reach 4R: CURB CUT WIER

[88] Warning: Qout>Qin may require smaller dt or Finer Routing

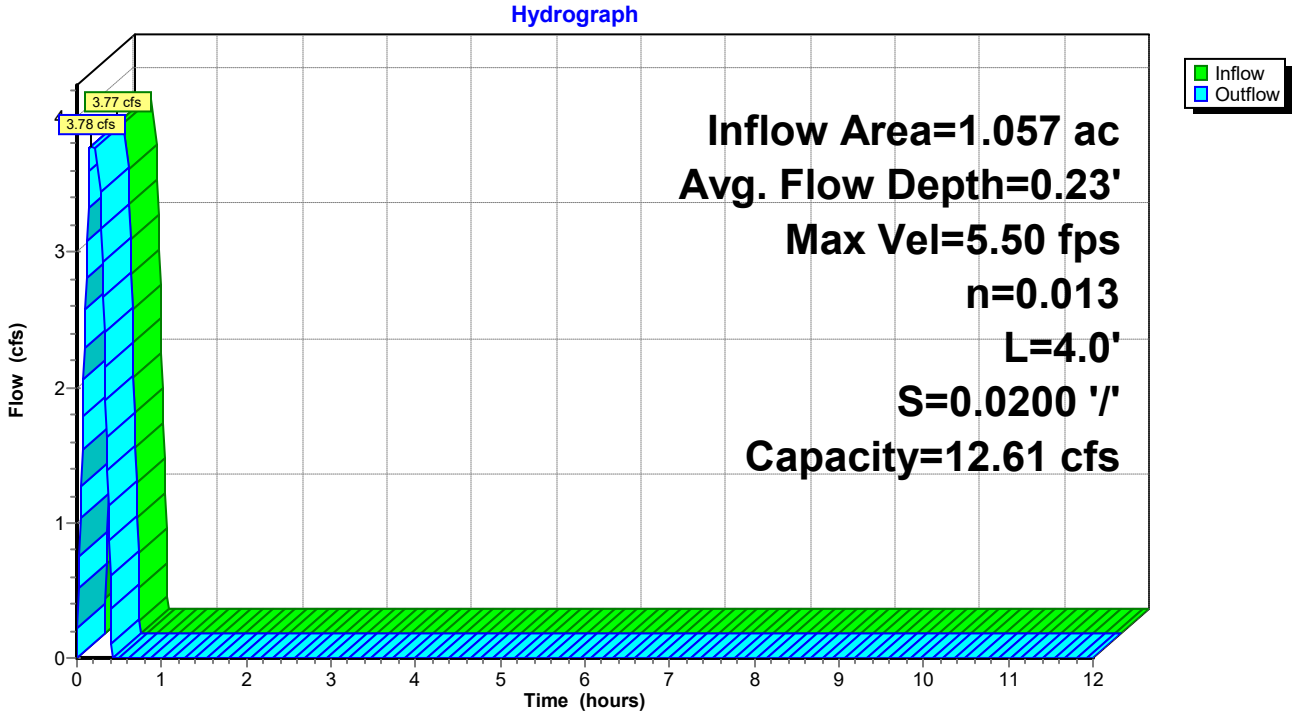
Inflow Area = 1.057 ac, 63.15% Impervious, Inflow Depth = 0.94" for 10-yr event
Inflow = 3.77 cfs @ 0.15 hrs, Volume= 0.083 af
Outflow = 3.78 cfs @ 0.16 hrs, Volume= 0.083 af, Atten= 0%, Lag= 0.6 min
Routed to Pond 3P : DETENTION POND

Routing by Stor-Ind+Trans method, Time Span= 0.00-12.00 hrs, dt= 0.01 hrs
Max. Velocity= 5.50 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 4.37 fps, Avg. Travel Time= 0.0 min

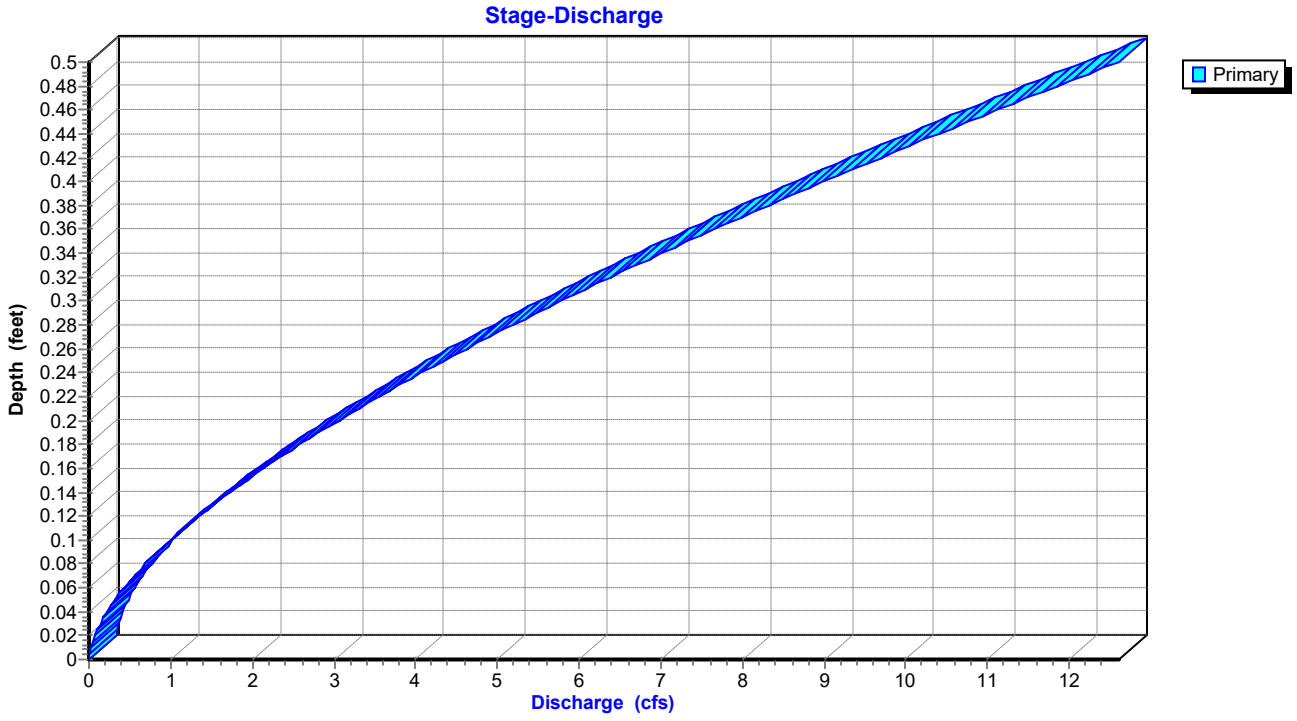
Peak Storage= 3 cf @ 0.16 hrs
Average Depth at Peak Storage= 0.23' , Surface Width= 3.00'
Bank-Full Depth= 0.50' Flow Area= 1.5 sf, Capacity= 12.61 cfs

3.00' x 0.50' deep channel, n= 0.013 Concrete, trowel finish
Length= 4.0' Slope= 0.0200 '/'
Inlet Invert= 387.25', Outlet Invert= 387.17'

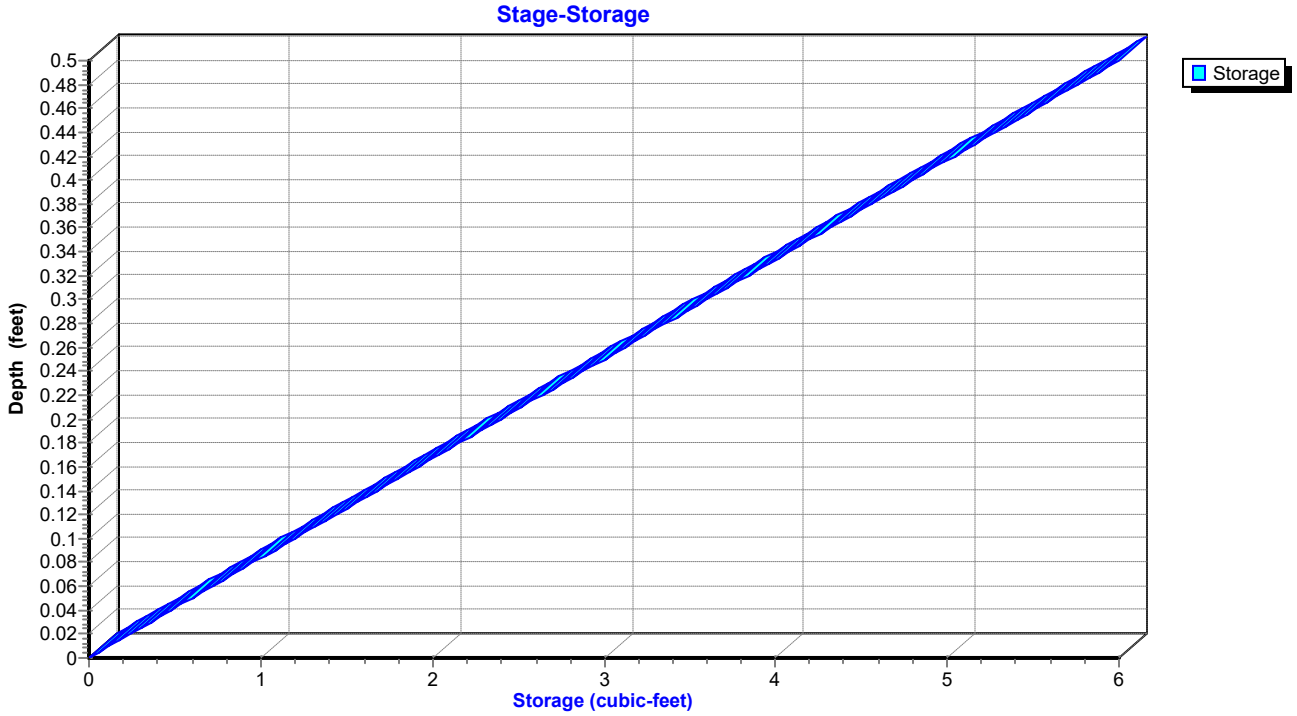
Reach 4R: CURB CUT WIER



Reach 4R: CURB CUT WIER



Reach 4R: CURB CUT WIER



Hydrograph for Reach 4R: CURB CUT WIER

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)
0.00	**0.00**	**0**	**387.25**	**0.00**
0.50	**0.00**	**0**	**387.25**	**0.00**
1.00	0.00	0	387.25	0.00
1.50	0.00	0	387.25	0.00
2.00	0.00	0	387.25	0.00
2.50	0.00	0	387.25	0.00
3.00	0.00	0	387.25	0.00
3.50	0.00	0	387.25	0.00
4.00	0.00	0	387.25	0.00
4.50	0.00	0	387.25	0.00
5.00	0.00	0	387.25	0.00
5.50	0.00	0	387.25	0.00
6.00	0.00	0	387.25	0.00
6.50	0.00	0	387.25	0.00
7.00	0.00	0	387.25	0.00
7.50	0.00	0	387.25	0.00
8.00	0.00	0	387.25	0.00
8.50	0.00	0	387.25	0.00
9.00	0.00	0	387.25	0.00
9.50	0.00	0	387.25	0.00
10.00	0.00	0	387.25	0.00
10.50	0.00	0	387.25	0.00
11.00	0.00	0	387.25	0.00
11.50	0.00	0	387.25	0.00
12.00	0.00	0	387.25	0.00

Stage-Discharge for Reach 4R: CURB CUT WIER

Elevation (feet)	Velocity (ft/sec)	Discharge (cfs)
387.25	0.00	0.00
387.26	0.75	0.02
387.27	1.18	0.07
387.28	1.54	0.14
387.29	1.86	0.22
387.30	2.15	0.32
387.31	2.41	0.43
387.32	2.66	0.56
387.33	2.90	0.70
387.34	3.12	0.84
387.35	3.34	1.00
387.36	3.54	1.17
387.37	3.74	1.35
387.38	3.92	1.53
387.39	4.11	1.72
387.40	4.28	1.93
387.41	4.45	2.14
387.42	4.62	2.36
387.43	4.78	2.58
387.44	4.93	2.81
387.45	5.09	3.05
387.46	5.23	3.30
387.47	5.38	3.55
387.48	5.52	3.81
387.49	5.65	4.07
387.50	5.79	4.34
387.51	5.92	4.62
387.52	6.05	4.90
387.53	6.17	5.19
387.54	6.30	5.48
387.55	6.42	5.77
387.56	6.53	6.08
387.57	6.65	6.38
387.58	6.76	6.69
387.59	6.87	7.01
387.60	6.98	7.33
387.61	7.09	7.65
387.62	7.19	7.98
387.63	7.30	8.32
387.64	7.40	8.65
387.65	7.50	9.00
387.66	7.59	9.34
387.67	7.69	9.69
387.68	7.79	10.04
387.69	7.88	10.40
387.70	7.97	10.76
387.71	8.06	11.12
387.72	8.15	11.49
387.73	8.24	11.86
387.74	8.32	12.23
387.75	**8.41**	**12.61**

Stage-Area-Storage for Reach 4R: CURB CUT WIER

Elevation (feet)	End-Area (sq-ft)	Storage (cubic-feet)
387.25	0.0	0
387.26	0.0	0
387.27	0.1	0
387.28	0.1	0
387.29	0.1	0
387.30	0.2	1
387.31	0.2	1
387.32	0.2	1
387.33	0.2	1
387.34	0.3	1
387.35	0.3	1
387.36	0.3	1
387.37	0.4	1
387.38	0.4	2
387.39	0.4	2
387.40	0.4	2
387.41	0.5	2
387.42	0.5	2
387.43	0.5	2
387.44	0.6	2
387.45	0.6	2
387.46	0.6	3
387.47	0.7	3
387.48	0.7	3
387.49	0.7	3
387.50	0.8	3
387.51	0.8	3
387.52	0.8	3
387.53	0.8	3
387.54	0.9	3
387.55	0.9	4
387.56	0.9	4
387.57	1.0	4
387.58	1.0	4
387.59	1.0	4
387.60	1.1	4
387.61	1.1	4
387.62	1.1	4
387.63	1.1	5
387.64	1.2	5
387.65	1.2	5
387.66	1.2	5
387.67	1.3	5
387.68	1.3	5
387.69	1.3	5
387.70	1.4	5
387.71	1.4	6
387.72	1.4	6
387.73	1.4	6
387.74	1.5	6
387.75	**1.5**	**6**

Summary for Pond 3P: DETENTION POND

Inflow Area = 1.057 ac, 63.15% Impervious, Inflow Depth = 0.94" for 10-yr event
Inflow = 3.78 cfs @ 0.16 hrs, Volume= 0.083 af
Outflow = 2.83 cfs @ 0.30 hrs, Volume= 0.083 af, Atten= 25%, Lag= 8.6 min
Primary = 2.83 cfs @ 0.30 hrs, Volume= 0.083 af

Routing by Stor-Ind method, Time Span= 0.00-12.00 hrs, dt= 0.01 hrs
Peak Elev= 385.90' @ 0.30 hrs Surf.Area= 1,245 sf Storage= 1,433 cf

Plug-Flow detention time= 9.9 min calculated for 0.083 af (100% of inflow)
Center-of-Mass det. time= 10.3 min (22.7 - 12.4)

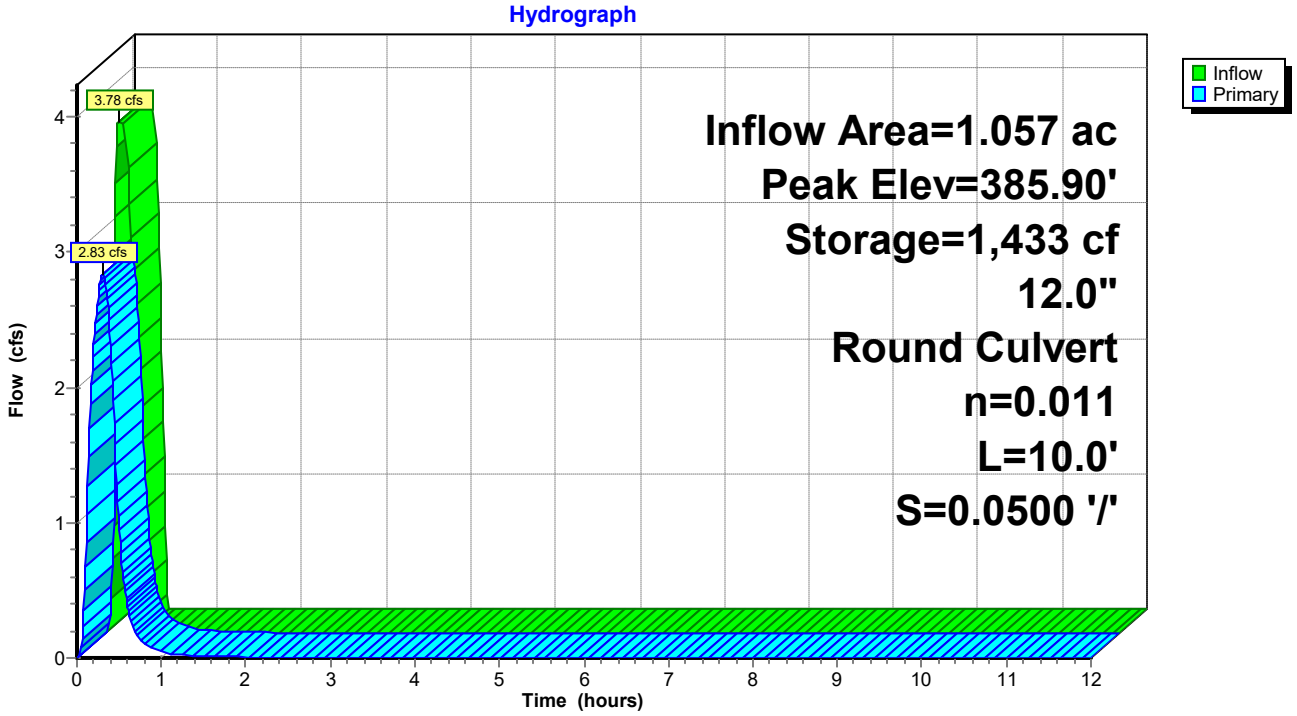
Volume	Invert	Avail.Storage	Storage Description
#1	384.50'	2,986 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
384.50	724	0	0
385.00	986	428	428
386.00	1,273	1,130	1,557
387.00	1,585	1,429	2,986

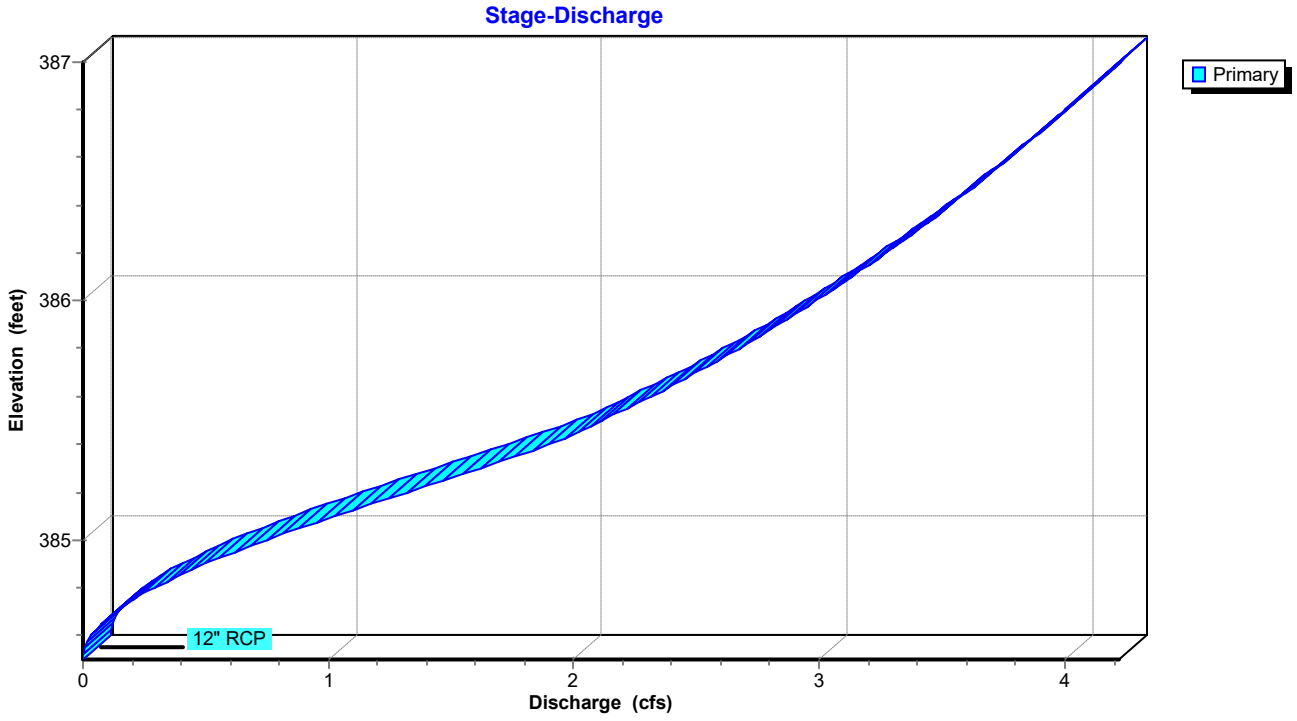
Device	Routing	Invert	Outlet Devices
#1	Primary	384.50'	**12.0" Round 12" RCP** L= 10.0' CMP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 384.50' / 384.00' S= 0.0500 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=2.83 cfs @ 0.30 hrs HW=385.90' (Free Discharge)
↑**1=12" RCP** (Inlet Controls 2.83 cfs @ 3.61 fps)

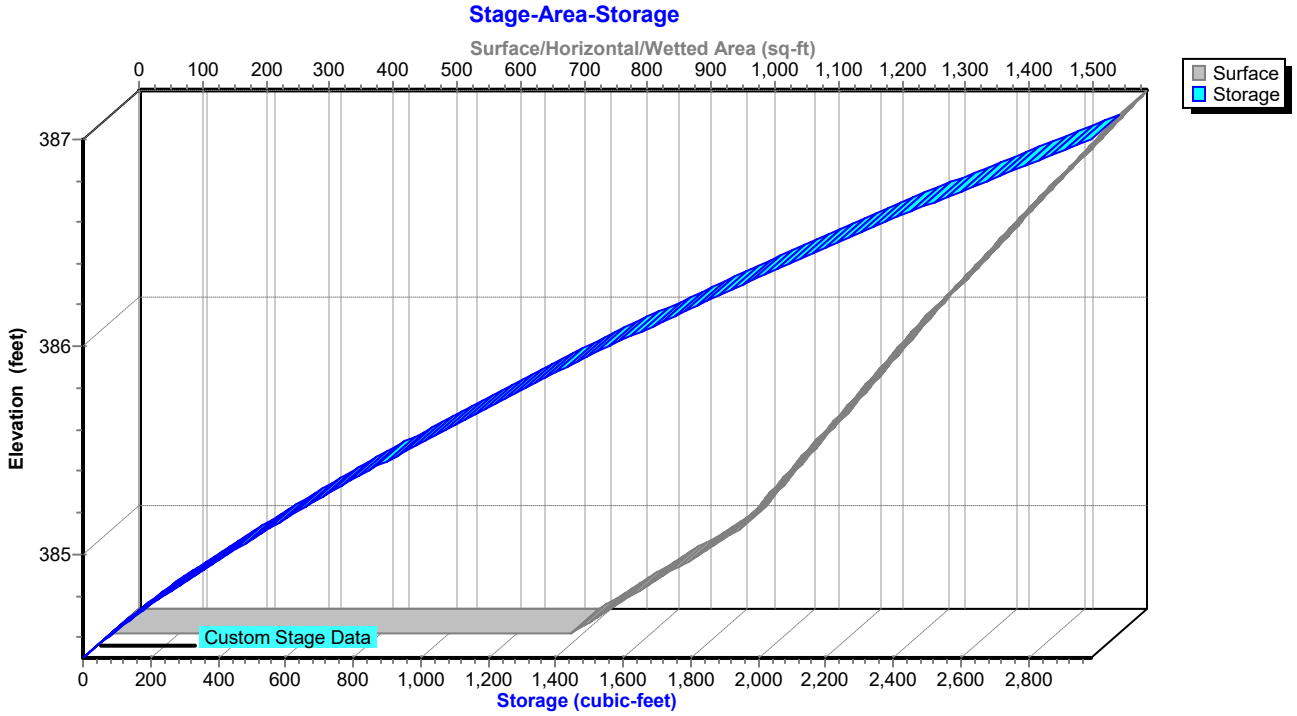
Pond 3P: DETENTION POND



Pond 3P: DETENTION POND



Pond 3P: DETENTION POND



Hydrograph for Pond 3P: DETENTION POND

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	**0.00**	**0**	**384.50**	**0.00**
0.50	**0.00**	**499**	**385.07**	**0.94**
1.00	0.00	85	384.61	0.04
1.50	0.00	43	384.56	0.01
2.00	0.00	28	384.54	0.01
2.50	0.00	21	384.53	0.00
3.00	0.00	16	384.52	0.00
3.50	0.00	13	384.52	0.00
4.00	0.00	11	384.51	0.00
4.50	0.00	8	384.51	0.00
5.00	0.00	7	384.51	0.00
5.50	0.00	5	384.51	0.00
6.00	0.00	4	384.51	0.00
6.50	0.00	4	384.50	0.00
7.00	0.00	3	384.50	0.00
7.50	0.00	2	384.50	0.00
8.00	0.00	2	384.50	0.00
8.50	0.00	1	384.50	0.00
9.00	0.00	1	384.50	0.00
9.50	0.00	1	384.50	0.00
10.00	0.00	1	384.50	0.00
10.50	0.00	1	384.50	0.00
11.00	0.00	0	384.50	0.00
11.50	0.00	0	384.50	0.00
12.00	0.00	0	384.50	0.00

Stage-Discharge for Pond 3P: DETENTION POND

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
384.50	0.00	385.52	2.15	386.54	3.70
384.52	0.00	385.54	2.19	386.56	3.73
384.54	0.01	385.56	2.23	386.58	3.75
384.56	0.01	385.58	2.27	386.60	3.78
384.58	0.02	385.60	2.31	386.62	3.80
384.60	0.03	385.62	2.35	386.64	3.82
384.62	0.05	385.64	2.39	386.66	3.85
384.64	0.07	385.66	2.43	386.68	3.87
384.66	0.09	385.68	2.46	386.70	3.89
384.68	0.11	385.70	2.50	386.72	3.92
384.70	0.13	385.72	2.53	386.74	3.94
384.72	0.16	385.74	2.57	386.76	3.96
384.74	0.19	385.76	2.60	386.78	3.98
384.76	0.22	385.78	2.64	386.80	4.01
384.78	0.26	385.80	2.67	386.82	4.03
384.80	0.29	385.82	2.70	386.84	4.05
384.82	0.33	385.84	2.74	386.86	4.07
384.84	0.37	385.86	2.77	386.88	4.09
384.86	0.41	385.88	2.80	386.90	4.12
384.88	0.45	385.90	2.83	386.92	4.14
384.90	0.50	385.92	2.86	386.94	4.16
384.92	0.55	385.94	2.89	386.96	4.18
384.94	0.59	385.96	2.93	386.98	4.20
384.96	0.64	385.98	2.96	387.00	**4.22**
384.98	0.69	386.00	2.99		
385.00	0.75	386.02	3.02		
385.02	0.80	386.04	3.04		
385.04	0.85	386.06	3.07		
385.06	0.91	386.08	3.10		
385.08	0.97	386.10	3.13		
385.10	1.02	386.12	3.16		
385.12	1.08	386.14	3.19		
385.14	1.14	386.16	3.22		
385.16	1.20	386.18	3.24		
385.18	1.26	386.20	3.27		
385.20	1.32	386.22	3.30		
385.22	1.38	386.24	3.32		
385.24	1.44	386.26	3.35		
385.26	1.50	386.28	3.38		
385.28	1.56	386.30	3.40		
385.30	1.62	386.32	3.43		
385.32	1.68	386.34	3.46		
385.34	1.74	386.36	3.48		
385.36	1.79	386.38	3.51		
385.38	1.85	386.40	3.53		
385.40	1.90	386.42	3.56		
385.42	1.95	386.44	3.58		
385.44	2.00	386.46	3.61		
385.46	2.04	386.48	3.63		
385.48	2.08	386.50	3.66		
385.50	2.11	386.52	3.68		

Stage-Area-Storage for Pond 3P: DETENTION POND

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
384.50	724	0
384.55	750	37
384.60	776	75
384.65	803	114
384.70	829	155
384.75	855	197
384.80	881	241
384.85	907	285
384.90	934	332
384.95	960	379
385.00	986	428
385.05	1,000	477
385.10	1,015	528
385.15	1,029	579
385.20	1,043	630
385.25	1,058	683
385.30	1,072	736
385.35	1,086	790
385.40	1,101	845
385.45	1,115	900
385.50	1,130	956
385.55	1,144	1,013
385.60	1,158	1,071
385.65	1,173	1,129
385.70	1,187	1,188
385.75	1,201	1,248
385.80	1,216	1,308
385.85	1,230	1,369
385.90	1,244	1,431
385.95	1,259	1,494
386.00	1,273	1,557
386.05	1,289	1,621
386.10	1,304	1,686
386.15	1,320	1,751
386.20	1,335	1,818
386.25	1,351	1,885
386.30	1,367	1,953
386.35	1,382	2,022
386.40	1,398	2,091
386.45	1,413	2,161
386.50	1,429	2,233
386.55	1,445	2,304
386.60	1,460	2,377
386.65	1,476	2,450
386.70	1,491	2,525
386.75	1,507	2,600
386.80	1,523	2,675
386.85	1,538	2,752
386.90	1,554	2,829
386.95	1,569	2,907
387.00	**1,585**	**2,986**

Time span=0.00-12.00 hrs, dt=0.01 hrs, 1201 points
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1S: PRE-DEVELOPMENT Runoff Area=46,055 sf 0.00% Impervious Runoff Depth=0.97"
Flow Length=270' Slope=0.0250 '/' Tc=15.5 min C=0.69 Runoff=3.90 cfs 0.086 af

Subcatchment 2S: POST-DEVELOPMENT Runoff Area=46,055 sf 63.15% Impervious Runoff Depth=1.09"
Flow Length=360' Slope=0.0150 '/' Tc=8.8 min C=0.77 Runoff=4.35 cfs 0.096 af

Reach 4R: CURB CUT WIER Avg. Flow Depth=0.25' Max Vel=5.80 fps Inflow=4.35 cfs 0.096 af
n=0.013 L=4.0' S=0.0200 '/' Capacity=12.61 cfs Outflow=4.36 cfs 0.096 af

Pond 3P: DETENTION POND Peak Elev=386.11' Storage=1,698 cf Inflow=4.36 cfs 0.096 af
12.0" Round Culvert n=0.011 L=10.0' S=0.0500 '/' Outflow=3.14 cfs 0.096 af

Total Runoff Area = 2.115 ac Runoff Volume = 0.182 af Average Runoff Depth = 1.03"
68.43% Pervious = 1.447 ac 31.57% Impervious = 0.668 ac

Summary for Subcatchment 1S: PRE-DEVELOPMENT

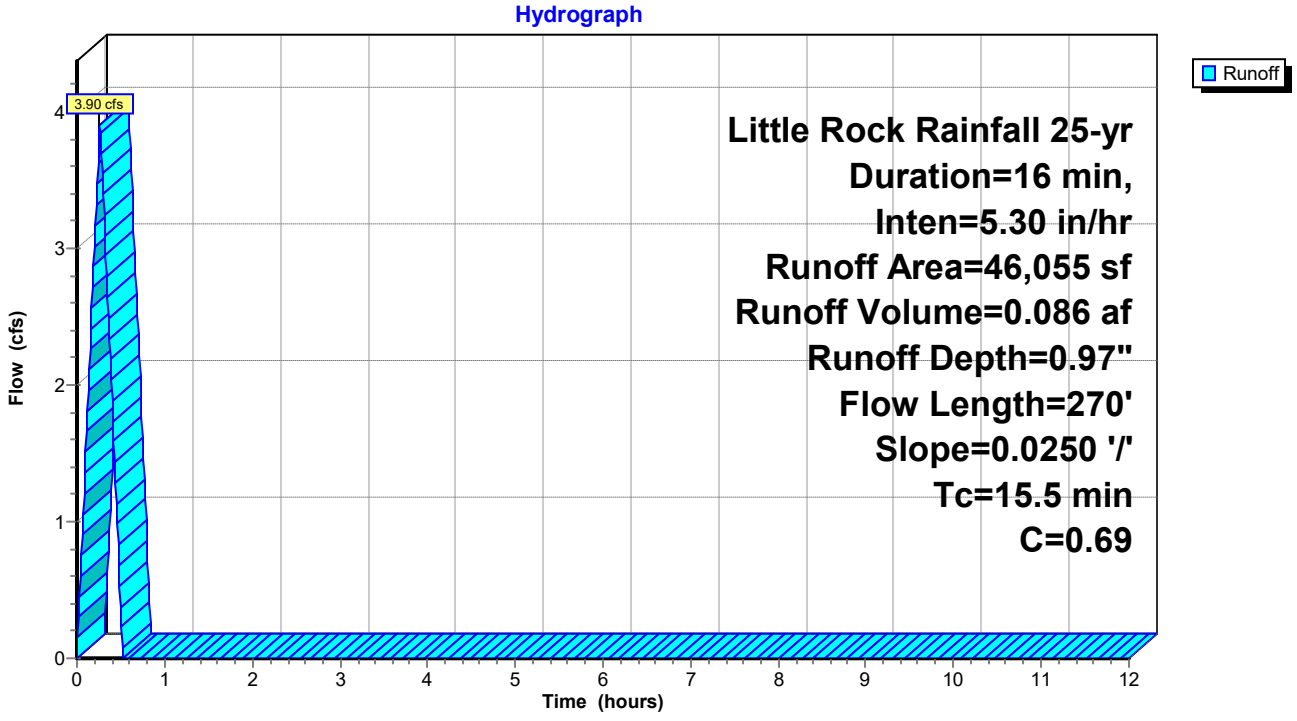
Runoff = 3.90 cfs @ 0.26 hrs, Volume= 0.086 af, Depth= 0.97"

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-12.00 hrs, dt= 0.01 hrs
Little Rock Rainfall 25-yr Duration=16 min, Inten=5.30 in/hr

Area (sf)	C	Description
31,035	0.65	GRAVEL PARKING
15,020	0.77	SHRUB POOR CONDITION BRUSH
46,055	0.69	Weighted Average
46,055		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	270	0.0250	0.29		**Sheet Flow, SHEET FLOW SURFACE** Range n= 0.130 P2= 4.19"

Subcatchment 1S: PRE-DEVELOPMENT



Hydrograph for Subcatchment 1S: PRE-DEVELOPMENT

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	5.10	0.00	10.20	0.00
0.10	1.51	5.20	0.00	10.30	0.00
0.20	**3.02**	5.30	0.00	10.40	0.00
0.30	**3.39**	5.40	0.00	10.50	0.00
0.40	1.89	5.50	0.00	10.60	0.00
0.50	0.38	5.60	0.00	10.70	0.00
0.60	0.00	5.70	0.00	10.80	0.00
0.70	0.00	5.80	0.00	10.90	0.00
0.80	0.00	5.90	0.00	11.00	0.00
0.90	0.00	6.00	0.00	11.10	0.00
1.00	0.00	6.10	0.00	11.20	0.00
1.10	0.00	6.20	0.00	11.30	0.00
1.20	0.00	6.30	0.00	11.40	0.00
1.30	0.00	6.40	0.00	11.50	0.00
1.40	0.00	6.50	0.00	11.60	0.00
1.50	0.00	6.60	0.00	11.70	0.00
1.60	0.00	6.70	0.00	11.80	0.00
1.70	0.00	6.80	0.00	11.90	0.00
1.80	0.00	6.90	0.00	12.00	0.00
1.90	0.00	7.00	0.00		
2.00	0.00	7.10	0.00		
2.10	0.00	7.20	0.00		
2.20	0.00	7.30	0.00		
2.30	0.00	7.40	0.00		
2.40	0.00	7.50	0.00		
2.50	0.00	7.60	0.00		
2.60	0.00	7.70	0.00		
2.70	0.00	7.80	0.00		
2.80	0.00	7.90	0.00		
2.90	0.00	8.00	0.00		
3.00	0.00	8.10	0.00		
3.10	0.00	8.20	0.00		
3.20	0.00	8.30	0.00		
3.30	0.00	8.40	0.00		
3.40	0.00	8.50	0.00		
3.50	0.00	8.60	0.00		
3.60	0.00	8.70	0.00		
3.70	0.00	8.80	0.00		
3.80	0.00	8.90	0.00		
3.90	0.00	9.00	0.00		
4.00	0.00	9.10	0.00		
4.10	0.00	9.20	0.00		
4.20	0.00	9.30	0.00		
4.30	0.00	9.40	0.00		
4.40	0.00	9.50	0.00		
4.50	0.00	9.60	0.00		
4.60	0.00	9.70	0.00		
4.70	0.00	9.80	0.00		
4.80	0.00	9.90	0.00		
4.90	0.00	10.00	0.00		
5.00	0.00	10.10	0.00		

Summary for Subcatchment 2S: POST-DEVELOPMENT

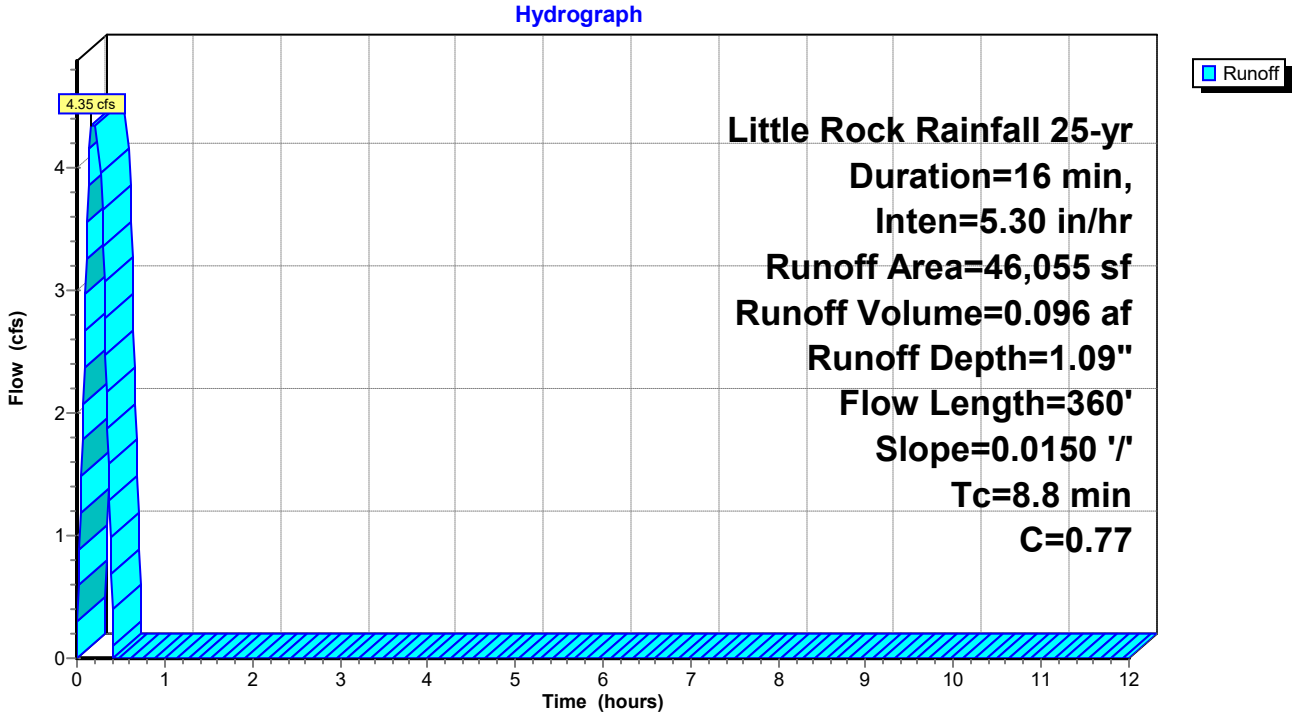
Runoff = 4.35 cfs @ 0.15 hrs, Volume= 0.096 af, Depth= 1.09"
Routed to Reach 4R : CURB CUT WIER

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-12.00 hrs, dt= 0.01 hrs
Little Rock Rainfall 25-yr Duration=16 min, Inten=5.30 in/hr

Area (sf)	C	Description
22,479	0.95	ASPHALT SURFACE
6,603	0.97	ROOF TOP
16,973	0.46	GRASS LANDSCAPING
46,055	0.77	Weighted Average
16,973		36.85% Pervious Area
29,082		63.15% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.7	40	0.0150	0.10		**Sheet Flow, GRASS** Grass: Dense n= 0.240 P2= 4.19"
2.1	320	0.0150	2.49		**Shallow Concentrated Flow, PAVEMENT** Paved Kv= 20.3 fps
8.8	360	Total			

Subcatchment 2S: POST-DEVELOPMENT



Hydrograph for Subcatchment 2S: POST-DEVELOPMENT

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	5.10	0.00	10.20	0.00
0.10	**2.97**	5.20	0.00	10.30	0.00
0.20	**4.35**	5.30	0.00	10.40	0.00
0.30	3.36	5.40	0.00	10.50	0.00
0.40	0.40	5.50	0.00	10.60	0.00
0.50	0.00	5.60	0.00	10.70	0.00
0.60	0.00	5.70	0.00	10.80	0.00
0.70	0.00	5.80	0.00	10.90	0.00
0.80	0.00	5.90	0.00	11.00	0.00
0.90	0.00	6.00	0.00	11.10	0.00
1.00	0.00	6.10	0.00	11.20	0.00
1.10	0.00	6.20	0.00	11.30	0.00
1.20	0.00	6.30	0.00	11.40	0.00
1.30	0.00	6.40	0.00	11.50	0.00
1.40	0.00	6.50	0.00	11.60	0.00
1.50	0.00	6.60	0.00	11.70	0.00
1.60	0.00	6.70	0.00	11.80	0.00
1.70	0.00	6.80	0.00	11.90	0.00
1.80	0.00	6.90	0.00	12.00	0.00
1.90	0.00	7.00	0.00		
2.00	0.00	7.10	0.00		
2.10	0.00	7.20	0.00		
2.20	0.00	7.30	0.00		
2.30	0.00	7.40	0.00		
2.40	0.00	7.50	0.00		
2.50	0.00	7.60	0.00		
2.60	0.00	7.70	0.00		
2.70	0.00	7.80	0.00		
2.80	0.00	7.90	0.00		
2.90	0.00	8.00	0.00		
3.00	0.00	8.10	0.00		
3.10	0.00	8.20	0.00		
3.20	0.00	8.30	0.00		
3.30	0.00	8.40	0.00		
3.40	0.00	8.50	0.00		
3.50	0.00	8.60	0.00		
3.60	0.00	8.70	0.00		
3.70	0.00	8.80	0.00		
3.80	0.00	8.90	0.00		
3.90	0.00	9.00	0.00		
4.00	0.00	9.10	0.00		
4.10	0.00	9.20	0.00		
4.20	0.00	9.30	0.00		
4.30	0.00	9.40	0.00		
4.40	0.00	9.50	0.00		
4.50	0.00	9.60	0.00		
4.60	0.00	9.70	0.00		
4.70	0.00	9.80	0.00		
4.80	0.00	9.90	0.00		
4.90	0.00	10.00	0.00		
5.00	0.00	10.10	0.00		

Summary for Reach 4R: CURB CUT WIER

[88] Warning: Qout>Qin may require smaller dt or Finer Routing

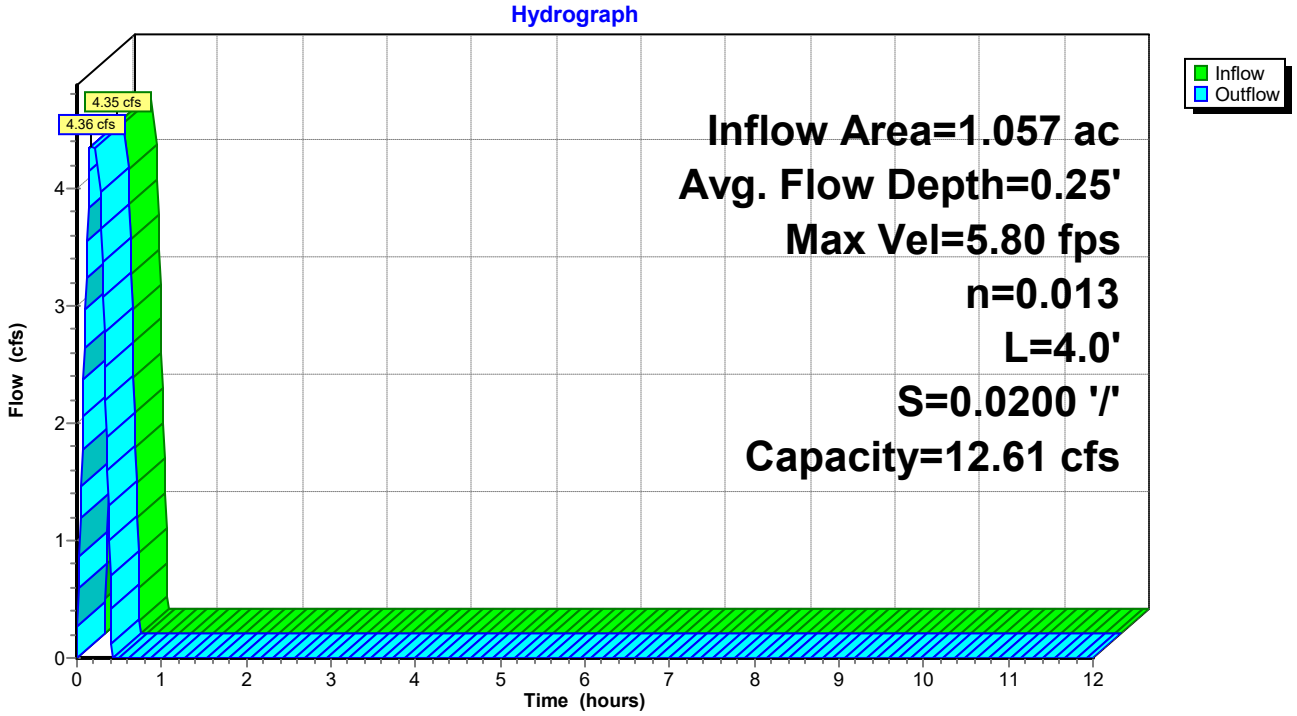
Inflow Area = 1.057 ac, 63.15% Impervious, Inflow Depth = 1.09" for 25-yr event
Inflow = 4.35 cfs @ 0.15 hrs, Volume= 0.096 af
Outflow = 4.36 cfs @ 0.16 hrs, Volume= 0.096 af, Atten= 0%, Lag= 0.6 min
Routed to Pond 3P : DETENTION POND

Routing by Stor-Ind+Trans method, Time Span= 0.00-12.00 hrs, dt= 0.01 hrs
Max. Velocity= 5.80 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 4.60 fps, Avg. Travel Time= 0.0 min

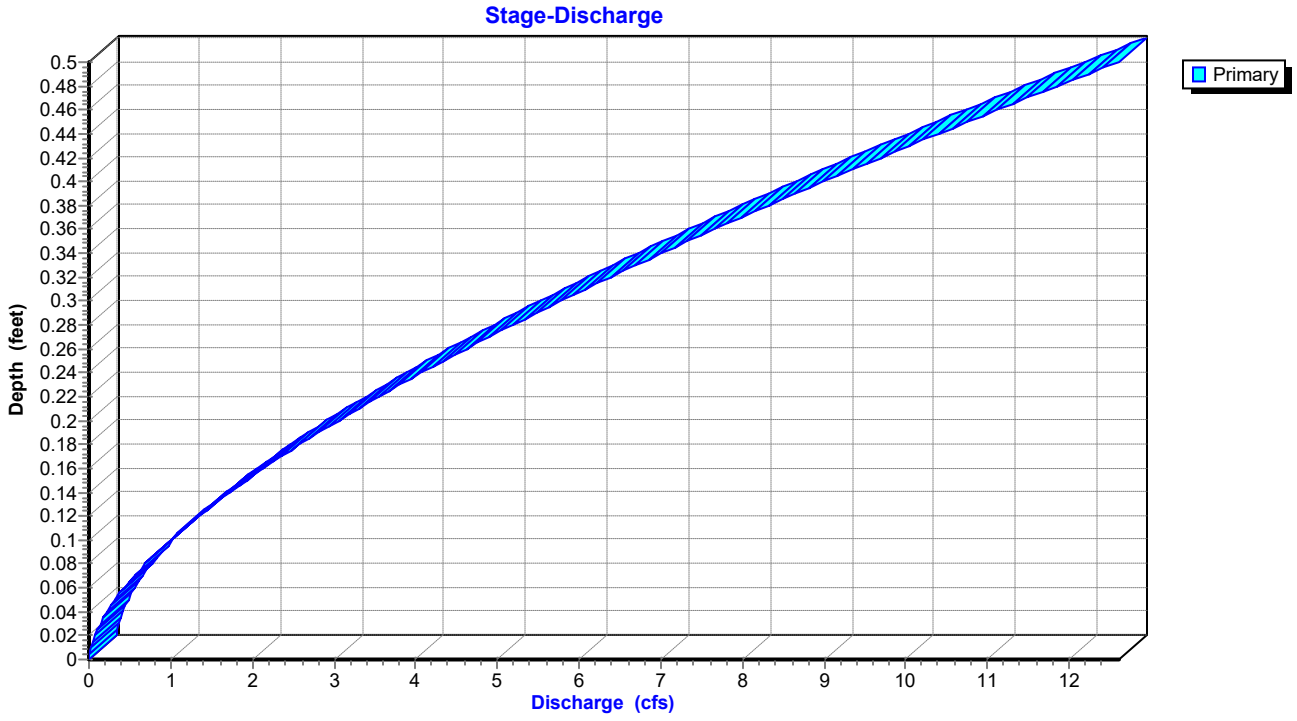
Peak Storage= 3 cf @ 0.16 hrs
Average Depth at Peak Storage= 0.25' , Surface Width= 3.00'
Bank-Full Depth= 0.50' Flow Area= 1.5 sf, Capacity= 12.61 cfs

3.00' x 0.50' deep channel, n= 0.013 Concrete, trowel finish
Length= 4.0' Slope= 0.0200 '/'
Inlet Invert= 387.25', Outlet Invert= 387.17'

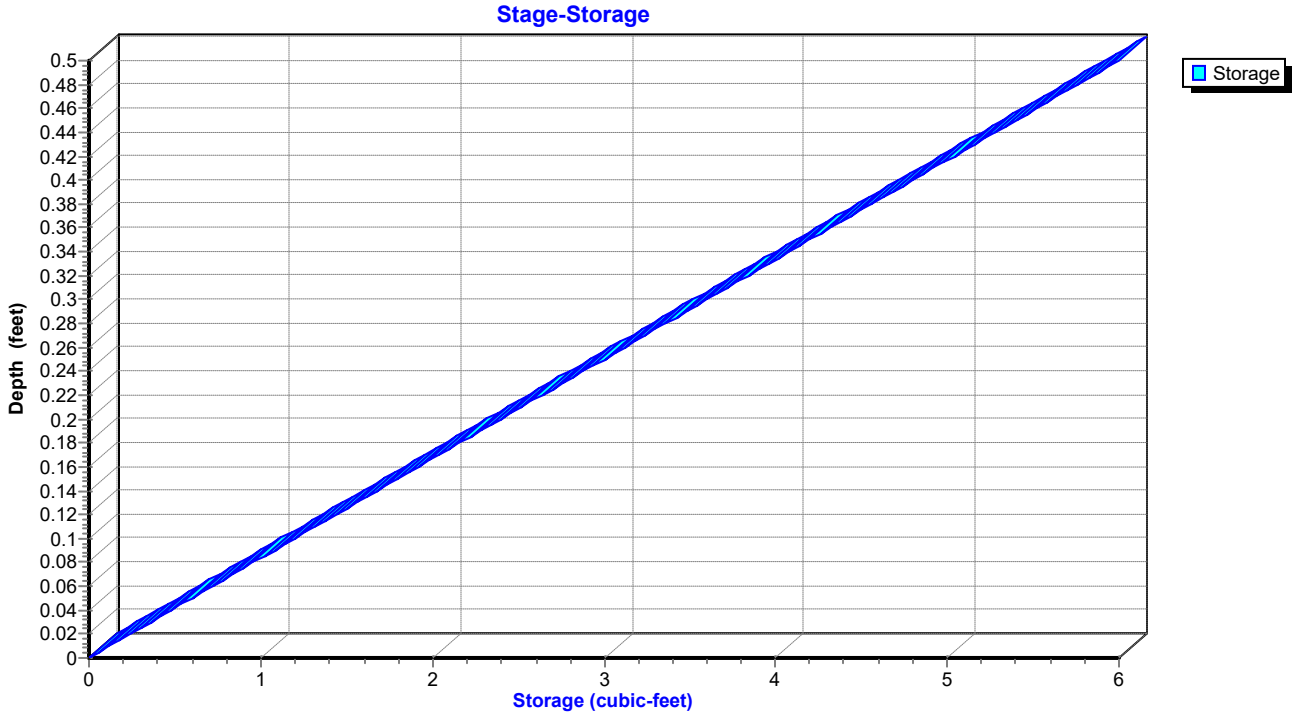
Reach 4R: CURB CUT WIER



Reach 4R: CURB CUT WIER



Reach 4R: CURB CUT WIER



Hydrograph for Reach 4R: CURB CUT WIER

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)
0.00	**0.00**	**0**	**387.25**	**0.00**
0.50	**0.00**	**0**	**387.25**	**0.00**
1.00	0.00	0	387.25	0.00
1.50	0.00	0	387.25	0.00
2.00	0.00	0	387.25	0.00
2.50	0.00	0	387.25	0.00
3.00	0.00	0	387.25	0.00
3.50	0.00	0	387.25	0.00
4.00	0.00	0	387.25	0.00
4.50	0.00	0	387.25	0.00
5.00	0.00	0	387.25	0.00
5.50	0.00	0	387.25	0.00
6.00	0.00	0	387.25	0.00
6.50	0.00	0	387.25	0.00
7.00	0.00	0	387.25	0.00
7.50	0.00	0	387.25	0.00
8.00	0.00	0	387.25	0.00
8.50	0.00	0	387.25	0.00
9.00	0.00	0	387.25	0.00
9.50	0.00	0	387.25	0.00
10.00	0.00	0	387.25	0.00
10.50	0.00	0	387.25	0.00
11.00	0.00	0	387.25	0.00
11.50	0.00	0	387.25	0.00
12.00	0.00	0	387.25	0.00

Stage-Discharge for Reach 4R: CURB CUT WIER

Elevation (feet)	Velocity (ft/sec)	Discharge (cfs)
387.25	0.00	0.00
387.26	0.75	0.02
387.27	1.18	0.07
387.28	1.54	0.14
387.29	1.86	0.22
387.30	2.15	0.32
387.31	2.41	0.43
387.32	2.66	0.56
387.33	2.90	0.70
387.34	3.12	0.84
387.35	3.34	1.00
387.36	3.54	1.17
387.37	3.74	1.35
387.38	3.92	1.53
387.39	4.11	1.72
387.40	4.28	1.93
387.41	4.45	2.14
387.42	4.62	2.36
387.43	4.78	2.58
387.44	4.93	2.81
387.45	5.09	3.05
387.46	5.23	3.30
387.47	5.38	3.55
387.48	5.52	3.81
387.49	5.65	4.07
387.50	5.79	4.34
387.51	5.92	4.62
387.52	6.05	4.90
387.53	6.17	5.19
387.54	6.30	5.48
387.55	6.42	5.77
387.56	6.53	6.08
387.57	6.65	6.38
387.58	6.76	6.69
387.59	6.87	7.01
387.60	6.98	7.33
387.61	7.09	7.65
387.62	7.19	7.98
387.63	7.30	8.32
387.64	7.40	8.65
387.65	7.50	9.00
387.66	7.59	9.34
387.67	7.69	9.69
387.68	7.79	10.04
387.69	7.88	10.40
387.70	7.97	10.76
387.71	8.06	11.12
387.72	8.15	11.49
387.73	8.24	11.86
387.74	8.32	12.23
387.75	**8.41**	**12.61**

Stage-Area-Storage for Reach 4R: CURB CUT WIER

Elevation (feet)	End-Area (sq-ft)	Storage (cubic-feet)
387.25	0.0	0
387.26	0.0	0
387.27	0.1	0
387.28	0.1	0
387.29	0.1	0
387.30	0.2	1
387.31	0.2	1
387.32	0.2	1
387.33	0.2	1
387.34	0.3	1
387.35	0.3	1
387.36	0.3	1
387.37	0.4	1
387.38	0.4	2
387.39	0.4	2
387.40	0.4	2
387.41	0.5	2
387.42	0.5	2
387.43	0.5	2
387.44	0.6	2
387.45	0.6	2
387.46	0.6	3
387.47	0.7	3
387.48	0.7	3
387.49	0.7	3
387.50	0.8	3
387.51	0.8	3
387.52	0.8	3
387.53	0.8	3
387.54	0.9	3
387.55	0.9	4
387.56	0.9	4
387.57	1.0	4
387.58	1.0	4
387.59	1.0	4
387.60	1.1	4
387.61	1.1	4
387.62	1.1	4
387.63	1.1	5
387.64	1.2	5
387.65	1.2	5
387.66	1.2	5
387.67	1.3	5
387.68	1.3	5
387.69	1.3	5
387.70	1.4	5
387.71	1.4	6
387.72	1.4	6
387.73	1.4	6
387.74	1.5	6
387.75	**1.5**	**6**

Summary for Pond 3P: DETENTION POND

Inflow Area = 1.057 ac, 63.15% Impervious, Inflow Depth = 1.09" for 25-yr event
Inflow = 4.36 cfs @ 0.16 hrs, Volume= 0.096 af
Outflow = 3.14 cfs @ 0.31 hrs, Volume= 0.096 af, Atten= 28%, Lag= 8.9 min
Primary = 3.14 cfs @ 0.31 hrs, Volume= 0.096 af

Routing by Stor-Ind method, Time Span= 0.00-12.00 hrs, dt= 0.01 hrs
Peak Elev= 386.11' @ 0.31 hrs Surf.Area= 1,307 sf Storage= 1,698 cf

Plug-Flow detention time= 9.9 min calculated for 0.096 af (100% of inflow)
Center-of-Mass det. time= 10.2 min (22.7 - 12.4)

Volume	Invert	Avail.Storage	Storage Description
#1	384.50'	2,986 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

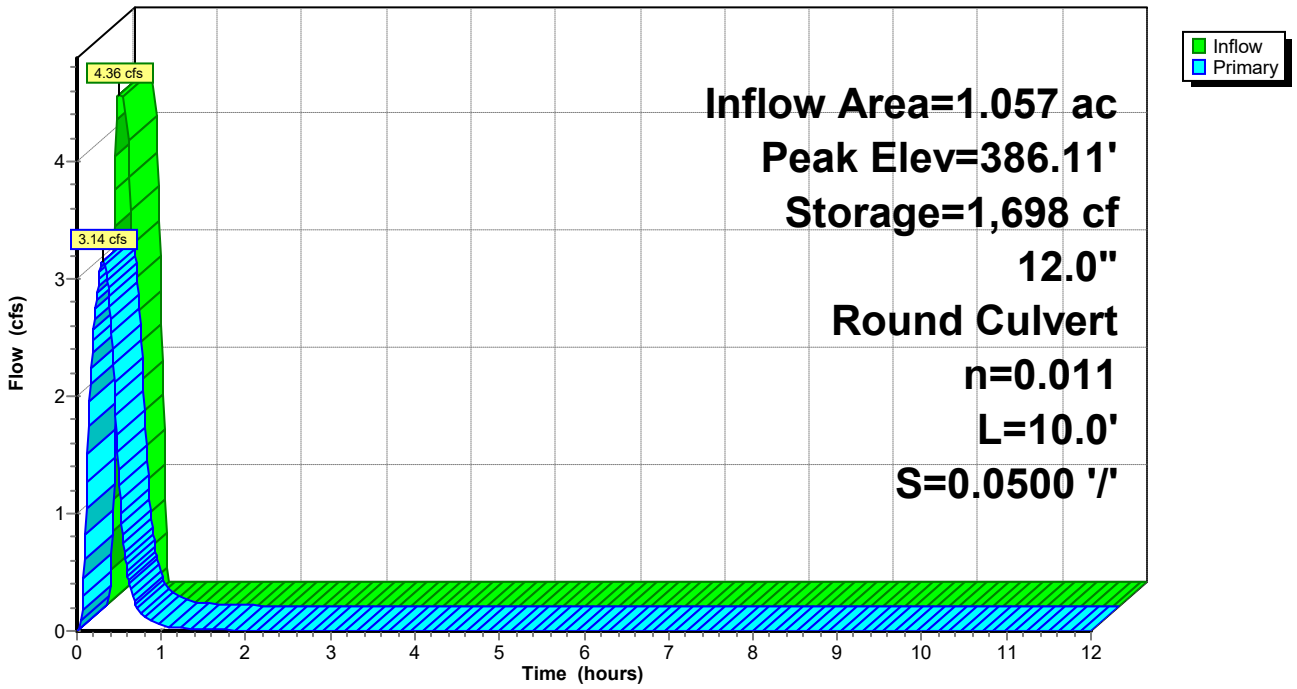
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
384.50	724	0	0
385.00	986	428	428
386.00	1,273	1,130	1,557
387.00	1,585	1,429	2,986

Device	Routing	Invert	Outlet Devices
#1	Primary	384.50'	**12.0" Round 12" RCP** L= 10.0' CMP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 384.50' / 384.00' S= 0.0500 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=3.14 cfs @ 0.31 hrs HW=386.11' (Free Discharge)
↑**1=12" RCP** (Inlet Controls 3.14 cfs @ 4.00 fps)

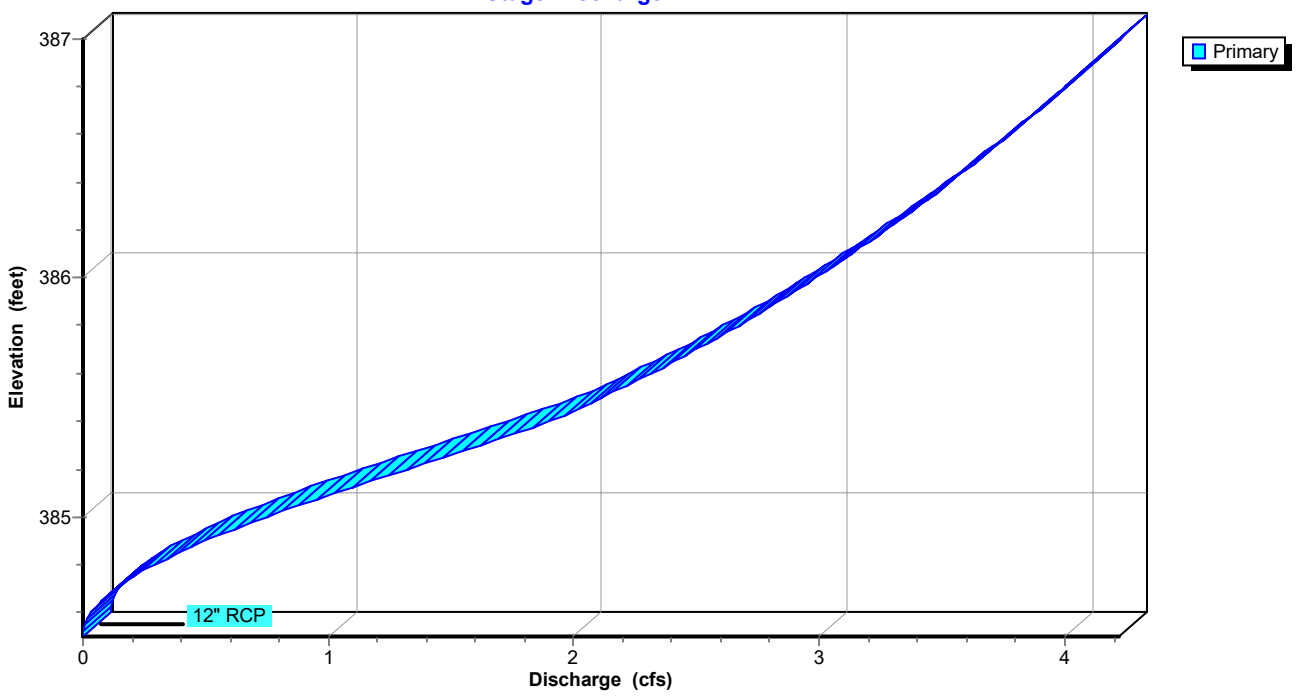
Pond 3P: DETENTION POND

Hydrograph

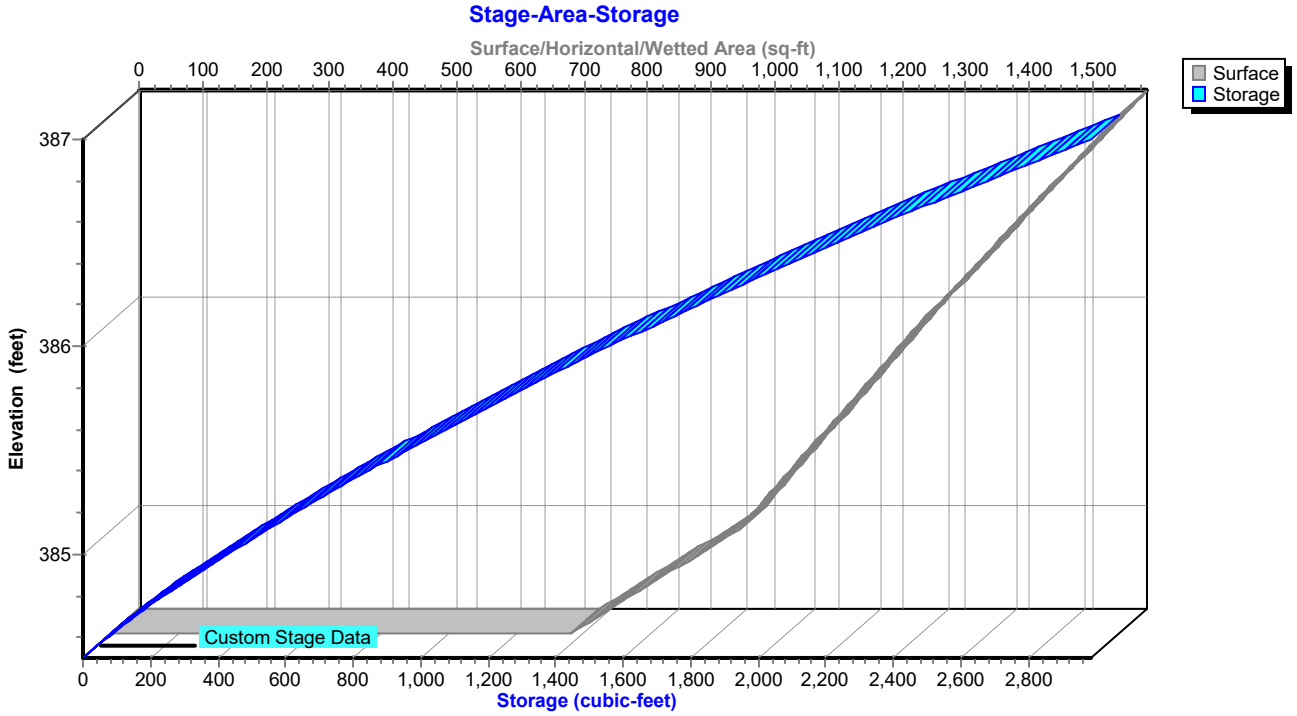


Pond 3P: DETENTION POND

Stage-Discharge



Pond 3P: DETENTION POND



Hydrograph for Pond 3P: DETENTION POND

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	**0.00**	**0**	**384.50**	**0.00**
0.50	**0.00**	**600**	**385.17**	**1.23**
1.00	0.00	90	384.62	0.05
1.50	0.00	44	384.56	0.01
2.00	0.00	29	384.54	0.01
2.50	0.00	21	384.53	0.00
3.00	0.00	16	384.52	0.00
3.50	0.00	13	384.52	0.00
4.00	0.00	11	384.51	0.00
4.50	0.00	9	384.51	0.00
5.00	0.00	7	384.51	0.00
5.50	0.00	6	384.51	0.00
6.00	0.00	4	384.51	0.00
6.50	0.00	4	384.50	0.00
7.00	0.00	3	384.50	0.00
7.50	0.00	2	384.50	0.00
8.00	0.00	2	384.50	0.00
8.50	0.00	1	384.50	0.00
9.00	0.00	1	384.50	0.00
9.50	0.00	1	384.50	0.00
10.00	0.00	1	384.50	0.00
10.50	0.00	1	384.50	0.00
11.00	0.00	0	384.50	0.00
11.50	0.00	0	384.50	0.00
12.00	0.00	0	384.50	0.00

Stage-Discharge for Pond 3P: DETENTION POND

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
384.50	0.00	385.52	2.15	386.54	3.70
384.52	0.00	385.54	2.19	386.56	3.73
384.54	0.01	385.56	2.23	386.58	3.75
384.56	0.01	385.58	2.27	386.60	3.78
384.58	0.02	385.60	2.31	386.62	3.80
384.60	0.03	385.62	2.35	386.64	3.82
384.62	0.05	385.64	2.39	386.66	3.85
384.64	0.07	385.66	2.43	386.68	3.87
384.66	0.09	385.68	2.46	386.70	3.89
384.68	0.11	385.70	2.50	386.72	3.92
384.70	0.13	385.72	2.53	386.74	3.94
384.72	0.16	385.74	2.57	386.76	3.96
384.74	0.19	385.76	2.60	386.78	3.98
384.76	0.22	385.78	2.64	386.80	4.01
384.78	0.26	385.80	2.67	386.82	4.03
384.80	0.29	385.82	2.70	386.84	4.05
384.82	0.33	385.84	2.74	386.86	4.07
384.84	0.37	385.86	2.77	386.88	4.09
384.86	0.41	385.88	2.80	386.90	4.12
384.88	0.45	385.90	2.83	386.92	4.14
384.90	0.50	385.92	2.86	386.94	4.16
384.92	0.55	385.94	2.89	386.96	4.18
384.94	0.59	385.96	2.93	386.98	4.20
384.96	0.64	385.98	2.96	387.00	**4.22**
384.98	0.69	386.00	2.99		
385.00	0.75	386.02	3.02		
385.02	0.80	386.04	3.04		
385.04	0.85	386.06	3.07		
385.06	0.91	386.08	3.10		
385.08	0.97	386.10	3.13		
385.10	1.02	386.12	3.16		
385.12	1.08	386.14	3.19		
385.14	1.14	386.16	3.22		
385.16	1.20	386.18	3.24		
385.18	1.26	386.20	3.27		
385.20	1.32	386.22	3.30		
385.22	1.38	386.24	3.32		
385.24	1.44	386.26	3.35		
385.26	1.50	386.28	3.38		
385.28	1.56	386.30	3.40		
385.30	1.62	386.32	3.43		
385.32	1.68	386.34	3.46		
385.34	1.74	386.36	3.48		
385.36	1.79	386.38	3.51		
385.38	1.85	386.40	3.53		
385.40	1.90	386.42	3.56		
385.42	1.95	386.44	3.58		
385.44	2.00	386.46	3.61		
385.46	2.04	386.48	3.63		
385.48	2.08	386.50	3.66		
385.50	2.11	386.52	3.68		

Stage-Area-Storage for Pond 3P: DETENTION POND

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
384.50	724	0
384.55	750	37
384.60	776	75
384.65	803	114
384.70	829	155
384.75	855	197
384.80	881	241
384.85	907	285
384.90	934	332
384.95	960	379
385.00	986	428
385.05	1,000	477
385.10	1,015	528
385.15	1,029	579
385.20	1,043	630
385.25	1,058	683
385.30	1,072	736
385.35	1,086	790
385.40	1,101	845
385.45	1,115	900
385.50	1,130	956
385.55	1,144	1,013
385.60	1,158	1,071
385.65	1,173	1,129
385.70	1,187	1,188
385.75	1,201	1,248
385.80	1,216	1,308
385.85	1,230	1,369
385.90	1,244	1,431
385.95	1,259	1,494
386.00	1,273	1,557
386.05	1,289	1,621
386.10	1,304	1,686
386.15	1,320	1,751
386.20	1,335	1,818
386.25	1,351	1,885
386.30	1,367	1,953
386.35	1,382	2,022
386.40	1,398	2,091
386.45	1,413	2,161
386.50	1,429	2,233
386.55	1,445	2,304
386.60	1,460	2,377
386.65	1,476	2,450
386.70	1,491	2,525
386.75	1,507	2,600
386.80	1,523	2,675
386.85	1,538	2,752
386.90	1,554	2,829
386.95	1,569	2,907
387.00	**1,585**	**2,986**

Time span=0.00-12.00 hrs, dt=0.01 hrs, 1201 points
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1S: PRE-DEVELOPMENT Runoff Area=46,055 sf 0.00% Impervious Runoff Depth=1.07"
Flow Length=270' Slope=0.0250 '/' Tc=15.5 min C=0.69 Runoff=4.30 cfs 0.095 af

Subcatchment 2S: POST-DEVELOPMENT Runoff Area=46,055 sf 63.15% Impervious Runoff Depth=1.20"
Flow Length=360' Slope=0.0150 '/' Tc=8.8 min C=0.77 Runoff=4.79 cfs 0.106 af

Reach 4R: CURB CUT WIER Avg. Flow Depth=0.27' Max Vel=6.00 fps Inflow=4.79 cfs 0.106 af
n=0.013 L=4.0' S=0.0200 '/' Capacity=12.61 cfs Outflow=4.80 cfs 0.106 af

Pond 3P: DETENTION POND Peak Elev=386.27' Storage=1,914 cf Inflow=4.80 cfs 0.106 af
12.0" Round Culvert n=0.011 L=10.0' S=0.0500 '/' Outflow=3.37 cfs 0.106 af

Total Runoff Area = 2.115 ac Runoff Volume = 0.200 af Average Runoff Depth = 1.14"
68.43% Pervious = 1.447 ac 31.57% Impervious = 0.668 ac

Summary for Subcatchment 1S: PRE-DEVELOPMENT

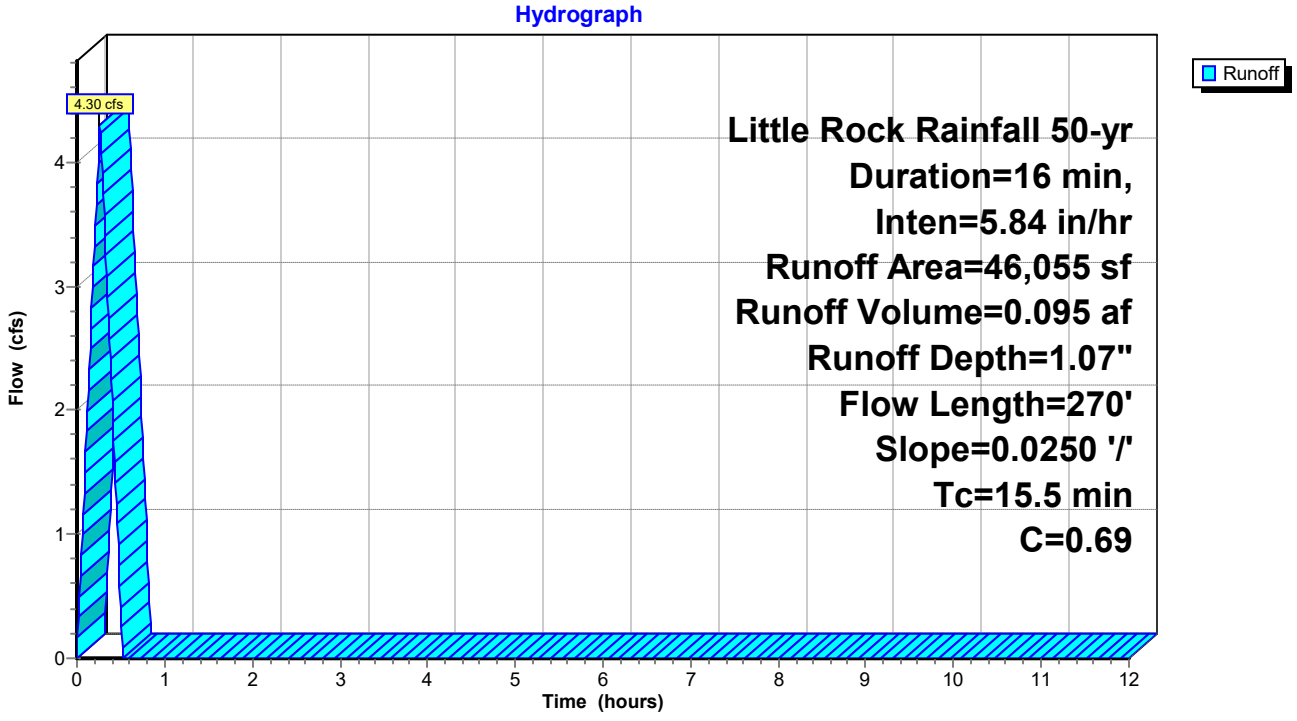
Runoff = 4.30 cfs @ 0.26 hrs, Volume= 0.095 af, Depth= 1.07"

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-12.00 hrs, dt= 0.01 hrs
Little Rock Rainfall 50-yr Duration=16 min, Inten=5.84 in/hr

Area (sf)	C	Description
31,035	0.65	GRAVEL PARKING
15,020	0.77	SHRUB POOR CONDITION BRUSH
46,055	0.69	Weighted Average
46,055		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	270	0.0250	0.29		**Sheet Flow, SHEET FLOW SURFACE** Range n= 0.130 P2= 4.19"

Subcatchment 1S: PRE-DEVELOPMENT



Hydrograph for Subcatchment 1S: PRE-DEVELOPMENT

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	5.10	0.00	10.20	0.00
0.10	1.66	5.20	0.00	10.30	0.00
0.20	**3.33**	5.30	0.00	10.40	0.00
0.30	**3.74**	5.40	0.00	10.50	0.00
0.40	2.08	5.50	0.00	10.60	0.00
0.50	0.42	5.60	0.00	10.70	0.00
0.60	0.00	5.70	0.00	10.80	0.00
0.70	0.00	5.80	0.00	10.90	0.00
0.80	0.00	5.90	0.00	11.00	0.00
0.90	0.00	6.00	0.00	11.10	0.00
1.00	0.00	6.10	0.00	11.20	0.00
1.10	0.00	6.20	0.00	11.30	0.00
1.20	0.00	6.30	0.00	11.40	0.00
1.30	0.00	6.40	0.00	11.50	0.00
1.40	0.00	6.50	0.00	11.60	0.00
1.50	0.00	6.60	0.00	11.70	0.00
1.60	0.00	6.70	0.00	11.80	0.00
1.70	0.00	6.80	0.00	11.90	0.00
1.80	0.00	6.90	0.00	12.00	0.00
1.90	0.00	7.00	0.00		
2.00	0.00	7.10	0.00		
2.10	0.00	7.20	0.00		
2.20	0.00	7.30	0.00		
2.30	0.00	7.40	0.00		
2.40	0.00	7.50	0.00		
2.50	0.00	7.60	0.00		
2.60	0.00	7.70	0.00		
2.70	0.00	7.80	0.00		
2.80	0.00	7.90	0.00		
2.90	0.00	8.00	0.00		
3.00	0.00	8.10	0.00		
3.10	0.00	8.20	0.00		
3.20	0.00	8.30	0.00		
3.30	0.00	8.40	0.00		
3.40	0.00	8.50	0.00		
3.50	0.00	8.60	0.00		
3.60	0.00	8.70	0.00		
3.70	0.00	8.80	0.00		
3.80	0.00	8.90	0.00		
3.90	0.00	9.00	0.00		
4.00	0.00	9.10	0.00		
4.10	0.00	9.20	0.00		
4.20	0.00	9.30	0.00		
4.30	0.00	9.40	0.00		
4.40	0.00	9.50	0.00		
4.50	0.00	9.60	0.00		
4.60	0.00	9.70	0.00		
4.70	0.00	9.80	0.00		
4.80	0.00	9.90	0.00		
4.90	0.00	10.00	0.00		
5.00	0.00	10.10	0.00		

Summary for Subcatchment 2S: POST-DEVELOPMENT

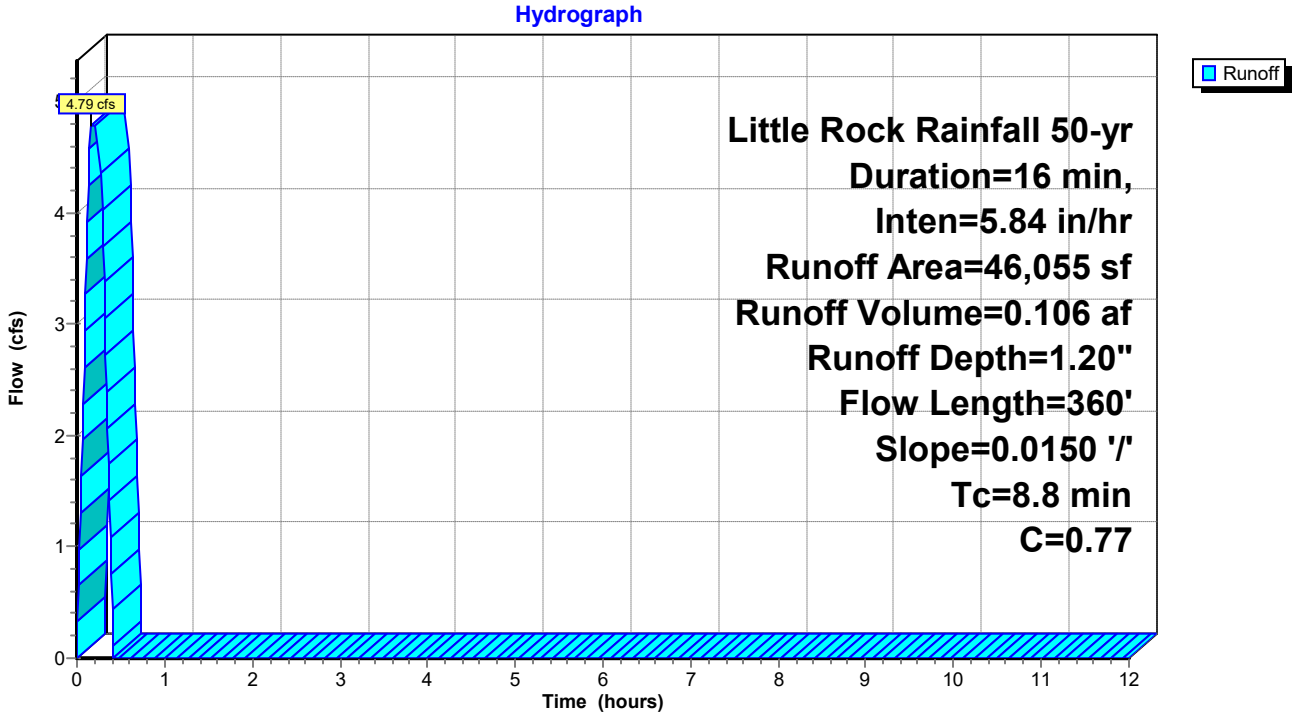
Runoff = 4.79 cfs @ 0.15 hrs, Volume= 0.106 af, Depth= 1.20"
Routed to Reach 4R : CURB CUT WIER

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-12.00 hrs, dt= 0.01 hrs
Little Rock Rainfall 50-yr Duration=16 min, Inten=5.84 in/hr

Area (sf)	C	Description
22,479	0.95	ASPHALT SURFACE
6,603	0.97	ROOF TOP
16,973	0.46	GRASS LANDSCAPING
46,055	0.77	Weighted Average
16,973		36.85% Pervious Area
29,082		63.15% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.7	40	0.0150	0.10		**Sheet Flow, GRASS** Grass: Dense n= 0.240 P2= 4.19"
2.1	320	0.0150	2.49		**Shallow Concentrated Flow, PAVEMENT** Paved Kv= 20.3 fps
8.8	360	Total			

Subcatchment 2S: POST-DEVELOPMENT



Hydrograph for Subcatchment 2S: POST-DEVELOPMENT

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	5.10	0.00	10.20	0.00
0.10	**3.27**	5.20	0.00	10.30	0.00
0.20	**4.79**	5.30	0.00	10.40	0.00
0.30	3.70	5.40	0.00	10.50	0.00
0.40	0.44	5.50	0.00	10.60	0.00
0.50	0.00	5.60	0.00	10.70	0.00
0.60	0.00	5.70	0.00	10.80	0.00
0.70	0.00	5.80	0.00	10.90	0.00
0.80	0.00	5.90	0.00	11.00	0.00
0.90	0.00	6.00	0.00	11.10	0.00
1.00	0.00	6.10	0.00	11.20	0.00
1.10	0.00	6.20	0.00	11.30	0.00
1.20	0.00	6.30	0.00	11.40	0.00
1.30	0.00	6.40	0.00	11.50	0.00
1.40	0.00	6.50	0.00	11.60	0.00
1.50	0.00	6.60	0.00	11.70	0.00
1.60	0.00	6.70	0.00	11.80	0.00
1.70	0.00	6.80	0.00	11.90	0.00
1.80	0.00	6.90	0.00	12.00	0.00
1.90	0.00	7.00	0.00		
2.00	0.00	7.10	0.00		
2.10	0.00	7.20	0.00		
2.20	0.00	7.30	0.00		
2.30	0.00	7.40	0.00		
2.40	0.00	7.50	0.00		
2.50	0.00	7.60	0.00		
2.60	0.00	7.70	0.00		
2.70	0.00	7.80	0.00		
2.80	0.00	7.90	0.00		
2.90	0.00	8.00	0.00		
3.00	0.00	8.10	0.00		
3.10	0.00	8.20	0.00		
3.20	0.00	8.30	0.00		
3.30	0.00	8.40	0.00		
3.40	0.00	8.50	0.00		
3.50	0.00	8.60	0.00		
3.60	0.00	8.70	0.00		
3.70	0.00	8.80	0.00		
3.80	0.00	8.90	0.00		
3.90	0.00	9.00	0.00		
4.00	0.00	9.10	0.00		
4.10	0.00	9.20	0.00		
4.20	0.00	9.30	0.00		
4.30	0.00	9.40	0.00		
4.40	0.00	9.50	0.00		
4.50	0.00	9.60	0.00		
4.60	0.00	9.70	0.00		
4.70	0.00	9.80	0.00		
4.80	0.00	9.90	0.00		
4.90	0.00	10.00	0.00		
5.00	0.00	10.10	0.00		

Summary for Reach 4R: CURB CUT WIER

[88] Warning: Qout>Qin may require smaller dt or Finer Routing

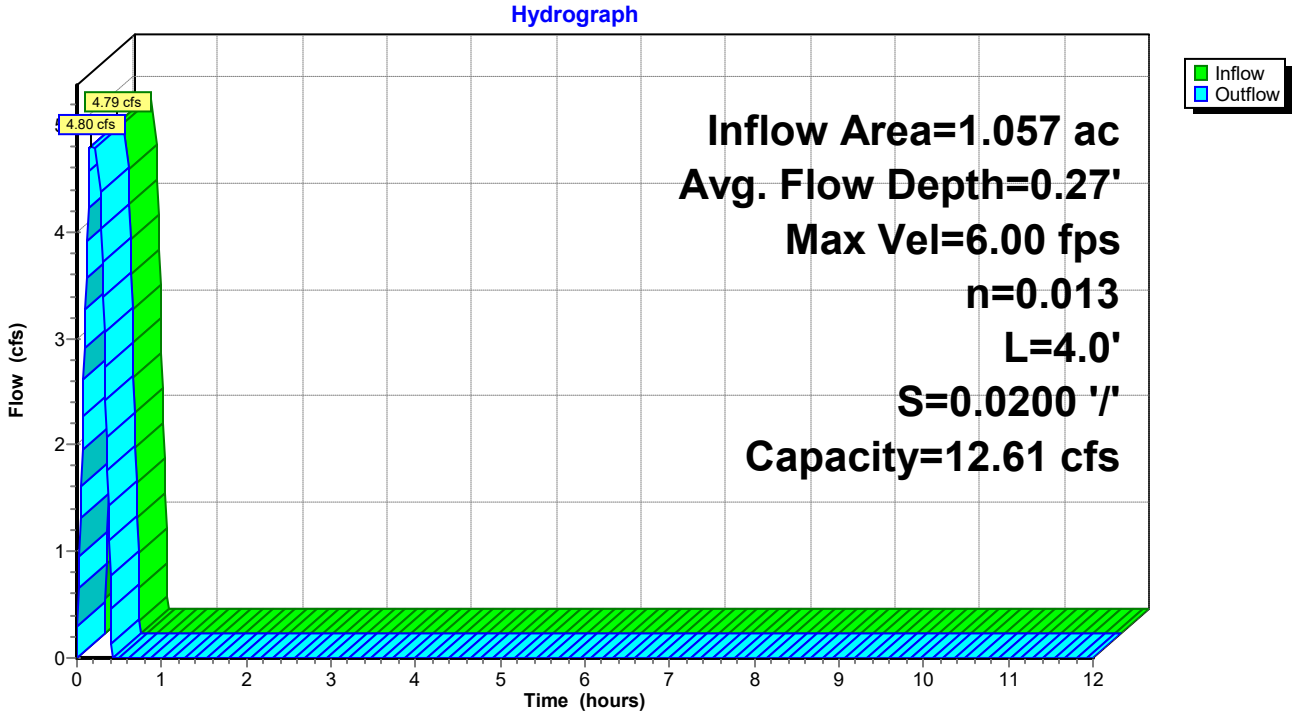
Inflow Area = 1.057 ac, 63.15% Impervious, Inflow Depth = 1.20" for 50-yr event
Inflow = 4.79 cfs @ 0.15 hrs, Volume= 0.106 af
Outflow = 4.80 cfs @ 0.16 hrs, Volume= 0.106 af, Atten= 0%, Lag= 0.6 min
Routed to Pond 3P : DETENTION POND

Routing by Stor-Ind+Trans method, Time Span= 0.00-12.00 hrs, dt= 0.01 hrs
Max. Velocity= 6.00 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 4.77 fps, Avg. Travel Time= 0.0 min

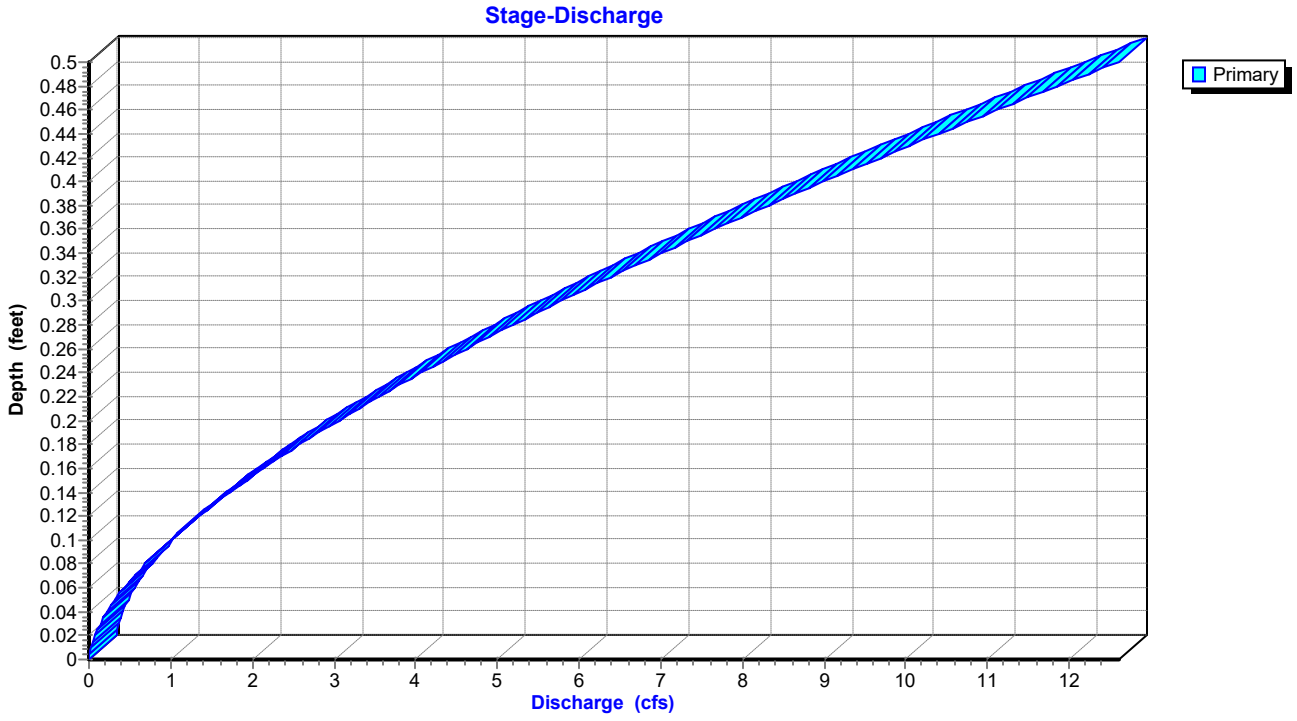
Peak Storage= 3 cf @ 0.16 hrs
Average Depth at Peak Storage= 0.27' , Surface Width= 3.00'
Bank-Full Depth= 0.50' Flow Area= 1.5 sf, Capacity= 12.61 cfs

3.00' x 0.50' deep channel, n= 0.013 Concrete, trowel finish
Length= 4.0' Slope= 0.0200 '/'
Inlet Invert= 387.25', Outlet Invert= 387.17'

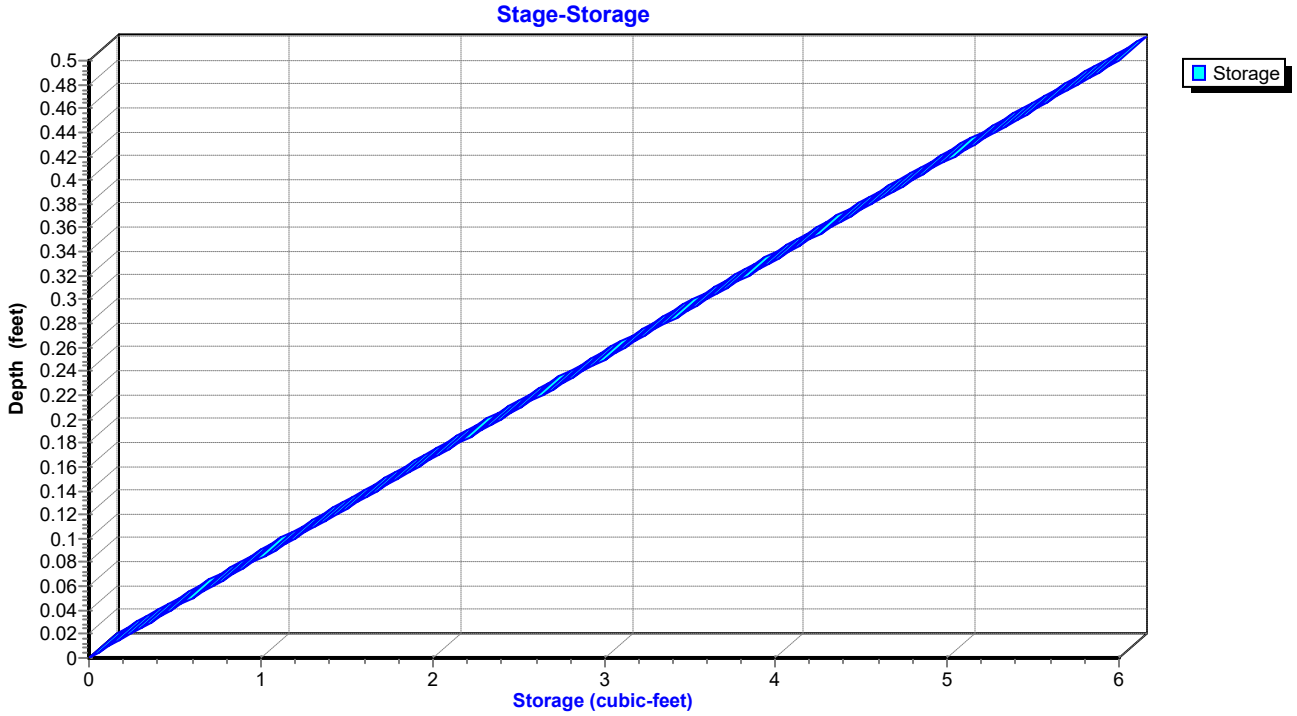
Reach 4R: CURB CUT WIER



Reach 4R: CURB CUT WIER



Reach 4R: CURB CUT WIER



Hydrograph for Reach 4R: CURB CUT WIER

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)
0.00	**0.00**	**0**	**387.25**	**0.00**
0.50	**0.00**	**0**	**387.25**	**0.00**
1.00	0.00	0	387.25	0.00
1.50	0.00	0	387.25	0.00
2.00	0.00	0	387.25	0.00
2.50	0.00	0	387.25	0.00
3.00	0.00	0	387.25	0.00
3.50	0.00	0	387.25	0.00
4.00	0.00	0	387.25	0.00
4.50	0.00	0	387.25	0.00
5.00	0.00	0	387.25	0.00
5.50	0.00	0	387.25	0.00
6.00	0.00	0	387.25	0.00
6.50	0.00	0	387.25	0.00
7.00	0.00	0	387.25	0.00
7.50	0.00	0	387.25	0.00
8.00	0.00	0	387.25	0.00
8.50	0.00	0	387.25	0.00
9.00	0.00	0	387.25	0.00
9.50	0.00	0	387.25	0.00
10.00	0.00	0	387.25	0.00
10.50	0.00	0	387.25	0.00
11.00	0.00	0	387.25	0.00
11.50	0.00	0	387.25	0.00
12.00	0.00	0	387.25	0.00

Stage-Discharge for Reach 4R: CURB CUT WIER

Elevation (feet)	Velocity (ft/sec)	Discharge (cfs)
387.25	0.00	0.00
387.26	0.75	0.02
387.27	1.18	0.07
387.28	1.54	0.14
387.29	1.86	0.22
387.30	2.15	0.32
387.31	2.41	0.43
387.32	2.66	0.56
387.33	2.90	0.70
387.34	3.12	0.84
387.35	3.34	1.00
387.36	3.54	1.17
387.37	3.74	1.35
387.38	3.92	1.53
387.39	4.11	1.72
387.40	4.28	1.93
387.41	4.45	2.14
387.42	4.62	2.36
387.43	4.78	2.58
387.44	4.93	2.81
387.45	5.09	3.05
387.46	5.23	3.30
387.47	5.38	3.55
387.48	5.52	3.81
387.49	5.65	4.07
387.50	5.79	4.34
387.51	5.92	4.62
387.52	6.05	4.90
387.53	6.17	5.19
387.54	6.30	5.48
387.55	6.42	5.77
387.56	6.53	6.08
387.57	6.65	6.38
387.58	6.76	6.69
387.59	6.87	7.01
387.60	6.98	7.33
387.61	7.09	7.65
387.62	7.19	7.98
387.63	7.30	8.32
387.64	7.40	8.65
387.65	7.50	9.00
387.66	7.59	9.34
387.67	7.69	9.69
387.68	7.79	10.04
387.69	7.88	10.40
387.70	7.97	10.76
387.71	8.06	11.12
387.72	8.15	11.49
387.73	8.24	11.86
387.74	8.32	12.23
387.75	**8.41**	**12.61**

Stage-Area-Storage for Reach 4R: CURB CUT WIER

Elevation (feet)	End-Area (sq-ft)	Storage (cubic-feet)
387.25	0.0	0
387.26	0.0	0
387.27	0.1	0
387.28	0.1	0
387.29	0.1	0
387.30	0.2	1
387.31	0.2	1
387.32	0.2	1
387.33	0.2	1
387.34	0.3	1
387.35	0.3	1
387.36	0.3	1
387.37	0.4	1
387.38	0.4	2
387.39	0.4	2
387.40	0.4	2
387.41	0.5	2
387.42	0.5	2
387.43	0.5	2
387.44	0.6	2
387.45	0.6	2
387.46	0.6	3
387.47	0.7	3
387.48	0.7	3
387.49	0.7	3
387.50	0.8	3
387.51	0.8	3
387.52	0.8	3
387.53	0.8	3
387.54	0.9	3
387.55	0.9	4
387.56	0.9	4
387.57	1.0	4
387.58	1.0	4
387.59	1.0	4
387.60	1.1	4
387.61	1.1	4
387.62	1.1	4
387.63	1.1	5
387.64	1.2	5
387.65	1.2	5
387.66	1.2	5
387.67	1.3	5
387.68	1.3	5
387.69	1.3	5
387.70	1.4	5
387.71	1.4	6
387.72	1.4	6
387.73	1.4	6
387.74	1.5	6
387.75	**1.5**	**6**

Summary for Pond 3P: DETENTION POND

Inflow Area = 1.057 ac, 63.15% Impervious, Inflow Depth = 1.20" for 50-yr event
Inflow = 4.80 cfs @ 0.16 hrs, Volume= 0.106 af
Outflow = 3.37 cfs @ 0.31 hrs, Volume= 0.106 af, Atten= 30%, Lag= 9.0 min
Primary = 3.37 cfs @ 0.31 hrs, Volume= 0.106 af

Routing by Stor-Ind method, Time Span= 0.00-12.00 hrs, dt= 0.01 hrs
Peak Elev= 386.27' @ 0.31 hrs Surf.Area= 1,358 sf Storage= 1,914 cf

Plug-Flow detention time= 9.9 min calculated for 0.106 af (100% of inflow)
Center-of-Mass det. time= 10.3 min (22.7 - 12.4)

Volume	Invert	Avail.Storage	Storage Description
#1	384.50'	2,986 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

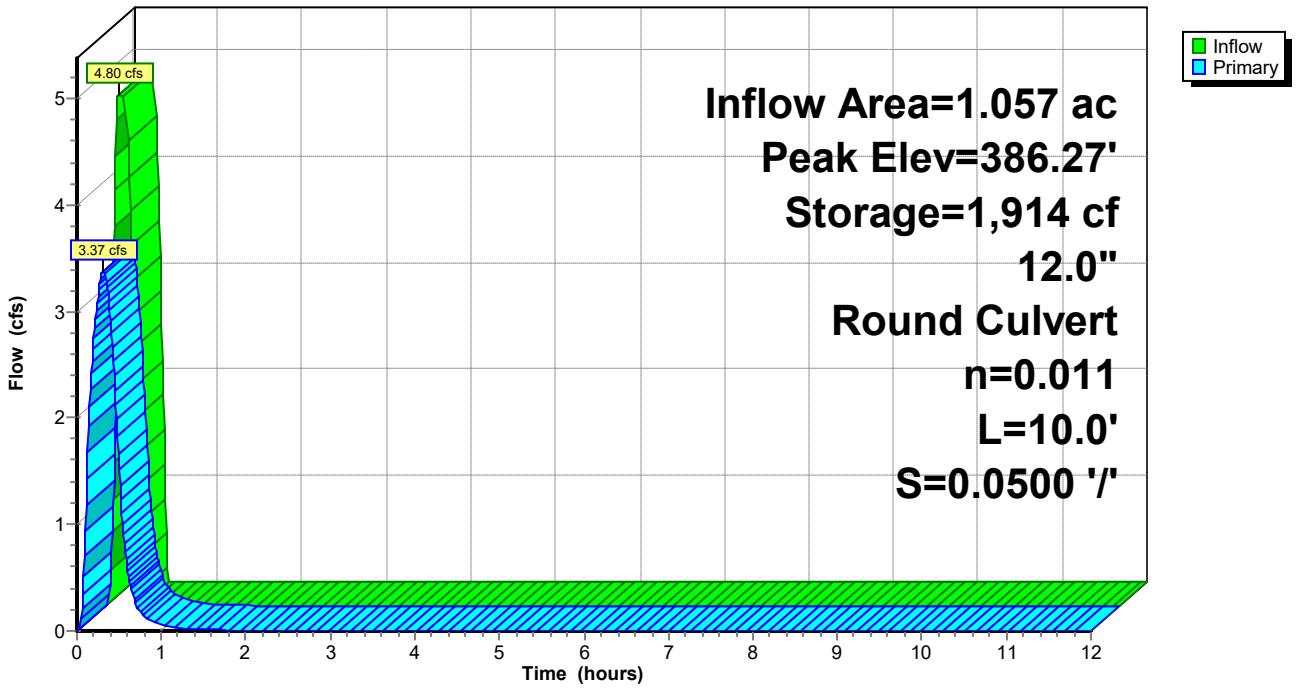
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
384.50	724	0	0
385.00	986	428	428
386.00	1,273	1,130	1,557
387.00	1,585	1,429	2,986

Device	Routing	Invert	Outlet Devices
#1	Primary	384.50'	**12.0" Round 12" RCP** L= 10.0' CMP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 384.50' / 384.00' S= 0.0500 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=3.37 cfs @ 0.31 hrs HW=386.27' (Free Discharge)
↑**1=12" RCP** (Inlet Controls 3.37 cfs @ 4.29 fps)

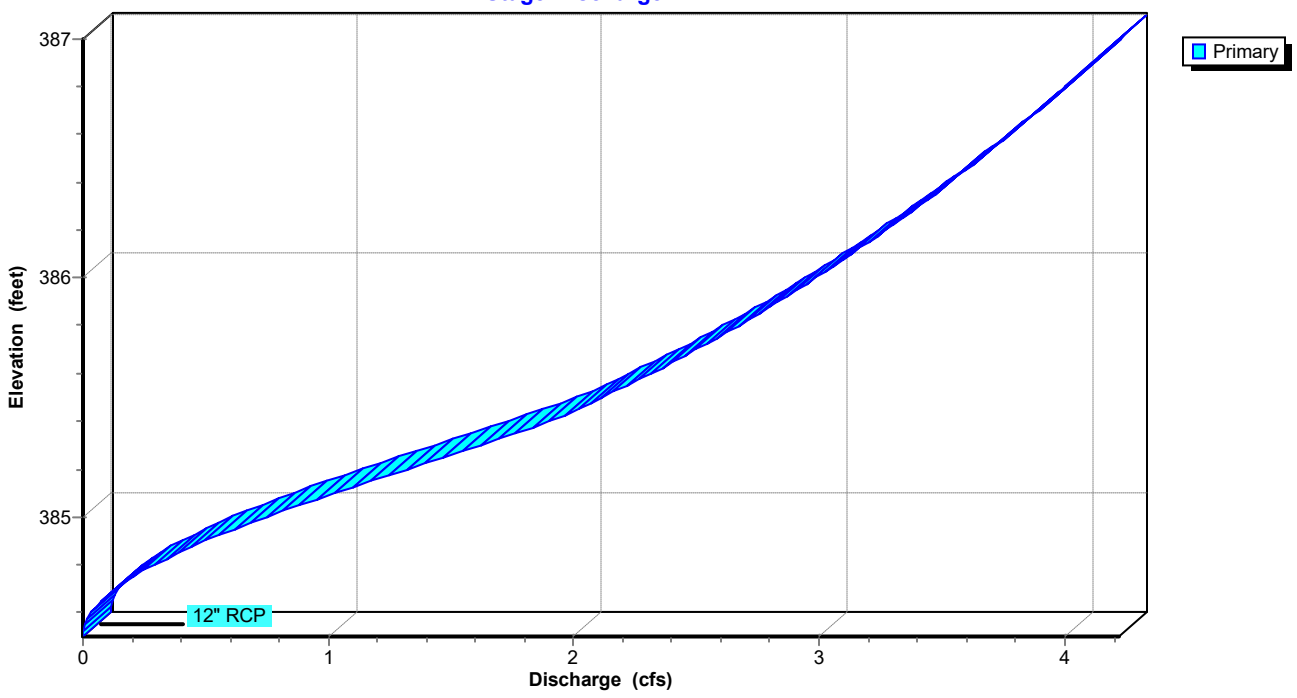
Pond 3P: DETENTION POND

Hydrograph

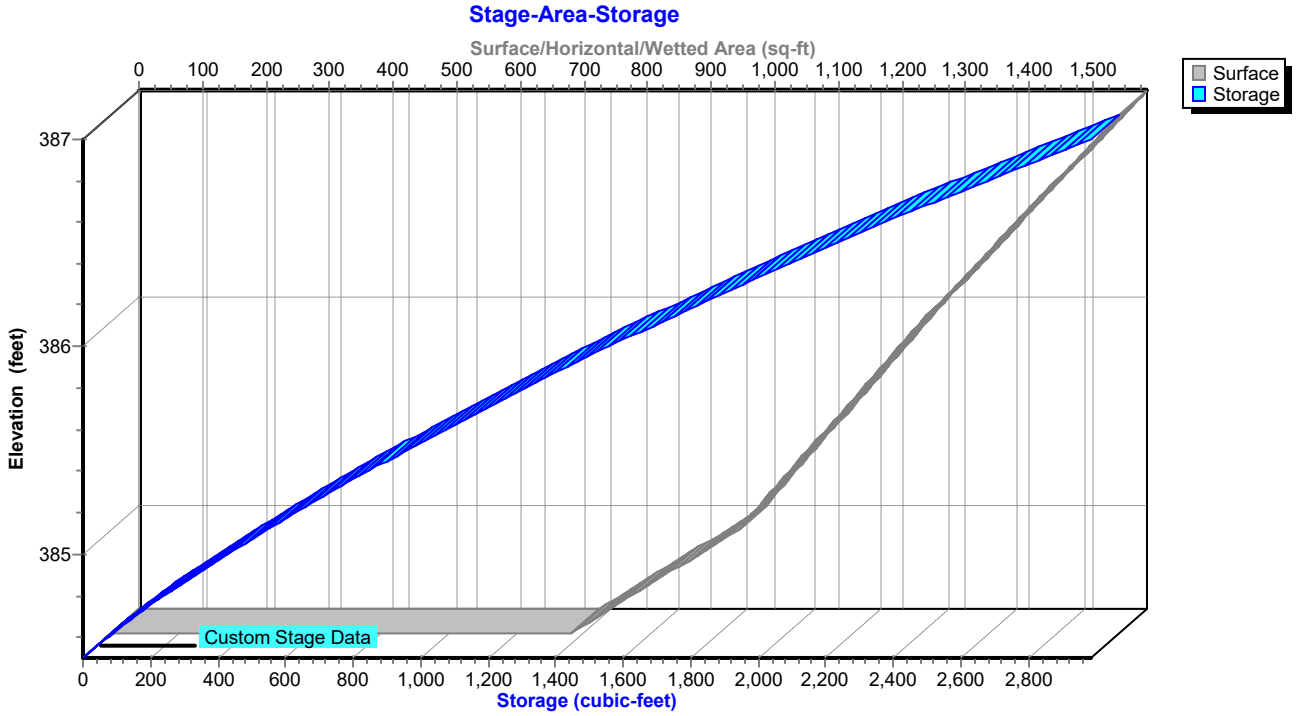


Pond 3P: DETENTION POND

Stage-Discharge



Pond 3P: DETENTION POND



Hydrograph for Pond 3P: DETENTION POND

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	**0.00**	**0**	**384.50**	**0.00**
0.50	**0.00**	**697**	**385.26**	**1.51**
1.00	0.00	93	384.62	0.05
1.50	0.00	45	384.56	0.01
2.00	0.00	29	384.54	0.01
2.50	0.00	21	384.53	0.00
3.00	0.00	17	384.52	0.00
3.50	0.00	13	384.52	0.00
4.00	0.00	11	384.51	0.00
4.50	0.00	9	384.51	0.00
5.00	0.00	7	384.51	0.00
5.50	0.00	6	384.51	0.00
6.00	0.00	4	384.51	0.00
6.50	0.00	4	384.50	0.00
7.00	0.00	3	384.50	0.00
7.50	0.00	2	384.50	0.00
8.00	0.00	2	384.50	0.00
8.50	0.00	1	384.50	0.00
9.00	0.00	1	384.50	0.00
9.50	0.00	1	384.50	0.00
10.00	0.00	1	384.50	0.00
10.50	0.00	1	384.50	0.00
11.00	0.00	0	384.50	0.00
11.50	0.00	0	384.50	0.00
12.00	0.00	0	384.50	0.00

Stage-Discharge for Pond 3P: DETENTION POND

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
384.50	0.00	385.52	2.15	386.54	3.70
384.52	0.00	385.54	2.19	386.56	3.73
384.54	0.01	385.56	2.23	386.58	3.75
384.56	0.01	385.58	2.27	386.60	3.78
384.58	0.02	385.60	2.31	386.62	3.80
384.60	0.03	385.62	2.35	386.64	3.82
384.62	0.05	385.64	2.39	386.66	3.85
384.64	0.07	385.66	2.43	386.68	3.87
384.66	0.09	385.68	2.46	386.70	3.89
384.68	0.11	385.70	2.50	386.72	3.92
384.70	0.13	385.72	2.53	386.74	3.94
384.72	0.16	385.74	2.57	386.76	3.96
384.74	0.19	385.76	2.60	386.78	3.98
384.76	0.22	385.78	2.64	386.80	4.01
384.78	0.26	385.80	2.67	386.82	4.03
384.80	0.29	385.82	2.70	386.84	4.05
384.82	0.33	385.84	2.74	386.86	4.07
384.84	0.37	385.86	2.77	386.88	4.09
384.86	0.41	385.88	2.80	386.90	4.12
384.88	0.45	385.90	2.83	386.92	4.14
384.90	0.50	385.92	2.86	386.94	4.16
384.92	0.55	385.94	2.89	386.96	4.18
384.94	0.59	385.96	2.93	386.98	4.20
384.96	0.64	385.98	2.96	387.00	**4.22**
384.98	0.69	386.00	2.99		
385.00	0.75	386.02	3.02		
385.02	0.80	386.04	3.04		
385.04	0.85	386.06	3.07		
385.06	0.91	386.08	3.10		
385.08	0.97	386.10	3.13		
385.10	1.02	386.12	3.16		
385.12	1.08	386.14	3.19		
385.14	1.14	386.16	3.22		
385.16	1.20	386.18	3.24		
385.18	1.26	386.20	3.27		
385.20	1.32	386.22	3.30		
385.22	1.38	386.24	3.32		
385.24	1.44	386.26	3.35		
385.26	1.50	386.28	3.38		
385.28	1.56	386.30	3.40		
385.30	1.62	386.32	3.43		
385.32	1.68	386.34	3.46		
385.34	1.74	386.36	3.48		
385.36	1.79	386.38	3.51		
385.38	1.85	386.40	3.53		
385.40	1.90	386.42	3.56		
385.42	1.95	386.44	3.58		
385.44	2.00	386.46	3.61		
385.46	2.04	386.48	3.63		
385.48	2.08	386.50	3.66		
385.50	2.11	386.52	3.68		

Stage-Area-Storage for Pond 3P: DETENTION POND

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
384.50	724	0
384.55	750	37
384.60	776	75
384.65	803	114
384.70	829	155
384.75	855	197
384.80	881	241
384.85	907	285
384.90	934	332
384.95	960	379
385.00	986	428
385.05	1,000	477
385.10	1,015	528
385.15	1,029	579
385.20	1,043	630
385.25	1,058	683
385.30	1,072	736
385.35	1,086	790
385.40	1,101	845
385.45	1,115	900
385.50	1,130	956
385.55	1,144	1,013
385.60	1,158	1,071
385.65	1,173	1,129
385.70	1,187	1,188
385.75	1,201	1,248
385.80	1,216	1,308
385.85	1,230	1,369
385.90	1,244	1,431
385.95	1,259	1,494
386.00	1,273	1,557
386.05	1,289	1,621
386.10	1,304	1,686
386.15	1,320	1,751
386.20	1,335	1,818
386.25	1,351	1,885
386.30	1,367	1,953
386.35	1,382	2,022
386.40	1,398	2,091
386.45	1,413	2,161
386.50	1,429	2,233
386.55	1,445	2,304
386.60	1,460	2,377
386.65	1,476	2,450
386.70	1,491	2,525
386.75	1,507	2,600
386.80	1,523	2,675
386.85	1,538	2,752
386.90	1,554	2,829
386.95	1,569	2,907
387.00	**1,585**	**2,986**

Time span=0.00-12.00 hrs, dt=0.01 hrs, 1201 points
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1S: PRE-DEVELOPMENT Runoff Area=46,055 sf 0.00% Impervious Runoff Depth=1.16"
Flow Length=270' Slope=0.0250 '/' Tc=15.5 min C=0.69 Runoff=4.65 cfs 0.102 af

Subcatchment 2S: POST-DEVELOPMENT Runoff Area=46,055 sf 63.15% Impervious Runoff Depth=1.30"
Flow Length=360' Slope=0.0150 '/' Tc=8.8 min C=0.77 Runoff=5.18 cfs 0.114 af

Reach 4R: CURB CUT WIER Avg. Flow Depth=0.28' Max Vel=6.18 fps Inflow=5.18 cfs 0.114 af
n=0.013 L=4.0' S=0.0200 '/' Capacity=12.61 cfs Outflow=5.19 cfs 0.114 af

Pond 3P: DETENTION POND Peak Elev=386.41' Storage=2,110 cf Inflow=5.19 cfs 0.114 af
12.0" Round Culvert n=0.011 L=10.0' S=0.0500 '/' Outflow=3.55 cfs 0.114 af

Total Runoff Area = 2.115 ac Runoff Volume = 0.216 af Average Runoff Depth = 1.23"
68.43% Pervious = 1.447 ac 31.57% Impervious = 0.668 ac

Summary for Subcatchment 1S: PRE-DEVELOPMENT

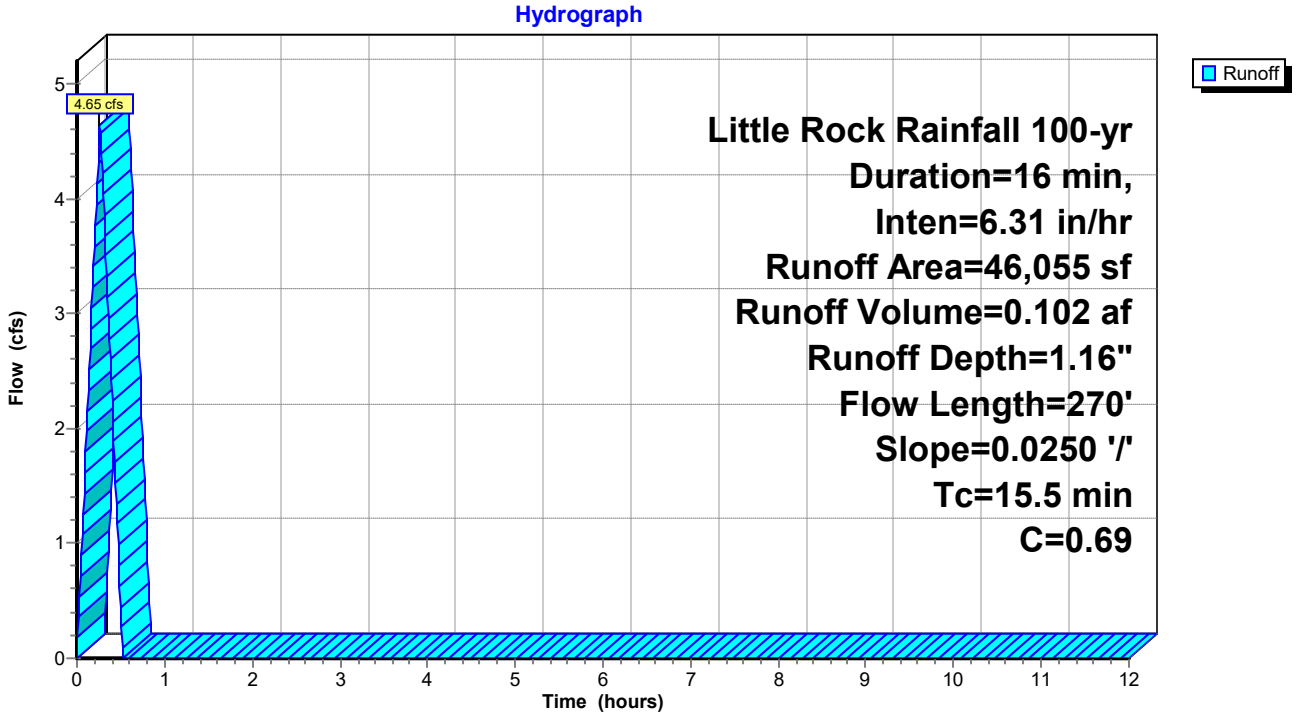
Runoff = 4.65 cfs @ 0.26 hrs, Volume= 0.102 af, Depth= 1.16"

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-12.00 hrs, dt= 0.01 hrs
Little Rock Rainfall 100-yr Duration=16 min, Inten=6.31 in/hr

Area (sf)	C	Description
31,035	0.65	GRAVEL PARKING
15,020	0.77	SHRUB POOR CONDITION BRUSH
46,055	0.69	Weighted Average
46,055		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	270	0.0250	0.29		**Sheet Flow, SHEET FLOW SURFACE** Range n= 0.130 P2= 4.19"

Subcatchment 1S: PRE-DEVELOPMENT



Hydrograph for Subcatchment 1S: PRE-DEVELOPMENT

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	5.10	0.00	10.20	0.00
0.10	1.80	5.20	0.00	10.30	0.00
0.20	**3.59**	5.30	0.00	10.40	0.00
0.30	**4.04**	5.40	0.00	10.50	0.00
0.40	2.25	5.50	0.00	10.60	0.00
0.50	0.45	5.60	0.00	10.70	0.00
0.60	0.00	5.70	0.00	10.80	0.00
0.70	0.00	5.80	0.00	10.90	0.00
0.80	0.00	5.90	0.00	11.00	0.00
0.90	0.00	6.00	0.00	11.10	0.00
1.00	0.00	6.10	0.00	11.20	0.00
1.10	0.00	6.20	0.00	11.30	0.00
1.20	0.00	6.30	0.00	11.40	0.00
1.30	0.00	6.40	0.00	11.50	0.00
1.40	0.00	6.50	0.00	11.60	0.00
1.50	0.00	6.60	0.00	11.70	0.00
1.60	0.00	6.70	0.00	11.80	0.00
1.70	0.00	6.80	0.00	11.90	0.00
1.80	0.00	6.90	0.00	12.00	0.00
1.90	0.00	7.00	0.00		
2.00	0.00	7.10	0.00		
2.10	0.00	7.20	0.00		
2.20	0.00	7.30	0.00		
2.30	0.00	7.40	0.00		
2.40	0.00	7.50	0.00		
2.50	0.00	7.60	0.00		
2.60	0.00	7.70	0.00		
2.70	0.00	7.80	0.00		
2.80	0.00	7.90	0.00		
2.90	0.00	8.00	0.00		
3.00	0.00	8.10	0.00		
3.10	0.00	8.20	0.00		
3.20	0.00	8.30	0.00		
3.30	0.00	8.40	0.00		
3.40	0.00	8.50	0.00		
3.50	0.00	8.60	0.00		
3.60	0.00	8.70	0.00		
3.70	0.00	8.80	0.00		
3.80	0.00	8.90	0.00		
3.90	0.00	9.00	0.00		
4.00	0.00	9.10	0.00		
4.10	0.00	9.20	0.00		
4.20	0.00	9.30	0.00		
4.30	0.00	9.40	0.00		
4.40	0.00	9.50	0.00		
4.50	0.00	9.60	0.00		
4.60	0.00	9.70	0.00		
4.70	0.00	9.80	0.00		
4.80	0.00	9.90	0.00		
4.90	0.00	10.00	0.00		
5.00	0.00	10.10	0.00		

Summary for Subcatchment 2S: POST-DEVELOPMENT

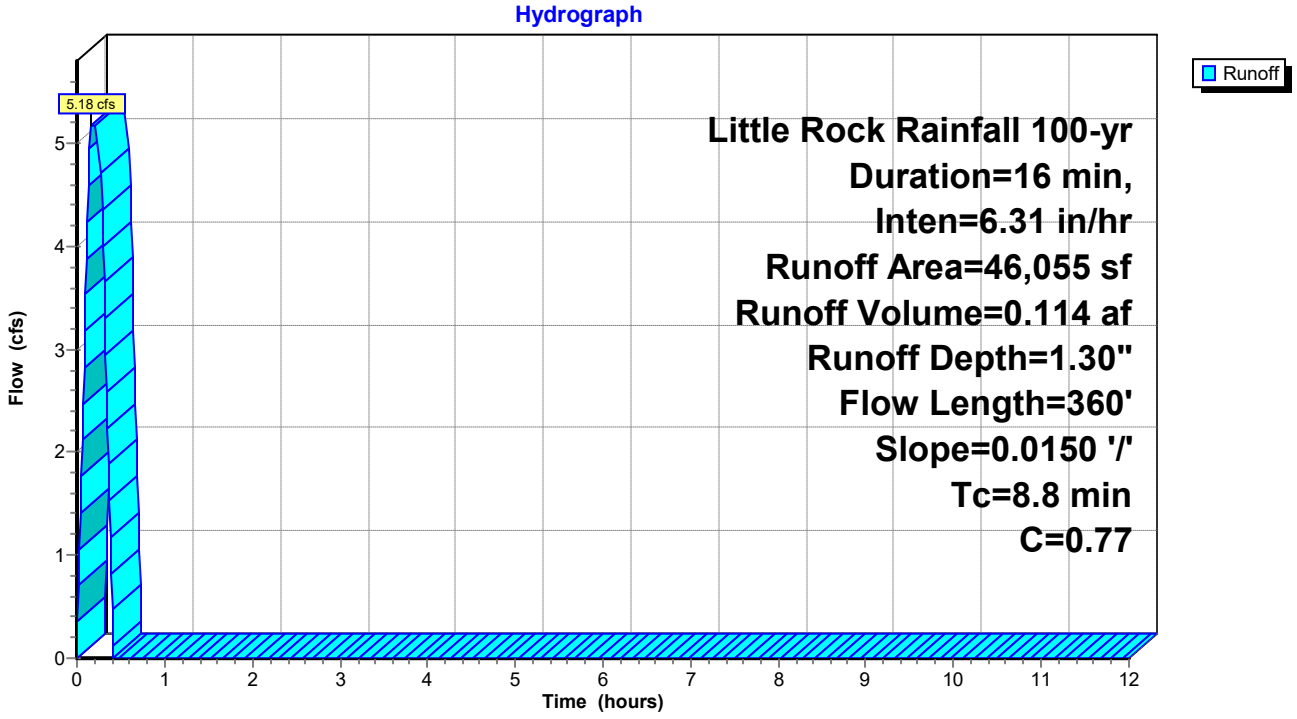
Runoff = 5.18 cfs @ 0.15 hrs, Volume= 0.114 af, Depth= 1.30"
Routed to Reach 4R : CURB CUT WIER

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-12.00 hrs, dt= 0.01 hrs
Little Rock Rainfall 100-yr Duration=16 min, Inten=6.31 in/hr

Area (sf)	C	Description
22,479	0.95	ASPHALT SURFACE
6,603	0.97	ROOF TOP
16,973	0.46	GRASS LANDSCAPING
46,055	0.77	Weighted Average
16,973		36.85% Pervious Area
29,082		63.15% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.7	40	0.0150	0.10		**Sheet Flow, GRASS** Grass: Dense n= 0.240 P2= 4.19"
2.1	320	0.0150	2.49		**Shallow Concentrated Flow, PAVEMENT** Paved Kv= 20.3 fps
8.8	360	Total			

Subcatchment 2S: POST-DEVELOPMENT



Hydrograph for Subcatchment 2S: POST-DEVELOPMENT

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	5.10	0.00	10.20	0.00
0.10	**3.53**	5.20	0.00	10.30	0.00
0.20	**5.18**	5.30	0.00	10.40	0.00
0.30	4.00	5.40	0.00	10.50	0.00
0.40	0.47	5.50	0.00	10.60	0.00
0.50	0.00	5.60	0.00	10.70	0.00
0.60	0.00	5.70	0.00	10.80	0.00
0.70	0.00	5.80	0.00	10.90	0.00
0.80	0.00	5.90	0.00	11.00	0.00
0.90	0.00	6.00	0.00	11.10	0.00
1.00	0.00	6.10	0.00	11.20	0.00
1.10	0.00	6.20	0.00	11.30	0.00
1.20	0.00	6.30	0.00	11.40	0.00
1.30	0.00	6.40	0.00	11.50	0.00
1.40	0.00	6.50	0.00	11.60	0.00
1.50	0.00	6.60	0.00	11.70	0.00
1.60	0.00	6.70	0.00	11.80	0.00
1.70	0.00	6.80	0.00	11.90	0.00
1.80	0.00	6.90	0.00	12.00	0.00
1.90	0.00	7.00	0.00		
2.00	0.00	7.10	0.00		
2.10	0.00	7.20	0.00		
2.20	0.00	7.30	0.00		
2.30	0.00	7.40	0.00		
2.40	0.00	7.50	0.00		
2.50	0.00	7.60	0.00		
2.60	0.00	7.70	0.00		
2.70	0.00	7.80	0.00		
2.80	0.00	7.90	0.00		
2.90	0.00	8.00	0.00		
3.00	0.00	8.10	0.00		
3.10	0.00	8.20	0.00		
3.20	0.00	8.30	0.00		
3.30	0.00	8.40	0.00		
3.40	0.00	8.50	0.00		
3.50	0.00	8.60	0.00		
3.60	0.00	8.70	0.00		
3.70	0.00	8.80	0.00		
3.80	0.00	8.90	0.00		
3.90	0.00	9.00	0.00		
4.00	0.00	9.10	0.00		
4.10	0.00	9.20	0.00		
4.20	0.00	9.30	0.00		
4.30	0.00	9.40	0.00		
4.40	0.00	9.50	0.00		
4.50	0.00	9.60	0.00		
4.60	0.00	9.70	0.00		
4.70	0.00	9.80	0.00		
4.80	0.00	9.90	0.00		
4.90	0.00	10.00	0.00		
5.00	0.00	10.10	0.00		

Summary for Reach 4R: CURB CUT WIER

[88] Warning: Qout>Qin may require smaller dt or Finer Routing

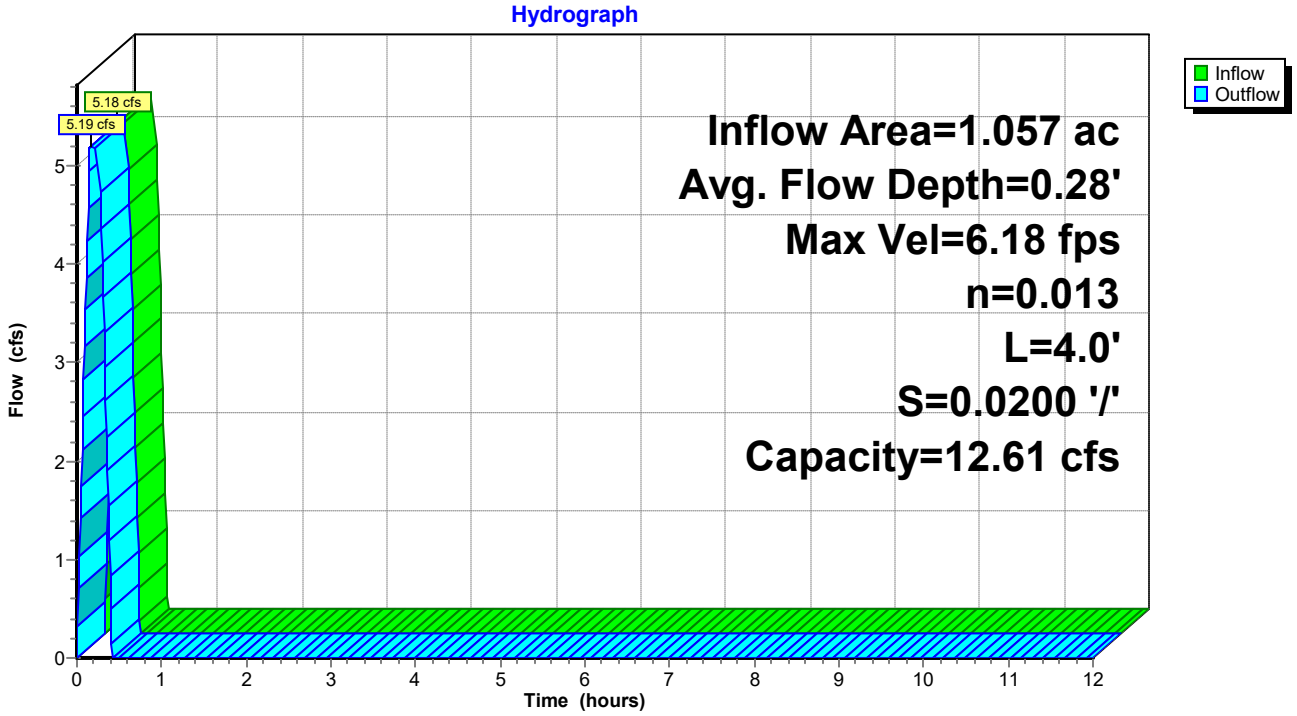
Inflow Area = 1.057 ac, 63.15% Impervious, Inflow Depth = 1.30" for 100-yr event
Inflow = 5.18 cfs @ 0.15 hrs, Volume= 0.114 af
Outflow = 5.19 cfs @ 0.16 hrs, Volume= 0.114 af, Atten= 0%, Lag= 0.6 min
Routed to Pond 3P : DETENTION POND

Routing by Stor-Ind+Trans method, Time Span= 0.00-12.00 hrs, dt= 0.01 hrs
Max. Velocity= 6.18 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 4.91 fps, Avg. Travel Time= 0.0 min

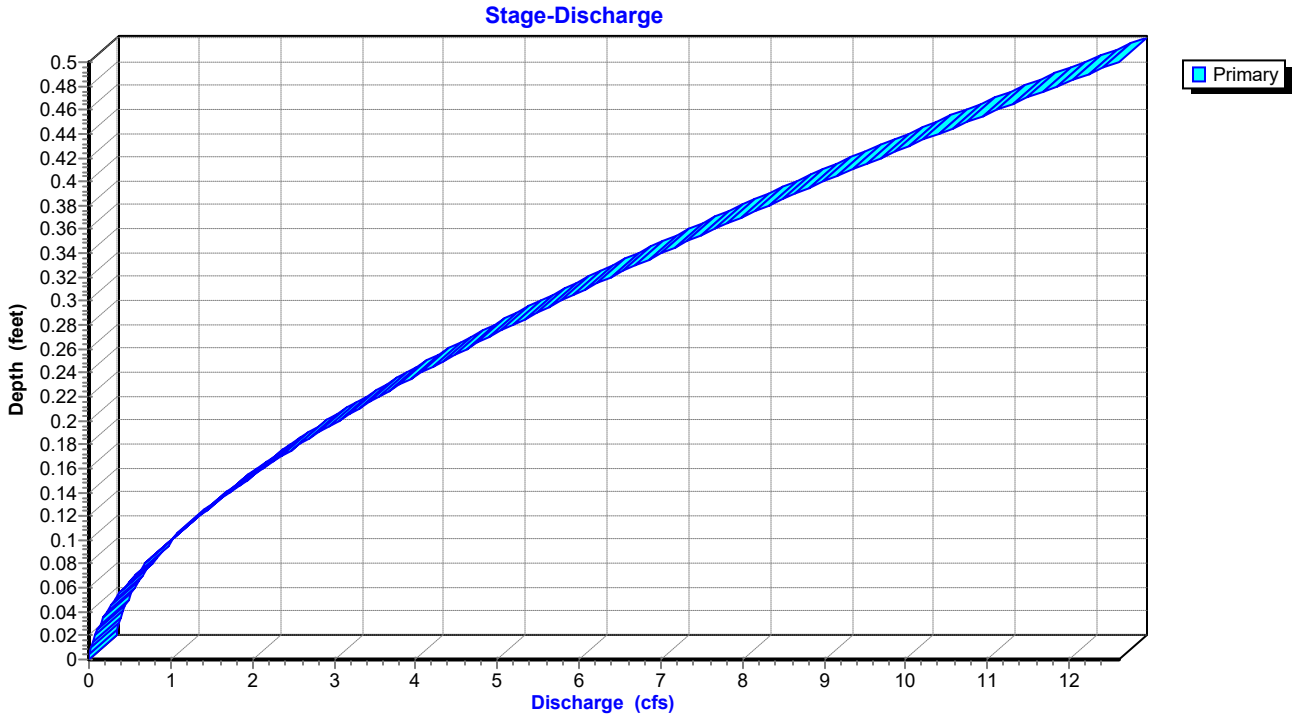
Peak Storage= 3 cf @ 0.16 hrs
Average Depth at Peak Storage= 0.28' , Surface Width= 3.00'
Bank-Full Depth= 0.50' Flow Area= 1.5 sf, Capacity= 12.61 cfs

3.00' x 0.50' deep channel, n= 0.013 Concrete, trowel finish
Length= 4.0' Slope= 0.0200 '/'
Inlet Invert= 387.25', Outlet Invert= 387.17'

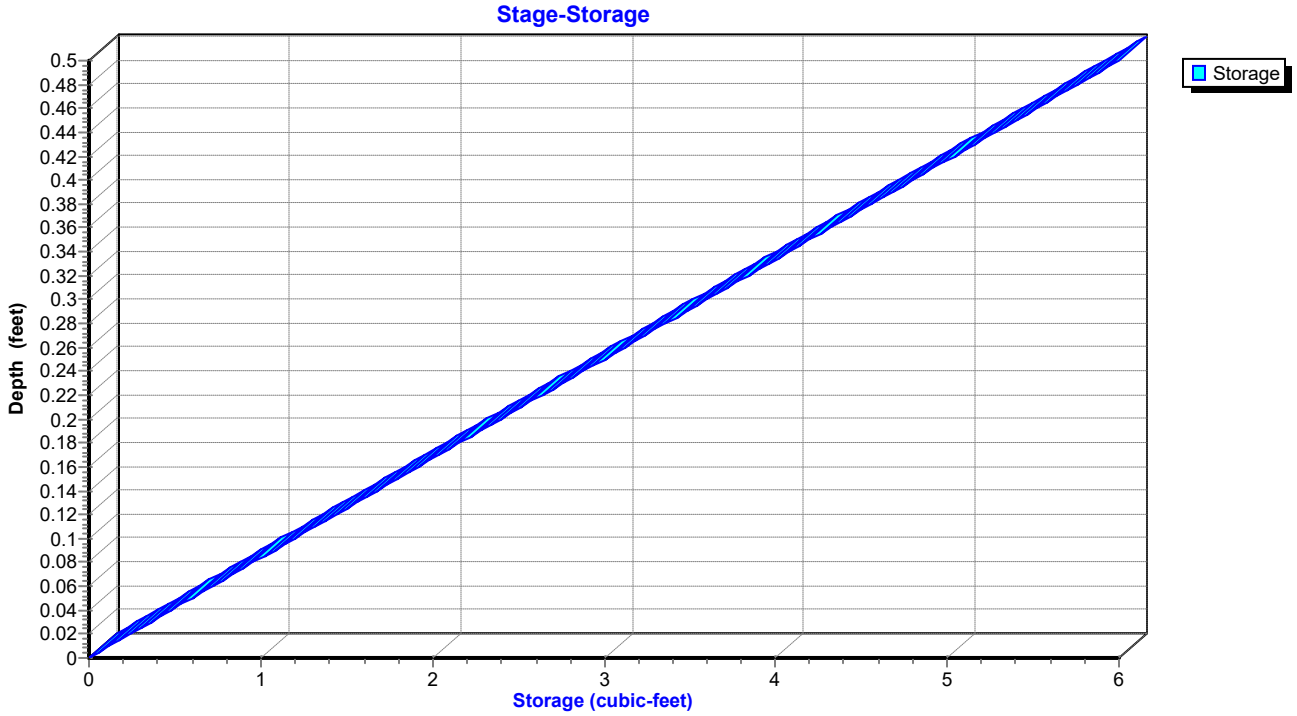
Reach 4R: CURB CUT WIER



Reach 4R: CURB CUT WIER



Reach 4R: CURB CUT WIER



Hydrograph for Reach 4R: CURB CUT WIER

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)
0.00	**0.00**	**0**	**387.25**	**0.00**
0.50	**0.00**	**0**	**387.25**	**0.00**
1.00	0.00	0	387.25	0.00
1.50	0.00	0	387.25	0.00
2.00	0.00	0	387.25	0.00
2.50	0.00	0	387.25	0.00
3.00	0.00	0	387.25	0.00
3.50	0.00	0	387.25	0.00
4.00	0.00	0	387.25	0.00
4.50	0.00	0	387.25	0.00
5.00	0.00	0	387.25	0.00
5.50	0.00	0	387.25	0.00
6.00	0.00	0	387.25	0.00
6.50	0.00	0	387.25	0.00
7.00	0.00	0	387.25	0.00
7.50	0.00	0	387.25	0.00
8.00	0.00	0	387.25	0.00
8.50	0.00	0	387.25	0.00
9.00	0.00	0	387.25	0.00
9.50	0.00	0	387.25	0.00
10.00	0.00	0	387.25	0.00
10.50	0.00	0	387.25	0.00
11.00	0.00	0	387.25	0.00
11.50	0.00	0	387.25	0.00
12.00	0.00	0	387.25	0.00

Stage-Discharge for Reach 4R: CURB CUT WIER

Elevation (feet)	Velocity (ft/sec)	Discharge (cfs)
387.25	0.00	0.00
387.26	0.75	0.02
387.27	1.18	0.07
387.28	1.54	0.14
387.29	1.86	0.22
387.30	2.15	0.32
387.31	2.41	0.43
387.32	2.66	0.56
387.33	2.90	0.70
387.34	3.12	0.84
387.35	3.34	1.00
387.36	3.54	1.17
387.37	3.74	1.35
387.38	3.92	1.53
387.39	4.11	1.72
387.40	4.28	1.93
387.41	4.45	2.14
387.42	4.62	2.36
387.43	4.78	2.58
387.44	4.93	2.81
387.45	5.09	3.05
387.46	5.23	3.30
387.47	5.38	3.55
387.48	5.52	3.81
387.49	5.65	4.07
387.50	5.79	4.34
387.51	5.92	4.62
387.52	6.05	4.90
387.53	6.17	5.19
387.54	6.30	5.48
387.55	6.42	5.77
387.56	6.53	6.08
387.57	6.65	6.38
387.58	6.76	6.69
387.59	6.87	7.01
387.60	6.98	7.33
387.61	7.09	7.65
387.62	7.19	7.98
387.63	7.30	8.32
387.64	7.40	8.65
387.65	7.50	9.00
387.66	7.59	9.34
387.67	7.69	9.69
387.68	7.79	10.04
387.69	7.88	10.40
387.70	7.97	10.76
387.71	8.06	11.12
387.72	8.15	11.49
387.73	8.24	11.86
387.74	8.32	12.23
387.75	**8.41**	**12.61**

Stage-Area-Storage for Reach 4R: CURB CUT WIER

Elevation (feet)	End-Area (sq-ft)	Storage (cubic-feet)
387.25	0.0	0
387.26	0.0	0
387.27	0.1	0
387.28	0.1	0
387.29	0.1	0
387.30	0.2	1
387.31	0.2	1
387.32	0.2	1
387.33	0.2	1
387.34	0.3	1
387.35	0.3	1
387.36	0.3	1
387.37	0.4	1
387.38	0.4	2
387.39	0.4	2
387.40	0.4	2
387.41	0.5	2
387.42	0.5	2
387.43	0.5	2
387.44	0.6	2
387.45	0.6	2
387.46	0.6	3
387.47	0.7	3
387.48	0.7	3
387.49	0.7	3
387.50	0.8	3
387.51	0.8	3
387.52	0.8	3
387.53	0.8	3
387.54	0.9	3
387.55	0.9	4
387.56	0.9	4
387.57	1.0	4
387.58	1.0	4
387.59	1.0	4
387.60	1.1	4
387.61	1.1	4
387.62	1.1	4
387.63	1.1	5
387.64	1.2	5
387.65	1.2	5
387.66	1.2	5
387.67	1.3	5
387.68	1.3	5
387.69	1.3	5
387.70	1.4	5
387.71	1.4	6
387.72	1.4	6
387.73	1.4	6
387.74	1.5	6
387.75	**1.5**	**6**

Summary for Pond 3P: DETENTION POND

Inflow Area = 1.057 ac, 63.15% Impervious, Inflow Depth = 1.30" for 100-yr event
Inflow = 5.19 cfs @ 0.16 hrs, Volume= 0.114 af
Outflow = 3.55 cfs @ 0.31 hrs, Volume= 0.114 af, Atten= 32%, Lag= 9.2 min
Primary = 3.55 cfs @ 0.31 hrs, Volume= 0.114 af

Routing by Stor-Ind method, Time Span= 0.00-12.00 hrs, dt= 0.01 hrs
Peak Elev= 386.41' @ 0.31 hrs Surf.Area= 1,402 sf Storage= 2,110 cf

Plug-Flow detention time= 10.4 min calculated for 0.114 af (100% of inflow)
Center-of-Mass det. time= 10.4 min (22.8 - 12.4)

Volume	Invert	Avail.Storage	Storage Description
#1	384.50'	2,986 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

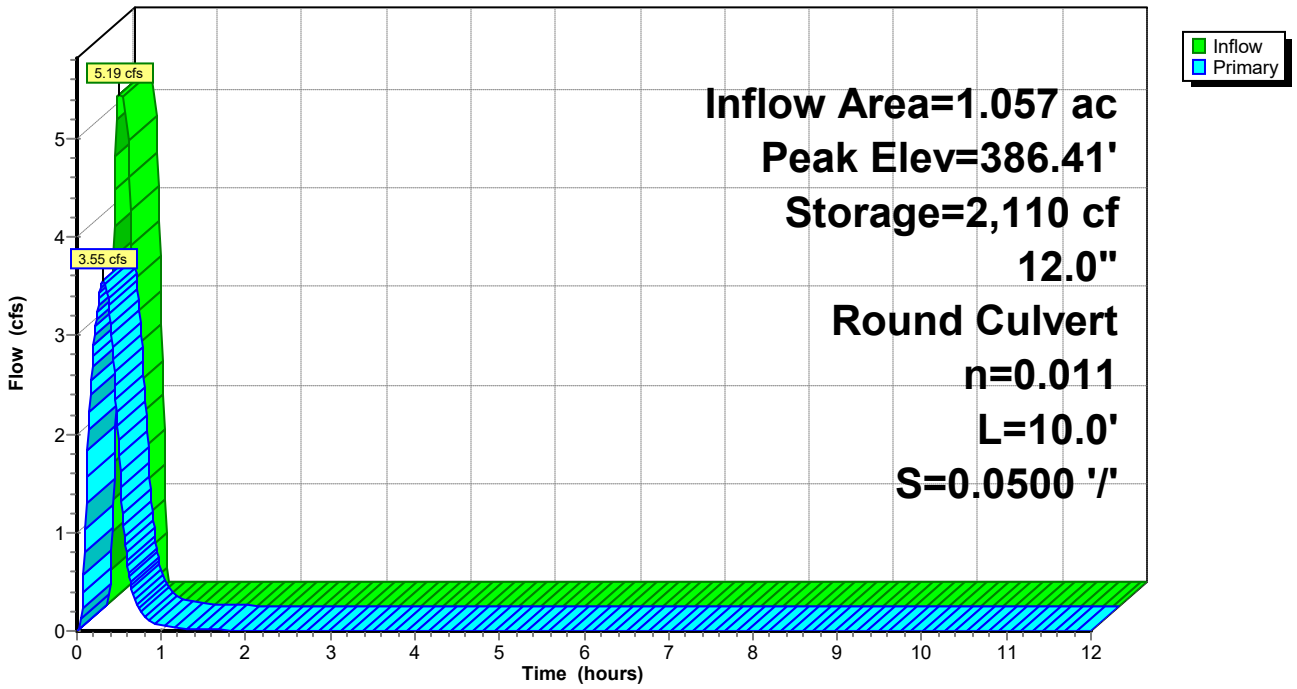
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
384.50	724	0	0
385.00	986	428	428
386.00	1,273	1,130	1,557
387.00	1,585	1,429	2,986

Device	Routing	Invert	Outlet Devices
#1	Primary	384.50'	**12.0" Round 12" RCP** L= 10.0' CMP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 384.50' / 384.00' S= 0.0500 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=3.55 cfs @ 0.31 hrs HW=386.41' (Free Discharge)
↑**1=12" RCP** (Inlet Controls 3.55 cfs @ 4.52 fps)

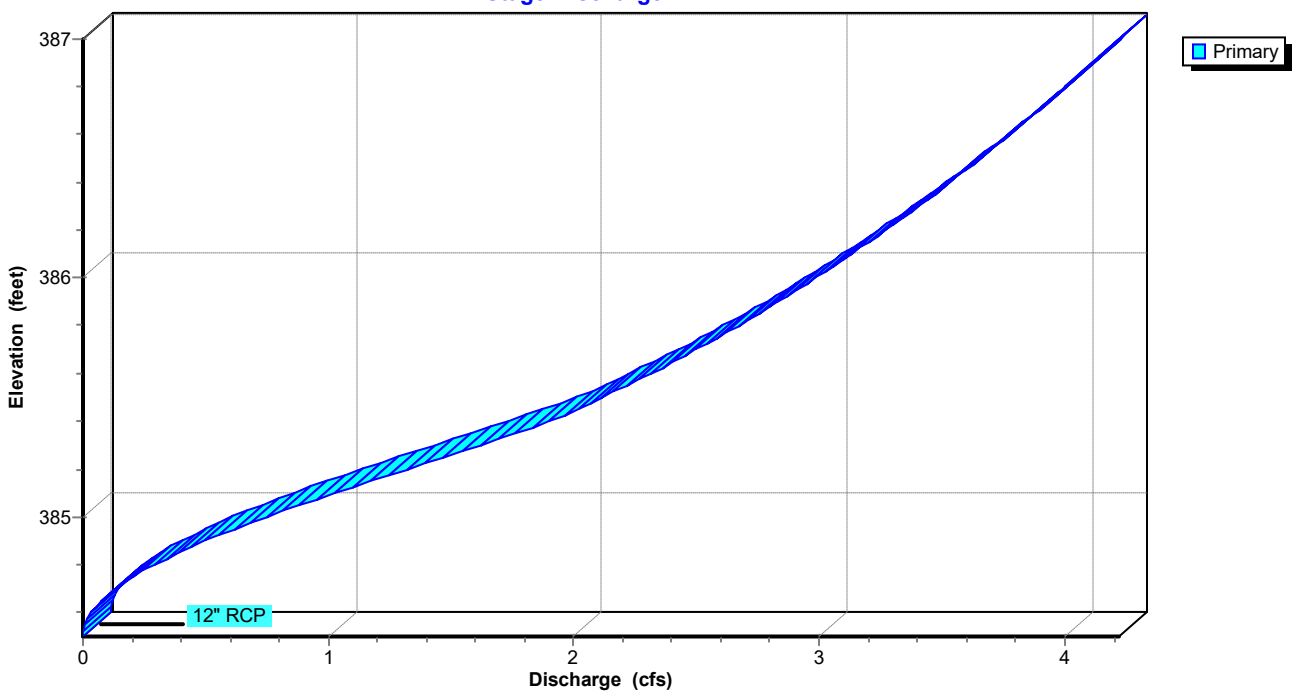
Pond 3P: DETENTION POND

Hydrograph

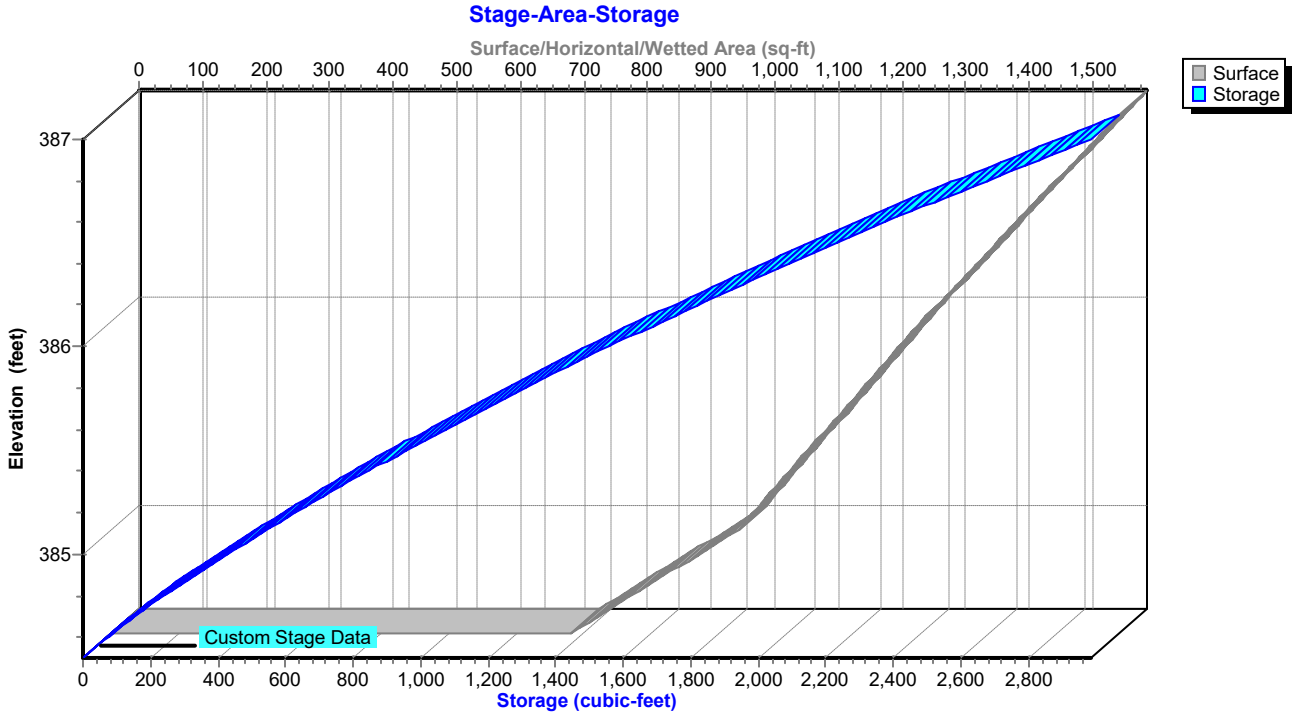


Pond 3P: DETENTION POND

Stage-Discharge



Pond 3P: DETENTION POND



Hydrograph for Pond 3P: DETENTION POND

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	**0.00**	**0**	**384.50**	**0.00**
0.50	**0.00**	**797**	**385.36**	**1.78**
1.00	0.00	97	384.63	0.06
1.50	0.00	46	384.56	0.01
2.00	0.00	29	384.54	0.01
2.50	0.00	21	384.53	0.00
3.00	0.00	17	384.52	0.00
3.50	0.00	13	384.52	0.00
4.00	0.00	11	384.51	0.00
4.50	0.00	9	384.51	0.00
5.00	0.00	7	384.51	0.00
5.50	0.00	6	384.51	0.00
6.00	0.00	5	384.51	0.00
6.50	0.00	4	384.50	0.00
7.00	0.00	3	384.50	0.00
7.50	0.00	2	384.50	0.00
8.00	0.00	2	384.50	0.00
8.50	0.00	2	384.50	0.00
9.00	0.00	1	384.50	0.00
9.50	0.00	1	384.50	0.00
10.00	0.00	1	384.50	0.00
10.50	0.00	1	384.50	0.00
11.00	0.00	1	384.50	0.00
11.50	0.00	0	384.50	0.00
12.00	0.00	0	384.50	0.00

Stage-Discharge for Pond 3P: DETENTION POND

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
384.50	0.00	385.52	2.15	386.54	3.70
384.52	0.00	385.54	2.19	386.56	3.73
384.54	0.01	385.56	2.23	386.58	3.75
384.56	0.01	385.58	2.27	386.60	3.78
384.58	0.02	385.60	2.31	386.62	3.80
384.60	0.03	385.62	2.35	386.64	3.82
384.62	0.05	385.64	2.39	386.66	3.85
384.64	0.07	385.66	2.43	386.68	3.87
384.66	0.09	385.68	2.46	386.70	3.89
384.68	0.11	385.70	2.50	386.72	3.92
384.70	0.13	385.72	2.53	386.74	3.94
384.72	0.16	385.74	2.57	386.76	3.96
384.74	0.19	385.76	2.60	386.78	3.98
384.76	0.22	385.78	2.64	386.80	4.01
384.78	0.26	385.80	2.67	386.82	4.03
384.80	0.29	385.82	2.70	386.84	4.05
384.82	0.33	385.84	2.74	386.86	4.07
384.84	0.37	385.86	2.77	386.88	4.09
384.86	0.41	385.88	2.80	386.90	4.12
384.88	0.45	385.90	2.83	386.92	4.14
384.90	0.50	385.92	2.86	386.94	4.16
384.92	0.55	385.94	2.89	386.96	4.18
384.94	0.59	385.96	2.93	386.98	4.20
384.96	0.64	385.98	2.96	387.00	**4.22**
384.98	0.69	386.00	2.99		
385.00	0.75	386.02	3.02		
385.02	0.80	386.04	3.04		
385.04	0.85	386.06	3.07		
385.06	0.91	386.08	3.10		
385.08	0.97	386.10	3.13		
385.10	1.02	386.12	3.16		
385.12	1.08	386.14	3.19		
385.14	1.14	386.16	3.22		
385.16	1.20	386.18	3.24		
385.18	1.26	386.20	3.27		
385.20	1.32	386.22	3.30		
385.22	1.38	386.24	3.32		
385.24	1.44	386.26	3.35		
385.26	1.50	386.28	3.38		
385.28	1.56	386.30	3.40		
385.30	1.62	386.32	3.43		
385.32	1.68	386.34	3.46		
385.34	1.74	386.36	3.48		
385.36	1.79	386.38	3.51		
385.38	1.85	386.40	3.53		
385.40	1.90	386.42	3.56		
385.42	1.95	386.44	3.58		
385.44	2.00	386.46	3.61		
385.46	2.04	386.48	3.63		
385.48	2.08	386.50	3.66		
385.50	2.11	386.52	3.68		

Stage-Area-Storage for Pond 3P: DETENTION POND

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
384.50	724	0
384.55	750	37
384.60	776	75
384.65	803	114
384.70	829	155
384.75	855	197
384.80	881	241
384.85	907	285
384.90	934	332
384.95	960	379
385.00	986	428
385.05	1,000	477
385.10	1,015	528
385.15	1,029	579
385.20	1,043	630
385.25	1,058	683
385.30	1,072	736
385.35	1,086	790
385.40	1,101	845
385.45	1,115	900
385.50	1,130	956
385.55	1,144	1,013
385.60	1,158	1,071
385.65	1,173	1,129
385.70	1,187	1,188
385.75	1,201	1,248
385.80	1,216	1,308
385.85	1,230	1,369
385.90	1,244	1,431
385.95	1,259	1,494
386.00	1,273	1,557
386.05	1,289	1,621
386.10	1,304	1,686
386.15	1,320	1,751
386.20	1,335	1,818
386.25	1,351	1,885
386.30	1,367	1,953
386.35	1,382	2,022
386.40	1,398	2,091
386.45	1,413	2,161
386.50	1,429	2,233
386.55	1,445	2,304
386.60	1,460	2,377
386.65	1,476	2,450
386.70	1,491	2,525
386.75	1,507	2,600
386.80	1,523	2,675
386.85	1,538	2,752
386.90	1,554	2,829
386.95	1,569	2,907
387.00	**1,585**	**2,986**

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PHILLIP LEWIS ENGINEERING, INC.
Structural + Civil Consultants
23620 Interstate 30
Bryant, Arkansas 72022

November 15, 2022

Submittal Letter to:
CITY OF BRYANT
PLANNING AND COMMUNITY DEVELOPMENT
Attn: **Mr. Truett Smith, Planning Director**
210 SW 3RD Street
Bryant, Arkansas 72022

Re: Submittal Letter Requesting Project Placement on 19 May DRC Meeting Agenda for **New SPLASH CARWASH**, Bryant, Arkansas

The purpose of this letter is to formally request inclusion on the 19 May 2022 DRC meeting agenda for the Project listed above.

The Project specifics are as follows:

- New Carwash Tunnel
- Covered (Canopy) Kiosk pay stations
- Outdoor vacuum stalls (13)
- On-site detention is provided
- Access is off of Reynolds Road & Evans Loop

PLEASE REMIT ALL CORRESPONDANCE TO:

PO BOX 17307
LITTLE ROCK, ARKANSAS 72222

Please do not hesitate to contact me with any questions regarding this Request letter.

Respectfully submitted,

Phillip Lewis, P.E.
Cell: 501.350.9840

Bryant Planning Commission

SMALL SCALE DEVELOPMENT
COMMERCIAL BUILDING
CHECKLIST

CITY OF BRYANT
210 SW 3RD STREET
BRYANT, AR 72022
501-943-0309

PC MEETING DATE:	THURSDAY OF EACH WEEK
TIME:	9:00 A.M.
PLACE:	ADMINISTRATION CONFERENCE ROOM-BRYANT OFFICE COMPLEX
AGENDA DEADLINE:	5:00 P.M. FRIDAY PRIOR TO SCHEDULED MEETING DATE

REQUIREMENTS FOR SUBMISSION

1. COMPLETED CHECKLIST (SUBDIVISION OR BUILDING)
2. ADA/ABA FORM COMPLETED
3. TWO FULL SETS OF BUILDING PLANS
4. 12 FOLDED COPIES OF SITE PLAN (MINIMUM SIZE 17" X 34") THAT INCLUDES THE FOLLOWING:
   - A, VICINITY MAP
   - B. LEGAL DESCRIPTION
   - C. LANDSCAPING PLAN
5. 12 FOLDED COPIES OF FLOOR PLAN
6. 12 COPIES OF FRONT AND REAR BUILDING ELEVATIONS
7. A CD IN .PDF FORMAT
8. COPY OF ADEQ STORMWATER POLLUTION PREVENTION PLAN FOR PROPERTY PARCEL CONTAINING ONE ACRE OR LARGER.
9. 2 COPIES OF STORMWATER DETENTION PLAN
10. $250.00 FOR STORMWATER DETENTION AND DRAINAGE PLAN REVIEW

ALL REQUIREMENTS LISTED ABOVE MUST BE COMPLETED AND ATTACHED BEFORE SUBMITTING APPLICATION TO BE PLACED ON THE PLANNING COMMISSION AGENDA.

NOTE: WHEN MAKING CHANGES TO AN APPROVED SITE PLAN, A REVISED SITE PLAN MUST BE SUBMITTED TO THE BRYANT PLANNING COMMISSION FOR APPROVAL. THIS MUST BE DONE PRIOR TO IMPLEMENTATION. FAILURE TO COMPLY WILL RESULT IN PENALTIES/FINES BEING IMPOSED IN ACCORDANCE WITH CITY ORDINANCES.

I HAVE COMPLIED WITH THE REQUIREMENTS LISTED ABOVE AND HAVE CHECKED ALL OF THE BOXES ON THE CHECKLIST WHICH APPLY TO THIS PROJECT SUBMITTAL.

SIGNATURE

5/11/2022

DATE

City of Bryant Commercial Building Checklist

Name of Development Splash Car Wash

Site Location Reynolds Road & Evans Loop Current zoning C-2

Owner Colliers International Phone 501-372-6161

I. Basic Information Needed On The Site Plan

- ▲ 1. Name of Development
- ▲ 2. Current zoning
- ▲ 3. Name and Address of owner of Record
- ▲ 4. Name and address of the architect, landscape architect, engineer, surveyor, or other person involved in the preparation of the plan
- ▲ 5. Date of preparation of the plan
- ▲ 6. Vicinity map locating streets, highways, section lines, railroad, schools, & parks within ½ mile
- ▲ 7. Legal description of the property with exact boundary lines
- ▲ 8. North arrow & Scale
- ▲ 9. Identification of any land areas within the 100 year floodplain and within the 100 year floodway
- ▲ 10. Lot area in square feet
- ▲ 11. Show scale (not less than 1" = 100') (paper size minimum 17" X 34")
- ▲ 12. Existing streams, drainage channels, and other bodies of water
- ▲ 13. Drainage easements for stormwater run-off and detention shown & labeled
- ▲ 14. Location and name of existing streets
- ▲ 15. Show source of water supply
- ▲ 16. Show location of waste water connection to municipal system & sanitary sewer layout
- ▲ 17. Fire Hydrant placement
- ▲ 18. Proposed location of buildings and other structures, parking areas, drives, loading areas, service areas, alleys, walks, screening, and public streets
- ▲ 19. Sufficient dimensions to indicate relationship between buildings, property lines, parking areas and other elements of the plan
- ▲ 20. Extent and character of proposed landscaping. Common and/or Botanical plant names and sizes of new vegetation must be clearly indicated.
- ▲ 21. Location, massing and pattern of existing vegetation to be retained
- ▲ 22. Existing structures on the site
- ▲ 23. Pedestrian and vehicular access points, sidewalks, crosswalks, etc.
- ▲ 24. Typical building elevations depicting the style, size and exterior construction materials of the buildings proposed. Where several building types are proposed on the plan, such as apartments and commercial buildings, a separate sketch shall be prepared for each type. The elevations shall be drawn at a minimum scale of 1/16" to a foot and must show adjoining context.
- ▲ 25. Any variance approvals

II ADDITIONAL INFORMATION NEEDED, BUT NOT ON THE SITE PLAN

COMMERCIAL BUILDING WORKSHEET

	Yes	No
Site is compatible with Master Street Plan	X	
Proposed improvement is within building line setbacks Front 15 ft. Side 15 ft. CNR Side 15 ft. Back 15 ft.	X	
Parking requirements can be satisfied Floor Space 900 sq.ft. divided by 300 = 3 (no. of parking spaces required)	X	
Improvement is outside 100 year flood plain (if answer is no - Provide 404 Permit for site)		
Lowest building floor level and all mechanical equipment are above FEMA 100 year flood elevation	X	
Will there be a dumpster located on the site?	X	
Will there be a construction site office?		X
Have you made "One Call"?		X
Structure and site complies with ADA (Americans with Disability Act) and ABA (Architectural Barriers Act) Accessibility Guidelines	X	
Design complies with Arkansas Plumbing Code and National Electric Code requirements	X	
Foundation and structure meet earthquake requirements for Zone 1.	X	
Structure meets Arkansas Energy Code for specified use.	X	
Complies with Arkansas Fire Prevention Code	X	
Complies with International Code Council regulations	X	
Will a Site Clearance Permit be required? (City Ordinance 2002-03)		X
Are you granted any variances by the Board of Adjustment?		X
If you have been granted a variance please explain in detail:		

III. LANDSCAPING COMPLIANCE WITH REQUIREMENTS

	YES	NO
No planting within 5 feet of a fire hydrant	X	
Spacing will be 40' between trees	X	
Tree must be a minimum 3" in diameter at the base and 12' + tall	X	
Existing trees meeting the minimum size can be counted to meet above criteria	X	
No trees can be planted within 30 feet of a property corner or driveway	X	
Shrubs along street right-of-way lines cannot exceed 30 inches in height	X	

IV. SITE COVERAGE COMPLIANCE WITH REQUIREMENTS

(FOR YOUR CONVENIENCE WE HAVE LISTED THE THREE COMMERCIAL ZONING SITE COVERAGE REQUIREMENTS - CHOOSE THE ZONING FOR THIS PROJECT AND COMPLETE ONLY THAT SECTION)

	YES	NO
1. C-1 Zoning - Neighborhood Commercial		
Lot area: minimum of 2,500 square feet; maximum 16,000 square feet	____	____
Front Yard: none required	____	____
Side Yard: minimum of 5 feet each side	____	____
Rear Yard: minimum of 55 feet	____	____
Maximum lot coverage of 70% of the total area of the site for all principal, accessory buildings, parking lots, sidewalks, private streets, or drives.	____	____
Parking: one space per each 200 sq. ft. of commercial use	____	____
Loading areas: physically separated from all streets with 10 ft grassy area	____	____
When abuts a residential district, a minimum 6' high wood, rock, or masonry fence is required with a landscape screen	____	____
2. C-2 Zoning - Lots fronting along roadways designated as Interstate 30 and frontage roads, State Highway 5 and 183		
Front Yard: not less than 50 feet from front property line	X	____
Side Yard: not required, except where they abut a street or a residential lot line then a minimum of 25 feet is required	X	____
Rear Yard: minimum of 15 feet, except where they abut residential area then a minimum of 55 feet is required	X	____
A maximum lot coverage of 35% of the total area of the site for all principal and accessory buildings	X	____
Parking: one space per each 300 sq. ft. of occupied space	X	____
When abuts a residential district, a minimum 6' high wood, rock, or masonry fence is required with a landscape screen	X	____
3. C-2 Zoning - Lots fronting along roadways designated as interior local.		
Front Yard: none required	____	____
Side Yard: not required, except where they abut a street or a residential lot line then a minimum of 25 percent of lot dimension	____	____
Rear Yard: minimum of 15 feet, except where they abut residential area then a minimum of 55 feet is required	____	____
A maximum lot coverage of 85% of the total area of the site for all principal, accessory buildings and parking	____	____
Parking: one space per each 300 sq. ft. of occupied space	____	____
When abuts a residential district, a minimum 6' high wood, rock, or masonry fence is required with a landscape screen	____	____

V. Site Plan Attachments

(Application will not be accepted until all attachment requirements are met)

- ▲ 26. Letter to Planning Commission stating your request
- ▲ 27. Completed Checklist
- ▲ 28. Completed ADA/ABA Form
- ▲ 29. Two full sets of Building Plans
- ▲ 30. 20 copies of Site Plan (folded to no larger than 8 ½ X 14 size) that includes vicinity map and landscaping plan (minimum size 17" X 34" paper)
- ▲ 31. 20 copies of Landscaping Plan (folded to no larger than 8 ½ X 14 size)
- ▲ 32. 20 copies of building floor plan (folded to no larger than 8 ½ X 14 size)
- ▲ 33. Copy of Stormwater Detention approval
- ▲ 34. Copy of ADEQ Stormwater Pollution Prevention Plan for property containing one acre or larger.
- ▲ 35. IBM compatible diskette or CD with data in PDF format.
- ▲ 36. Receipt for $250.00 for Stormwater Detention and Drainage Plan review

I CERTIFY that the design of SPLASH CAR WASH in the City of Bryant, Arkansas complies with the above regulations, laws and codes.

Colliers International	Phillip Lewis Engineering
Owner	**Engineer/Architect**
1 Allied Dr. STE 1500	501-831-9870
Mailing Address	Phone #
Little Rock, AR 7220	5/11/2022
City	Date

CITY USE

Action Taken:

Special Conditions:

Permit Issued: Date _____ Sq.Ft. _____ Amount $_____

Construction Completed Certified For Occupancy: Date: _____

Inspector: _____

Permit No. _____

BUILDING PERMIT

ADA/ABA ACCESSIBILITY STANDARDS

The *Americans with Disability Act* and *Architectural Barriers Act* Accessibility Guidelines were prepared by the U.S. Access Board and mandated by the U. S. Department of Justice regulations implementing Title III as the official ADA/ABA accessibility guidelines. **All new construction, remodeling, and modifications must conform to these building standards** for places of public accommodation and commercial facilities. Residential is exempt.

The ADA/ABA accessibility guidelines contain general design standards for building and site elements, such as accessible entrances and routes, ramps, parking spaces, stairs, elevators, restrooms, signage, etc. Also included are specific standards for restaurants, medical care facilities, libraries and transportation facilities and vehicles, and places of lodging.

The guidelines also include "scoping" requirements that outline the necessary features or appropriate quantity for achieving ready access. For example, at least 50 percent of all public entrances to buildings must be accessible with an accessible path of travel. In public restrooms, at least one bathroom stall must be accessible unless there are more than six stalls, in which case the number increases.

I hereby certify that I have read and examined the above notice and will comply with all guidelines of the ADA Accessibility Guidelines. I further understand that a copy of the ADA/ABA Regulations are available for inspection during business hours of City Hall or I may obtain a copy by writing:

The Access Board
1331 F Street, NW, Suite 1000
Washington, DC 20004-1111
(202) 272-0080 (v) (202) 272-0082 (TTY) (202) 272-0081 (fax)
(800) 872-2253 (v) (800) 993-2822 (TTY)
email: info@access-board.gov

Signature of Contractor or Authorized Agent_____**Date**_____

Signature of Owner (if owner-builder) _____**Date**_____

Application of Permit Approved: _____**Date**_____
Commission - Chairman

Bryant Water & Sewer Department

GREASE TRAP STANDARDS

The City of Bryant requires all commercial buildings comply with plumbing codes found in the Arkansas State Plumbing Code, Latest Edition. All new construction, remodeling, and modifications must conform to these plumbing standards for places of public accommodation and commercial facilities. These guidelines contain general design standards for construction and site elements relating to plumbing.

As of 7/27/04, the Bryant Sewer & Water Commission requires stringent specification standards for commercial or public businesses that involve any food preparation on the premise. The new standard requires calculations, and associated data to be submitted to the Bryant Water Utilities General Manager concurrent with the proposed building plumbing plans along with a grease trap calculation form. Building Permits will not be issued until this form has been received and approved by the Bryant Water Utilities General Manager.

All new buildings or strip centers containing sections designated for commercial enterprise are encouraged to provide a stub-out for a separate waste line for future grease interceptor installation. The owner of a new strip center shall consider suitable physical property space and sewer gradient that will be conducive for the installation of an exterior, in-ground grease interceptor(s) for any flex space contained within the strip center. Physical Property Restrictions and sewer gradient shall not be a defense for failure to install an exterior, in-ground grease interceptor.

I hereby certify that I have read and examined the above notice and will comply with all guidelines of the City of Bryant Water & Sewer Department. I further understand that copies of the Grease Interceptor Design and Structural Criteria regulations will be available from the Bryant Water/Wastewater Plant (501-847-8083) during business hours.

Project Name _____

Signature of Contractor
or Authorized Agent_____Date_____

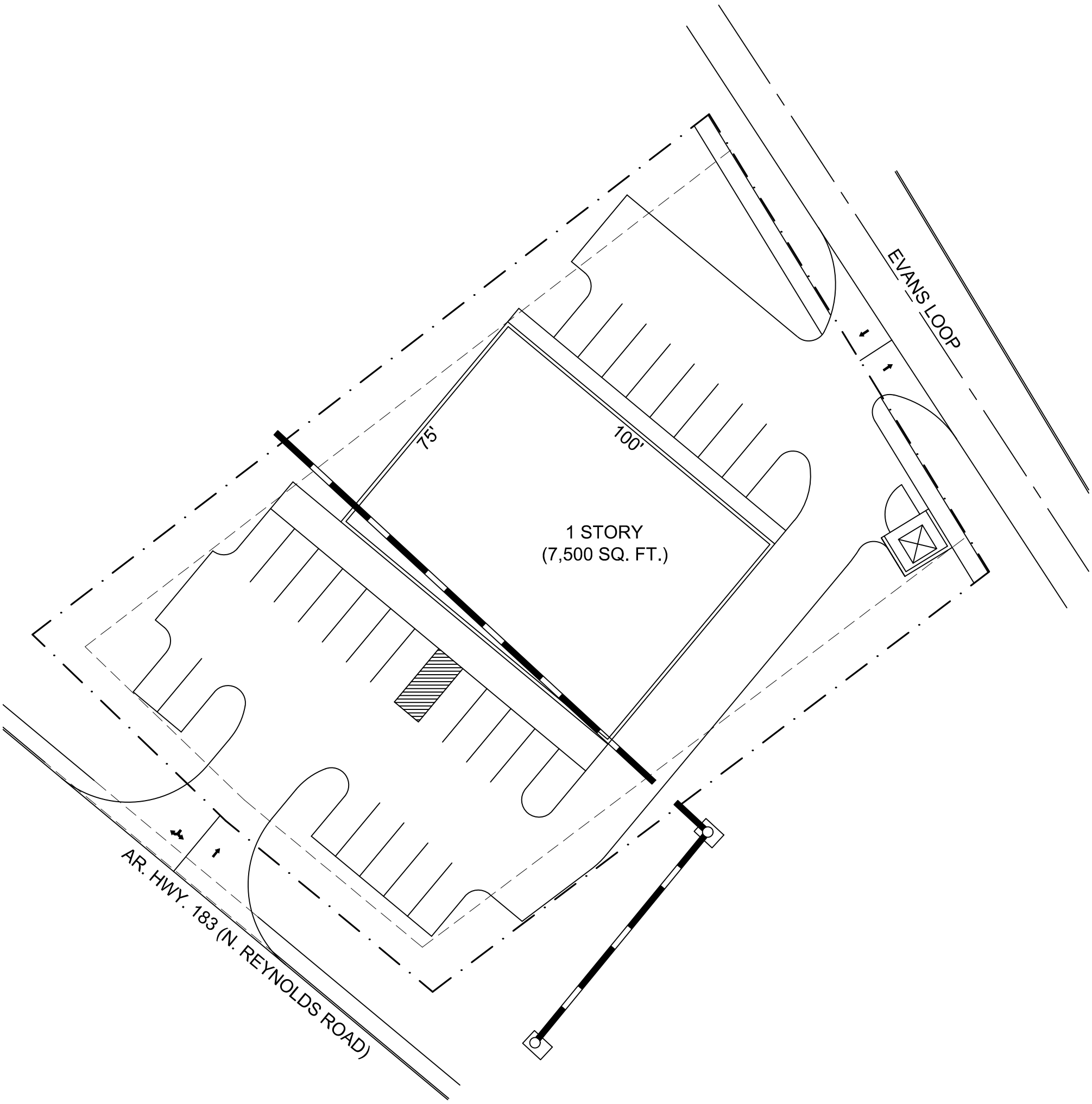
Signature of Owner
(if owner-builder) _____Date_____

Calculations
Approved: _____Date_____
Bryant Water Utilities General Manager

04/28/2022
A/E # 2215

terry burruss Architect
11912 KANIS ROAD, SUITE F-8
LITTLE ROCK, ARKANSAS 72211
501-376-3676 FAX 376-3766
design, planning and interiors

PRELIMINARY SITE PLAN FOR:
ABBY ROAD
1812 N. REYNOLDS ROAD
BRYANT, AR

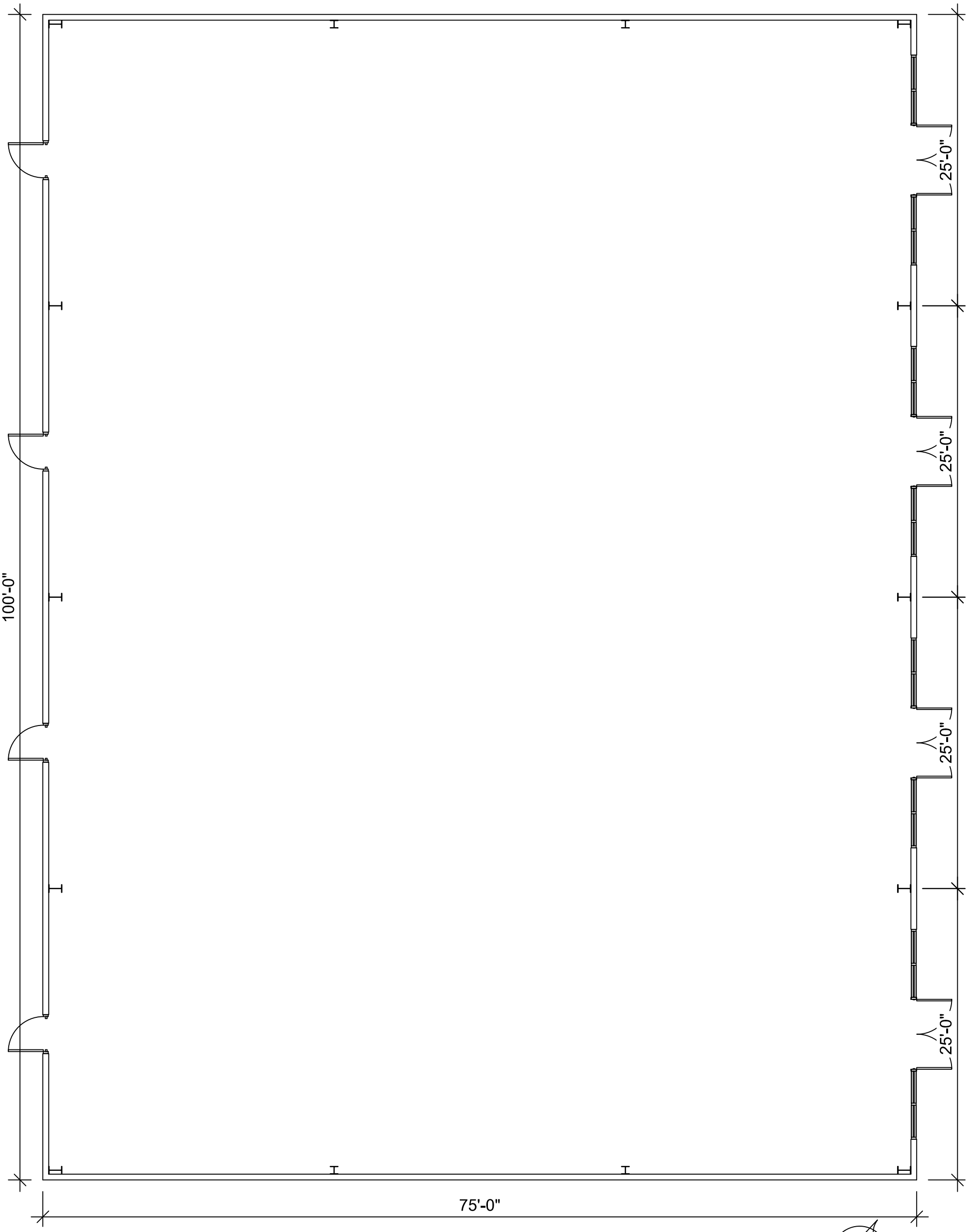


SCHEME #2 ARCHITECTURAL SITE PLAN — SCALE: 1"=30'-0"

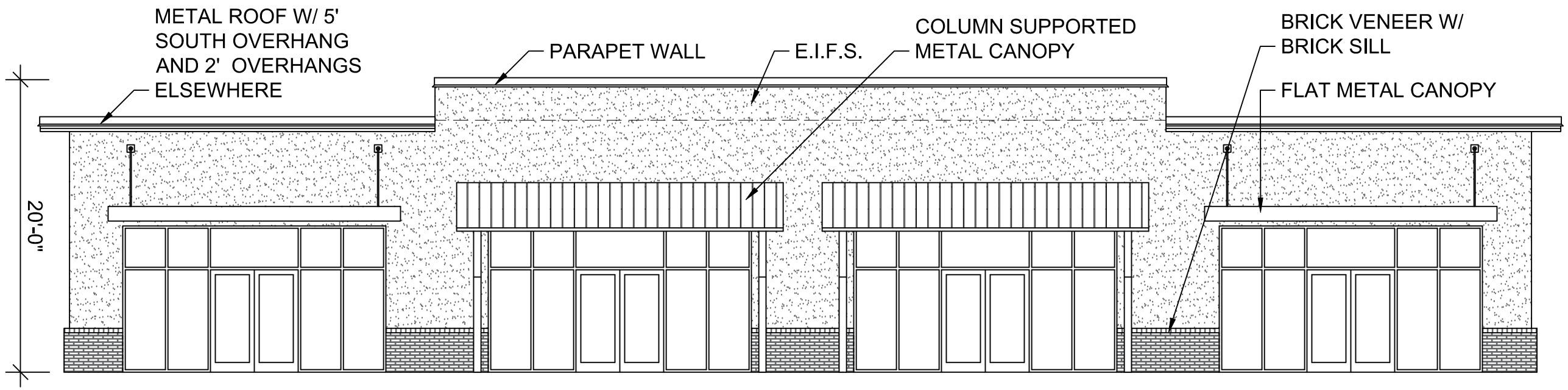
04/28/2022
A/E # 2215

terry burruss Architect
11912 KANIS ROAD, SUITE F-8
LITTLE ROCK, ARKANSAS 72211
501-376-3676 FAX 376-3766
design, planning and interiors

PRELIMINARY SITE PLAN FOR:
ABBY ROAD
1812 N. REYNOLDS ROAD
BRYANT, AR

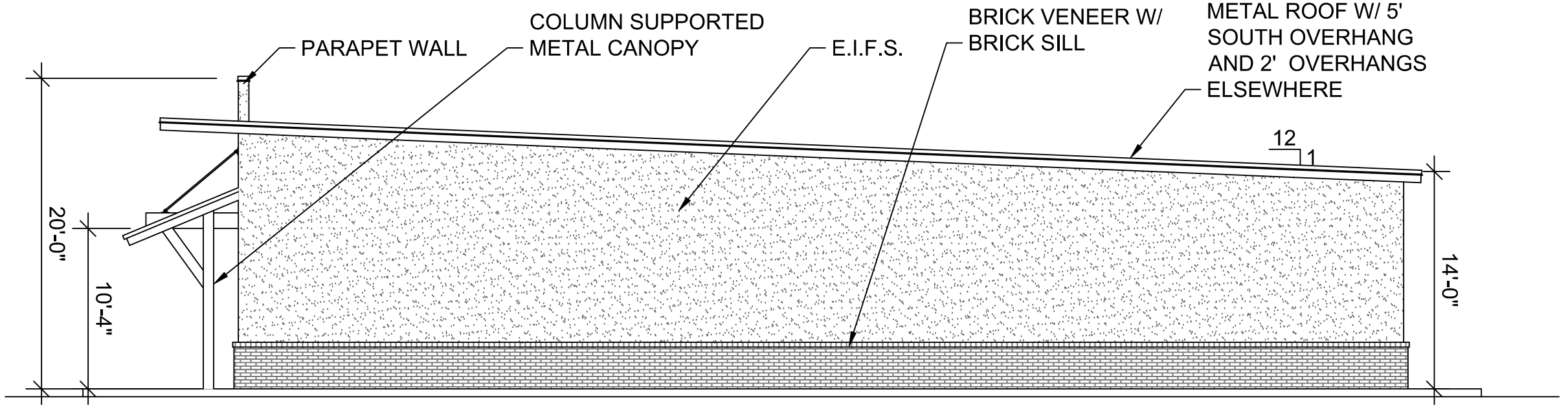


PRELIMINARY FLOOR PLAN — SCALE: 1/8"=1'-0"



SCHEME #A SOUTH ELEVATION — SCALE: 1/8"=1'-0"

0' 8' 16' 24'



SCHEME #A EAST ELEVATION — SCALE: 1/8"=1'-0"

0' 8' 16' 24'

04/28/2022
A/E #2215

terry huss Architect
11912 KANIS ROAD, SUITE F-8
LITTLE ROCK, ARKANSAS 72211
501-376-3676 FAX 376-3766
design, planning and interiors

PRELIMINARY SITE PLAN FOR:
ABBY ROAD
1812 N. REYNOLDS ROAD
BRYANT, AR

#2215

City of Bryant, Arkansas
Community Development
210 SW 3rd Street Bryant, AR 72022
501-943-0943

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.

Note: Electrical Permits may be Required, Please contact the Community Development Office for more information.

Date: 04/06/2022

Sign Co. or Sign Owner

Name Viet Tram
Address 3310 Main ST #200
City, State, Zip BRYANT AR 72022
Phone 408 630 0402
Email Address Viettram799@Ayhoo.com

Property Owner

Name Viet Tram
Address 3310 Main ST #200
City, State, Zip Bryant AR 72022
Phone 408 630 0402
Email Address Viettram799@yahoo.com

GENERAL INFORMATION

Name of Business VN NAILS SPA
Address/Location of sign 3310 Main ST BRYANT AR 72022
Zoning Classification _____

Please use following page to provide details on the signs requesting approval. Along with information provided on this application, **a Site Plan showing placement of sign(s) and any existing sign(s) on the property is required** to be submitted. **Renderings of the sign(s) showing the correct dimensions is also required** to be submitted with the application. A thirty-five dollar ($35) per sign payment will be collected at the time of permit issuance. According to the Sign Ordinance a fee for and sign variance or special sign permit request shall be one hundred dollars ($100). Additional documentation may be required by Sign Administrator.

READ CAREFULLY BEFORE SIGNING

I _____, do hereby certify that all information contained within this application is true and correct. I fully understand that the terms of the Sign Ordinance supersede the Sign Administrator's approval and that all signs must fully comply with all terms of the Sign Ordinance regardless of approval. I further certify that the proposed sign is authorized by the owner of the property and that I am authorized by the property owner to make this application. I understand

1st Submittal → Too Large

7

24

2nd Submittal → Approved ✓

New Measurement

Spike

Capture

Measurements

Shape	Area	Perimeter	Dimensions
Area	48.3ft²	35' 3"	14' 3" x 3' 5" x 14' 3" x 3' 5"

City of Bryant, Arkansas
Community Development
210 SW 3rd Street Bryant, AR 72022
501-943-0943

SIGN PERMIT APPLICATION

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Note: Electrical Permits may be Required, Please contact the Community Development Office for more information.

Date: 04/06/2022

Sign Co. or Sign Owner

Name Viet Tran
Address 3310 Main ST #200
City, State, Zip BRYANT AR 72022
Phone 4086300402
Email Address Viettran799@AYhoo.com

Property Owner

Name Viet tran
Address 3310 Main ST #200
City, State, Zip Bryant AR 72022
Phone 4086300402
Email Address Viettran799@yahoo.com

GENERAL INFORMATION

Name of Business VN NAILS SPA

Address/Location of sign 3310 Main ST BRYANT AR 72022

Zoning Classification _____

Please use following page to provide details on the signs requesting approval. Along with information provided on this application, **a Site Plan showing placement of sign(s) and any existing sign(s) on the property is required** to be submitted. **Renderings of the sign(s) showing the correct dimensions is also required** to be submitted with the application. A thirty-five dollar ($35) per sign payment will be collected at the time of permit issuance. According to the Sign Ordinance a fee for and sign variance or special sign permit request shall be one hundred dollars ($100). Additional documentation may be required by Sign Administrator.

READ CAREFULLY BEFORE SIGNING

I _____, do hereby certify that all information contained within this application is true and correct. I fully understand that the terms of the Sign Ordinance supersede the Sign Administrator's approval and that all signs must fully comply with all terms of the Sign Ordinance regardless of approval. I further certify that the proposed sign is authorized by the owner of the property and that I am authorized by the property owner to make this application. I understand

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
	24 Fox 3 Fm	37m x 26m		Top of Sign	Bottom of Sign	
A		0.14	168			
B						
C						
E						
F						
G						

7

24

City of Bryant, Arkansas
Community Development
210 SW 3rd Street Bryant, AR 72022
501-943-0943

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.

Note: Electrical Permits may be Required, Please contact the Community Development Office for more information.

Date: 3/8/22

Sign Co. or Sign Owner

Name Arkansas Sign & Banner
Address 1914 S Walton Blvd
City, State, Zip Bentonville, AR 72712
Phone 479-271-9722
Email Address lee@arkansassign.net

Property Owner

Name Modern Storage
Address 300 Dell Drive
City, State, Zip Bryant, AR
Phone 501-758-2441
Email Address alexandra@richcre.com

GENERAL INFORMATION

Name of Business Modern Storage
Address/Location of sign 300 Dell Drive
Zoning Classification C-3

Please use following page to provide details on the signs requesting approval. Along with information provided on this application, **a Site Plan showing placement of sign(s) and any existing sign(s) on the property is required** to be submitted. **Renderings of the sign(s) showing the correct dimensions is also required** to be submitted with the application. A thirty-five dollar ($35) per sign payment will be collected at the time of permit issuance. According to the Sign Ordinance a fee for and sign variance or special sign permit request shall be one hundred dollars ($100). Additional documentation may be required by Sign Administrator.

READ CAREFULLY BEFORE SIGNING

I Lee Reinhardt, do hereby certify that all information contained within this application is true and correct. I fully understand that the terms of the Sign Ordinance supersede the Sign Administrator's approval and that all signs must fully comply with all terms of the Sign Ordinance regardless of approval. I further certify that the proposed sign is authorized by the owner of the property and that I am authorized by the property owner to make this application. I understand

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	
A	facade	424.43"x48"	141.48	32'	28'	
B						
C						
E						
F						
G						

INSTALL ADDRESS: 300 DELL DRIVE, BRYANT, AR

PAGE: 1/1

FILE PATH:

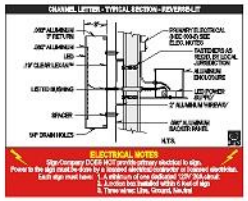
PROOF DATE: 05-05-2022
DUE DATE: 00-00-2022

424.43 in

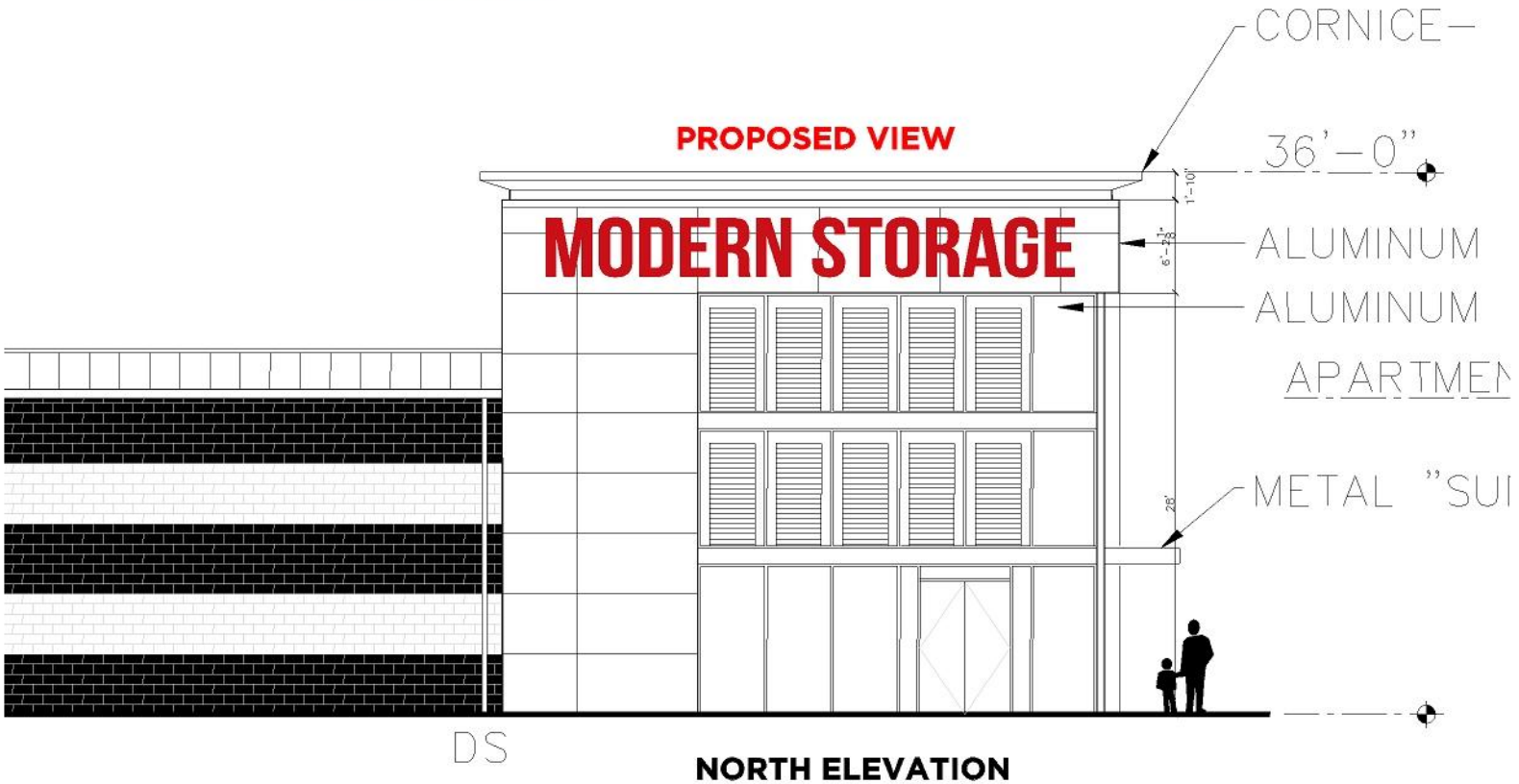
48 in

MODERN STORAGE

BUILDING SIGN
"MODERN"
- CHANNEL LETTERS
- HALO LIT
- ALUMINUM FACE
  - PAINTED - TBD
- ALUMINUM RETURNS
  - PAINTED - TBD
- RED LED
- RELIEF MOUNT



PROPOSED VIEW



NORTH ELEVATION

APPROVED BY: _____ DATE: _____

WE HAVE REVIEWED ALL SPELLING, SIZING, COLORS, QUANTITIES AND MATERIALS AND UNDERSTAND ALL REVISIONS AFTER APPROVAL WILL BE OUR RESPONSIBILITY.

ARKANSAS SIGN & BANNER
TYLER BOOTHE •tyler@arkansassign.net
479.271.9722

COMPANY:
MODERN STORAGE

CONTACT:
ALEXANDRA RICHARDSON

PHONE:
501-758-2441

EMAIL:
alexandra@rlchcre.com

BILL TO:
MODERN STORAGE

BUILDING SIGN
- ☐ SIZE: SEE PROOF
- ☐ SIDES: 1
- ☐ QUANTITY: 1
- ☐ LIT: HALO
- ☐ MOUNT: RELIEF

MATERIALS
- ☐ ALUMINUM
- ☐ ACRYLIC
- ☐ LED's
- ☐
- ☐

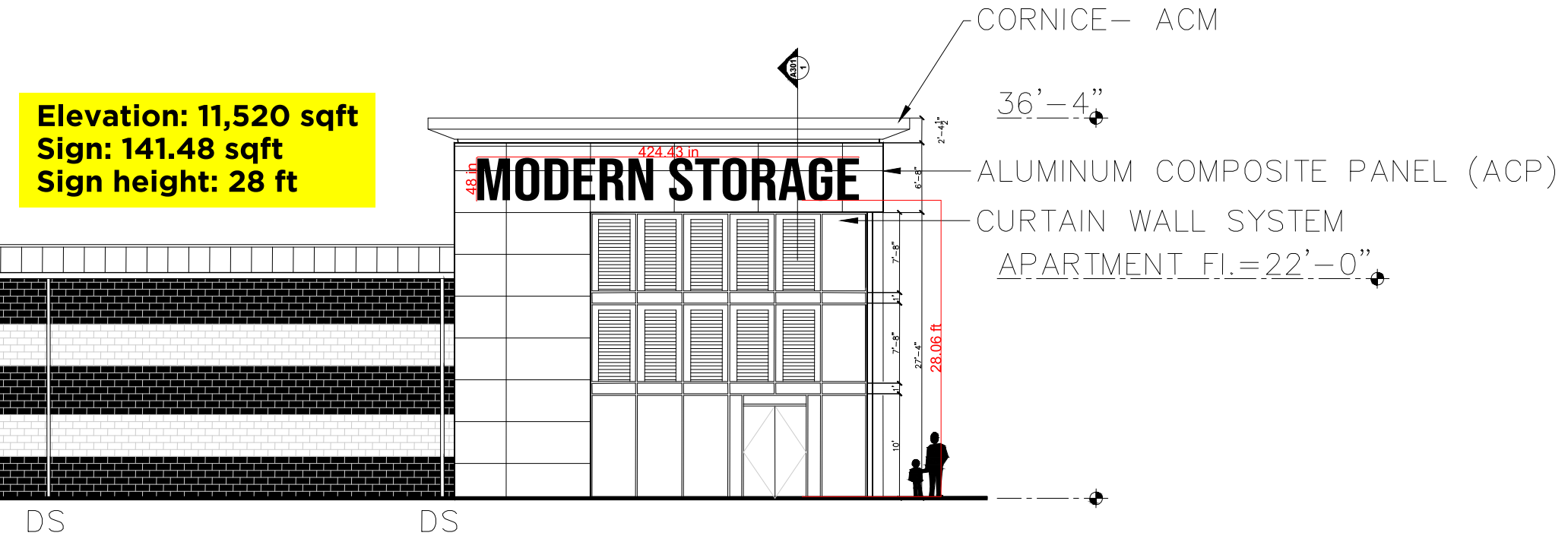
COLOR MATCH
- ☐ ARLON 2500-33
- ☐
- ☐
- ☐
- ☐

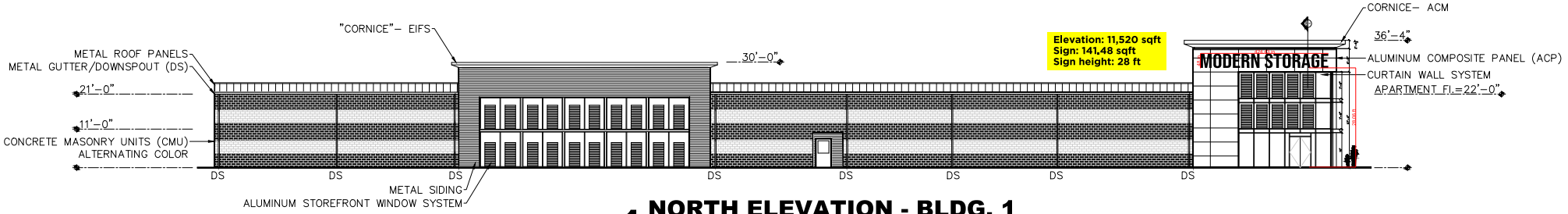
INSTRUCTIONS
- ☐ INSTALL ON BUILDING
- ☐
- ☐

These drawings reflect exactly what Arkansas Sign & Banner plans to fabricate for this project. **Please carefully review all pages, as these drawings supercede all prior written or verbal communications.** Arkansas Sign & Banner is responsible only for details of the job that are included in these drawings. If these drawings accurately represent this project, and you would like us to proceed with the job as drawn, please sign and date below, and email all pages back to your designer.

APPROVED ☐ REVISE ☐

Elevation: 11,520 sqft
Sign: 141.48 sqft
Sign height: 28 ft





1 NORTH ELEVATION - BLDG. 1

SC: 1/16"=1'–0"

City of Bryant, Arkansas
Community Development
210 SW 3rd Street Bryant, AR 72022
501-943-0943
community development@cityofbryant.com

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.

Note: Electrical Permits may be Required, Please contact the Community Development Office for more information.

Date: 5.3.22

Sign Co. or Sign Owner

Name Ace Sign Company
Address 11935 I 30
City, State, Zip Little Rock AR 72209
Phone 501-562-0800
Alternate Phone _____

Property Owner

Name Bart Ferguson Enterprises, LLC
Address 1100 Ferguson Drive
City, State, Zip Benton AR 72015
Phone 501-840-2282
Alternate Phone _____

GENERAL INFORMATION

Name of Business Pizza Hut
Address/Location of sign 3429 Market Place Ave, Bryant 72022
Zoning Classification _____

Please use following page to provide details on the signs requesting approval. Along with information provided on this application, **a Site Plan showing placement of sign(s) and any existing sign(s) on the property is required** to be submitted. **Renderings of the sign(s) showing the correct dimensions is also required** to be submitted with the application. A thirty-five dollar ($35) per sign payment will be collected at the time of permit issuance. According to the Sign Ordinance a fee for and sign variance or special sign permit request shall be one hundred dollars ($100). Additional documentation may be required by Sign Administrator.

READ CAREFULLY BEFORE SIGNING

I Joni Hodges, do hereby certify that all information contained within this application is true and correct. I fully understand that the terms of the Sign Ordinance supersede the Sign Administrator's approval and that all signs must fully comply with all terms of the Sign Ordinance regardless of approval. I further certify that the proposed sign is authorized by the owner of the property and that I am authorized by the property owner to make this application. I understand

Pizza Hut
Pg 2

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.

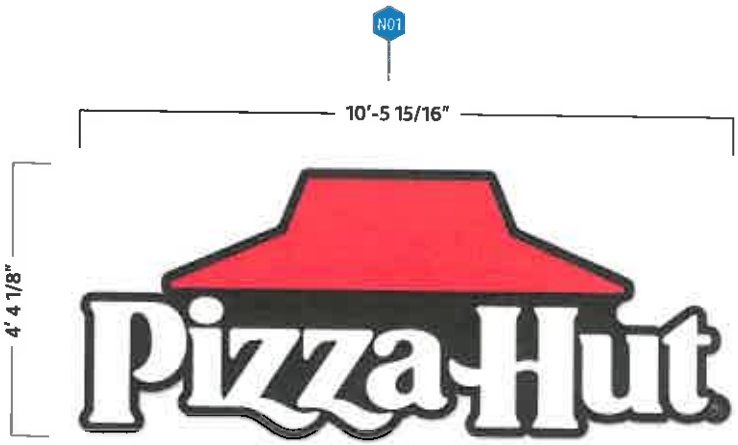
5/3/22 Joni Hodges

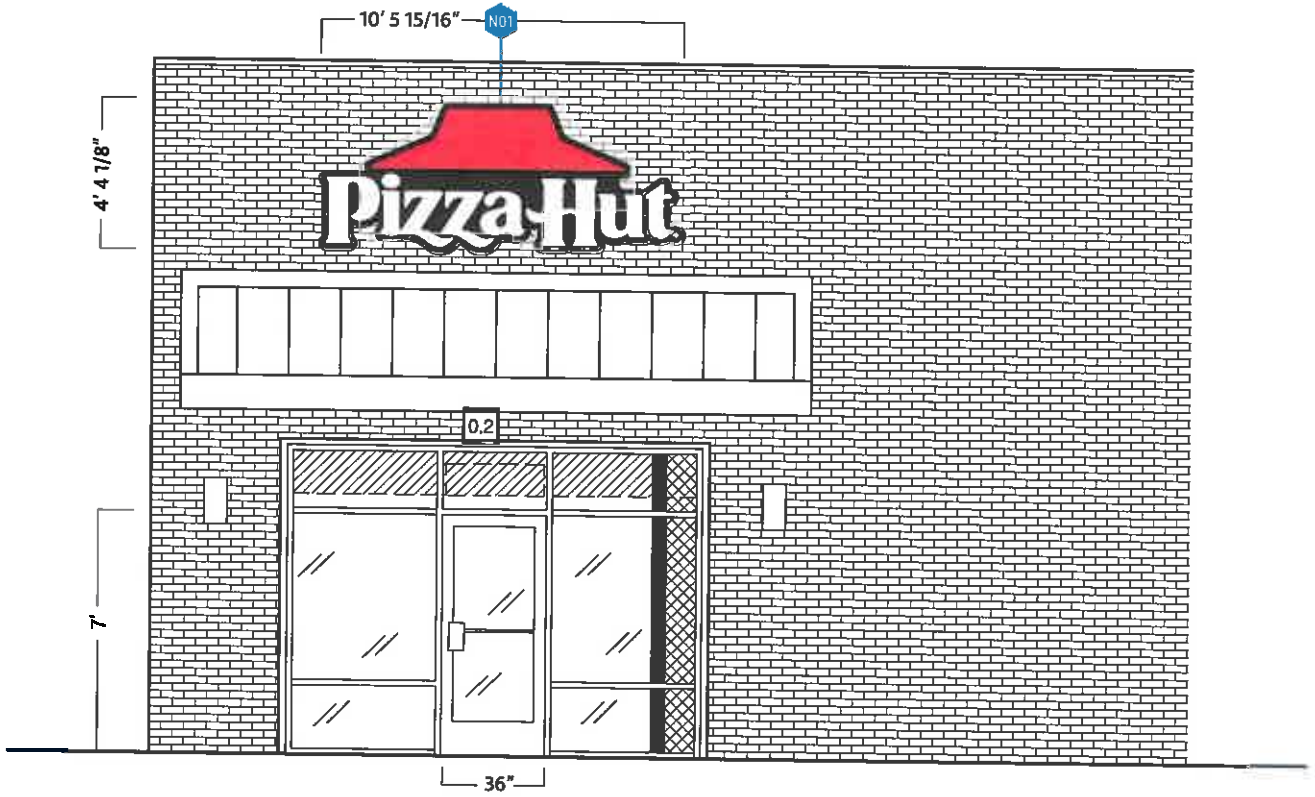
Use table below to enter information regarding each sign for approval. Please use each letter to reference each sign rendering.

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	
A	Wall cabinet	4' 4 1/8" H 10' 5 15/16" L	46 Sq ft			
B		5" W				
C						
E						
F						
G						

FRONT ELEVATION

	QTY.	CODE	DESCRIPTION
N01	1	ISC-FM-27	27" Iconic Stacked Cloud





Scale: 3/16"=1'

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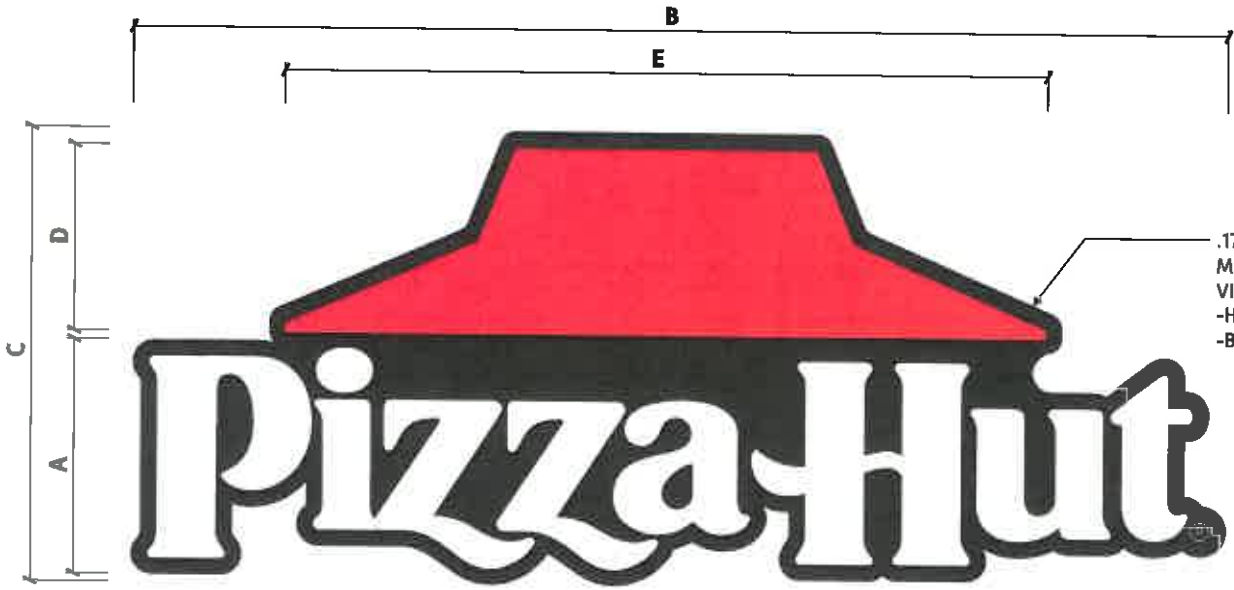
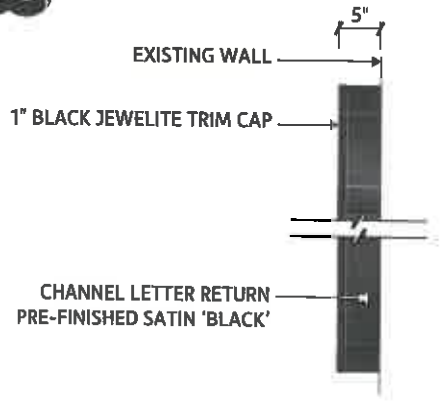
NO1 27" ICONIC STACKED CLOUD



.177" 7328 TRANSLUCENT 'WHITE' IMPACT MODIFIED ACRYLIC W/ SURFACE APPLIED VINYL AS FOLLOWS:
-HAT IS 3M 3630-33 'RED' VINYL
-BACKGROUND IS 3M 7725-22 'BLACK' VINYL

FRONT ELEVATION



SIDE VIEW

SIGN TYPE	A (LH)	B (OAW)	C (OAH)	D (HH)	E (HW)	SQ. FT.
ISC-FM-18	1'-6"	6'-11 15/16"	2'-10 3/4"	1'-2 3/16"	4'-10 7/16"	20.26
ISC-FM-21	1'-9"	8'-1 15/16"	3'-4 9/16"	1'-4 9/16"	5'-8 3/16"	27.59
ISC-FM-24	2'-0"	9'-3 15/16"	3'-10 5/16"	1'-6 15/16"	6'-5 15/16"	36.00
ISC-FM-27	2'-3"	10'-5 15/16"	4'-4 1/8"	1'-9 1/4"	7'-3 11/16"	45.59
ISC-FM-30	2'-6"	11'-7 15/16"	4'-9 15/16"	1'-11 5/8"	8'-1 7/16"	56.30
ISC-FM-33	2'-9"	12'-9 15/16"	5'-3 3/4"	2'-2"	8'-11 1/8"	68.15
ISC-FM-36	3'-0"	13'-11 15/16"	5'-9 1/2"	2'-4 3/8"	9'-8 7/8"	81.05

Scale: ??=??

AGI

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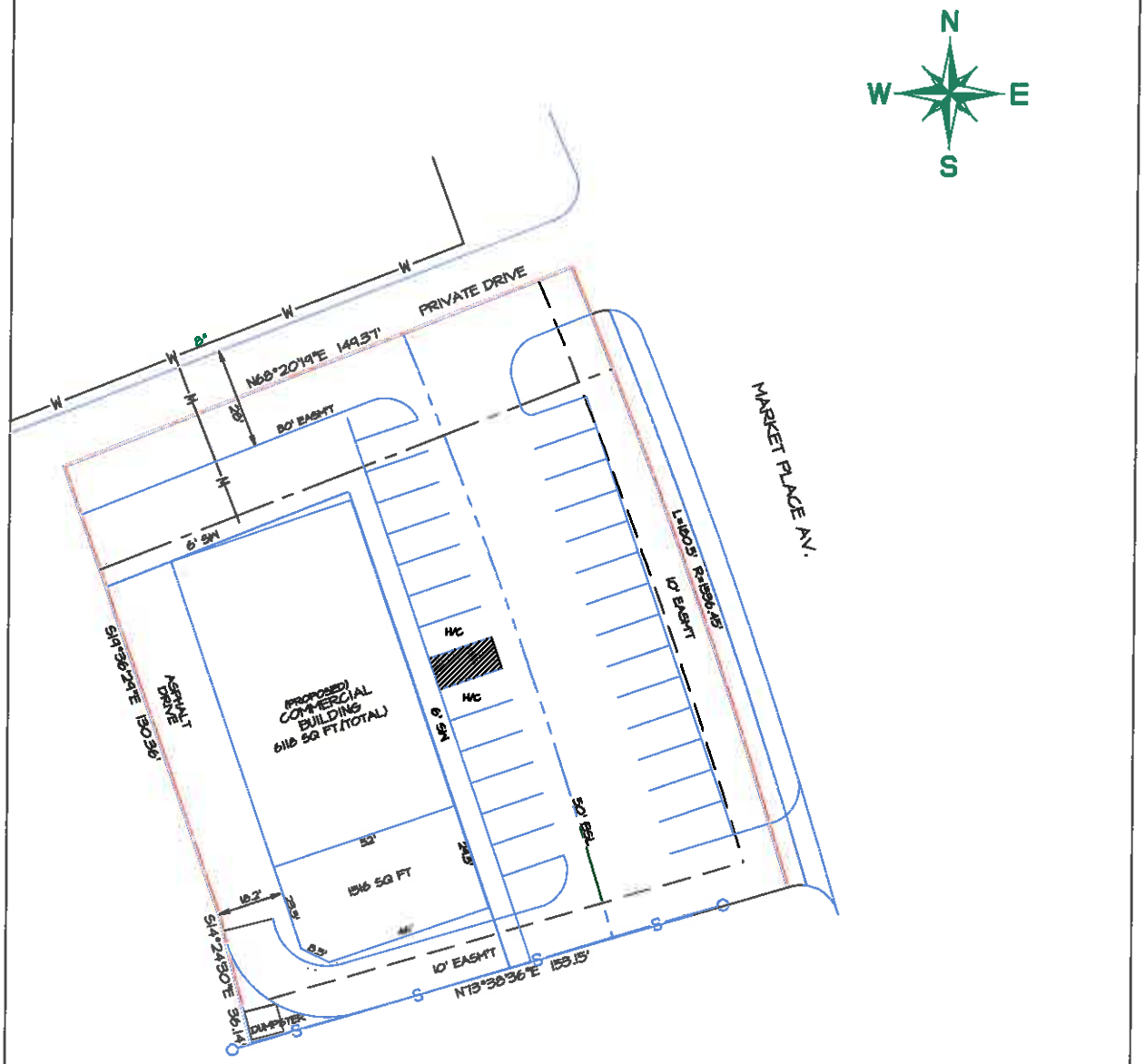
Pizza Hut



LEGAL DESCRIPTION
LOT 10, MARKET PLACE CENTER, PHASE 2, BYRANT, SALINE COUNTY, ARKANSAS.

DATE: 11-01-2021
GRAPHIC SCALE 1"=30'

0 30 60 90

PROFESSIONAL LICENSED SURVEYOR
STATE OF ARKANSAS
No. 1144
KERRY D. LANE

DRAWING NO.	REAL ESTATE SERVICES OF SALINE COUNTY, INC.	
076-21	501-315-8866 lanesurveying@gmail.com	
REVISIONS BY	FOR USE AND BENEFIT OF:	DRAWN BY
DATE	SITE PLAN MARKET PLACE CENTER	CHECKED BY
		APPROVED BY
	1200 FERGUSON DR., SUITE 5, BENTON, AR., 72015	
	STATE FILING CODE:	

CERTIFICATE OF AUTHORIZATION
REAL ESTATE SERVICES OF SALINE COUNTY INC.
No. 2023
ARKANSAS SURVEYOR

City of Bryant, Arkansas
Community Development
210 SW 3rd Street Bryant, AR 72022
501-943-0943

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.

Note: Electrical Permits may be Required, Please contact the Community Development Office for more information.

Date: 5-4-2022

Sign Co. or Sign Owner

Name Cupples Sign Co.
Address 208 Jones Rd.
City, State, Zip Paragould, AR 72450
Phone 870-236-8566
Email Address angie@cupplessigns.com

Property Owner

Name Alcoa Exchange LLC
Address 1855 Olympic Blvd, Ste. 300
City, State, Zip Walnut Creek, CA 94596
Phone 925-414-3381
Email Address wendy@hallequitiesgroup.com

GENERAL INFORMATION

Name of Business Leap Kids Dental
Address/Location of sign 7409 Alcoa Rd. #5
Zoning Classification C2

Please use following page to provide details on the signs requesting approval. Along with information provided on this application, **a Site Plan showing placement of sign(s) and any existing sign(s) on the property is required** to be submitted. **Renderings of the sign(s) showing the correct dimensions is also required** to be submitted with the application. A thirty-five dollar ($35) per sign payment will be collected at the time of permit issuance. According to the Sign Ordinance a fee for and sign variance or special sign permit request shall be one hundred dollars ($100). Additional documentation may be required by Sign Administrator.

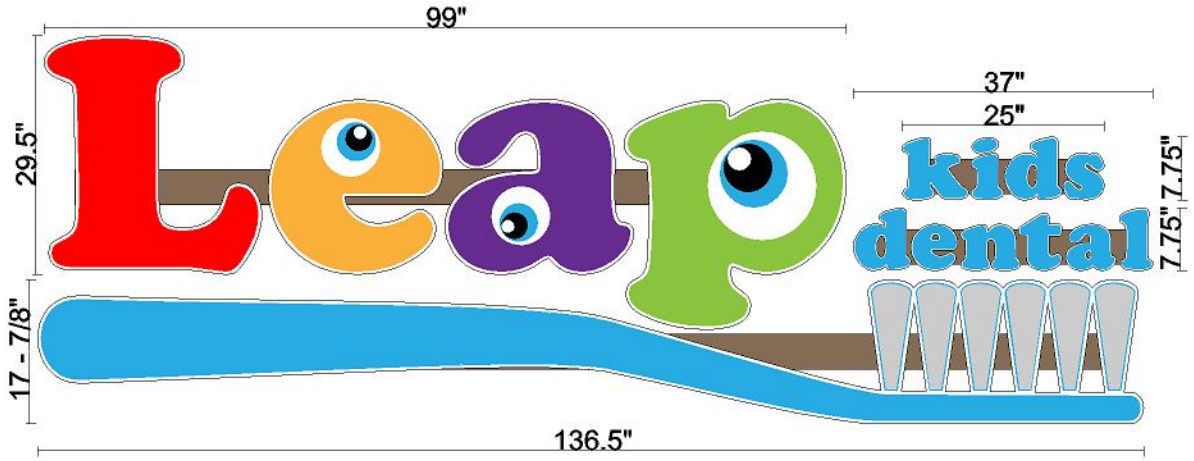
READ CAREFULLY BEFORE SIGNING

I Angie Cupples, do hereby certify that all information contained within this application is true and correct. I fully understand that the terms of the Sign Ordinance supersede the Sign Administrator's approval and that all signs must fully comply with all terms of the Sign Ordinance regardless of approval. I further certify that the proposed sign is authorized by the owner of the property and that I am authorized by the property owner to make this application. I understand

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	
A	Facade	4'x11'4.5"	46	19'3"	15'3"	
B						
C						
E						
F						
G						



Standard Channel Letter & Logo
Black Returns & Black Trimcap
Translucent Vinyl on Acrylic Faces
LED Illumination

Raceway Mounted

1 SET REQUIRED

Raceway

SW 9096
Beige Intenso

CUPPLES SIGN COMPANY
208 Jones Road
Paragould, AR 72450
Phone: 870-236-8566
Fax: 870-236-8722

ARTWORK MY NOT BE REPRODUCED
© 2013 Cupples Sign Company

DISCLAIMER

DUE TO MANUFACTURING PROCESSES AND MATERIAL SIZES, FINISHED PRODUCTS MAY VARY.
PRIMARY ELECTRICAL RUNS & CONNECTIONS TO BE FURNISHED BY OTHERS.

BEFORE YOU APPROVE THIS PROOF, PLEASE READ ALL COPY CAREFULLY AND COMPLETELY. CHECK FOR SPELLING ERRORS, COPY OMISSIONS, AND COLOR OR DESIGN DETAILS. CUPPLES SIGN COMPANY WILL BE RESPONSIBLE FOR ANY ERRORS WHICH ARE NOT MARKED ON THIS PROOF. ANY CHANGES DESIRED DURING PRODUCTION, DUE TO MISTAKES AFTER APPROVAL OF THIS PROOF WILL BE AT THE EXPENSE OF THE CUSTOMER.

Customer: Leap Kids Dental		Address: 7409 Alcoa Road #5	
Location: Bryant, AR 72022		Drawing #: LeapKids_AlcoaRd-Bryant_CL	
Designer: Lexie Lane	Date: 04/26/2022	Scale: NTS	Page: 1 of 1
Approval:			5/2/22
Approved By			Approval Date