AI: 85413

MSR109645

Rec'd via email:
08/29/2025

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

LARGE CONSTRUCTION NOTICE OF INTENT (LCNOI) FOR COVERAGE UNDER THE LARGE CONSTRUCTION STORM WATER GENERAL NPDES PERMIT

INSTRUCTIONS

The Large Construction Notice of Intent (LCNOI) is for coverage under the Large Construction General Permit for land disturbing activities of five (5) acres or greater; or for land disturbing activities, which are part of a larger common plan of development or sale that are initially less than five (5) acres but will ultimately disturb five (5) or more acres. Applicant must be the owner or operator. For construction activities, the operator is typically the prime contractor. The owner(s) of the property and the prime contractor associated with regulated construction activity on the property have joint and severable responsibility for compliance with the Large Construction Storm Water General Permit MSR10.

If the company seeking coverage is a corporation, a limited liability company, a partnership, or a business trust, attach proof of its registration with the Mississippi Secretary of State and/or its Certificate of Good Standing. This registration or Certificate of Good Standing must be dated within twelve (12) months of the date of the submittal of this coverage form. Coverage will be issued in the company name as it is registered with the Mississippi Secretary of State.

Completed LCNOIs should be filed at least thirty (30) days prior to the commencement of construction. Discharge of storm water from large construction activities without written notification of coverage is a violation of state law.

Submittals with this LCNOI must include:
- **A site-specific Storm Water Pollution Prevention Plan (SWPPP) developed in accordance with ACT5 of the General Permit**
- **A detailed site-specific scaled drawing showing the property layout and the features outlined in ACT5 of the General Permit**
- **A United States Geological Survey (USGS) quadrangle map or photocopy, extending at least one-half mile beyond the facility property boundaries with the site location and outfalls outlined or highlighted. The name of the quadrangle map must be shown on all copies. Quadrangle maps can be obtained from the MDEQ, Office of Geology at 601-961-5523.**

Additional submittals may include the following, if applicable:
- **Appropriate Section 404 documentation from U.S. Army Corps of Engineers**
- **Appropriate documentation concerning future disposal of sanitary sewage and sewage collection system construction**
- **Appropriate documentation from the MDEQ Office of Land & Water concerning dam construction and low flow requirements**
- **Approval from County Utility Authority in Hancock, Harrison, Jackson, Pearl River and Stone Counties**
- **Antidegradation report for disturbance within Waters of the State**

ALL QUESTIONS MUST BE ANSWERED (Answer "NA" if the question is not applicable)

OC

MSR10 9645

(NUMBER TO BE ASSIGNED BY STATE)

APPLICANT IS THE: ☑ **OWNER** ☐ **PRIME CONTRACTOR**

OWNER CONTACT INFORMATION

OWNER CONTACT PERSON: Jordan Bursch

OWNER COMPANY LEGAL NAME: Meritage Homes of Mississippi

OWNER STREET OR P.O. BOX: 1635 Popps Ferry Road, Suite A

OWNER CITY: Biloxi **STATE:** MS **ZIP:** 39532

OWNER PHONE #: (228) 207-7169 **OWNER EMAIL:** jordan.bursch@meritagehomes.com

PREPARER CONTACT INFORMATION

IF NOI WAS PREPARED BY SOMEONE OTHER THAN THE APPLICANT

CONTACT PERSON: Daniel Boudreaux

COMPANY LEGAL NAME: Engineering Services, LLC

STREET OR P.O. BOX: 14397 Creosote Road

CITY: Gulfport **STATE:** MS **ZIP:** 39503

PHONE # ( ) N/A **EMAIL:** Ocean Springs

PRIME CONTRACTOR CONTACT INFORMATION

PRIME CONTRACTOR CONTACT PERSON: _____

PRIME CONTRACTOR COMPANY LEGAL NAME: _____

PRIME CONTRACTOR STREET OR P.O. BOX: _____

PRIME CONTRACTOR CITY: _____ **STATE:** _____ **ZIP:** _____

PRIME CONTRACTOR PHONE #: (___)_____ **PRIME CONTRACTOR EMAIL:** _____

FACILITY SITE INFORMATION

FACILITY SITE NAME: Fountainbleau Subdivision

FACILITY SITE ADDRESS (If the physical address is not available, please indicate the nearest named road. For linear projects indicate the beginning of the project and identify all counties the project traverses.)

STREET: Fountainbleau Road

CITY: Ocean Springs STATE: MS COUNTY: Jackson ZIP: 39564

FACILITY SITE TRIBAL LAND ID (N/A If not applicable): N/A

LATITUDE: 30 **degrees** 23 **minutes** 17 **seconds** **LONGITUDE:** -88 **degrees** 45 **minutes** 03 **seconds**

LAT & LONG DATA SOURCE (GPS *(Please GPS Project Entrance/Start Point)* or Map Interpolation): Map Interpolation

TOTAL ACREAGE THAT WILL BE DISTURBED [1]: 75 acres

IS THIS PART OF A LARGER COMMON PLAN OF DEVELOPMENT? YES ☐ NO ☑

IF YES, NAME OF LARGER COMMON PLAN OF DEVELOPMENT: _____
AND PERMIT COVERAGE NUMBER: MSR1035__

ESTIMATED CONSTRUCTION PROJECT START DATE: 2025-12-01 (YYYY-MM-DD)

ESTIMATED CONSTRUCTION PROJECT END DATE: 2027-12-01 (YYYY-MM-DD)

DESCRIPTION OF CONSTRUCTION ACTIVITY: Construction of residential subdivision

PROPOSED DESCRIPTION OF PROPERTY USE AFTER CONSTRUCTION HAS BEEN COMPLETED:
residential subdivision

SIC Code: 7-S_____ **NAICS Code** 8-W_____

NEAREST NAMED RECEIVING STREAM: _____

IS RECEIVING STREAM ON MISSISSIPPI'S 303(d) LIST OF IMPAIRED WATER BODIES? (The 303(d) list of impaired waters and TMDL stream segments may be found on MDEQ's web site: http://www.deq.state.ms.us/MDEQ.nsf/page/TWB_Total_Maximum_Daily_Load_Section**)** YES ☐ NO ☑

HAS A TMDL BEEN ESTABLISHED FOR THE RECEIVING STREAM SEGMENT? YES ☐ NO ☑

FOR WHICH POLLUTANT:

ARE THERE RECREATIONAL STREAMS, PRIVATE/PUBLIC PONDS OR LAKES WITHIN ½ MILE DOWNSTREAM OF PROJECT BOUNDRY THAT MAY BE IMPACTED BY THE CONSTRUCTION ACTIVITY? YES ☐ NO ☐

EXISTING DATA DESCRIBING THE SOIL (for linear projects please describe in SWPPP):

_____

WILL FLOCCULANTS BE USED TO TREAT TURBIDITY IN STORM WATER? YES ☐ NO ☐

IF YES, INDICATE THE TYPE OF FLOCCULANT. ☐ **ANIONIC POLYACRYLIMIDE (PAM)**
☐ **OTHER** _____

IF YES, DOES THE SWPPP DESCRIBE THE METHOD OF INTRODUCTION, THE LOCATION OF INTRODUCTION AND THE LOCATION OF WHERE FLOCCULATED MATERIAL WILL SETTLE?

IS A SDS SHEET INCLUDED FOR THE FLOCCULATE? YES ☑ NO ☐

WILL THERE BE A 50 FT BUFFER BETWEEN THE PROJECT DISTURBANCE AND THE WATERS OF THE STATE? YES ☐ NO ☑

IF NOT, PROVIDE EQUIVALENT CONTROL MEASURES IN THE SWPPP.

[1]Acreage for subdivision development includes areas disturbed by construction of roads, utilities and drainage. Additionally, a housesite of at least 10,000 ft^2 per lot (entire lot, if smaller) shall be included in calculating acreage disturbed.

DOCUMENTATION OF COMPLIANCE WITH OTHER REGULATIONS/REQUIREMENTS

COVERAGE UNDER THIS PERMIT WILL NOT BE GRANTED UNTIL ALL OTHER REQUIRED MDEQ PERMITS AND APPROVALS ARE SATISFACTORILY ADDRESSED

IS LCNOI FOR A FACILITY THAT WILL REQUIRE OTHER PERMITS? YES ☐ NO ☑

IF YES, CHECK ALL THAT APPLY: ☐ AIR ☐ HAZARDOUS WASTE ☐ PRETREATMENT

☐ WATER STATE OPERATING ☐ INDIVIDUAL NPDES ☐ OTHER: _____

IS THE PROJECT REROUTING, FILLING OR CROSSING A WATER CONVEYANCE OF ANY KIND? (If yes, contact the U.S. Army Corps of Engineers' Regulatory Branch for permitting requirements.) YES ☐ NO ☑

IF THE PROJECT REQUIRES A CORPS OF ENGINEER SECTION 404 PERMIT, PROVIDE APPROPRIATE DOCUMENTATION THAT:

-The project has been approved by individual permit, or
-The work will be covered by a nationwide permit and NO NOTIFICATION to the Corps is required, or
-The work will be covered by a nationwide or general permit and NOTIFICATION to the Corps is required

IS THE PROJECT REROUTING, FILLING OR CROSSING A STATE WATER CONVEYANCE OF ANY KIND? (If yes, please provide an antidegradation report.) YES ☐ NO ☑

IS A LAKE REQUIRING THE CONSTRUCTION OF A DAM BEING PROPOSED? (If yes, provide appropriate approval documentation from MDEQ Office of Land and Water, Dam Safety.) YES ☐ NO ☑

IF THE PROJECT IS A SUBDIVISION OR A COMMERCIAL DEVELOPMENT, HOW WILL SANITARY SEWAGE BE DISPOSED? Check one of the following and attach the pertinent documents.

☑ **Existing Municipal or Commercial System. Please attach plans and specifications for the collection system and the associated "Information Regarding Proposed Wastewater Projects" form or approval from County Utility Authority in Hancock, Harrison, Jackson, Pearl River and Stone Counties. If the plans and specifications can not be provided at the time of LCNOI submittal, MDEQ will accept written acknowledgement from official(s) responsible for wastewater collection and treatment that the flows generated from the proposed project can and will be transported and treated properly. The letter must include the estimated flow.**

☐ **Collection and Treatment System will be Constructed. Please attach a copy of the cover of the NPDES discharge permit from MDEQ or indicate the date the application was submitted to MDEQ (Date: _____.)**

☐ **Individual Onsite Wastewater Disposal Systems for Subdivisions Less than 35 Lots. Please attach a copy of the Letter of General Acceptance from the Mississippi State Department of Health or certification from a registered professional engineer that the platted lots should support individual onsite wastewater disposal systems.**

☐ **Individual Onsite Wastewater Disposal Systems for Subdivisions Greater than 35 Lots. A determination of the feasibility of installing a central sewage collection and treatment system must be made by MDEQ. A copy of the response from MDEQ concerning the feasibility study must be attached. If a central collection and wastewater system is not feasible, then please attach a copy of the Letter of General Acceptance from the State Department of Health or certification from a registered professional engineer that the platted lots should support individual onsite wastewater disposal systems.**

INDICATE ANY LOCAL STORM WATER ORDINANCE (I.E. MS4)WITH WHICH THE PROJECT MUST COMPLY:

_____

_____

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signed by:
Josh Fleming
A1F1E62A046C4A6...

8/29/2025

Signature of Applicant[1] (owner or prime contractor) | **Date Signed**

Meritage Homes of Mississippi Inc

Land Acquisition Manager

Printed Name[1] | **Title**

[1]This application shall be signed as follows:

- **For a corporation, by a responsible corporate officer.**
- **For a partnership, by a general partner.**
- **For a sole proprietorship, by the proprietor.**

For a municipal, state or other public facility, by principal executive officer, mayor, or ranking elected official

Please submit the LCNOI form to: **Chief, Environmental Permits Division**
MS Department of Environmental Quality, Office of Pollution Control
P.O. Box 2261
Jackson, Mississippi 39225

Electronically: **https://www.mdeq.ms.gov/construction-stormwater/**

Revised 3/23/22

Appendix E
POST-CONSTRUCTION STORMWATER NARRATIVE, PLANS, AND DETAILS

CONSTRUCTION PLANS FOR

BELLEVIEW SUBDIVISION

SECTION 35
TOWNSHIP 7 SOUTH
RANGE 8 WEST
JACKSON COUNTY

OWNER:

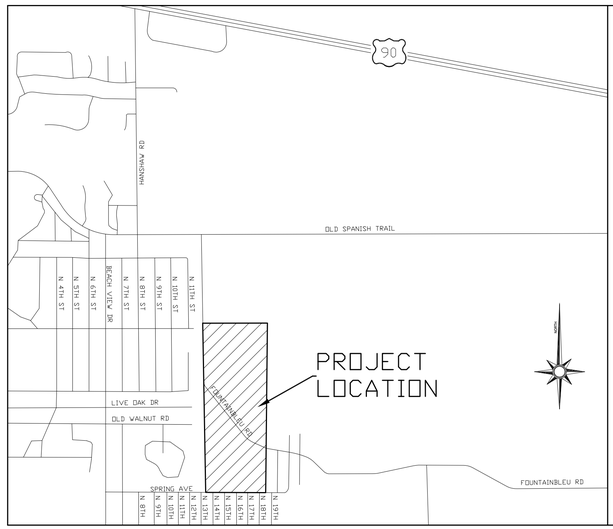
ELLIOTT HOMES, LLC
1520 29TH AVENUE
GULFPORT, MS 39501

ENGINEERING SERVICES, LLC
CONSULTING ENGINEERS

14397 CREOSOTE ROAD
GULFPORT, MISSISSIPPI 39532
PHONE: 228-297-1647

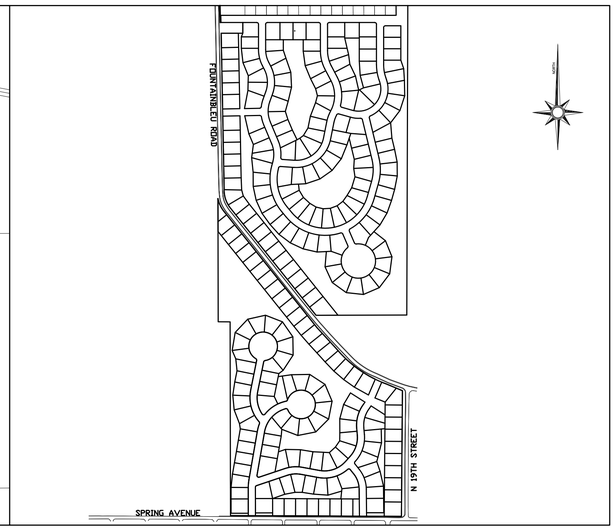
MAY 5, 2025

SHEET INDEX



VICINITY MAP

SCALE: N.T.S.



GENERAL LAYOUT

SCALE: N.T.S.

REVISED

DRAWN BY: drb3, drb

CHECKED: drb

DATE: 05/05/25

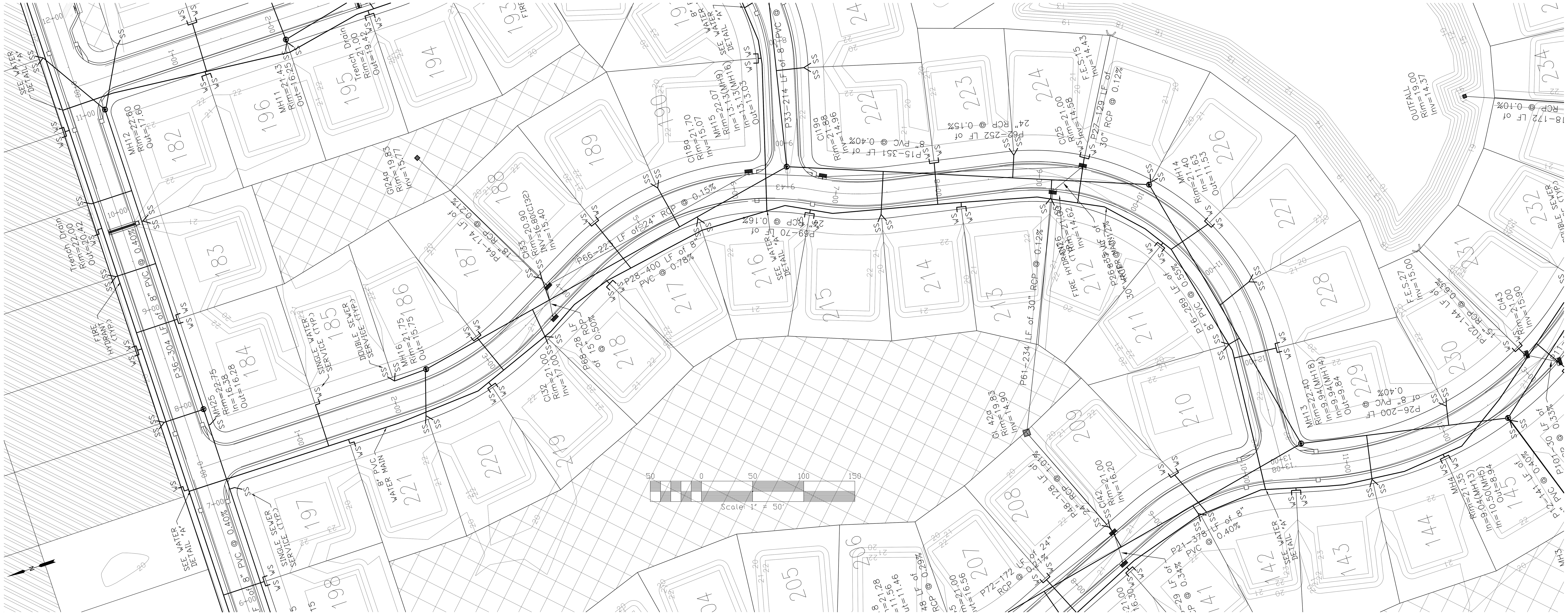
SHEET TITLE: BLAUD PLAN/PROFILE

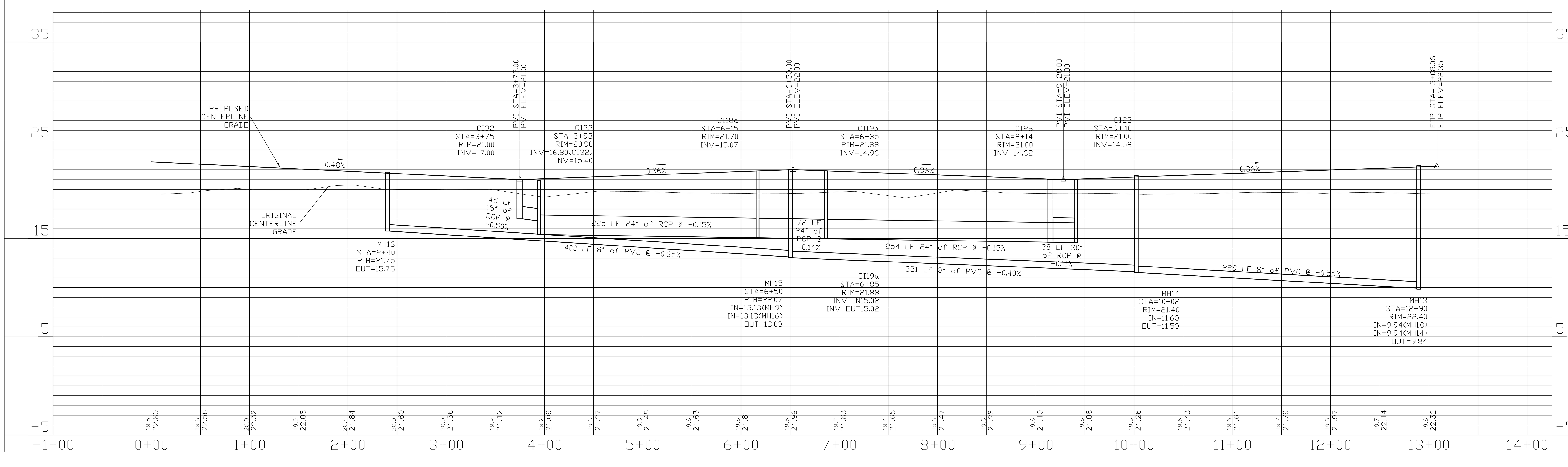
PROJECT NAME: BELLEVIEW SUBDIVISION

ENGINEERING SERVICES, LLC
14397 Creosote Road
Gulfport, Mississippi 39503
(228) 297-1647

SHEET 16 OF 43

PROJECT NO. Fountainbleu.dwg





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DRAWN BY db3, drb

CHECKED drb

DATE 05/05/25

SHEET TITLE

LOUIS PLAN/PROFILE

PROJECT NAME

BELLEVIEW SUBDIVISION

14397 Creosote Road
Gulfport, Mississippi 39503
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ENGINEERING SERVICES, LLC

SHEET 17 OF 43

PROJECT NO.

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drb

DATE
05/05/25

SHEET TITLE
CHATEAU
PLAN/PROFILE

PROJECT NAME
BELLEVIEW SUBDIVISION

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14397 Creosote Road
Gulfport, Mississippi 39503
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PROJECT NO.
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DATE
05/05/25

SHEET TITLE
ROYAL
PLAN/PROFILE

PROJECT NAME
BELLEVIEW SUBDIVISION

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14397 Creosote Road
Gulfport, Mississippi 39503
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SHEET
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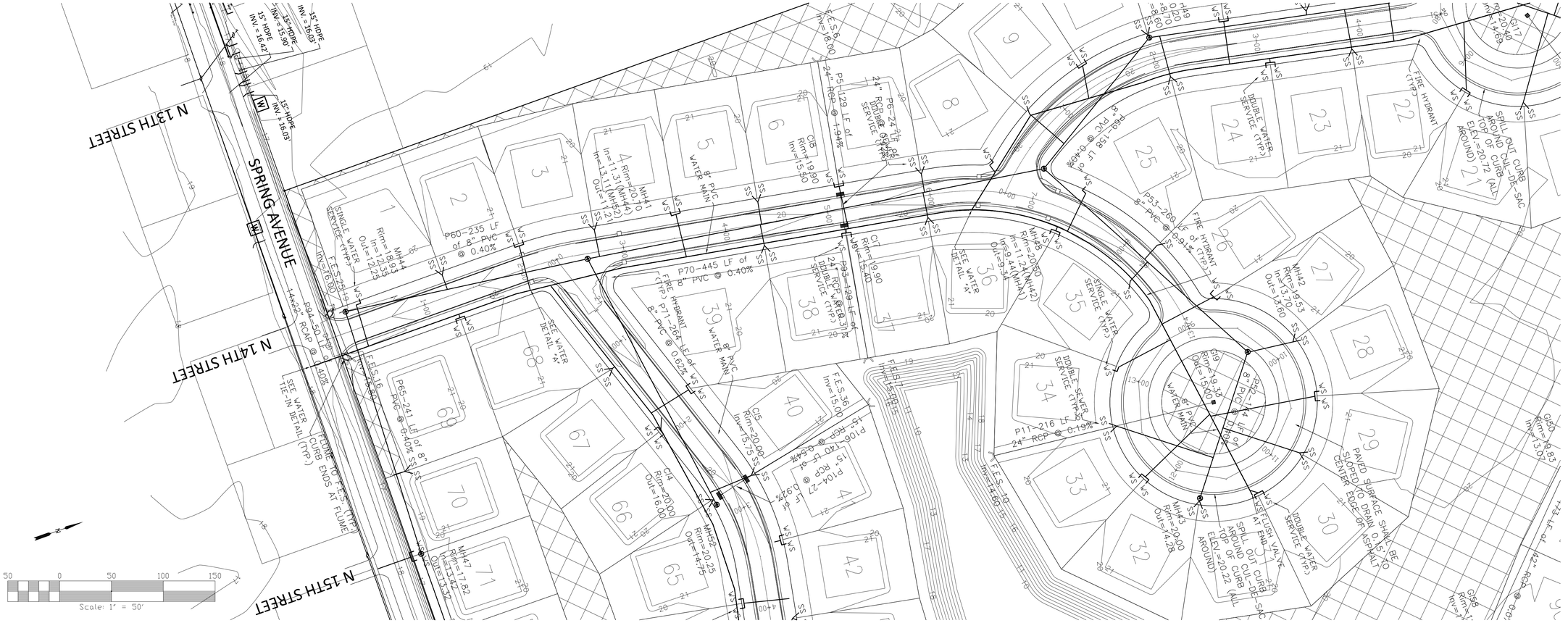
OF 43

PROJECT NO.
Fountainbleu.dwg



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DRAWN BY: drb3, drb

CHECKED: drb

DATE: 05/05/25

SHEET TITLE: SPRING FOUNTAIN PLAN/PROFILE

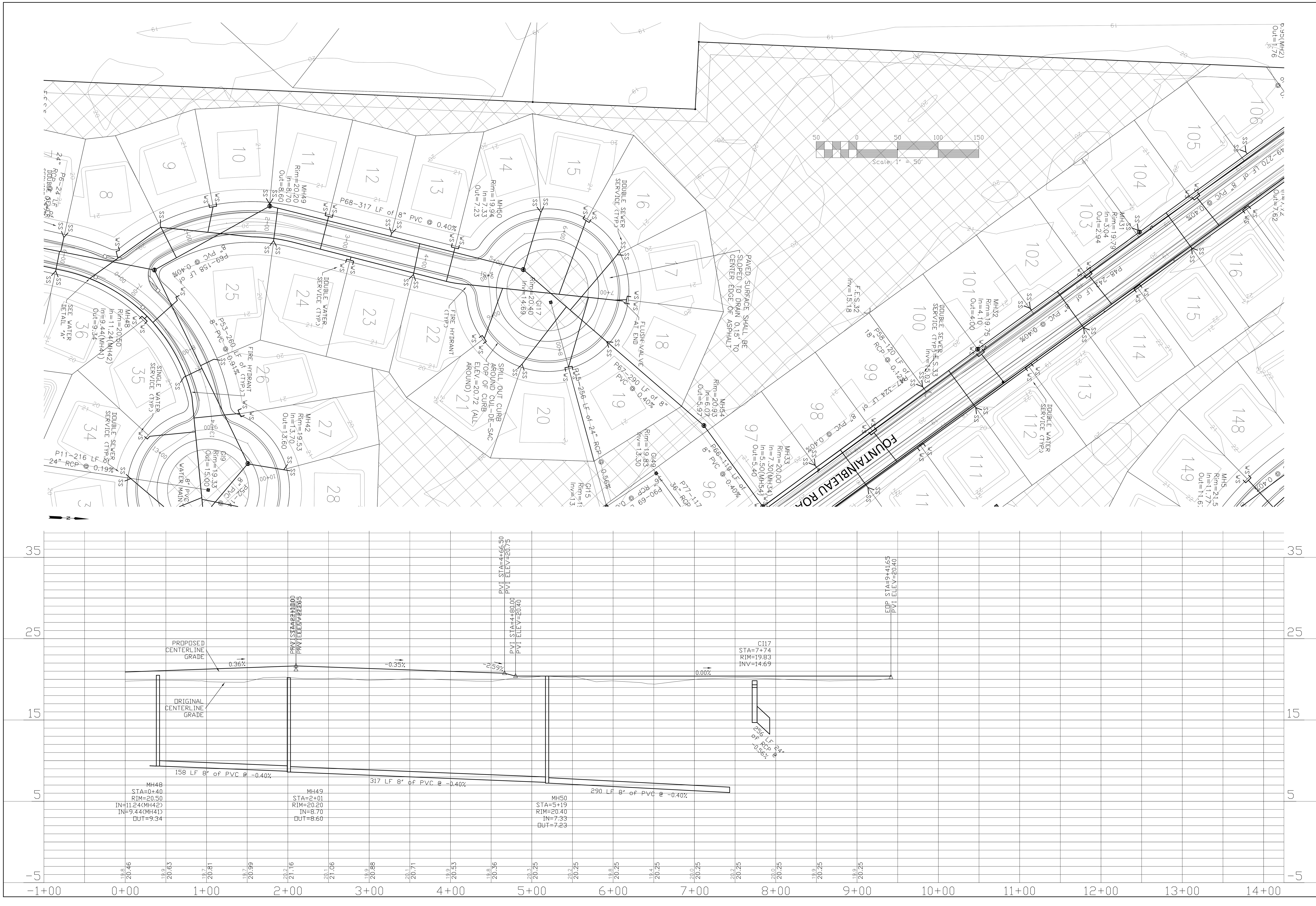
PROJECT NAME: BELLEVIEW SUBDIVISION

14397 Creosote Road
Gulfport, Mississippi 39503
(228) 297-1647

ENGINEERING SERVICES, LLC

SHEET 20 OF 43

PROJECT NO. Fountainbleu.dwg



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DATE 05/05/25

SHEET TITLE

DUCHESS PLAN/PROFILE

PROJECT NAME

BELLEVIEW SUBDIVISION

14397 Creosote Road
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(228) 297-1647

ENGINEERING SERVICES, LLC

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PROJECT NO.
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CHECKED: drb

DATE: 05/05/25

SHEET TITLE: BURGUNDY PLAN/PROFILE

PROJECT NAME: BELLEVIEW SUBDIVISION

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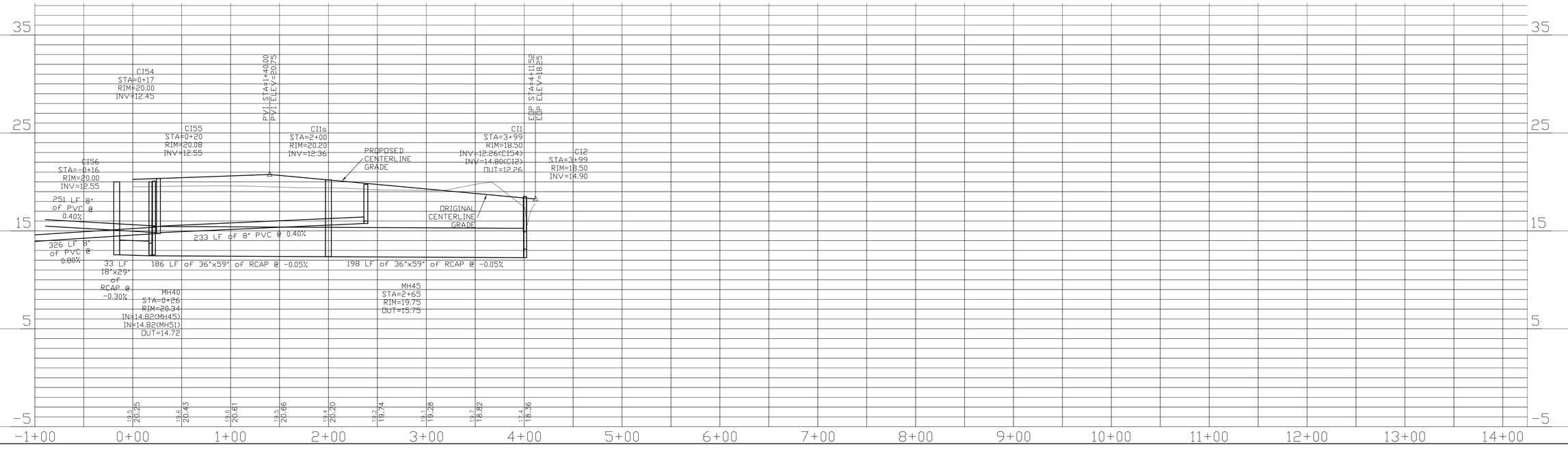
14397 Creosote Road
Gulfport, Mississippi 39503
(228) 297-1647

SHEET 22 OF 43

PROJECT NO. fountainbleu.dwg



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SHEET TITLE
PALACE
PLAN/PROFILE

PROJECT NAME
BELLEVIEW SUBDIVISION

ENGINEERING SERVICES, LLC
14397 Creosote Road
Gulfport, Mississippi 39503
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SHEET TITLE
GRAVITY SEWER PLAN/PROFILE

PROJECT NAME
BELLEVIEW SUBDIVISION

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14397 Creosote Road
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(228) 297-1647

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OF 43

PROJECT NO.
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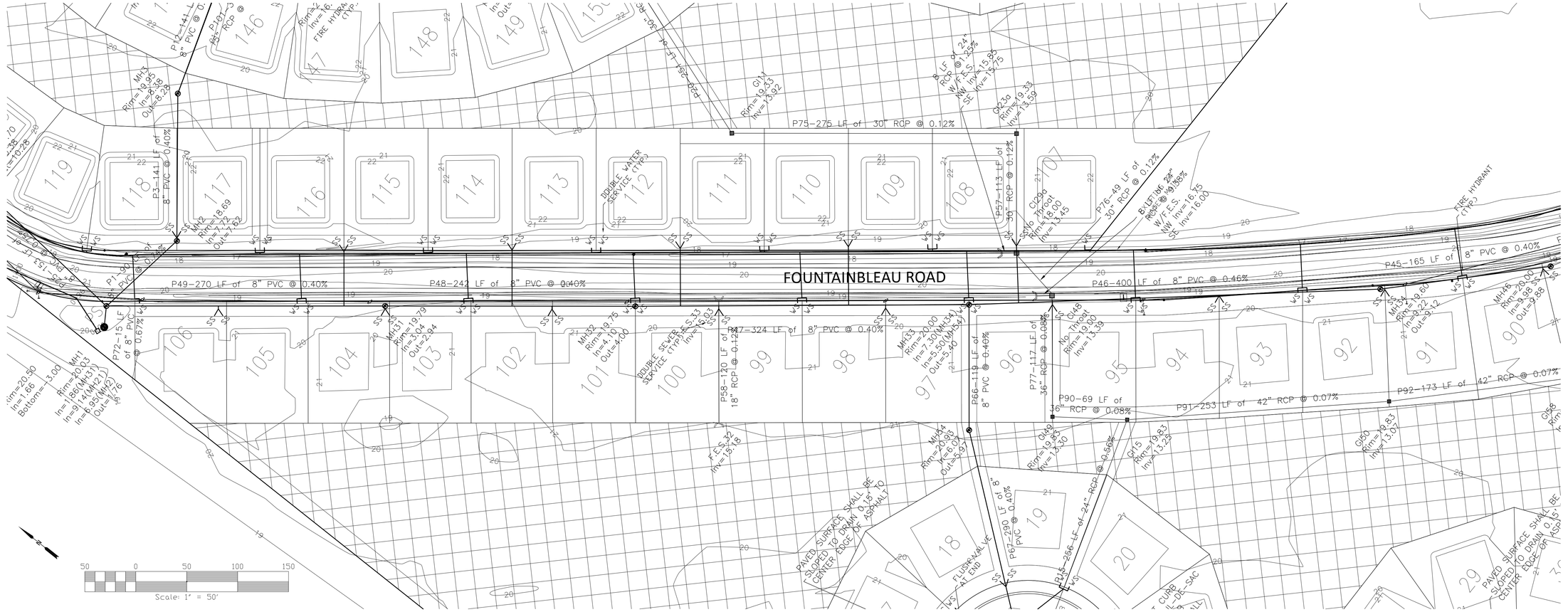

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DRAWN BY: db3, drb

CHECKED: drb

DATE: 05/05/25

SHEET TITLE: GRAVITY SEWER PLAN/PROFILE

PROJECT NAME: BELLEVIEW SUBDIVISION

ENGINEERING SERVICES, LLC

14397 Creosote Road
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(228) 297-1647

SHEET 25 OF 43

PROJECT NO. fountainbleu.dwg

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SHEET TITLE
GRAVITY SEWER PLAN/PROFILE

PROJECT NAME
BELLEVIEW SUBDIVISION

ENGINEERING SERVICES, LLC
14397 Cresote Road
Gulfport, Mississippi 39503
(228) 297-1647

SHEET 26 OF 43

PROJECT NO. fountainbleu.dwg

N 19TH STREET

N 18T

MH35
STA=16+11
RIM=19.40
IN=10.83(MH39)
IN=10.83(MH36)
OUT=10.73

MH36
STA=17+88
RIM=17.81
IN=11.62
OUT=11.52

MH37
STA=21+70
RIM=17.14
IN=13.24
OUT=13.14

MH38
STA=25+63
RIM=18.79
OUT=14.79

ORIGINAL CENTERLINE GRADE

PROPOSED CENTERLINE GRADE

137 LF 8" of PVC @ 0.40%

173 LF 8" of PVC @ 0.40%

378 LF 8" of PVC @ 0.40%

389 LF 8" of PVC @ 0.40%

25
15
5
-5
-15

14+25 15+00 16+00 17+00 18+00 19+00 20+00 21+00 22+00 23+00 24+00 25+00 26+00 27+00 28+00 29+00

REVISED

DRAWN BY
db3, drb

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drb

DATE
05/05/25

SHEET TITLE
GRAVITY SEWER
PLAN/PROFILE

PROJECT NAME
BELLEVIEW SUBDIVISION

14397 Creosote Road
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ENGINEERING SERVICES, LLC

SHEET
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OF 43

PROJECT NO.
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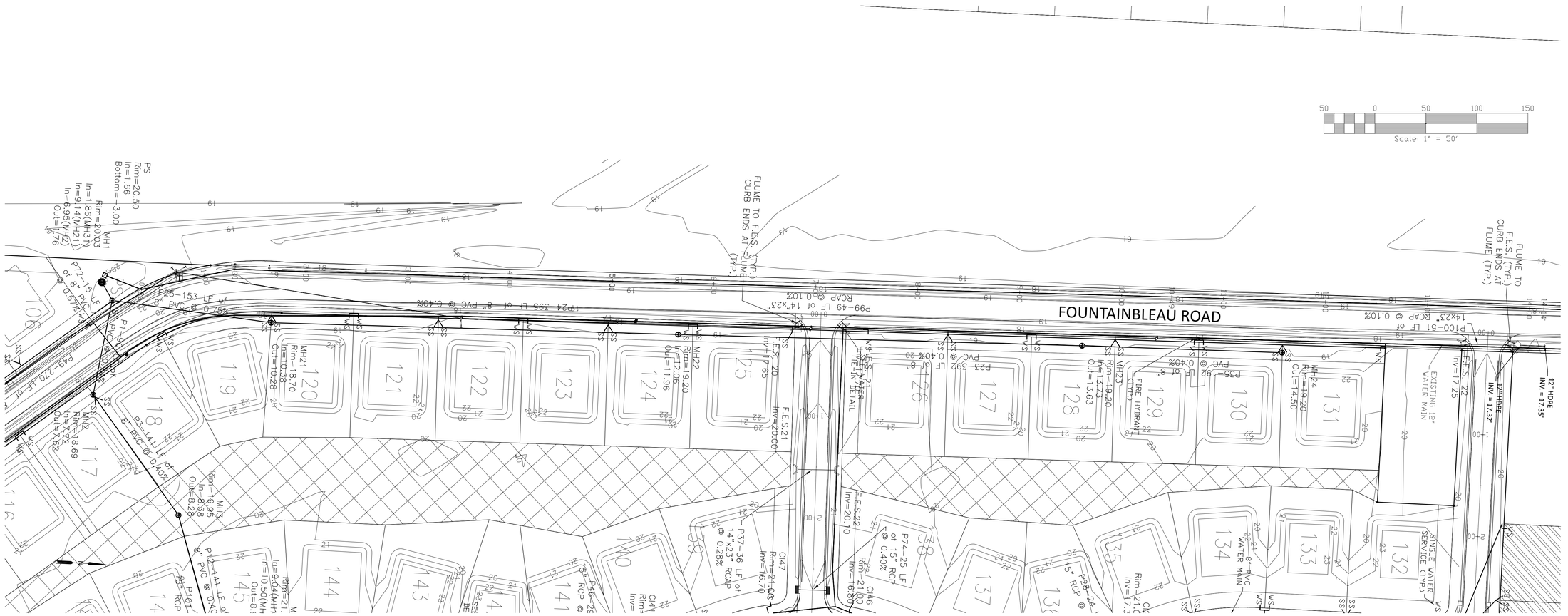

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DRAWN BY: dp3, drb

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DATE 05/05/25

SHEET TITLE
FORCE MAIN PLAN/PROFILE

PROJECT NAME
BELLEVIEW SUBDIVISION

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14397 Creosote Road
Gulfport, Mississippi 39503
(228) 297-1647

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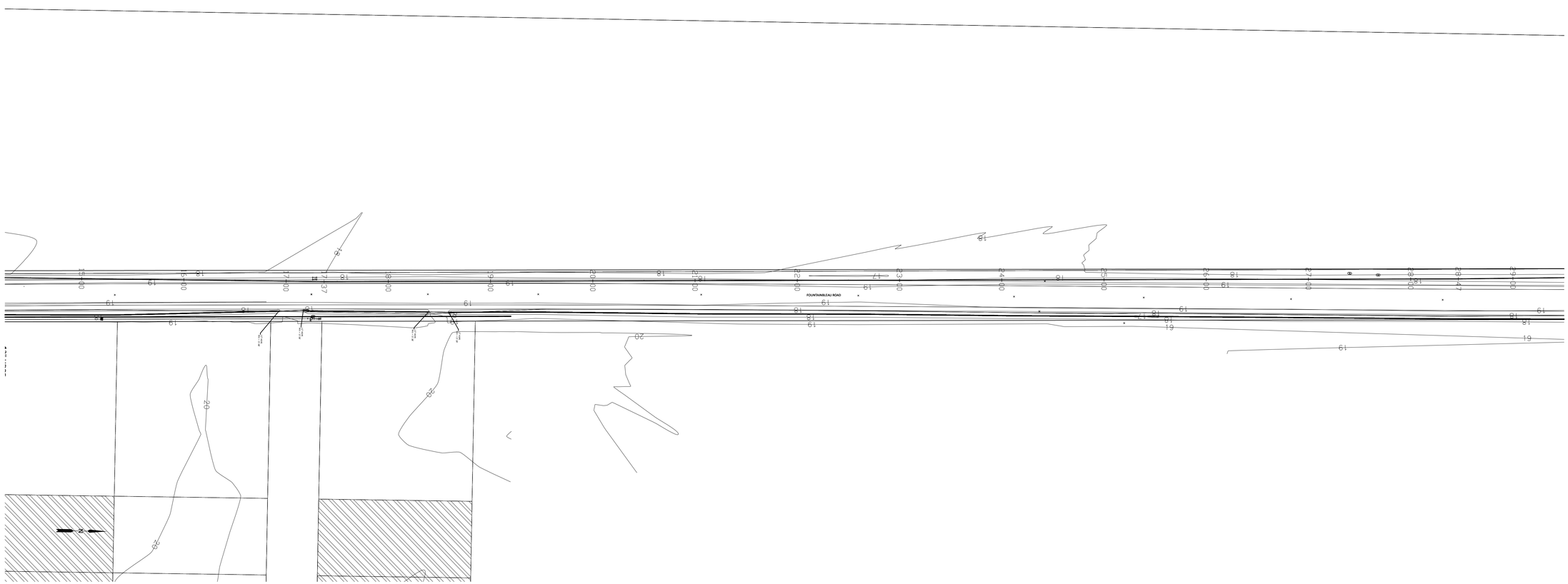
PROJECT NO.
Fountainbleu.dwg



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DRAWN BY: dbJ, drb

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DATE 05/05/25

SHEET TITLE
FORCE MAIN PLAN/PROFILE

PROJECT NAME
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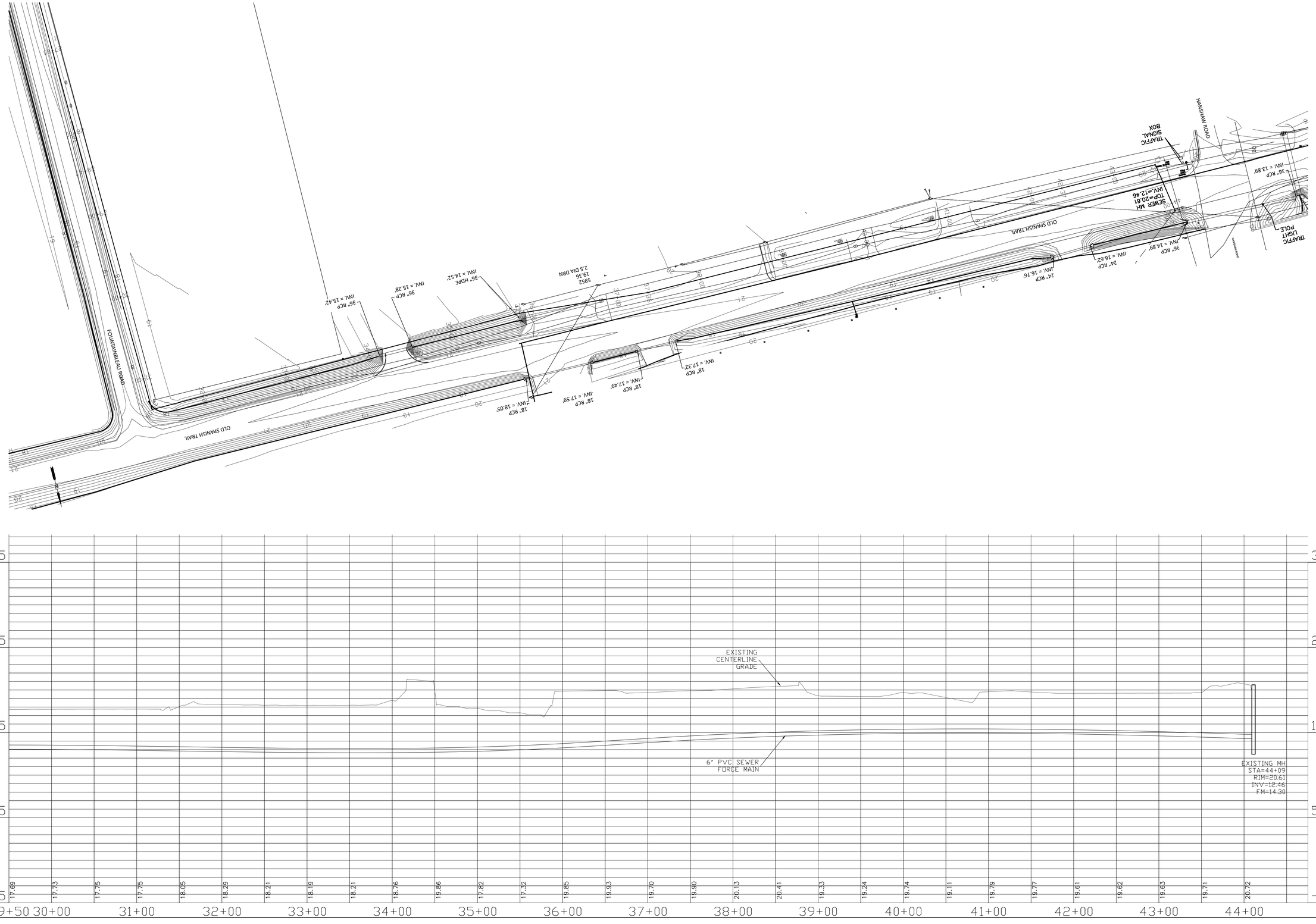
ENGINEERING SERVICES, LLC

14397 Creosote Road
Gulfport, Mississippi 39503
(228) 297-1647

SHEET 29 OF 43

PROJECT NO. fountainbleu.dwg



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SHEET TITLE
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14397 Creosote Road
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(228) 297-1647

ENGINEERING SERVICES, LLC

SHEET
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OF 43

PROJECT NO.
fountainbleau.dwg

PARCEL AREA TABLE	
LOT #	AREA
1	12000.00
2	9622.71
3	9959.12
4	9600.00
5	9600.00
6	9600.00
7	9600.00
8	10168.36
9	10182.93
10	10182.93
11	9939.04
12	9600.00
13	10600.00
14	10332.13
15	10302.40
16	10302.40
17	10302.40
18	10302.40
19	10302.40
20	10302.40
21	10302.39
22	9904.16
23	9600.00
24	10785.06
25	12854.32
26	11399.25
27	9641.39
28	10270.52
29	10302.40
30	10302.40
31	10302.39

PARCEL AREA TABLE	
LOT #	AREA
32	10302.42
33	10302.40
34	10545.41
35	10236.24
36	9697.32
37	9600.00
38	9600.00
39	15009.37
40	9600.06
41	10615.95
42	9837.29
43	9747.34
44	9641.01
45	9675.47
46	9631.35
47	9720.82
48	10053.32
49	10199.48
50	9895.42
51	9686.07
52	9652.77
53	10009.10
54	10199.48
55	10735.27
56	9700.71
57	10265.52
58	9778.74
59	12026.58
60	9602.70
61	13829.39
62	10144.91

PARCEL AREA TABLE	
LOT #	AREA
63	10115.61
64	9680.39
65	9792.63
66	9735.61
67	9998.18
68	11295.45
69	12000.66
70	9618.36
71	9600.00
72	9600.00
73	9600.00
74	9600.00
75	9600.00
76	9600.00
77	12006.82
78	10159.36
79	10159.36
80	10159.36
81	10159.36
82	10159.36
83	10159.36
84	10159.36
85	10159.36
86	9975.89
87	11189.98
88	12318.25
89	10149.95
90	10124.26
91	9843.91
92	9957.67
93	9825.00

PARCEL AREA TABLE	
LOT #	AREA
94	9773.36
95	9825.00
96	9825.00
97	9825.00
98	9825.00
99	9825.00
100	9825.00
101	9825.00
102	9825.00
103	9825.00
104	9825.00
105	9825.00
106	9637.60
107	14382.98
108	9903.96
109	9903.96
110	9903.96
111	9903.96
112	9903.96
113	9903.96
114	9903.96
115	9903.96
116	9903.96
117	9783.96
118	9703.47
119	9607.67
120	10031.87
121	9997.42
122	9982.92
123	9989.58
124	9992.70

PARCEL AREA TABLE	
LOT #	AREA
125	12000.30
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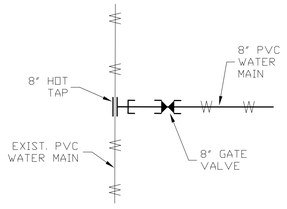
127	9845.71
128	9845.70
129	9845.82
130	9845.58
131	11930.61
132	11043.55
133	9600.00
134	10128.37
135	10067.27
136	9613.55
137	10059.53
138	12321.95
139	12286.22
140	9600.00
141	9856.45
142	9602.86
143	11595.57
144	10269.67
145	10269.67
146	10269.67
147	10170.38
148	10096.12
149	10250.93
150	10250.93
151	10250.93
152	9905.33
153	14072.25
154	9836.78
155	10060.28

PARCEL AREA TABLE	
LOT #	AREA
156	10060.28
157	10060.28
158	10060.27
159	10060.27
160	10060.28
161	10060.24
162	9562.51
163	14147.93
164	10053.77
165	10053.77
166	9942.97
167	9600.00
168	9995.60
169	10053.46
170	9881.67
171	9600.00
172	11237.62
173	12331.31
174	10275.79
175	10275.79
176	10275.79
177	10295.52
178	9600.59
179	9600.00
180	9600.00
181	9600.00
182	11969.10
183	11008.75
184	11969.10
185	10192.26
186	9618.44

PARCEL AREA TABLE	
LOT #	AREA
187	9915.75
188	9896.79
189	10151.70
190	13171.38
191	11974.21
192	11988.63
193	10277.53
194	10546.93
195	10200.00
196	10200.00
197	11969.10
198	10927.98
199	10927.98
200	11969.10
201	9628.28
202	10286.23
203	10199.48
204	10199.48
205	10123.39
206	11672.20
207	10063.95
208	9608.84
209	9600.28
210	11282.38
211	10704.24
212	10693.64
213	9614.79
214	9715.90
215	10151.70
216	9663.81
217	9690.45

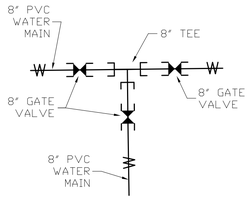
PARCEL AREA TABLE	
LOT #	AREA
218	9602.87
219	10058.17
220	10173.46
221	9600.02
222	11354.61
223	10163.88
224	10214.76
225	10214.76
226	10214.76
227	10214.76
228	10125.81
229	13096.36
230	9670.13
231	9766.54
232	9861.69
233	9616.53
234	9617.66
235	9617.66
236	9616.53
237	9617.66
238	9617.66
239	9601.35
240	9648.82
241	10093.23
242	9600.02
243	9600.00
244	10233.28
245	12184.96

NOTE:
CONTRACTOR SHALL VERIFY EXISTING LAYOUT AND COORDINATE WITH THE UTILITY AUTHORITY FOR TIE-IN.



WATER TIE-IN DETAIL

N.T.S.



WATER DETAIL "A"

N.T.S.

PROPOSED FINISHED FLOOR ELEVATIONS

LOT	FFE
1	20.5
2	21.5
3	22.0
4	22.0
5	21.5
6	21.5
7	21.5
8	21.5
9	21.5
10	21.5
11	21.5
12	21.5
13	21.5
14	21.5
15	21.5
16	21.5
17	21.5
18	21.5
19	21.5
20	21.5
21	21.5
22	21.5
23	21.5
24	21.5
25	21.5
26	21.5
27	21.5
28	21.5
29	21.5
30	21.5
31	21.5
32	21.5
33	21.5
34	21.5
35	21.5
36	21.5
37	21.5
38	21.5
39	21.5
40	21.5

LOT	FFE
41	21.5
42	21.5
43	22.0
44	22.0
45	21.5
46	21.5
47	22.0
48	22.0
49	22.0
50	21.5
51	22.0
52	22.0
53	22.0
54	22.0
55	21.5
56	22.0
57	22.0
58	21.5
59	21.5
60	21.5
61	22.0
62	22.0
63	22.0
64	22.0
65	21.5
66	21.5
67	21.5
68	21.5
69	21.5
70	21.5
71	21.5
72	21.5
73	21.5
74	21.5
75	21.5
76	21.5
77	21.5
78	21.5
79	21.5
80	21.5

LOT	FFE
81	21.5
82	21.5
83	21.5
84	21.5
85	21.5
86	21.5
87	21.5
88	21.5
89	21.5
90	21.5
91	21.5
92	21.5
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96	21.5
97	21.5
98	21.5
99	21.5
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110	22.5
111	22.5
112	22.5
113	22.5
114	22.5
115	22.5
116	22.5
117	22.5
118	22.5
119	22.5
120	22.5

LOT	FFE
121	22.5
122	22.5
123	22.5
124	22.5
125	22.5
126	22.5
127	22.5
128	22.5
129	22.5
130	22.5
131	22.5
132	23.5
133	23.5
134	22.5
135	22.5
136	22.5
137	23.0
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140	22.5
141	22.5
142	23.5
143	23.5
144	23.0
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147	22.5
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149	22.5
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151	22.5
152	22.5
153	23.0
154	22.5
155	22.5
156	23.0
157	22.5
158	22.5
159	22.5
160	22.5

LOT	FFE
161	22.5
162	22.5
163	23.0
164	23.0
165	22.5
166	22.5
167	22.5
168	22.5
169	23.0
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183	23.5
184	23.5
185	23.0
186	23.0
187	22.5
188	22.5
189	22.5
190	23.5
191	23.8
192	23.5
193	23.0
194	22.5
195	22.5
196	23.0
197	23.9
198	23.5
199	23.5
200	23.8

LOT	FFE
201	23.0
202	22.5
203	22.5
204	22.5
205	23.0
206	22.5
207	22.5
208	22.5
209	22.5
210	23.0
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232	22.5
233	22.5
234	22.5
235	23.0
236	23.0
237	23.0
238	23.0
239	22.5
240	22.5

LOT	FFE
241	23.0
242	22.5
243	22.5
244	22.5
245	23.8

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DRAWN BY
db3

CHECKED
drb

DATE
05/05/25

SHEET TITLE
CONSTRUCTION DETAILS

PROJECT NAME
BELLEVIEW SUBDIVISION

ENGINEERING SERVICES, LLC
14397 Creosote Road
Gulfport, Mississippi 39503
(228) 297-1647

SHEET
31
OF 43

PROJECT NO.
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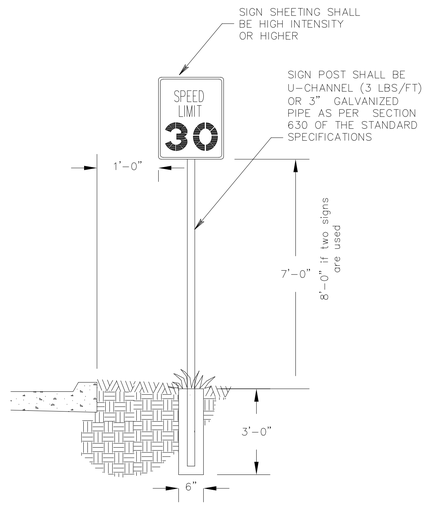
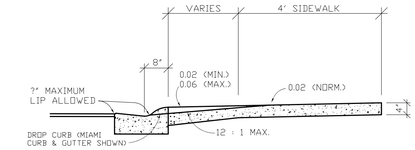


NOTES:

1.) ALL REGULATORY SIGNS, I.E. STOP SIGNS, SPEED LIMIT SIGNS, ETC., SHALL BE DATED AND CONSTRUCTED WITH HIGH INTENSITY SHEETING.
2.) STOP SIGNS SHALL BE 30" MINIMUM.
3.) ALL ROADWAY CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE MISSISSIPPI STANDARD SPECIFICATIONS FOR STATE AID ROAD AND BRIDGE CONSTRUCTION (GREEN BOOK.)
4.) EXISTING SIGNS CONFLICTING WITH CONSTRUCTION WILL BE REMOVED AND RESET AT THE DIRECTION OF THE COUNTY.

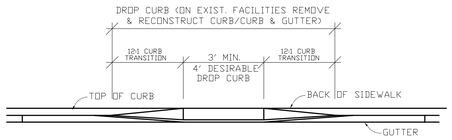
TYPICAL SIGN INSTALLATION DETAIL

N.T.S.



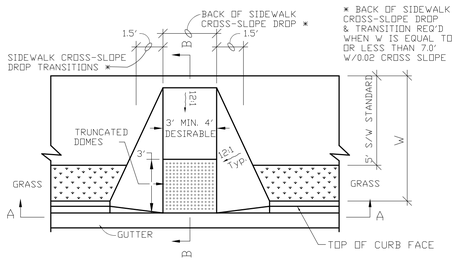
SECTION B–B

N.T.S.



SECTION A–A

N.T.S.

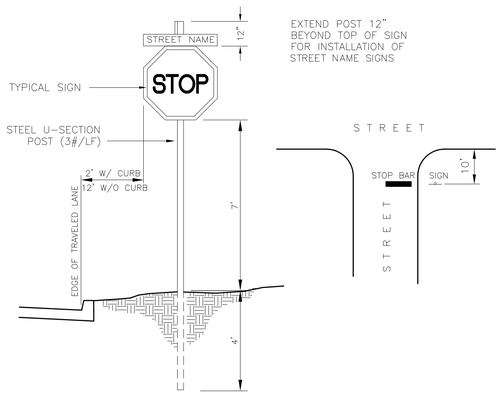


PLAN VIEW

N.T.S.

ADA RAMP

N.T.S.



SIGN INSTALLATION DETAIL

N.T.S.

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DRAWN BY: db3

CHECKED: drb

DATE: 05/05/25

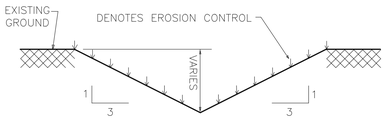
SHEET TITLE: CONSTRUCTION DETAILS

PROJECT NAME: BELLEVIEW SUBDIVISION

ENGINEERING SERVICES, LLC
14397 Creosote Road
Gulfport, Mississippi 39503
(228) 297-1647

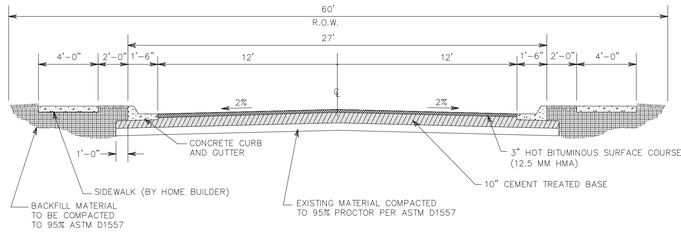
SHEET 32 OF 43

PROJECT NO. fountainbleu.dwg



TYPICAL DITCH SECTION

N.T.S.



ASPHALT STREET SECTION

N.T.S.

NOTES: 1.) CENTERLINE ELEVATION IS EQUAL TO TOP OF CURB ELEVATION
2.) WHEELCHAIR RAMPS REQUIRED AT EVERY INTERSECTION.
3.) STREET LIGHTS SHALL BE LOCATED 2' FROM BACK OF SIDEWALK.

ALL WORKMANSHIP AND MATERIALS TO MEET
JACKSON COUNTY APPROVAL AND MDOT SPECIFICATIONS.

GENERAL NOTES

1.) CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING EXISTING UTILITIES LOCATED PRIOR TO COMMENCEMENT OF WORK.

2.) ALL DITCHES AND SWALES SHALL HAVE A MINIMUM DEPTH OF 12" AND A MINIMUM SLOPE OF 0.25%.

3.) ALL UNSUITABLE MATERIAL LOCATED UNDER ROAD BASE SHALL BE MUCKED OUT TO A MINIMUM DEPTH OF 24" OR TO STABLE SUBBASE. BACKFILL WITH SANDY NATIVE MATERIAL AND COMPACT TO 95% STANDARD PROCTOR DENSITY IN 6" LIFTS.

4) DITCHES SHALL NOT BE EXCAVATED IN WETLANDS UNLESS SHOWN OTHERWISE ON THIS DRAINAGE PLAN. ONLY THOSE AREAS SHOWN HEREON HAVE BEEN PROPERLY PERMITTED.

5.) A 5' WIDE SWALE DRANAGE EASEMENT WILL BE RESERVED ALONG ALL SIDE LOT LINES.

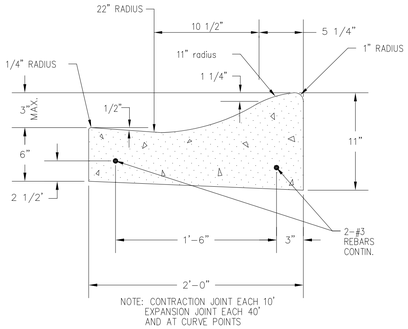
6.) 4" SOCK PIPE SHALL BE PLACED AT BACK OF CURB WITH PEA GRAVEL FILL AS REQUIRED UPON ENCOUNTERING GROUNDWATER.

7.) ADA RAMPS SHALL BE INSTALLED AT INTERSECTIONS FOR SIDEWALK ACCESS.

8.) ALL TRAFFIC SIGNS AND TRAFFIC CONTROL DEVICES SHALL BE IN SIZE, SHAPE AND DESIGN IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."

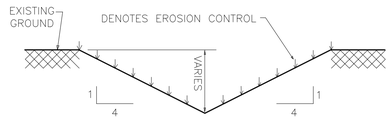
9.) ALL HDPE CULVERTS ALONG PROPERTY LINE SHALL BE OFFSET A MINIMUM 1' FROM THE OUTSIDE EDGE FROM THE PROPERTY LINE FOR PLACEMENT OF FUTURE FENCE POSTS.

10.) ALL FLARED END SECTIONS SHALL BE REINFORCED CONCRETE.



ROLLED TYPE CURB AND GUTTER

N.T.S.



TYPICAL SWALE SECTION

N.T.S.

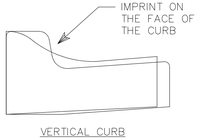
CURB STAMPING NOTES:

1. LETTER "S","W", AND "V" TO BE ℄" DEEP.

2. SHALL STAMP CURB AT EACH SEWER AND WATER SERVICE LOCATION WITH STAMPING TOOL ON THE FACE OF THE CURB.

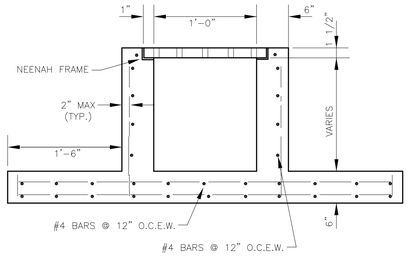
3. CONTRACTOR SHALL STAMP CURB AT EACH VALVE LOCATION WITH STAMPING TOOL ON THE FACE OF THE CURB. STAMP CURB ON BOTH SIDE OF THE STREET IF VALVE IS LOCATED WITHIN STREET. STAMP FACE OF ADJACENT CURB IF VALVE LOCATED OUTSIDE OF STREET.

4. STAMPING TOOL TO BE APPROVED PRIOR TO USE.

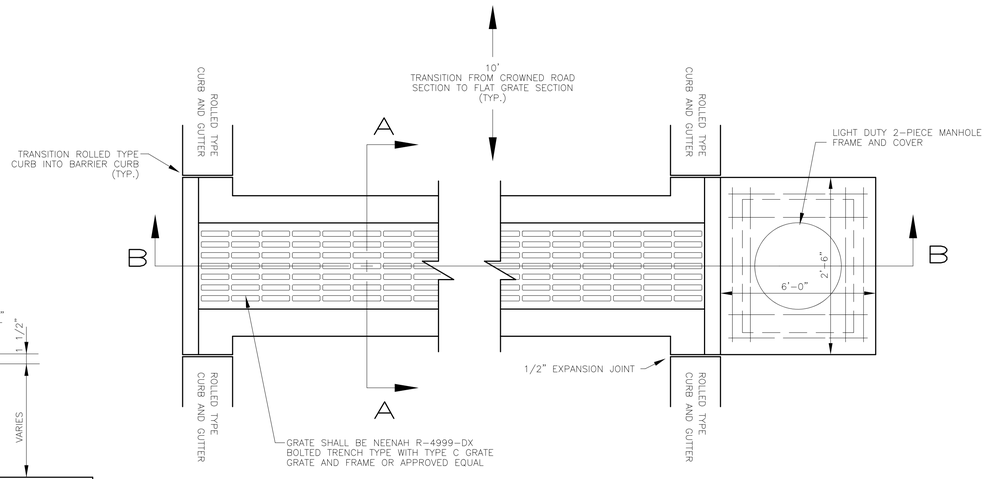


CURB STAMPING DETAIL

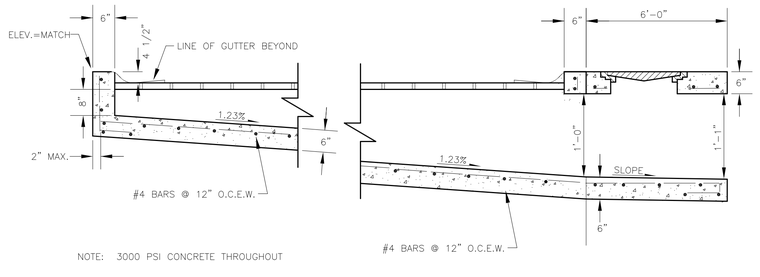
N.T.S.



SECTION A-A



PLAN



NOTE: 3000 PSI CONCRETE THROUGHOUT

SECTION B-B

TRENCH GRATE DETAIL

N.T.S.

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DATE
05/05/25

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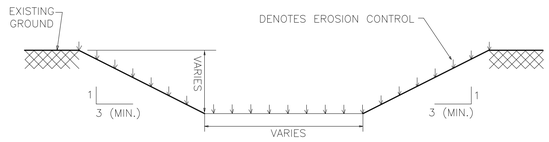
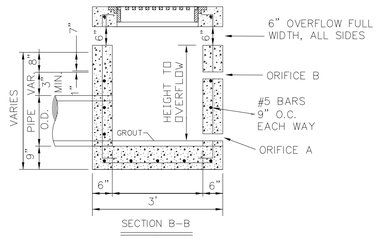
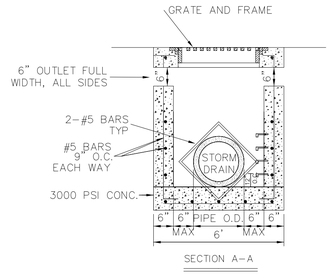


TYPICAL DETENTION POND SECTION

N.T.S.



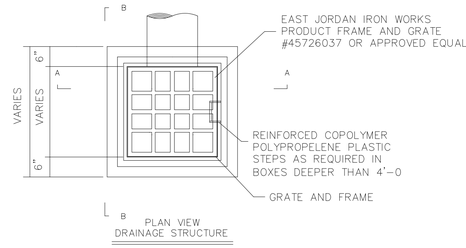
SECTION B–B



SECTION A–A

DETENTION POND	TOP ELEVATION	BOTTOM ELEVTION	AREA	ORIFICE A		ORIFICE B		HEIGHT TO OVERFLOW
				DIAMETER	INVERT	DIAMETER	INVERT	
A	19.00	10.00	1.23 AC.	17"	14.37	NOT REQUIRED		6.50'
B	19.00	10.00	1.26 AC.	16"	13.00	NOT REQUIRED		5.50'

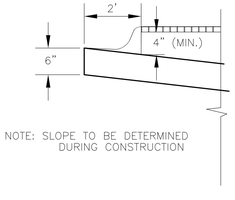
NOTE: DURING CONSTRUCTION INSTALL A 6" FAIRCLOTH SKIMMER IN EACH POND.



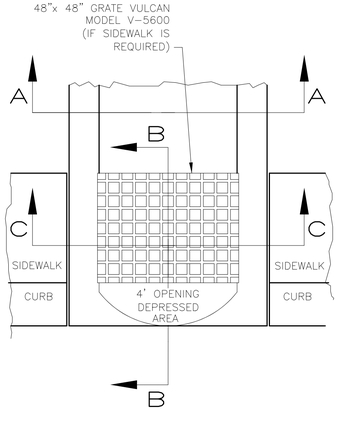
PLAN VIEW
DRAINAGE STRUCTURE

DETENTION POND CONTROLLED OUTLET

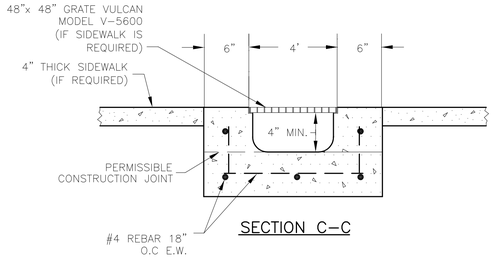
N.T.S.



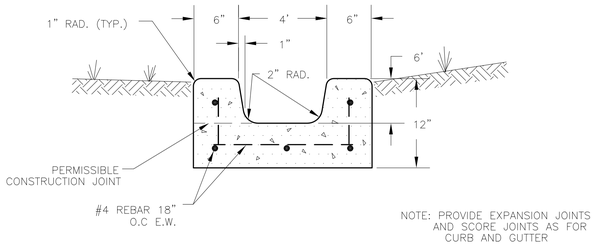
SECTION B–B



PLAN



SECTION C–C

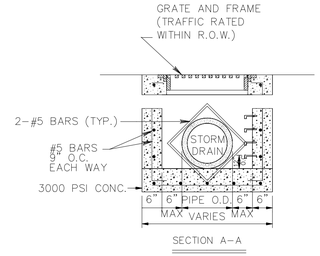


SECTION A–A

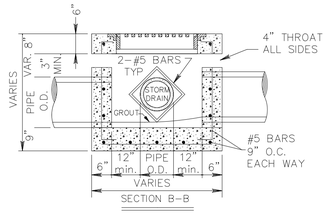
NOTE: PROVIDE EXPANSION JOINTS AND SCORE JOINTS AS FOR CURB AND GUTTER

TYPICAL FLUME DETAIL

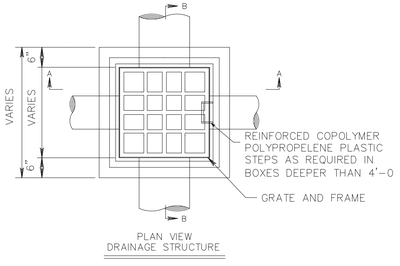
N.T.S.



SECTION A–A



SECTION B–B



PLAN VIEW
DRAINAGE STRUCTURE

GRATE INLET DETAIL

N.T.S.

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DRAWN BY db3

CHECKED drb

DATE 05/05/25

SHEET TITLE
CONSTRUCTION DETAILS

PROJECT NAME
BELLEVIEW SUBDIVISION

ENGINEERING SERVICES, LLC
14397 Creosote Road
Gulfport, Mississippi 39503
(228) 297-1647

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STORM WATER POLLUTION PREVENTION NOTES:

1.) AVOID DISTURBING AREA UPSLOPE OF WETLANDS OR DRAINS.

2.) FILTER RUNOFF ALONG WETLANDS BOUNDARY BY USING NATURAL VEGETATION, BRUSH BARRIERS OR SILT FENCES.

3.) SILT FENCING SHALL BE INSTALLED ALONG BOUNDARIES OF DISTURBED AREAS. DOUBLE SILT FENCE WILL BE INSTALLED WHERE DISTURBANCE IS WITHIN 50' OF WETLAND AREAS.

4.) DISTURBED AREAS SHALL BE FERTILIZED, SEEDED, AND MULCHED WITHIN SEVEN CALENDAR DAYS.

5.) CONTRACTOR SHALL VERIFY THE RECEIPT OF A WETLAND FILL PERMIT BEFORE ANY WORK IN OR DIRECTLY ADJACENT TO WETLAND AREAS.

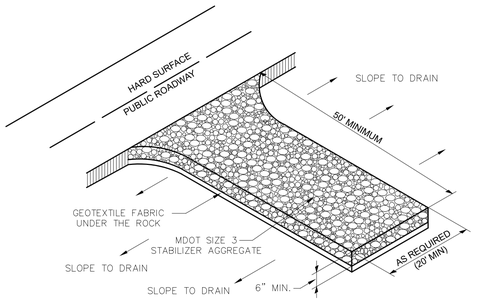
6.) THIS SKETCH IS NOT INCLUSIVE AND THE CONTRACTOR SHALL IMPLEMENT CONTROLS AS NEEDED TO PREVENT EROSION AND ADVERSE IMPACTS TO RECEIVING STREAMS.

7.) ALL RIGHT-OF-WAYS AND DRAINAGE AREAS SHALL HAVE ESTABLISHED VEGETATIVE GROWTH PRIOR TO FINAL PLAT ACCEPTANCE.

8.) INSPECT EROSION AND SEDIMENT CONTROLS WEEKLY AND AFTER EACH RAIN EVENT. CLEAN AND MAINTAIN EROSION CONTROLS AS REQUIRED.

9.) DETENTION PONDS AND OUTFALL STRUCTURES ARE TO BE CONSTRUCTED IMMEDIATELY AFTER CLEARING AND PRIOR TO GRADE AND DIRT ALTERATION AND SHALL BE USED AS SEDIMENT BASINS DURING CONSTRUCTION. SEDIMENT SHALL BE CLEANED ON A REGULAR BASIS AS DEEMED NECESSARY BY THE COUNTY ENGINEER.

10.) CONSTRUCTION ENTRANCES/EXITS SHALL BE INSTALLED WHEREVER TRAFFIC WILL BE LEAVING A CONSTRUCTION SITE AND MOVING DIRECTLY ONTO A PAVED PUBLIC ROAD. RESTRICT VEHICLE TO PROPERLY DESIGNED EXIT POINTS. USE APPROPRIATE STABILIZATION TECHNIQUES AT ALL POINTS THAT EXIT ONTO PAVED ROADS. IMPLEMENT ADDITIONAL TRACK-OUT CONTROLS AS NECESSARY TO ENSURE THAT SEDIMENT REMOVAL OCCURS PRIOR TO VEHICLE EXIT. WHERE SEDIMENT HAS BEEN TRACKED-OUT FROM THE SITE ONTO PAVED ROADS, SIDEWALKS, OR OTHER PAVED AREAS OUTSIDE THE SITE, REMOVE DEPOSITED SEDIMENT "IMMEDIATELY" BY THE END OF THE NEXT WORK DAY. REMOVE THE TRACK-OUT BY SWEEPING, SHOVELING, OR VACUUMING THESE SURFACES, OR BY SIMILARLY EFFECTIVE MEANS OF SEDIMENT REMOVAL. HOSING OR SWEEPING TRACK-OUT SEDIMENT INTO ANY STORMWATER CONVEYANCE, STORM DRAIN INLET, OF WATERS OF THE STATE IS PROHIBITED.

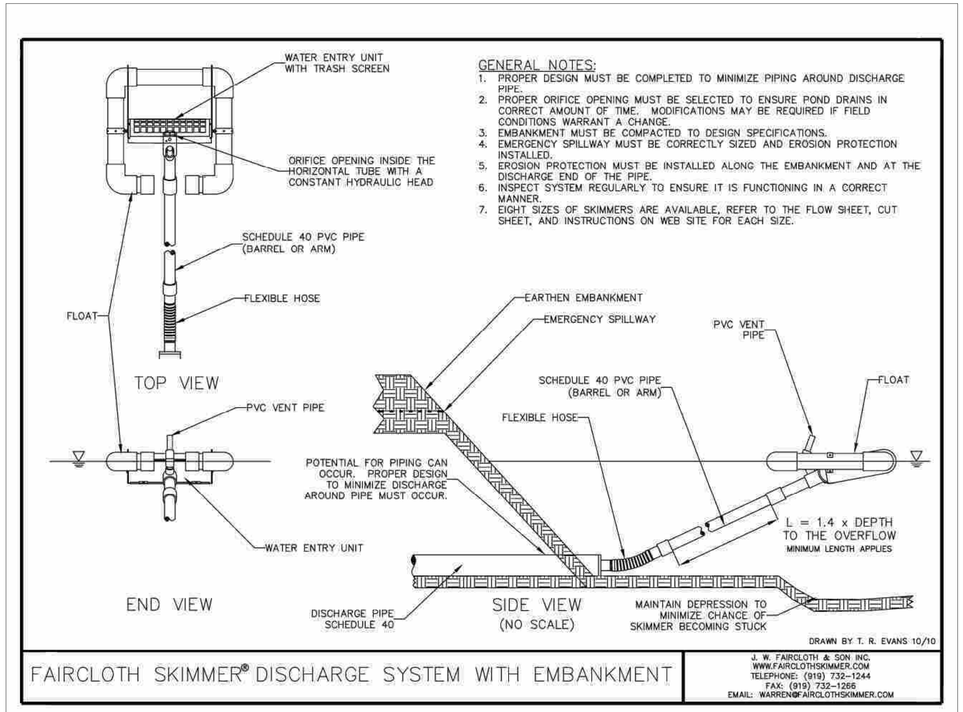


NOTES:

1. THE AREA OF THE CONSTRUCTION ENTRANCE SHALL BE EXCAVATED 6 INCHES DEEP, 50 FEET LONG AND SHALL EXTEND THE FULL WIDTH OF ANY VEHICULAR INGRESS AND EGRESS (MINIMUM 20 FEET) LOCATED ON THE SITE.
2. THE ENTRANCE SHALL BE PROPERLY MAINTAINED FOR THE DURATION OF THE PROJECT TO PREVENT THE TRACKING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. ALL MAINTENANCE AND REPAIRS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
3. THE ENTRANCE SHALL BE CHECKED ON A DAILY BASIS AND BEFORE & AFTER ANY RAINFALL EVENT FOR ANY DAMAGES. ANY DAMAGES FOUND SHALL BE REMEDIATED BEFORE THE DAYS END AT NO ADDITIONAL COST TO THE CITY.
4. THE ENTRANCE SHALL BE PROPERLY GRADED TO PREVENT THE FLOW OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS SHALL BE REMOVED IMMEDIATELY.
5. MEASURES SHALL BE TAKEN TO PREVENT VEHICULAR TRAFFIC FROM BYPASSING THE CONSTRUCTION ENTRANCE DURING INGRESS AND EGRESS.

TEMPORARY CONSTRUCTION ENTRANCE

N.T.S.



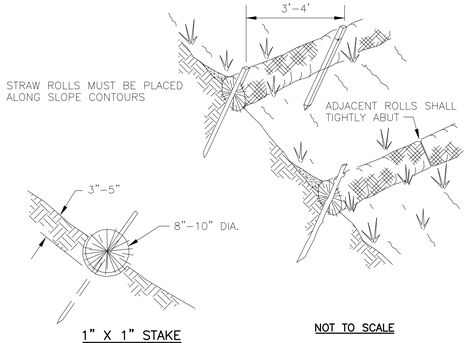
GENERAL NOTES:

1. PROPER DESIGN MUST BE COMPLETED TO MINIMIZE PIPING AROUND DISCHARGE PIPE.
2. PROPER ORIFICE OPENING MUST BE SELECTED TO ENSURE POND DRAINS IN CORRECT AMOUNT OF TIME. MODIFICATIONS MAY BE REQUIRED IF FIELD CONDITIONS WARRANT A CHANGE.
3. EMBANKMENT MUST BE COMPACTED TO DESIGN SPECIFICATIONS.
4. EMERGENCY SPILLWAY MUST BE CORRECTLY SIZED AND EROSION PROTECTION INSTALLED.
5. EROSION PROTECTION MUST BE INSTALLED ALONG THE EMBANKMENT AND AT THE DISCHARGE END OF THE PIPE.
6. INSPECT SYSTEM REGULARLY TO ENSURE IT IS FUNCTIONING IN A CORRECT MANNER.
7. EIGHT SIZES OF SKIMMERS ARE AVAILABLE, REFER TO THE FLOW SHEET, CUT SHEET, AND INSTRUCTIONS ON WEB SITE FOR EACH SIZE.

DRAWN BY T. R. EVANS 10/10

FAIRCLOTH SKIMMER® DISCHARGE SYSTEM WITH EMBANKMENT

J. W. FAIRCLOTH & SON INC.
WWW.FAIRCLOTHSKIMMER.COM
TELEPHONE: (919) 732-1244
FAX: (919) 732-1265
EMAIL: WARREN@FAIRCLOTHSKIMMER.COM



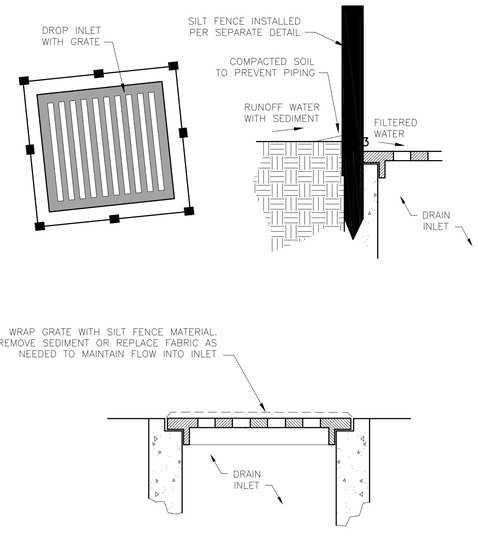
1" X 1" STAKE

NOT TO SCALE

NOTE:
1. STRAW ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 3"-5" DEEP, DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL.

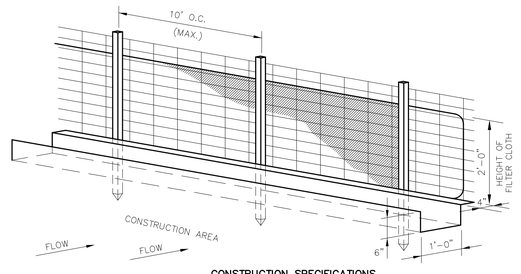
STRAW ROLL WATTLE DETAIL

N.T.S.



STORM DRAIN INLET PROTECTION DETAIL

N.T.S.



CONSTRUCTION SPECIFICATIONS

INSTALLATION:
1. USE STEEL "T" POSTS THAT ARE 5 FEET IN LENGTH.
2. INSTALL POSTS STARTING AT THE CENTER OF THE LOWEST POINT OF THE FENCE LINE. DRIVE POSTS 12 INCHES INTO THE GROUND.
3. INSTALL POSTS ON 10-FOOT CENTERS IF METAL MESH FENCING IS TO BE USED AS ADDITIONAL SUPPORT. IF NO METAL FENCING SUPPORT IS USED, THEN INSTALL POSTS ON 6-FOOT CENTER OR LESS.
4. EXCAVATE A TRENCH 4 INCHES DEEP BY 4 INCHES WIDE ON THE UPHILL SIDE OF THE FENCE POSTS.
5. STAPLE OR TIE SILT FENCE FABRIC TO POSTS ON UPHILL SIDE, LEAVING 8 INCHES ON THE BOTTOM TO EXTEND DOWN AND ACROSS THE BOTTOM OF THE TRENCH.
6. BACKFILL TRENCH AND TAMP DOWN OVER FABRIC.
7. ALLOW 6-INCH OVERLAP AT JOINTS.
8. MULCH BARE GROUND UPHILL OF SILT FENCE OR PROVIDE OTHER EROSION CONTROL MEASURES.

MAINTENANCE:
1. REMOVE ACCUMULATED SEDIMENT ALONG THE FENCE WHEN IT HAS REACHED A THIRD TO A HALF OF THE FENCE HEIGHT. DO NOT PLACE SEDIMENT ON THE DOWNHILL SIDE.
2. INSPECT WEEKLY AND AFTER EACH SIGNIFICANT STORM EVENT (GREATER THAN 1/2 INCH OF RAIN).
3. REMOVE FENCE WHEN AREA ABOVE THE FENCE HAS BEEN STABILIZED.
4. IF FABRIC IS TORN, THEN REPLACE WITH A NEW PIECE THAT STRETCHES TO POST ON EITHER SIDE OF THE TEAR.

SILT FENCE DETAIL

N.T.S.

REVISED

DRAWN BY: dbj, drb

CHECKED: drb

DATE: 05/15/24

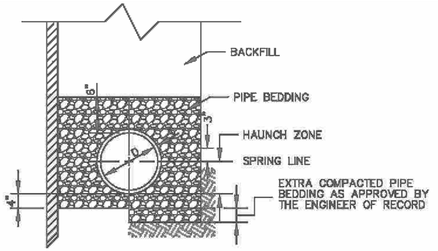
SHEET TITLE: CONSTRUCTION DETAILS

PROJECT NAME: BELLEVIEW SUBDIVISION

ENGINEERING SERVICES, LLC
14397 Creosote Road
Gulfport, Mississippi 39503
(228) 297-1647

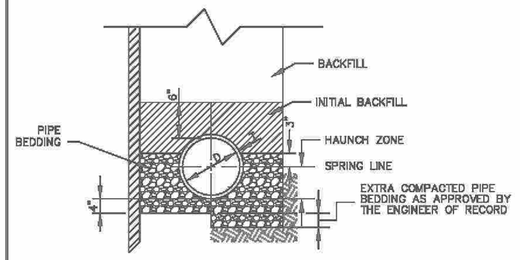
SHEET 35 OF 43

PROJECT NO. fountainbleu.dwg



CLASS "D" INSTALLATION

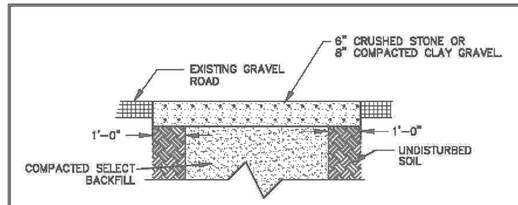
N.T.S.



CLASS "C" INSTALLATION

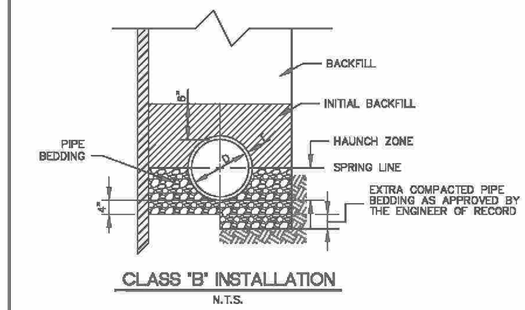
N.T.S.

JACKSON COUNTY UTILITY AUTHORITY	JACKSON COUNTY UTILITY AUTHORITY CONSTRUCTION STANDARDS	TYPICAL TRENCH BEDDING AND BACKFILL INSTALLATION DETAILS
		G-2



TYPICAL TRENCH REPAIR IN GRAVEL ROAD/DRIVE

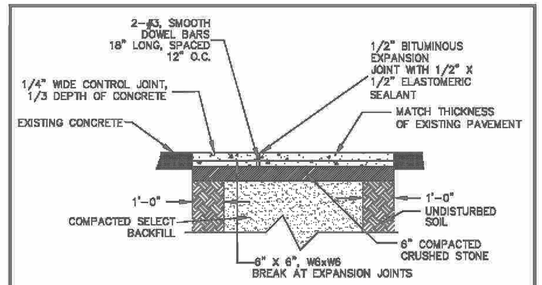
N.T.S.



CLASS "B" INSTALLATION

N.T.S.

JACKSON COUNTY UTILITY AUTHORITY	JACKSON COUNTY UTILITY AUTHORITY CONSTRUCTION STANDARDS	TYPICAL TRENCH REPAIR AND BACKFILL AND BEDDING INSTALLATION DETAILS
		G-3

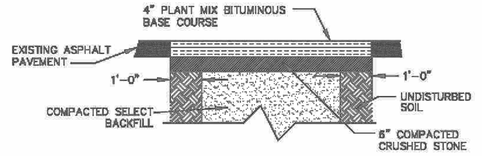


TYPICAL TRENCH REPAIR IN CONCRETE PAVEMENT

N.T.S.

NOTES:

1. EXPANSION JOINTS IN CONCRETE TO BE SPACED EVERY 30 FEET.
2. CONTROL JOINTS TO BE SPACED EVERY 10 FEET (CENTERED IN CONCRETE).



TYPICAL TRENCH REPAIR IN ASPHALT ROAD/DRIVE

N.T.S.

GENERAL NOTE:
SAW CUT LIMITS OF ALL TRENCHES IN PAVEMENTS.

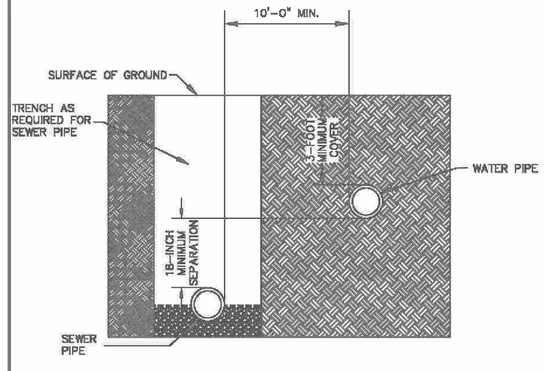
JACKSON COUNTY UTILITY AUTHORITY	JACKSON COUNTY UTILITY AUTHORITY CONSTRUCTION STANDARDS	TYPICAL TRENCH REPAIR DETAILS
		G-4

TRENCH WIDTH TABLE

PIPE SIZE (IN.)	MAX. TRENCH WIDTH—Bd (FT.)	TRENCH VOLUME PER FOOT OF DEPTH (CY/LF)
8	3.00	0.111
10	3.50	0.130
12	3.50	0.130
15	4.00	0.148
18	4.00	0.148
24	4.50	0.167
30	5.00	0.185
36	6.00	0.222
42	6.50	0.240
48	7.00	0.259
54	7.50	0.278
60	8.00	0.296
72	9.25	0.343
78	9.75	0.361
84	10.50	0.389

NOTE:
THE TRENCH WIDTH TABLE CAN BE USED TO CALCULATE QUANTITIES FOR ITEMS OF WORK RELATED TO THE PLACEMENT OF PIPE INCLUDING SELECT BACKFILL, FILL, AND TRENCH REPAIR ITEMS.

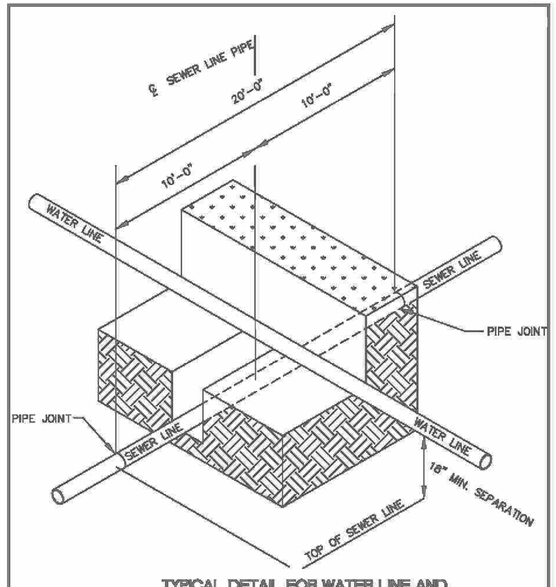
JACKSON COUNTY UTILITY AUTHORITY	JACKSON COUNTY UTILITY AUTHORITY CONSTRUCTION STANDARDS	TRENCH WIDTH TABLE
		G-5



SEPARATION REQUIREMENTS FOR WATER AND SEWER LINES LOCATED WITHIN 10 FOOT HORIZONTAL

N.T.S.

JACKSON COUNTY UTILITY AUTHORITY	JACKSON COUNTY UTILITY AUTHORITY CONSTRUCTION STANDARDS	SEPARATION REQUIREMENTS FOR WATER AND SEWER LINES
		G-6



TYPICAL DETAIL FOR WATER LINE AND SEWER LINE CROSSING REQUIREMENTS

N.T.S.

JACKSON COUNTY UTILITY AUTHORITY	JACKSON COUNTY UTILITY AUTHORITY CONSTRUCTION STANDARDS	TYPICAL DETAIL FOR WATER LINE AND SEWER LINE CROSSING
		G-7

REVISED

DRAWN BY db3

CHECKED drb

DATE 05/05/25

SHEET TITLE CONSTRUCTION DETAILS

PROJECT NAME BELLEVIEW SUBDIVISION

14397 Creosote Road
Gulfport, Mississippi 39503
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JACKSON COUNTY UTILITY AUTHORITY CONSTRUCTION STANDARDS

TYPICAL THRUST BLOCK DETAILS FOR PRESSURE PIPE

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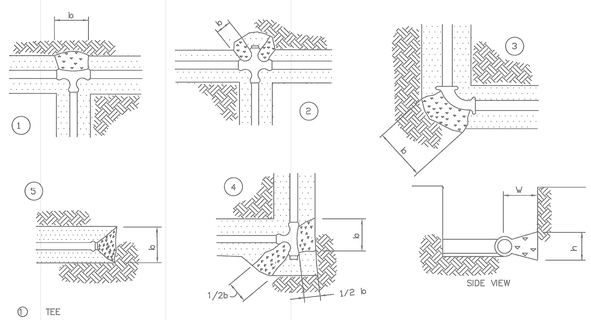
THRUST BLOCKING DIMENSIONS											
DIA. OF PIPE	TEE ①		CROSS ②		BENDS ③		TEE ④		DEAD END ⑤		W
	b	h	b	h	b	h	b	h	b	h	
</= 4"	1.5'	1.5'	1.5'	1.5'	1.5'	1.5'	1.5'	1.5'	1.5'	1.5'	1.5'
6"	2.0'	2.0'	2.0'	2.0'	2.0'	2.0'	2.0'	2.0'	2.0'	2.0'	1.5'
8"	3.0'	2.0'	3.0'	2.0'	4.0'	2.0'	3.0'	2.0'	3.0'	2.0'	2.0'
12"	5.0'	2.5'	5.0'	2.5'	5.0'	2.5'	5.0'	2.5'	5.0'	2.5'	2.5'



① TEE
② CROSS USED AS TEE
③ 90° BEND, 45° BEND, 22 1/2° BEND
④ TEE USED AS ELBOW
⑤ DEAD END

THRUST BLOCKING DETAILS

NTS

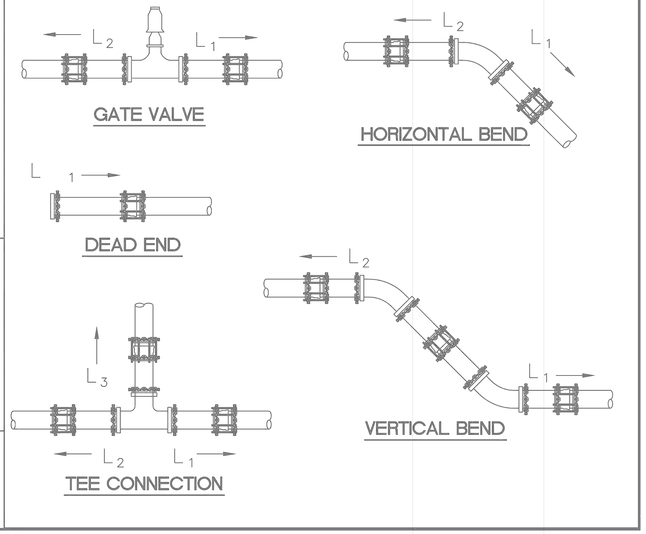
NOTE:
THRUST BLOCKING DIMENSIONS BASED ONSOIL BEARING PRESSURE OF 1500 PSF, SAFETY FACTOR OF 1.5 AND TEST PRESSURE OF 100 PSI. IF CONDITIONS VARY IN THE FIELD ENGINEER SHALL MODIFY DIMENSIONS BASED ON SPECIFIC SOIL CONDITIONS.

JACKSON COUNTY UTILITY AUTHORITY

JACKSON COUNTY UTILITY AUTHORITY CONSTRUCTION STANDARDS

TYPICAL RESTAINING LENGTH DETAILS FOR PRESSURE PIPE

PAGE NUMBER G-10



JACKSON COUNTY UTILITY AUTHORITY

JACKSON COUNTY UTILITY AUTHORITY CONSTRUCTION STANDARDS

TYPICAL RESTAINING LENGTH CHART FOR PRESSURE PIPE

PAGE NUMBER G-9

RESTRAINING LENGTHS FOR JOINT RESTRAINTS									
	MAIN PIPE SIZE – 4"			MAIN PIPE SIZE – 6"			MAIN PIPE SIZE – 8"		
	L_1	L_2	L_3	L_1	L_2	L_3	L_1	L_2	L_3
HORIZONTAL RESTRAINTS									
DEAD END	39'	39'		55'	55'		72'	72'	
90° ELBOW	13'	13'		18'	18'		23'	23'	
45° ELBOW	5'	5'		7'	7'		10'	10'	
22 ½ ELBOW	4'	4'		4'	4'		5'	5'	
11 ¼ ELBOW	4'	4'		4'	4'		4'	4'	
GATE VALVE	39'	39'		55'	55'		72'	72'	
TEE 4" BRANCH	3'	3'	20'	3'	3'	11'	3'	3'	3'
6" BRANCH	3'	3'		3'	3'	35'	3'	3'	29'
8" BRANCH	3'	3'		3'	3'		3'	3'	52'
10" BRANCH	3'	3'		3'	3'		3'	3'	
VERTICAL RESTRAINTS									
45° ELBOW	4'	16'		6'	23'		7'	30'	
22 ½ ELBOW	4'	8'		4'	11'		4'	14'	
11 ¼° ELBOW	4'	4'		4'	5'		4'	7'	

NOTE: MINIMUM RESTRAINED LENGTHS AS SHOWN ARE BASED ON THE FOLLOWING CONDITIONS – PIPE: C-900 PVC, SOIL TYPE: SILTY SAND, TEST PRESSURE: 150 PSI, SAFETY FACTOR: 1.5, DEPTH OF BURY: 3 FT, TRENCH TYPE: AS SPECIFIED IN THESE STANDARD DRAWINGS, TEE FITTING PIPE JOINT MINIMUM LENGTH: 3 FT, MINIMUM DEPTH OF LOW SIDE OF VERTICAL BEND: 4 FEET. IF THESE ARE NOT THE CONDITIONS ENCOUNTERED IN THE FIELD, CONTRACTOR SHOULD CONTACT PRODUCT REPRESENTATIVE FOR THE REQUIRED RESTRAINING LENGTHS OR FOR PIPE SIZES GREATER THAN 8 INCH NOMINAL DIAMETER.

GENERAL NOTES

CONCRETE NOTES

1. CONCRETE SHALL BE AIR ENTRAINED AND HAVE AN ULTIMATE COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS.
2. DETAILS, WORKMANSHIP AND GENERAL PROCEDURE SHALL CONFORM TO ACI 318, ACI 315, AND ACI 301 UNLESS OTHERWISE NOTED.
3. ALL REINFORCING BARS SHALL BE NEW BILLET STEEL DEFORMED BARS MEETING A.S.T.M. A-615 SPECIFICATIONS, LATEST EDITION, WITH A MINIMUM YIELD STRENGTH OF 60,000 PSI.
4. ALL REINFORCEMENT SHALL BE DETAILED, FABRICATED, AND PLACED IN ACCORDANCE WITH THE A.C.I. DETAILING MANUAL NO. SP-66, LATEST EDITION. ALL HOOKS SHALL BE STANDARD HOOKS UNLESS OTHERWISE NOTED.
5. LOCATION AND POSITION OF CONSTRUCTION JOINTS OTHER THAN THAT SHOWN ON THE DRAWINGS SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
6. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE. ALL DISCREPANCIES FOUND SHALL BE REPORTED TO THE ENGINEER BEFORE PROCEEDING WITH WORK.
7. ALL EXPOSED CONCRETE SURFACES SHALL HAVE A HAND-RUBBED FINISH.
8. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4".
9. INTERIOR OF WET WELL AND VALVE BOX SHALL BE COATED WITH 40-60 MIL. WARREN EPOXY COATING SYSTEM.

ALUMINUM HATCH NOTES

1. DESIGN LIVE LOAD FOR COVERS = 300 PSF
2. ALL COVERS TO HAVE LOCKDOWN DOORS

STRUCTURAL NOTES

1. ALL ANCHOR BOLTS SHALL BE TYPE 304 STAINLESS STEEL.
2. FABRICATOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.

MECHANICAL NOTES

1. PUMPS, CONTROL PANELS, AND ALL ACCESSORIES PERTINENT TO PUMP INSTALLATION SHALL BE PROVIDED BY A SINGLE SUPPLIER TO INSURE CONSISTENCY.
2. STATIONS SHALL CONTAIN SUBMERSIBLE PUMPS CAPABLE OF PASSING A MINIMUM 3" DIAMETER SOLID.
3. THE DESIGN POINT FOR THE SUBMERSIBLE PUMP SHALL BE DEPEND ON CONDITIONS.
4. THE SUBMERSIBLE PUMP INSTALLED SHALL PROVIDE A FACTORY SUPPLIED GUIDE RAIL SYSTEM MEETING MANUFACTURER RECOMMENDATIONS. GUIDE RAIL SYSTEMS SHALL BE STAINLESS STEEL.

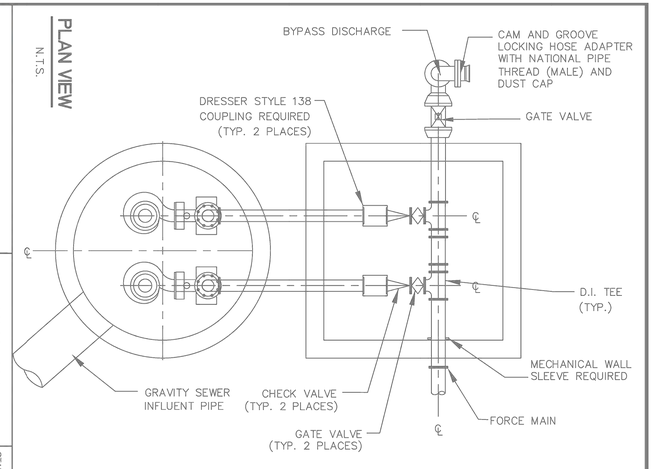
JACKSON COUNTY UTILITY AUTHORITY | JACKSON COUNTY UTILITY AUTHORITY CONSTRUCTION STANDARDS | PUMP STATION GENERAL NOTES | PAGE NUMBER PS-1

JACKSON COUNTY UTILITY AUTHORITY

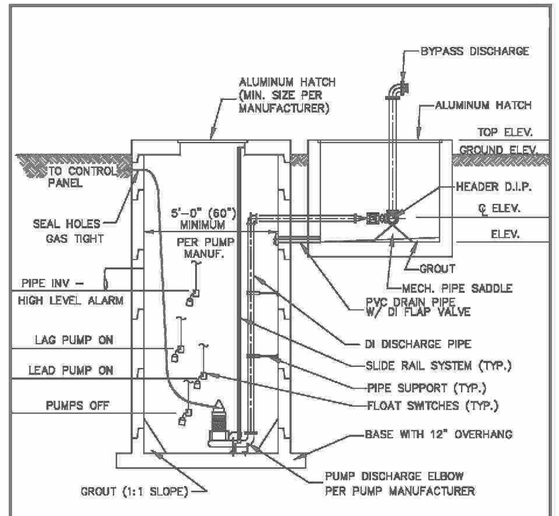
JACKSON COUNTY UTILITY AUTHORITY CONSTRUCTION STANDARDS

STANDARD DUPLEX PUMP STATION PLAN VIEW

PAGE NUMBER PS-2



NOTE:
1. THE STATION SHALL BE READILY ACCESSIBLE BY MAINTENANCE VEHICLES DURING ANY WEATHER.
2. STATION SHALL HAVE 6" THICK CRUSHED STONE ACCESS DRIVE AND PAD. ACCESS DRIVE SHALL BE 12' WIDE (MIN.). PAD DIMENSIONS SHALL BE AS REQ'D BY THE AUTHORITY FOR ACCESS.
3. MECHANICAL WALL SLEEVES SHALL BE REQ'D WHEN PIPE PENETRATES ANY WALL. SLEEVES SHALL BE BY LINK-SEAL OR APPROVED EQUAL.



LIFT STATION SECTION

N.T.S.

PUMP STATION GROUND ELEVATION SHALL BE A MINIMUM OF 1' ABOVE 100 YEAR FLOOD ELEVATION AS DETERMINED BY FEMA FLOODMAPS.

JACKSON COUNTY UTILITY AUTHORITY | JACKSON COUNTY UTILITY AUTHORITY CONSTRUCTION STANDARDS | STANDARD DUPLEX PUMP STATION SECTION VIEW | PAGE NUMBER PS-3

REVISED

DRAWN BY db3

CHECKED drb

DATE 05/05/25

SHEET TITLE CONSTRUCTION DETAILS

PROJECT NAME BELLEVIEW SUBDIVISION

ENGINEERING SERVICES, LLC
14397 Creosote Road
Gulfport, Mississippi 39503
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SHEET 37 OF 43

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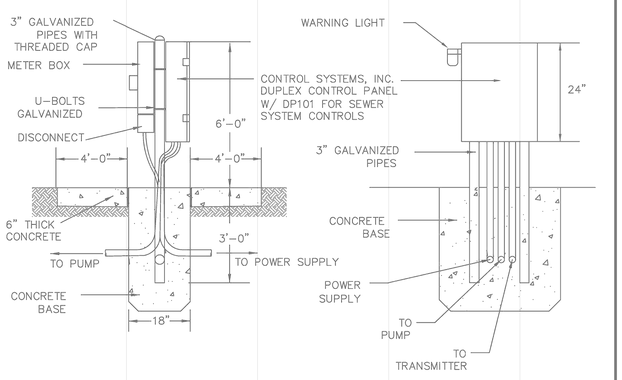


TYPICAL CONTROL PANEL DETAILS

N.T.S.

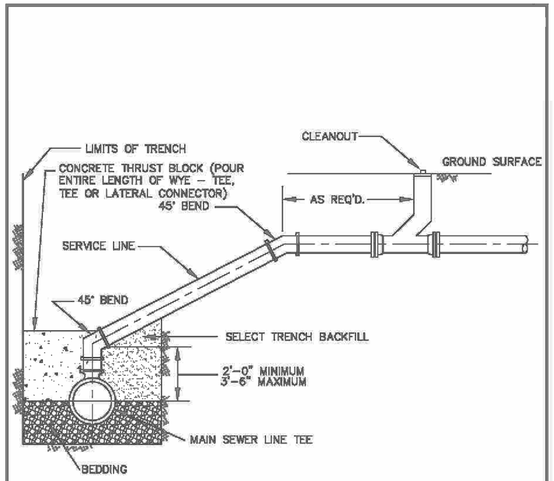
NOTE:
1. ELECTRICAL CONDUIT ABOVE GROUND SHALL BE RIGID GALVANIZED TYPE CONDUIT FROM THE BEND TO ITS TERMINATION POINT.
2. BOTTOM OF PANEL SHALL BE AT LEAST 1' ABOVE 100 YEAR FLOOD ELEVATION AS DETERMINED BY FEMA FLOOD MAPS.

JACKSON COUNTY UTILITY AUTHORITY

JACKSON COUNTY UTILITY AUTHORITY CONSTRUCTION STANDARDS

CONTROL PANEL DETAILS

STD. NUMBER PS-4



SERVICE CONNECTION FOR DEEP SEWER SLOPES GREATER THAN 25 PERCENT

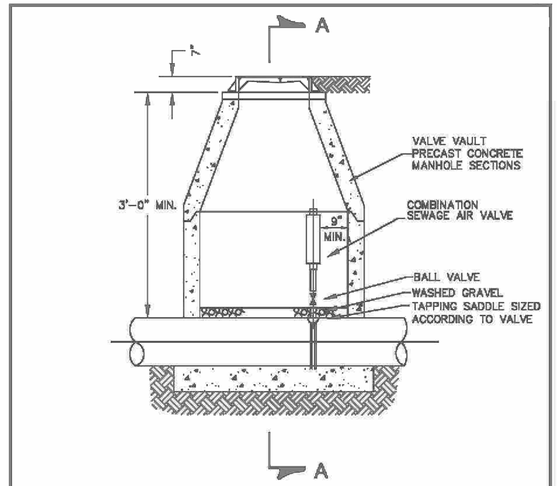
N.T.S.

JACKSON COUNTY UTILITY AUTHORITY

JACKSON COUNTY UTILITY AUTHORITY CONSTRUCTION STANDARDS

SERVICE CONNECTION FOR DEEP SEWER SLOPES GREATER THAN 25 PERCENT

STD. NUMBER SS-5



TYPICAL COMBINATION SEWAGE VALVE INSTALLATION WITH MANHOLE

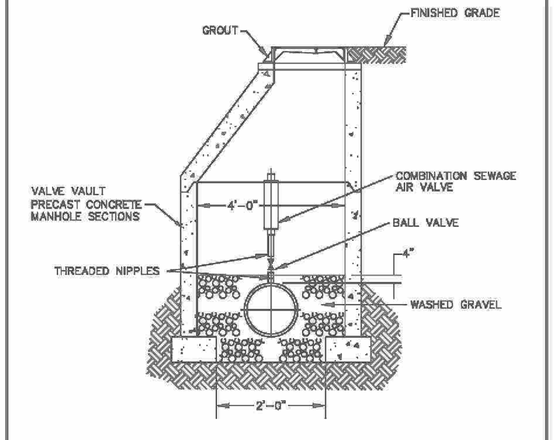
N.T.S.

JACKSON COUNTY UTILITY AUTHORITY

JACKSON COUNTY UTILITY AUTHORITY CONSTRUCTION STANDARDS

TYPICAL COMBINATION SEWAGE AIR VALVE INSTALLATION WITH VAULT

STD. NUMBER PS-11



TYPICAL COMBINATION SEWAGE VALVE WITH MANHOLE SECTION A-A

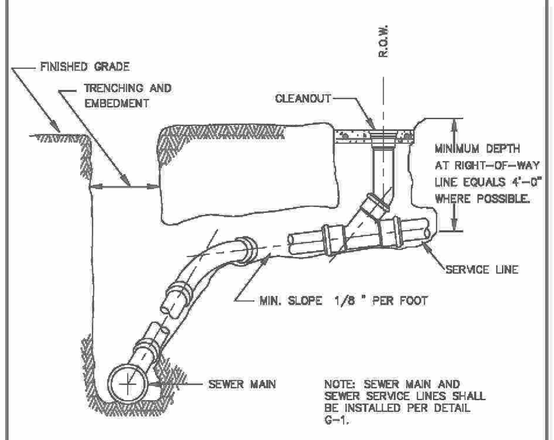
N.T.S.

JACKSON COUNTY UTILITY AUTHORITY

JACKSON COUNTY UTILITY AUTHORITY CONSTRUCTION STANDARDS

TYPICAL COMBINATION SEWAGE AIR VALVE SECTION A-A

STD. NUMBER PS-12



SECTION - SINGLE WYE SERVICE

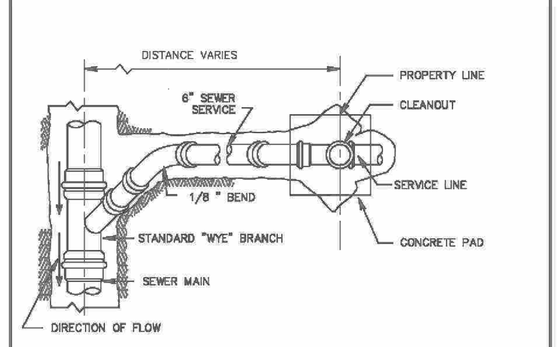
N.T.S.

JACKSON COUNTY UTILITY AUTHORITY

JACKSON COUNTY UTILITY AUTHORITY CONSTRUCTION STANDARDS

SECTION SINGLE WYE SERVICE

STD. NUMBER SS-1



PLAN - SINGLE WYE SERVICE SEWER SERVICE DETAILS

N.T.S.

JACKSON COUNTY UTILITY AUTHORITY

JACKSON COUNTY UTILITY AUTHORITY CONSTRUCTION STANDARDS

PLAN SEWER SERVICE DETAIL

STD. NUMBER SS-2

REVISED

DRAWN BY db3

CHECKED drb

DATE 05/05/25

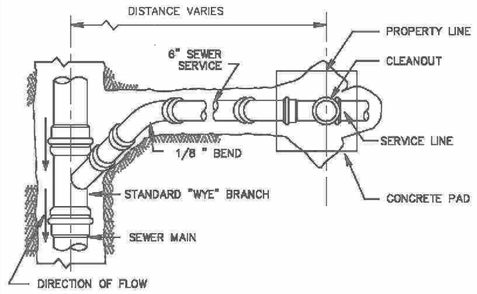
SHEET TITLE CONSTRUCTION DETAILS

PROJECT NAME BELLEVIEW SUBDIVISION

ENGINEERING SERVICES, LLC
14397 Creosote Road
Gulfport, Mississippi 39503
(228) 297-1647

SHEET 38 OF 43

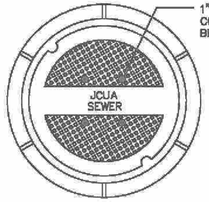
PROJECT NO. fountainbleu.dwg



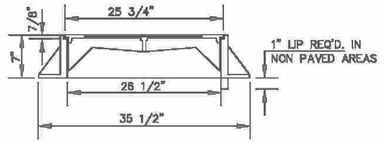
PLAN - SINGLE WYE SERVICE
SEWER SERVICE DETAILS

N.T.S.

JACKSON COUNTY UTILITY AUTHORITY	JACKSON COUNTY UTILITY AUTHORITY CONSTRUCTION STANDARDS	PLAN SEWER SERVICE DETAIL
		SS-2



TOP PLAN OF COVER

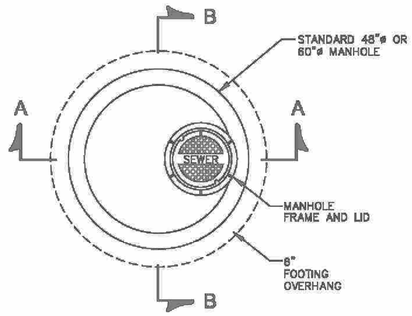


SECTION

STANDARD MANHOLE FRAME AND COVER

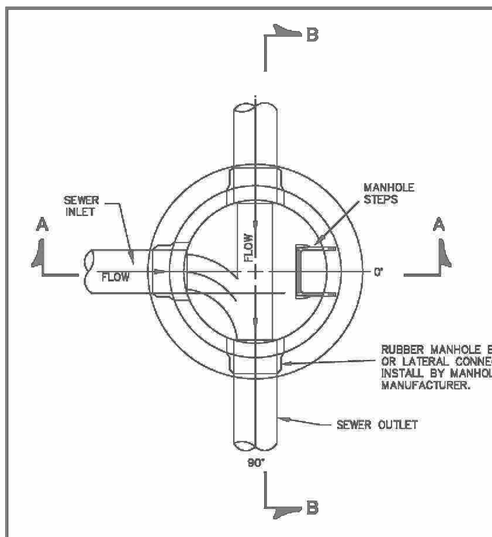
N.T.S.

JACKSON COUNTY UTILITY AUTHORITY	JACKSON COUNTY UTILITY AUTHORITY CONSTRUCTION STANDARDS	SEWER MANHOLE FRAME AND COVER
		SS-6



PLAN

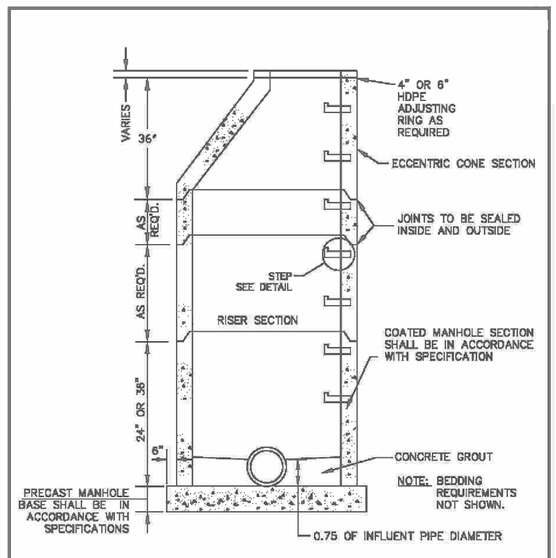
JACKSON COUNTY UTILITY AUTHORITY	JACKSON COUNTY UTILITY AUTHORITY CONSTRUCTION STANDARDS	MANHOLE PLAN VIEW
		SS-7



SECTIONAL PLAN
STANDARD MANHOLE

N.T.S.

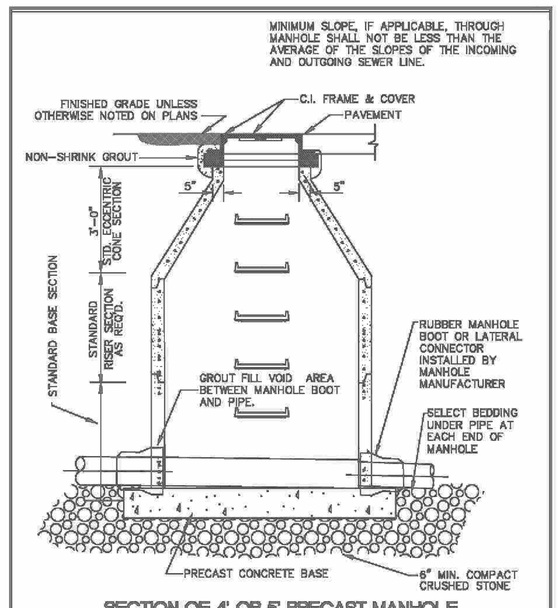
JACKSON COUNTY UTILITY AUTHORITY	JACKSON COUNTY UTILITY AUTHORITY CONSTRUCTION STANDARDS	MANHOLE INVERT PLAN VIEW
		SS-8



SECTION A-A OF 4' OR 5' PRECAST MANHOLE

N.T.S.

JACKSON COUNTY UTILITY AUTHORITY	JACKSON COUNTY UTILITY AUTHORITY CONSTRUCTION STANDARDS	SECTION A-A OF 4' OR 5' DIAMETER MANHOLE
		SS-9



SECTION OF 4' OR 5' PRECAST MANHOLE

N.T.S.

JACKSON COUNTY UTILITY AUTHORITY	JACKSON COUNTY UTILITY AUTHORITY CONSTRUCTION STANDARDS	SECTION B-B OF 4' OR 5' DIAMETER MANHOLE
		SS-10

REVISED
DRAWN BY db3
CHECKED drb
DATE 05/05/25

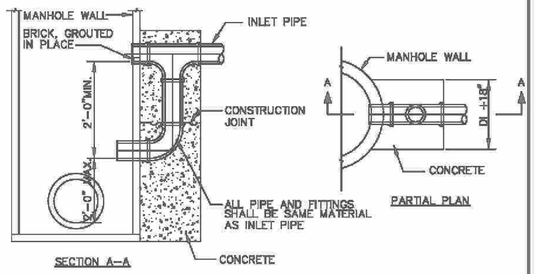
SHEET TITLE
CONSTRUCTION DETAILS

PROJECT NAME
BELLEVIEW SUBDIVISION

ENGINEERING SERVICES, LLC
14397 Creosote Road
Gulfport, Mississippi 39503
(228) 297-1647

SHEET
39
OF 43

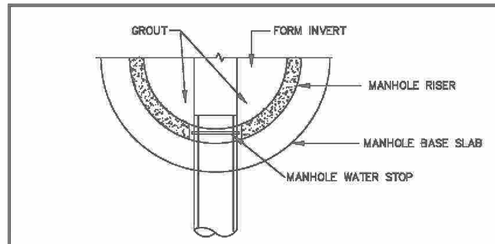
PROJECT NO.
fountainbleu.dwg



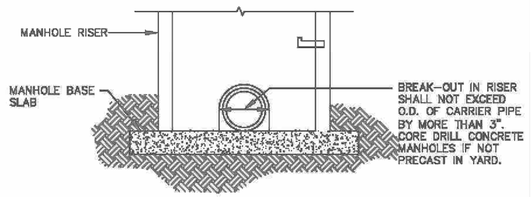
TYPICAL DROP INLET CONNECTION AT MANHOLE

N.T.S.

JACKSON COUNTY UTILITY AUTHORITY	JACKSON COUNTY UTILITY AUTHORITY CONSTRUCTION STANDARDS	TYPICAL DROP INLET CONNECTION AT MANHOLE
		SS-12



PLAN

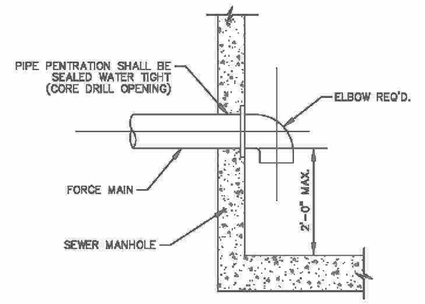


ELEVATION

TYPICAL DETAIL OF SEWER PIPE CONNECTION TO EXISTING MANHOLE

N.T.S.

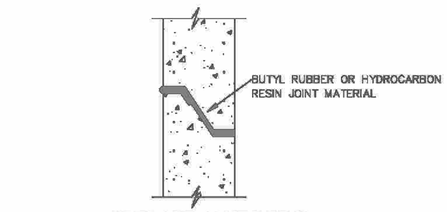
JACKSON COUNTY UTILITY AUTHORITY	JACKSON COUNTY UTILITY AUTHORITY CONSTRUCTION STANDARDS	TYPICAL DETAIL OF SEWER PIPE CONNECTION TO EXISTING MANHOLE
		SS-13



FORCE MAIN CONNECTION TO MANHOLE

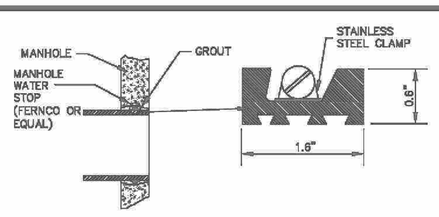
N.T.S.

JACKSON COUNTY UTILITY AUTHORITY	JACKSON COUNTY UTILITY AUTHORITY CONSTRUCTION STANDARDS	FORCE MAIN CONNECTION TO MANHOLE
		SS-14



PRECAST JOINT DETAIL

N.T.S.



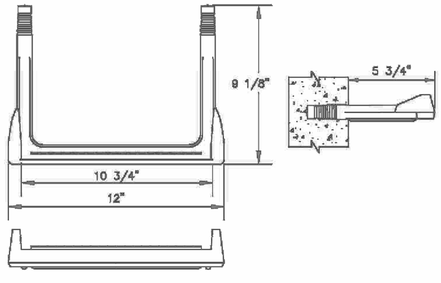
NOTE: MANHOLE CUTOUT SHALL BE ROUGHENED PRIOR TO FILLING VOID AREA BETWEEN MANHOLE AND PIPE

TYPICAL MANHOLE WATER STOP

EXISTING AND "STRADDLE" MANHOLES

N.T.S.

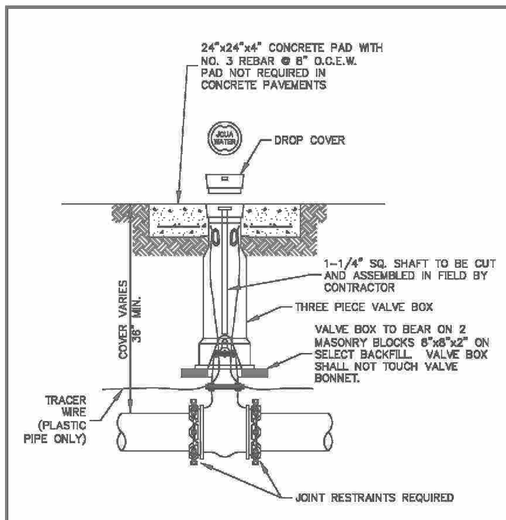
JACKSON COUNTY UTILITY AUTHORITY	JACKSON COUNTY UTILITY AUTHORITY CONSTRUCTION STANDARDS	MISCELLANEOUS MANHOLE DETAILS
		SS-15



STEP DETAIL

N.T.S.

JACKSON COUNTY UTILITY AUTHORITY	JACKSON COUNTY UTILITY AUTHORITY CONSTRUCTION STANDARDS	MANHOLE STEP DETAIL
		SS-16



TYPICAL GATE VALVE DETAIL

N.T.S.

NOTE:
VALVE BOX SHOULD BE LEVEL AND VALVE STEM SHOULD BE CENTERED OF VALVE BOX.

JACKSON COUNTY UTILITY AUTHORITY	JACKSON COUNTY UTILITY AUTHORITY CONSTRUCTION STANDARDS	TYPICAL GATE VALVE DETAIL
		PW-1

REVISED

DRAWN BY db3

CHECKED drb

DATE 05/05/25

SHEET TITLE CONSTRUCTION DETAILS

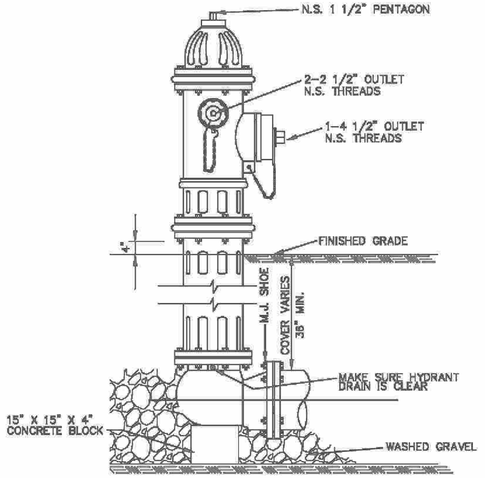
PROJECT NAME BELLEVIEW SUBDIVISION

ENGINEERING SERVICES, LLC

14397 Creosote Road
Gulfport, Mississippi 39503
(228) 297-1647

SHEET 40 OF 43

PROJECT NO. fountainbleu.dwg

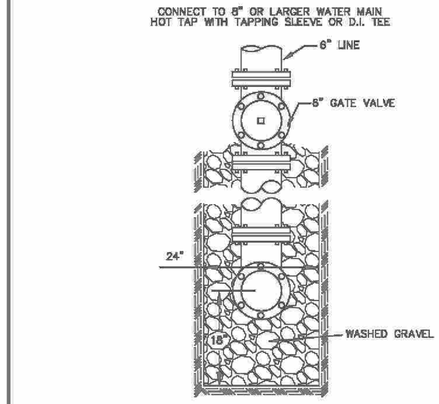


ELEVATION

TYPICAL FIRE HYDRANT ASSEMBLY

N.T.S.

JACKSON COUNTY UTILITY AUTHORITY	JACKSON COUNTY UTILITY AUTHORITY CONSTRUCTION STANDARDS	TYPICAL FIRE HYDRANT ASSEMBLY (ELEVATION)
		PW-3



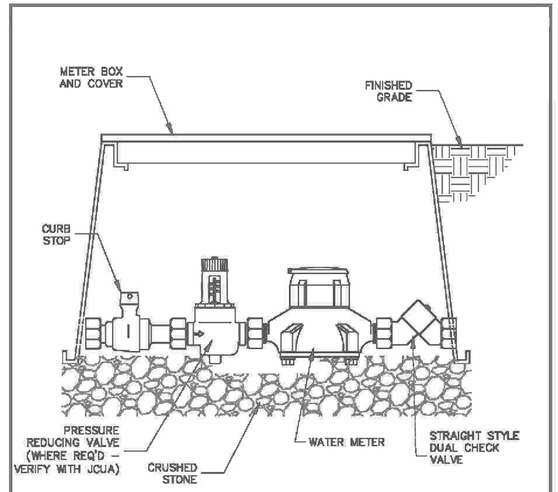
PLAN

TYPICAL FIRE HYDRANT ASSEMBLY

N.T.S.

NOTES:
1. ALL JOINTS OF FIRE ASSEMBLY SHALL BE RESTRAINED.
2. GATE VALVES WILL BE REQUIRED ON ALL FIRE HYDRANT LEGS.
3. FIRE HYDRANT ASSEMBLY IS TO INCLUDE ALL APPURTENANCES INCLUDING THE CONNECTION AT THE MAIN.

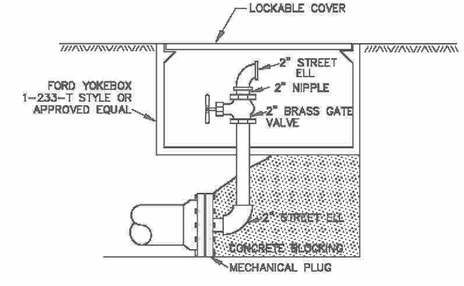
JACKSON COUNTY UTILITY AUTHORITY	JACKSON COUNTY UTILITY AUTHORITY CONSTRUCTION STANDARDS	TYPICAL FIRE HYDRANT ASSEMBLY (PLAN AND NOTES)
		PW-4



TYPICAL WATER METER DETAIL

N.T.S.

JACKSON COUNTY UTILITY AUTHORITY	JACKSON COUNTY UTILITY AUTHORITY CONSTRUCTION STANDARDS	TYPICAL WATER METER DETAIL
		PW-5



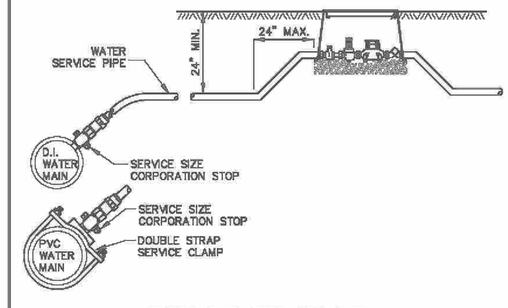
TYPICAL BLOW-OFF ASSEMBLY

N.T.S.

NOTES:

1. ALL MATERIALS FOR CONSTRUCTION OF BLOW-OFF ASSEMBLY SHALL BE STAINLESS STEEL PIPE.

JACKSON COUNTY UTILITY AUTHORITY	JACKSON COUNTY UTILITY AUTHORITY CONSTRUCTION STANDARDS	TYPICAL BLOW-OFF ASSEMBLY
		PW-6



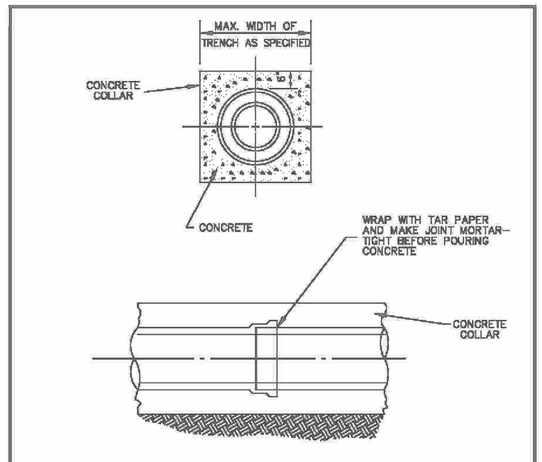
TYPICAL WATER SERVICE CONNECTION TO NEW WATER MAIN

N.T.S.

NOTES:

1. LOCATOR WIRE SHALL BE PLACED ON ALL SERVICE LINES 1½" AND LARGER.

JACKSON COUNTY UTILITY AUTHORITY	JACKSON COUNTY UTILITY AUTHORITY CONSTRUCTION STANDARDS	TYPICAL WATER SERVICE CONNECTION TO WATER MAIN
		PW-7



TYPICAL DETAIL OF CONCRETE ENCASEMENT

N.T.S.

JACKSON COUNTY UTILITY AUTHORITY	JACKSON COUNTY UTILITY AUTHORITY CONSTRUCTION STANDARDS	TYPICAL DETAIL OF CONCRETE ENCASEMENT
		PW-10

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DRAWN BY db3

CHECKED drb

DATE 05/05/25

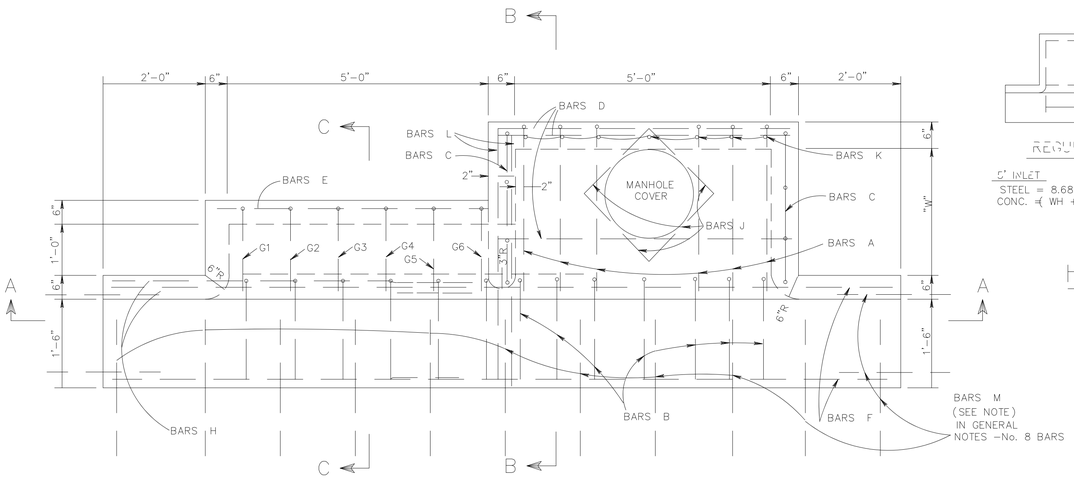
SHEET TITLE
CONSTRUCTION DETAILS

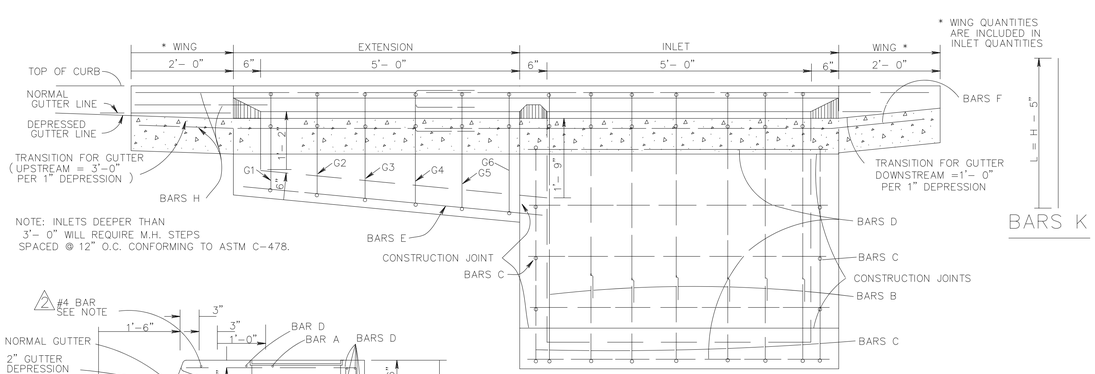
PROJECT NAME
BELLEVIEW SUBDIVISION

ENGINEERING SERVICES, LLC
14397 Creosote Road
Gulfport, Mississippi 39503
(228) 297-1647

SHEET 41 OF 43

PROJECT NO. fountainbleu.dwg

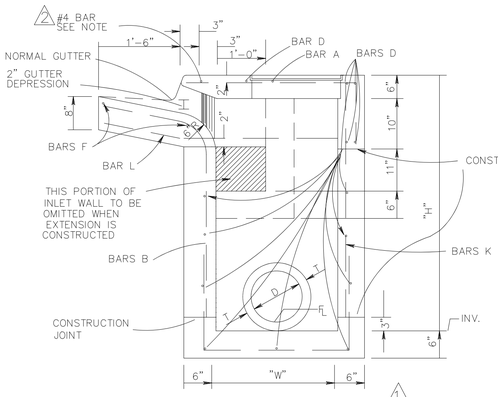




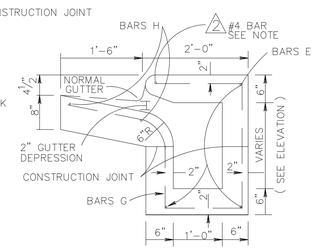
NOTE: INLETS DEEPER THAN 3'– 0" WILL REQUIRE M.H. STEPS SPACED @ 12" O.C. CONFORMING TO ASTM C–478.

SECTIONAL ELEVATION "A–A"

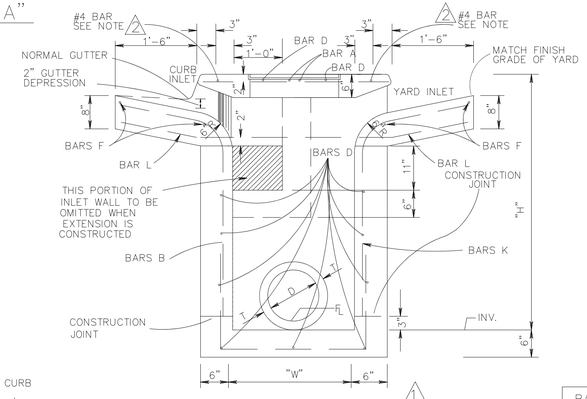
* WING QUANTITIES ARE INCLUDED IN INLET QUANTITIES



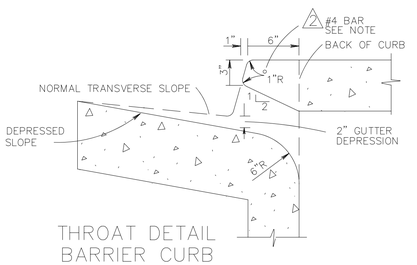
SECTION "B – B" 1



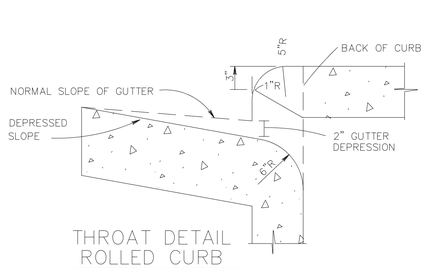
SECTION "C – C"



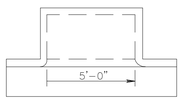
SECTION "B – B" 1
WITH YARD INLET OPENING
ON SIDE OF BOX AWAY FROM STREET
(TO BE USED IN LOCATIONS AS INDICATED ON PLANS)



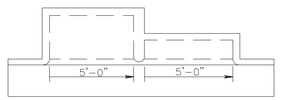
THROAT DETAIL
BARRIER CURB



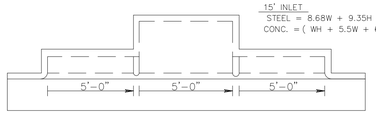
THROAT DETAIL
ROLLED CURB



REGULAR INLET



INLET WITH ONE EXTENSION



INLET WITH TWO EXTENSIONS

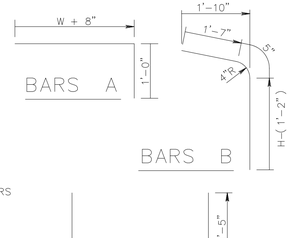
15' INLET
STEEL = 8.68W + 9.35H + 3.79W † + 7.57H † + 341
CONC. = (WH + 5.5W + 6H + 62.671) / 27

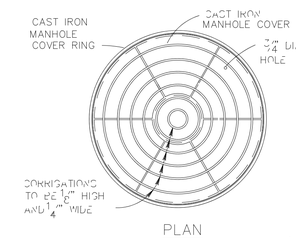
5' INLET
STEEL = 8.68W + 9.35H + 3.79W † + 7.57H † + 121
CONC. = (WH + 5.5W + 6H + 14.611) / 27

10' INLET
STEEL = 8.68W + 9.35H + 3.79W † + 7.57H † + 231
CONC. = (WH + 5.5W + 6H + 38.64) / 27

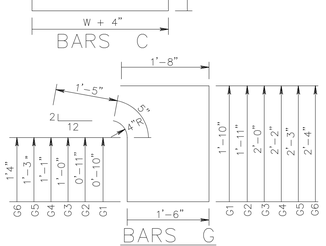
NOTE:
1. W AND H ARE EXPRESSED IN FEET AND FRACTIONS OF FEET
2. W = W ROUNDED TO THE NEAREST WHOLE FOOT.
3. H = H–1.58 ROUNDED OFF TO THE NEAREST WHOLE FOOT.
4. NO DEDUCTIONS ARE MADE FOR PIPE OPENINGS IN FORMULAS.

PLAN OF INLET AND EXTENSIONS 1

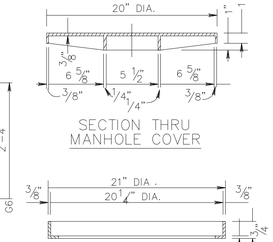




PLAN



BAR G LENGTHS
G1 = 7'–10"
G2 = 8'–0"
G3 = 8'–2"
G4 = 8'–5"
G5 = 8'–8"
G6 = 8'–10"



SECTION THRU MANHOLE COVER

SECTION THRU MANHOLE COVER RING

21" DIA. OPENING FOR DEWS FOUNDRY CATALOG NUMBER M.S.H.D. SS–2
MANHOLE RING & COVER WEIGHT = 79 LBS.

1 BILL OF REINFORCING STEEL W=2'–6" 1–5'–0" INLET

"H"	BAR A 4'–8" #4 @ 9"		BAR C 6'–2" #4 @ 9"		BAR D 5'–8" #4 @ 12"		BAR F 9'–8" #6		BAR J 2'–3" #4		BAR B #4 @ 9"			BAR K #4 @ 9" +			* TOTAL STEEL	TOTAL CONC.
	NO.	WT.	NO.	WT.	NO.	WT.	NO.	WT.	NO.	WT.	LGTH.	NO.	WT.	LGTH.	NO.	WT.	LBS.	C.Y.
3'–0"	6	17	7	27	10	38	5	73	4	6	3'–10"	7	18	2'–7"	7	12	190	1.99
3'–6"	6	17	7	27	12	45	5	73	4	6	4'–4"	7	20	3'–1"	7	14	202	2.15
4'–0"	6	17	7	27	12	45	5	73	4	6	4'–10"	7	23	3'–7"	7	17	207	2.31
4'–6"	6	17	7	27	14	53	5	73	4	6	5'–4"	7	25	4'–1"	7	19	219	2.47
5'–0"	6	17	7	27	14	53	5	73	4	6	5'–10"	7	27	4'–7"	7	21	224	2.62
5'–6"	6	17	7	27	16	61	5	73	4	6	6'–4"	7	30	5'–1"	7	24	238	2.78
6'–0"	6	17	7	27	16	61	5	73	4	6	6'–10"	7	32	5'–7"	7	26	240	2.94
6'–6"	6	17	7	27	18	68	5	73	4	6	7'–4"	7	34	6'–1"	7	28	253	3.10
7'–0"	6	17	7	27	18	68	5	73	4	6	7'–10"	7	37	6'–7"	7	31	257	3.25

* WHERE INLET IS USED WITH CONCRETE PAVEMENT, ADD 73 LBS. OF STEEL FOR BARS M

1 BILL OF REINFORCING STEEL W=3'–0" 1–5'–0" INLET

"H"	BAR A 4'–8" #4 @ 9"		BAR C 6'–2" #4 @ 9"		BAR D 5'–8" #4 @ 12"		BAR F 9'–8" #6		BAR J 2'–3" #4		BAR B #4 @ 9"			BAR K #4 @ 9"			*TOTAL STEEL	TOTAL CONC.
	NO.	WT.	NO.	WT.	NO.	WT.	NO.	WT.	NO.	WT.	LGTH.	NO.	WT.	LGTH.	NO.	WT.	LBS.	C.Y.
3'–0"	6	19	7	29	10	38	5	73	4	6	3'–10"	7	18	2'–7"	7	12	194	2.15
3'–6"	6	19	7	29	12	45	5	73	4	6	4'–4"	7	20	3'–1"	7	14	206	2.32
4'–0"	6	19	7	29	12	45	5	73	4	6	4'–10"	7	23	3'–7"	7	17	211	2.49
4'–6"	6	19	7	29	14	53	5	73	4	6	5'–4"	7	25	4'–1"	7	19	223	2.65
5'–0"	6	19	7	29	14	53	5	73	4	6	5'–10"	7	27	4'–7"	7	21	228	2.82
5'–6"	6	19	7	29	16	61	5	73	4	6	6'–4"	7	30	5'–1"	7	24	240	2.99
6'–0"	6	19	7	29	16	61	5	73	4	6	6'–10"	7	32	5'–7"	7	26	245	3.15
6'–6"	6	19	7	29	18	68	5	73	4	6	7'–4"	7	34	6'–1"	7	28	257	3.32
7'–0"	6	19	7	29	18	68	5	73	4	6	7'–10"	7	37	6'–7"	7	31	262	3.49

1 BILL OF REINFORCING STEEL W=3'–6" 1–5'–0" INLET

"H"	BAR A 5'–2" #4 @ 9"		BAR C 6'–8" #4 @ 9"		BAR D 5'–8" #4 @ 12"		BAR F 9'–8" #6		BAR J 2'–3" #4		BAR B #4 @ 9"			BAR K #4 @ 9"			*TOTAL STEEL	TOTAL CONC.
	NO.	WT.	NO.	WT.	NO.	WT.	NO.	WT.	NO.	WT.	LGTH.	NO.	WT.	LGTH.	NO.	WT.	LBS.	C.Y.
3'–0"	6	21	7	31	11	42	5	73	4	6	3'–10"	7	18	2'–7"	7	12	202	2.31
3'–6"	6	21	7	31	13	49	5	73	4	6	4'–4"	7	20	3'–1"	7	14	214	2.49
4'–0"	6	21	7	31	13	49	5	73	4	6	4'–10"	7	23	3'–7"	7	17	219	2.66
4'–6"	6	21	7	31	15	57	5	73	4	6	5'–4"	7	25	4'–1"	7	19	231	2.84
5'–0"	6	21	7	31	15	57	5	73	4	6	5'–10"	7	27	4'–7"	7	21	236	3.01
5'–6"	6	21	7	31	17	64	5	73	4	6	6'–4"	7	30	5'–1"	7	24	248	3.19
6'–0"	6	21	7	31	17	64	5	73	4	6	6'–10"	7	32	5'–7"	7	26	253	3.37
6'–6"	6	21	7	31	19	72	5	73	4	6	7'–4"	7	34	6'–1"	7	28	265	3.54
7'–0"	6	21	7	31	19	72	5	73	4	6	7'–10"	7	37	6'–7"	7	31	270	3.72

1

INCREASE IN C.Y. PER FT. "H"		INCREASE PER FT. "W"	
"W" =	C.Y./FT.H	"H"=	C.Y./FT.W
2'–6"	.315	3'–0"	.315
3'–0"	.333	3'–6"	.333
3'–6"	.352	4'–0"	.352
4'–0"	.371	4'–6"	.370
4'–6"	.389	5'–0"	.389
5'–0"	.408	5'–6"	.408
5'–6"	.426	6'–0"	.426
6'–0"	.445	6'–6"	.445
6'–6"	.463	7'–0"	.463
7'–0"	.481	7'–6"	.482
		8'–0"	.500

- GENERAL NOTES: WHERE INLET OR INLET WITH EXTENSION(S) IS USED WITH CONCRETE PAVEMENT WITH INTEGRAL CURB, THE PAVEMENT IS TO BE BLOCKED OUT TO THE DIMENSIONS AS SHOWN FOR THE GUTTER PORTION OF THE INLET OR INLET WITH EXTENSION(S). THE PORTION BLOCKED OUT SHALL BE PLACED INTEGRAL WITH THE TOP OF THE INLET OR INLET WITH EXTENSION(S) .NO.8 DEFORMED BARS 30" LONG SHALL BE PLACED ON 18" CENTERS AT THE CENTER OF THE PAVEMENT. THESE BARS SHALL EXTEND INTO THE GUTTER PORTION OF THE INLET OR INLET WITH EXTENSION(S) 15". THE CONSTRUCTION JOINT BETWEEN THE CONCRETE PAVEMENT AND THE INLET OR INLET WITH EXTENSION(S) SHALL BE A KEYED JOINT AS SHOWN. A SMOOTH CONSTRUCTION JOINT WILL NOT BE PERMITTED. QUANTITIES FOR BLOCKED OUT AREA OF PAVEMENT SHALL BE INCLUDED IN QUANTITIES FOR INLET OR INLET WITH EXTENSION(S).
- THE STANDARD SPECIFICATIONS ADOPTED BY THE MISSISSIPPI STATE HIGHWAY DEPARTMENT SHALL APPLY TO ALL ITEMS ON THIS SHEET.
- THE QUANTITIES SHOWN,MINUS VOLUMETRIC DISPLACEMENT OF CONCRETE BY PIPE CULVERTS THROUGH INLET WALLS, WILL BE USED AS THE BASIS OF FINAL PAYMENT UNLESS THIS PLAN IS MODIFIED.
- FOR CONVENIENCE, DEPTHS OF INLETS SHOWN IN ABOVE TABLE ARE INCREMENTS OF 6" (INCHES). BUT ANY DEPTHS OTHER THAN THESE SHOWN MAY BE USED WHENEVER DEEMED NECESSARY. QUANTITIES FOR OTHER DEPTHS, FALLING WITHIN THE LIMITS OF THE TABLE, MAY BE FOUND BY INTERPOLATION.
- FIELD CUT AND BEND BARS AS NECESSARY TO ACCOMMODATE STORM SEWER. NO DEDUCTIONS ARE TO BE MADE IN STEEL QUANTITIES.
- NO ADDITIONAL QUANTITIES WILL BE ALLOWED FOR YARD INLET OPENING.

QUANTITIES FOR ONE EXTENSION

BAR	SIZE	LENGTH	SPACING	NUMBER	† WEIGHT
E	# 4	5'–8"	AS SHOWN	3	11
G	# 4	SEE SCHEDULE	11"	6	34
H	# 6	6'–9"	AS SHOWN	5	51
L	# 6	4'–9"	AS SHOWN	2	14
TOTAL STEEL FOR ONE EXTENSION 110 LBS.					
TOTAL CONC. FOR ONE EXTENSION 0.89 C.Y.					

† WHERE EXTENSION IS USED WITH CONCRETE PAVEMENT, ADD 27 LBS. OF STEEL FOR BARS M.

2 The bars in the area of lip of curb inlet were changed from #6 to #4. #6 #6 bars are too large and cause problems. If equipment hits, it tears up the concrete. Also there were originally 3 bars in this spot which proved to be overdesigned.

STORM SEWER STRUCURE TYPE SS–2

N.T.S.

REVISED

DRAWN BY db3

CHECKED drb

DATE 05/05/25

SHEET TITLE CONSTRUCTION DETAILS

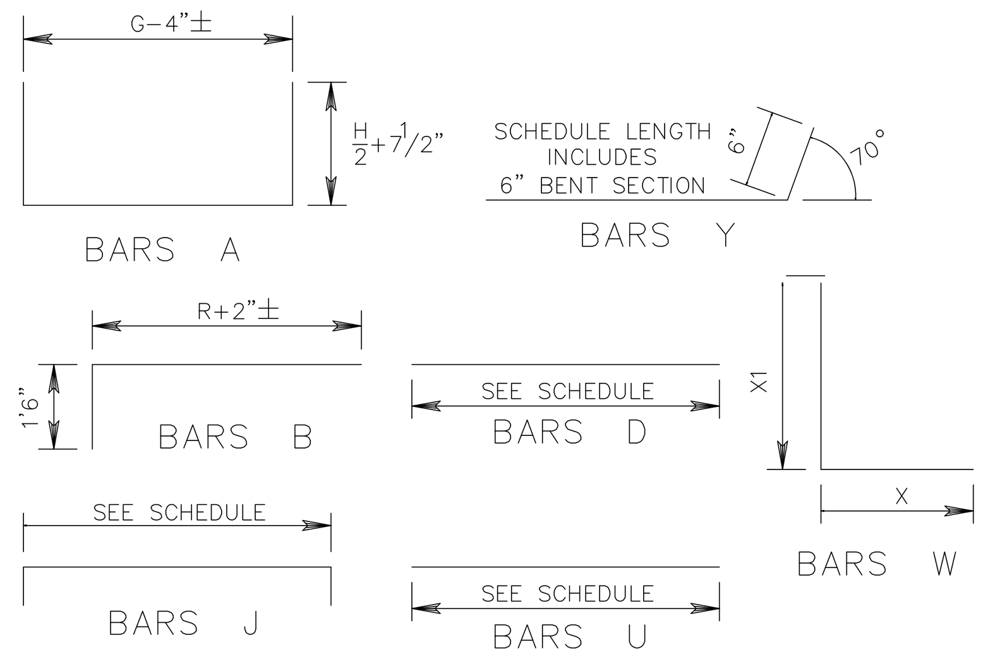
PROJECT NAME BELLEVIEW SUBDIVISION

ENGINEERING SERVICES, LLC

14397 Creosote Road
Gulfport, Mississippi 39503
(228) 297–1647

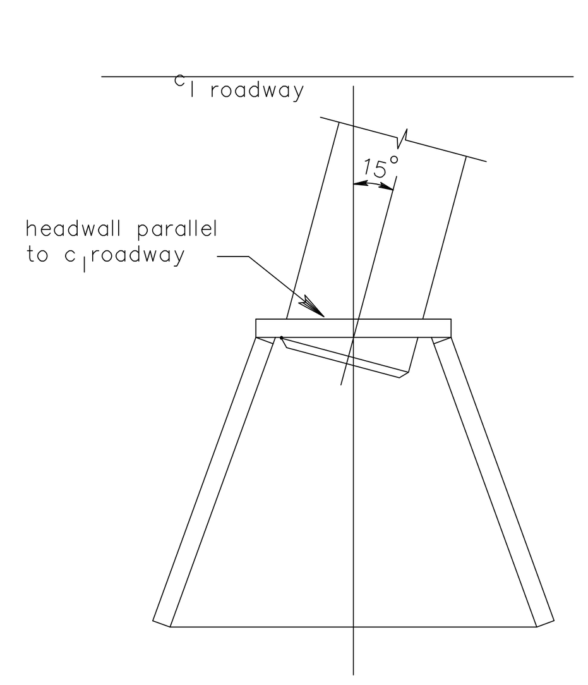
SHEET 42 OF 43

PROJECT NO. fountainbleu.dwg

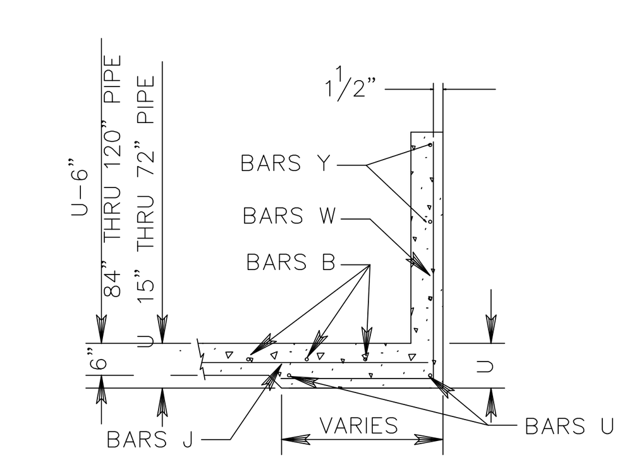


NOTE:
1. WHENEVER THE COMPUTED LENGTH OF BAR EXCEEDS 30', THE SCHEDULED LENGTH INCLUDES A 12" LAP.
2. ALL BARS ARE NO 4, EXCEPT BARS W.
3. SEE SCHEDULE FOR SIZE OF BARS W.

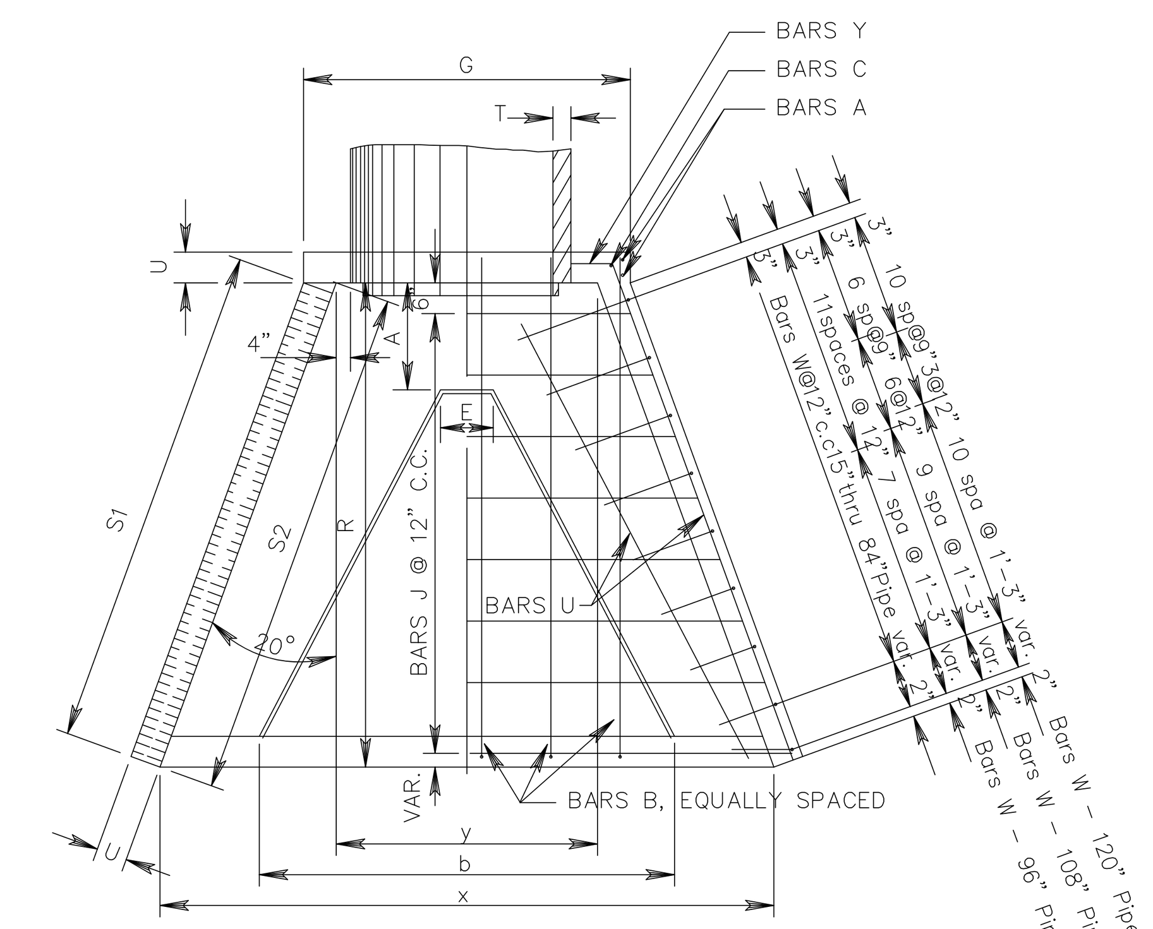
BAR BENDING DETAILS



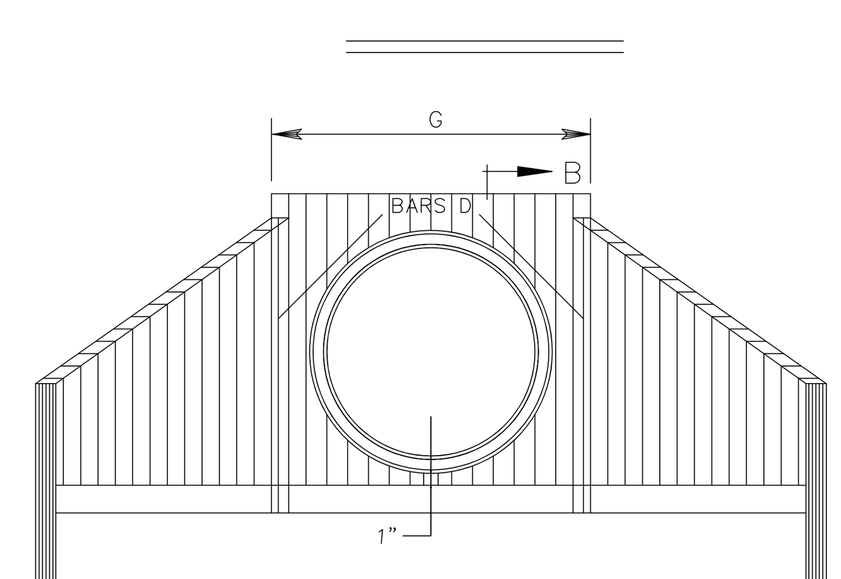
PLAN VIEW FOR 15° SKEW INSTALLATION



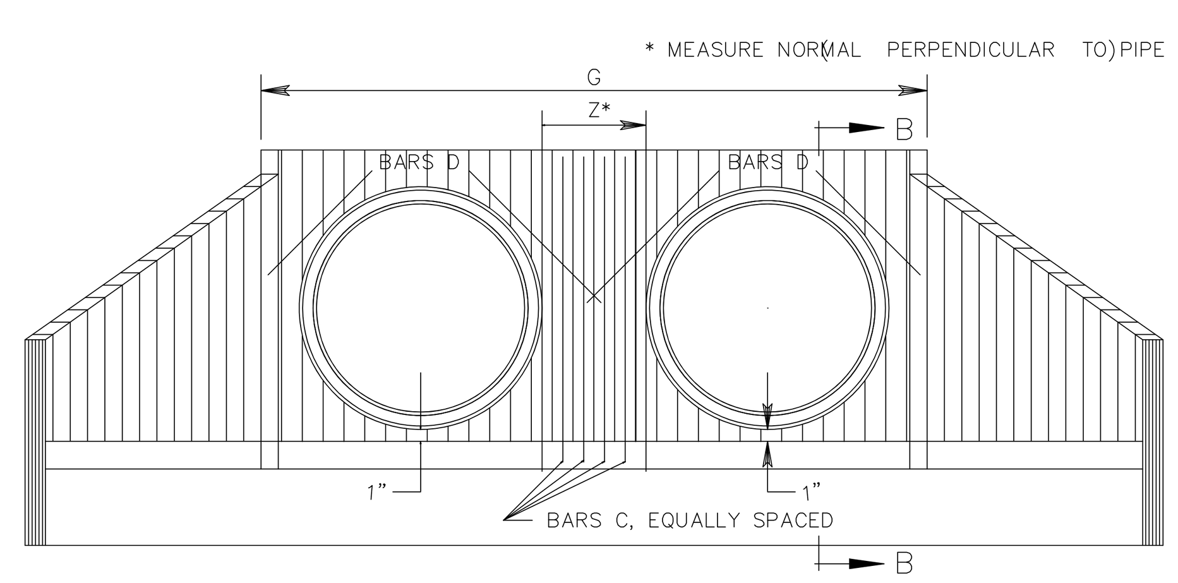
SECTION A−A



PLAN VIEW



FRONT ELEVATION



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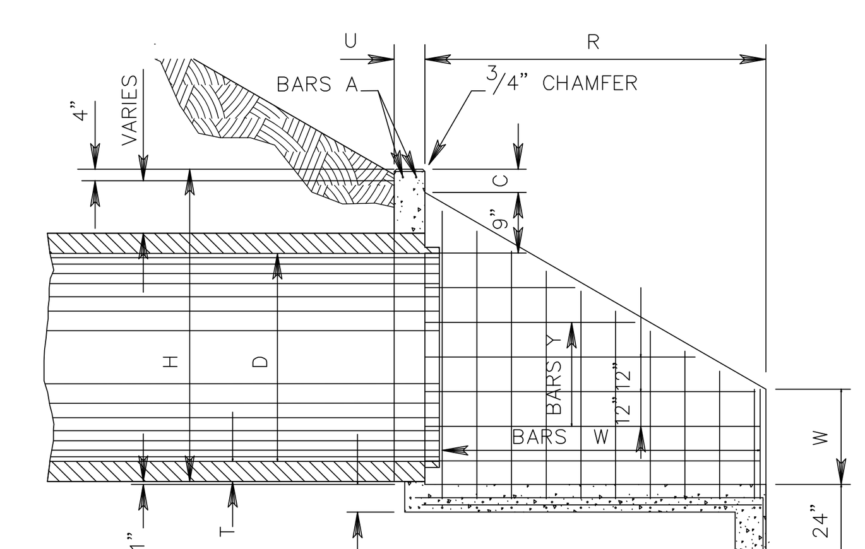


SECTION B−B

DIMENSIONS AND REINFORCING COMMON TO FLARED HEADWALLS FOR SINGLE, DOUBLE AND TRIPLE LINE PIPE CULVERTS

PIPE SIZE INSIDE DIA.	MIN SHELL THICK "T"	C	H	R	S1	S2	U	W	U NO	U LGTH	W1 NO	W1 SIZE	W1 X	W1 X1	W1 LGTH	W2 NO	W2 SIZE	W2 X	W2 X1	W2 LGTH
15"	2 1/4"	7	2-5	3-10 1/2	3-11 3/8	4-1 1/2	6	0-8	4	3-10	4	#4	1-1	1-8	2-9	6	#4	1-0	0-10	1-10
18"	2 1/2"	7	2-9 1/2	4-6	4-7 3/8	4-9 1/2	6	0-10	4	4-5	4	#4	1-3	2-0	3-3	8	#4	1-0	1-0	2-0
24"	3"	7	3-4 1/2	5-9	5-11 1/4	6-1 3/8	6	1-0	4	5-9	4	#4	1-8	2-7	4-3	6	#4	1-4	1-7	2-11
30"	3 1/2"	7	3-11 1/2	6-9	7-0 1/8	7-2 1/4	6	1-3	4	6-9	4	#4	2-1	3-2	5-3	6	#4	1-7	2-2	3-9
36"	4"	7 1/2	4-6 1/2	7-10 1/2	8-2 1/2	8-4 5/8	6	1-5	4	8-1	4	#5	2-5	3-9	6-2	6	#4	2-0	2-9	4-9
42"	4 1/2"	7 1/2	5-1 1/2	8-10 1/2	9-3 1/4	9-5 3/8	6	1-8	4	9-2	4	#5	2-11	4-4	7-3	6	#5	2-3	3-4	5-7
48"	5"	7 1/2	5-8 1/2	10-0	10-5 5/8	10-7 3/4	6	1-10 1/2	4	10-5	4	#5	3-1	4-10	7-11	6	#5	2-8	3-10	6-6
54"	5 1/2"	8	6-3 1/2	11-0	11-6 3/8	11-8 1/2	6	2-1	4	11-5	4	#5	3-6	5-4	8-10	6	#5	3-0	4-4	7-4
60"	6"	8	6-10 1/2	12-3	12-10 1/4	13-0 3/8	6	2-3	4	12-10	4	#5	3-10	5-11	9-9	6	#5	3-3	4-11	8-2
66"	6 1/2"	8	7-7	13-9	14-5 1/4	14-7 5/8	6 1/2	2-6 1/2	4	14-3	4	#6	4-3	6-8	10-11	6	#5	3-8	5-8	9-4
72"	7"	8	8-2	14-9	15-5 7/8	15-8 3/8	7	2-9	4	15-4	4	#6	4-9	7-5	12-2	6	#6	4-2	6-5	10-7
84"	8"	8	9-4	16-9	17-7	17-9 7/8	8	3-2	4	17-7	2	#6	5-5	8-7	14-0	6	#6	5-2	7-7	12-9
96"	9"	8	10-5	19-3	20-3	20-5 7/8	8	3-6	4	20-3	4	#7	5-7	9-6	15-1	6	#7	5-7	8-6	14-1
108"	10"	8	11-7	21-4	22-5 1/4	22-8 1/2	9	4-0	4	22-5	6	#7	6-5	10-9	17-2	8	#7	6-5	9-9	16-2

PIPE SIZE INSIDE DIA.	W3 NO	W3 SIZE	W3 X	W3 X1	W3 LGTH	W4 NO	W4 SIZE	W4 X	W4 X1	W4 LGTH	W5 NO	W5 SIZE	W5 X	W5 X1	W5 LGTH
15"															
18"															
24"	2	#4	1-0	1-2	2-2										
30"	6	#4	1-1	1-5	2-6										
36"	8	#4	1-5	1-9	3-2										
42"	8	#4	1-7	2-4	3-11	4	#4	1-3	1-8	2-11					
48"	8	#4	2-0	2-10	4-10	4	#4	1-3	1-10	3-1					
54"	8	#4	2-3	3-4	5-7	8	#4	1-8	2-4	4-0					
60"	8	#5	2-6	3-11	6-5	6	#4	1-10	2-11	4-9	4	#4	1-4	1-11	3-3
66"	8	#5	3-2	4-8	7-10	6	#5	2-7	3-8	6-3	6	#4	1-10	2-8	4-6
72"	8	#5	3-6	5-5	8-11	6	#5	2-10	4-5	7-3	6	#4	2-0	3-5	5-5
84"	8	#6	4-6	6-7	11-1	6	#5	3-9	5-7	9-4	6	#5	3-2	4-7	7-9
96"	8	#6	5-0	7-6	12-6	6	#6	4-4	6-6	10-10	4	#5	3-8	5-6	9-2
108"	6	#7	5-10	8-9	14-7	6	#7	5-2	7-9	12-11	6	#6	4-6	6-9	11-3

PIPE SIZE INSIDE DIA.	W6 NO	W6 SIZE	W6 X	W6 X1	W6 LGTH	W7 NO	W7 SIZE	W7 X	W7 X1	W7 LGTH	W8 NO	W8 SIZE	W8 X	W8 X1	W8 LGTH
15"															
18"															
24"															
30"															
36"															
42"															
48"															
54"															
60"															
66"															
72"	2	#4	2-0	3-0	5-0										
84"	8	#5	2-6	3-7	6-1										
96"	6	#5	3-0	4-6	7-6	4	#5	2-2	3-10	6-0					
108"	6	#5	3-10	5-9	9-7	4	#5	3-2	4-9	7-11	2	#5	3-1	4-6	7-7

PIPE SIZE INSIDE DIA.	Y1 NO	Y1 LGTH	Y2 NO	Y2 LGTH	Y3 NO	Y3 LGTH	Y4 NO	Y4 LGTH	Y5 NO	Y5 LGTH	Y6 NO	Y6 LGTH	Y7 NO	Y7 LGTH	Y8 NO	Y8 LGTH
15"	2	2-8	2	5-0												
18"	2	2-8	2	5-8												
24"	2	2-8	2	7-0												
30"	2	2-8	2	6-3	2	8-1										
36"	2	2-8	2	5-9	2	9-3										
42"	2	2-8	2	5-9	2	9-9	2	10-4								
48"	2	2-8	2	5-9	2	9-9	4	11-7								
54"	2	2-8	2	5-9	2	9-9	4	12-7								
60"	2	2-8	2	5-9	2	9-9	2	12-9	4	14-1						
66"	2	2-9	2	5-9	2	9-9	2	12-9	6	15-8						
72"	2	2-9	2	5-9	2	9-9	2	12-9	2	15-9	4	16-8				
84"	2	2-9	2	6-0	2	9-1	2	12-5	2	15-7	6	18-5				
96"	2	2-6	2	5-6	2	9-6	2	12-6	2	15-0	2	18-9	6	21-2		
108"	2	3-0	2	6-0	2	9-0	2	12-0	2	15-9	2	19-6	2	22-0	8	23-4

DIMENSIONS AND REINFORCING FOR FLARED HEADWALL FOR SINGLE LINE PIPE CULVERT

PIPE SIZE INSIDE DIA.	A	B	E	G	X	Y	Z	A NO	A LGTH	B NO	B LGTH	C NO	C LGTH	D NO	D LGTH	PAY QUANTITY ONE HEADWALL C.Y. CONCRETE	POUNDS STEEL	PIPE SIZE INSIDE DIA.
15"				3-3 3/4	5-0 7/8	2-3		4	6-8	4	5-6	2	2-8	2	1-10	.83	88	15"
18"				3-6 3/4	5-9 1/4	2-6		4	7-3	5	6-2	2	3-0	2	2-0	1.04	105	18"
24"				4-1 3/4	7-3 1/4	3-1		4	8-5	5	7-5	2	3-7	2	2-3	1.52	131	24"
30"				4-9 1/4	8-7 1/2	3-8 1/2		4	9-8	6	8-5	2	4-2	2	2-6	2.03	180	30"
36"				5-3 3/4	9-11 3/4	4-3		4	10-9	7	9-6	2	4-9	2	2-9	2.62	236	36"
42"				5-10 3/4	11-3 1/2	4-10		4	11-11	7	10-6	2	5-4	2	3-0	3.26	295	42"
48"				6-5 3/4	12-8 1/4	5-5		4	13-1	8	11-8	2	5-11	2	3-3	4.02	375	48"
54"				7-1 3/4	14-1 1/8	6-1		4	14-4	8	12-8	2	6-6	2	3-6	4.81	430	54"
60"				7-8 3/4	15-7	6-8		4	15-6	9	13-11	2	7-1	2	3-9	5.78	530	60"
66"				8-4 7/8	17-3 1/8	7-3		4	16-11	9	15-5	2	7-10	2	4-3	7.63	662	66"
72"				9-0 7/8	18-6 7/8	7-10		4	18-2	10	16-5	2	8-6	2	4-7	9.41	778	72"
84"	3-6	15-9	2-0	10-5	21-2 3/8	9-0		4	20-8	11	18-5	2	9-8	2	5-3	13.06	1009	84"
96"	4-0	18-0	2-0	11-7	24-2 1/8	10-2		4	22-11	12	20-11	2	10-9	2	5-9	16.67	1377	96"
108"	4-6	20-3	2-0	12-11 1/8	26-10 3/8	11-4		4	25-5	14	23-0	2	12-0	2	6-4	22.75	1940	108"

PIPE SIZE INSIDE DIA.	J1 NO	J1 LGTH	J2 NO	J2 LGTH	J3 NO	J3 LGTH	J4 NO	J4 LGTH	J5 NO	J5 LGTH	J6 NO	J6 LGTH	J7 NO	J7 LGTH	J8 NO	J8 LGTH	J9 NO	J9 LGTH	J10 NO	J10 LGTH	J11 NO	J11 LGTH	J12 NO	J12 LGTH
15"	1	3-2	1	3-10	1	4-7	1	5-4	1	5-5														
18"	1	3-5	1	4-2	1	4-10	1	5-7	1	6-2														
24"	1	3-11	1	4-8	1	5-4	1	6-1	1	6-10	1	7-7												
30"	1	4-9	1	5-5	1	6-2	1	6-10	1	7-7	1	8-3	1	9-0										
36"	1	5-2	1	5-11	1	6-8	1	7-4	1	8-1	1	8-10	1	9-6	1	10-3	1	10-4						
42"	1	5-9	1	6-6	1	7-2	1	7-11	1	8-8	1	9-4	1	10-1	1	10-10	1	11-7	1	11-8				
48"	1	6-4	1	7-0	1	7-9	1	8-6	1	9-3	1	9-11	1	10-8	1	11-5	1	12-2	1	12-10	1	13-0		
54"	1	7-0	1	7-8	1	8-5	1	9-2	1	9-11	1	10-7	1	11-4	1	12-1	1	12-10	1	13-6	1	14-3	1	14-5
60"	1	7-6	1	8-3	1	9-0	1	9-9	1	10-6	1	11-2	1	11-11	1	12-8	1	13-5	1	14-2	1	14-10	1	15-7
66"	1	8-3	1	8-11	1	9-8	1	10-4	1	11-1	1	11-10	1	12-7	1	13-4	1	14-1	1	14-9	1	15-6	1	16-3
72"	1	8-9	1	9-6	1	10-3	1	11-0	1	11-9	1	12-6	1	13-3	1	13-11	1	14-8	1	15-5	1	16-2	1	16-11
84"	1	10-2	1	10-10	1	11-7	1	12-4	1	13-0	1	13-9	1	14-5	1	15-2	1	15-11	1	16-7	1	17-4	1	18-1
96"	1	11-7	1	12-4	1	13-1	1	13-9	1	14-6	1	15-3	1	16-0	1	16-8	1	17-5	1	18-2	1	18-10	1	19-7
108"	1	12-11	1	13-8	1	14-4	1	15-1	1	15-10	1	16-7	1	17-3	1	18-0	1	18-9	1	19-5	1	20-2	1	20-11

PIPE SIZE INSIDE DIA.	J13 NO	J13 LGTH	J14 NO	J14 LGTH	J15 NO	J15 LGTH	J16 NO	J16 LGTH	J17 NO	J17 LGTH	J18 NO	J18 LGTH	J19 NO	J19 LGTH	J20 NO	J20 LGTH	J21 NO	J21 LGTH	J22 NO	J22 LGTH	J23 NO	J23 LGTH	J24 NO	J24 LGTH
15"																								
18"																								
24"																								
30"																								
36"																								
42"																								
48"																								
54"																								
60"	1	16-0																						
66"	1	16-11	1	17-8																				
72"	1	17-7	1	18-4	1	19-1																		
84"	1	18-10	1	19-7	1	20-4	1	21-0	1	21-9														
96"	1	20-4	1	21-1	1	21-10	1	22-6	1	23-3	1	24-0	1	24-8	1	25-2								
108"	1	21-8	1	22-4	1	23-1	1	23-10	1	24-7	1	25-3	1	26-0	1	26-9	1	27-5	1	28-0				

DIMENSIONS AND REINFORCING FOR FLARED HEADWALL FOR DOUBLE LINE PIPE CULVERT

PIPE SIZE INSIDE DIA.	A	B	E	G	X	Y	Z	A NO	A LGTH	B NO	B LGTH	C NO	C LGTH	D NO	D LGTH	PAY QUANTITY ONE HEADWALL C.Y. CONCRETE	POUNDS STEEL	PIPE SIZE INSIDE DIA.
15"				5-10 3/4	7-7 7/8	4-10	1-0	4	9-3	7	5-6	3	2-8	4	1-10	1.15	119	15"
18"				6-4 3/4	8-7 1/4	5-4	1-0	4	10-1	8	6-2	3	3-0	4	2-0	1.43	139	18"
24"				7-6 3/4	10-8 1/4	6-6	1-0	4	11-10	9	7-5	3	3-7	4	2-3	2.05	179	24"
30"				9-0 3/4	12-11	8-0	1-3	4	13-11	10	8-5	4	4-2	4	2-6	2.77	243	30"
36"				10-4 3/4	15-0 3/4	9-4	1-6	4	15-10	12	9-6	4	4-9	4	2-9	3.60	322	36"
42"				11-9 3/4	17-2 1/2	10-9	1-9	4	17-10	13	10-6	4	5-4	4	3-0	4.51	403	42"
48"				13-2 3/4	19-5 1/4	12-2	2-0	4	19-10	15	11-8	4	5-11	4	3-3	5.58	509	48"
54"				14-9 3/4	21-9 1/8	13-9	2-3	4	22-0	16	12-8	5	6-6	4	3-6	6.70	597	54"
60"				16-2 3/4	24-1	15-2	2-6	4	24-0	17	13-11	5	7-1	4	3-9	8.06	718	60"
66"				17-8 7/8	26-7 1/8	16-7	2-9	4	26-3	18	15-5	5	7-10	4	4-3	10.72	889	66"
72"				19-2 7/8	28-8 7/8	18-0	3-0	4	28-4	20	16-5	5	8-6	4	4-7	13.34	1040	72"
84"	3-0	27-7	13-10	22-3	33-0 3/8	20-10	3-6	4	33-6	23	18-5	6	9-8	4	5-3	18.19	1361	84"
96"	3-0	31-6	15-6	25-1	37-8 1/8	23-8	4-0	4	37-5	26	20-11	7	10-9	4	5-9	24.00	1844	96"
108"	3-0	35-5	17-2	28-1 1/8	42-0 3/8	26-6	4-6	4	41-7	29	23-0	7	12-0	4	6-4	32.44	2498	108"

PIPE SIZE INSIDE DIA.	J1 NO	J1 LGTH	J2 NO	J2 LGTH	J3 NO	J3 LGTH	J4 NO	J4 LGTH	J5 NO	J5 LGTH	J6 NO	J6 LGTH	J7 NO	J7 LGTH	J8 NO	J8 LGTH	J9 NO	J9 LGTH	J10 NO	J10 LGTH	J11 NO	J11 LGTH	J12 NO	J12 LGTH
15"	1	5-9	1	6-5	1	7-2	1	7-11	1	8-0														
18"	1	6-3	1	7-0	1	7-8	1	8-5	1	9-0														
24"	1	7-4	1	8-1	1	8-9	1	9-6	1	10-3	1	11-0												
30"	1	9-0	1	9-8	1	10-5	1	11-1	1	11-10	1	12-6	1	13-3										
36"	1	10-3	1	11-0	1	11-9	1	12-5	1	13-2	1	13-11	1	14-7	1	15-4	1	15-5						
42"	1	11-8	1	12-5	1	13-1	1	13-10	1	14-7	1	15-3	1	16-0	1	16-9	1	17-6	1	17-7				
48"	1	13-1	1	13-9	1	14-6	1	15-3	1	16-0	1	16-8	1	17-5	1	18-2	1	18-11	1	19-7	1	19-9		
54"	1	14-8	1	15-4	1	16-1	1	16-10	1	17-7	1	18-3	1	19-0	1	19-9	1	20-6	1	21-2	1	21-11	1	22-1
60"	1	16-0	1	16-9	1	17-6	1	18-3	1	19-0	1	19-8	1	20-5	1	21-2	1	21-11	1	22-8	1	23-4	1	24-1
66"	1	17-7	1	18-3	1	19-0	1	19-8	1	20-5	1	21-2	1	21-11	1	22-8	1	23-5	1	24-2	1	24-10	1	25-7
72"	1	18-11	1	19-8	1	20-5	1	21-2	1	21-11	1	22-8	1	23-5	1	24-1	1	24-10	1	25-7	1	26-4	1	27-1
84"	1	22-0	1	22-8	1	23-5	1	24-2	1	24-10	1	25-7	1	26-3	1	27-0	1	27-9	1	28-5	1	29-2	1	29-11
96"	1	25-1	1	25-10	1	26-6	1	27-3	1	28-0	1	28-9	1	29-5	1	31-2	1	31-11	1	32-7	1	33-4	1	34-1
108"	1	28-1	1	28-10	1	29-6	1	31-3	1	32-0	1	32-9	1	33-5	1	34-2	1	34-11	1	35-7	1	36-4	1	37-1

PIPE SIZE INSIDE DIA.	J13 NO	J13 LGTH	J14 NO	J14 LGTH	J15 NO	J15 LGTH	J16 NO	J16 LGTH	J17 NO	J17 LGTH	J18 NO	J18 LGTH	J19 NO	J19 LGTH	J20 NO	J20 LGTH	J21 NO	J21 LGTH	J22 NO	J22 LGTH	J23 NO	J23 LGTH	J24 NO	J24 LGTH
15"																								
18"																								
24"																								
30"																								
36"																								
42"																								
48"																								
54"																								
60"	1	24-6																						
66"	1	26-3	1	27-0																				
72"	1	27-9	1	28-6	1	29-3																		
84"	1	31-8	1	32-5	1	33-2	1	33-10	1	34-7														
96"	1	34-10	1	35-6	1	36-3	1	37-0	1	37-9	1	38-5	1	39-2	1	39-10								
108"	1	37-10	1	38-6	1	39-3	1	40-0	1	40-9	1	41-5	1	42-2	1	42-10	1	43-8	1	44-2				

DIMENSIONS AND REINFORCING FOR FLARED HEADWALL FOR TRIPLE LINE PIPE CULVERT

PIPE SIZE INSIDE DIA.	A	B	E	G	X	Y	Z	A NO	A LGTH	B NO	B LGTH	C NO	C LGTH	D NO	D LGTH	PAY QUANTITY ONE HEADWALL C.Y. CONCRETE	POUNDS STEEL	PIPE SIZE INSIDE DIA.
15"				8-5 3/4	10-2 7/8	7-5	1-0	4	11-10	10	5-6	4	2-8	6	1-10	1.47	150	15"
18"				9-2 3/4	11-5 1/4	8-2	1-0	4	12-11	11	6-2	4	3-0	6	2-0	1.82	173	18"
24"				10-11 3/4	14-1 1/4	9-11	1-0	4	15-3	13	7-5	4	3-7	6	2-3	2.58	227	24"
30"				13-4 1/4	17-2 1/2	12-3 1/2	1-3	4	18-3	14	8-5	6	4-2	6	2-6	3.51	305	30"
36"				15-5 3/4	20-1 3/4	14-5	1-6	4	20-11	17	9-6	6	4-9	6	2-9	4.58	408	36"
42"				17-8 3/4	23-1 1/2	16-8	1-9	4	23-9	19	10-6	6	5-4	6	3-0	5.76	512	42"
48"				19-11 3/4	26-2 1/4	18-11	2-0	4	26-7	22	11-8	6	5-11	6	3-3	7.14	644	48"
54"				22-5 3/4	29-5 1/8	21-5	2-3	4	29-8	24	12-8	8	6-6	6	3-6	8.59	765	54"
60"				24-8 3/4	32-7	23-8	2-6	4	33-6	25	13-11	8	7-1	6	3-9	10.34	917	60"
66"				27-0 7/8	35-11 1/8	25-11	2-9	4	36-7	27	15-5	8	7-10	6	4-3	13.81	1124	66"
72"				29-4 7/8	38-10 7/8	28-2	3-0	4	39-6	30	16-5	8	8-6	6	4-7	17.27	1313	72"
84"	3-0	39-5	25-8	34-1	44-10 3/8	32-8	3-6	4	45-4	35	18-5	10	9-8	6	5-3	23.32	1716	84"
96"	3-0	45-0	29-0	38-7	51-2 1/8	37-2	4-0	4	50-11	39	20-11	12	10-9	6	5-9	31:39	2290	96"
108"	3-0	50-7	22-4	43-3 1/8	57-2 3/8	41-8	4-6	4	56-9	44	23-0	12	12-0	6	6-4	42.21	3043	108"

PIPE SIZE INSIDE DIA.	J1 NO	J1 LGTH	J2 NO	J2 LGTH	J3 NO	J3 LGTH	J4 NO	J4 LGTH	J5 NO	J5 LGTH	J6 NO	J6 LGTH	J7 NO	J7 LGTH	J8 NO	J8 LGTH	J9 NO	J9 LGTH	J10 NO	J10 LGTH	J11 NO	J11 LGTH	J12 NO	J12 LGTH
15"	1	8-4	1	9-0	1	9-9	1	10-6	1	10-7														
18"	1	9-1	1	9-10	1	10-6	1	11-3	1	11-10														
24"	1	10-9	1	11-6	1	12-2	1	12-11	1	13-8	1	14-5												
30"	1	13-3	1	13-11	1	14-8	1	15-4	1	16-1	1	16-9	1	17-6										
36"	1	15-4	1	16-1	1	16-10	1	17-6	1	18-3	1	19-0	1	19-8	1	20-5	1	20-6						
42"	1	17-7	1	18-4	1	19-0	1	19-9	1	20-6	1	21-2	1	21-11	1	22-8	1	23-5	1	23-6				
48"	1	19-10	1	20-6	1	21-3	1	22-0	1	22-9	1	23-5	1	24-2	1	24-11	1	25-8	1	26-4	1	26-6		
54"	1	22-4	1	23-0	1	23-9	1	24-6	1	25-3	1	25-11	1	26-8	1	27-5	1	28-2	1	28-10	1	29-7	1	29-9
60"	1	24-6	1	25-3	1	26-0	1	26-9	1	27-6	1	28-2	1	28-11	1	29-8	1	31-5	1	32-2	1	32-10	1	33-7
66"	1	26-11	1	27-7	1	28-4	1	29-0	1	29-9	1	31-6	1	32-3	1	33-0	1	33-9	1	34-6	1	35-2	1	35-11
72"	1	29-1	1	29-10	1	31-7	1	32-4	1	33-1	1	33-10	1	34-7	1	35-3	1	36-0	1	36-9	1	37-6	1	38-3
84"	1	34-10	1	35-6	1	36-3	1	37-0	1	37-8	1	38-5	1	39-1	1	39-10	1	40-7	1	41-3	1	42-0	1	42-9
96"	1	39-7	1	40-4	1	41-0	1	41-9	1	42-6	1	43-3	1	43-11	1	44-8	1	45-5	1	46-2	1	46-10	1	47-7
108"	1	44-3	1	45-0	1	45-8	1	46-5	1	47-2	1	47-10	1	48-7	1	49-4	1	50-1	1	50-10	1	51-6	1	52-3

PIPE SIZE INSIDE DIA.	J13 NO	J13 LGTH	J14 NO	J14 LGTH	J15 NO	J15 LGTH	J16 NO	J16 LGTH	J17 NO	J17 LGTH	J18 NO	J18 LGTH	J19 NO	J19 LGTH	J20 NO	J20 LGTH	J21 NO	J21 LGTH	J22 NO	J22 LGTH	J23 NO	J23 LGTH	J24 NO	J24 LGTH
15"																								
18"																								
24"																								
30"																								
36"																								
42"																								
48"																								
54"																								
60"	1	34-0																						
66"	1	36-7	1	37-4																				
72"	1	38-11	1	39-8	1	40-5																		
84"	1	43-6	1	44-3	1	45-0	1	45-8	1	46-5														
96"	1	48-4	1	49-0	1	49-9	1	50-6	1	51-3	1	51-11	1	52-8	1	53-1								
108"	1	53-0	1	53-9	1	54-5	1	55-2	1	55-10	1	56-7	1	57-4	1	58-1	1	58-10	1	59-4				

HEADWALL 3:1 SLOPE 0−15 DEGREE SKEW STANDARD DETAIL

N.T.S.

NOTES:

1. ALL CONCRETE SHALL BE CLASS "B"
2. ALL EXPOSED EDGES SHALL BE CHAMFERED 3/4"
3. EXPOSED CONCRETE SURFACES SHALL BE FINISHED IN ACCORDANCE WITH THE APPLICABLE SECTION OF THE SPECIFICATIONS.
4. ALL LENGTHS AND QUANTITIES IN THE TABLES HEREON ARE BASED ON CONCRETE PIPE.
5. QUANTITIES SHOWN SHALL BE THE BASIS FOR FINAL PAYMENT UNLESS AUTHORIZED MODIFICATIONS ARE MADE.
6. THIS DRAWING IS NOT DRAWN TO SCALE.

REVISED
DRAWN BY db3
CHECKED drb
DATE 05/05/25

SHEET TITLE
CONSTRUCTION DETAILS

PROJECT NAME
BELLEVIEW SUBDIVISION

14397 Creosote Road
Gulfport, Mississippi 39503
(228) 297-1647

ENGINEERING SERVICES, LLC

SHEET 43 OF 43
PROJECT NO. fountainbleu.dwg

STORMWATER POLLUTION PREVENTION PLAN

FOR

FOUNTAINBLEU SUBDIVISION

JACKSON COUNTY, MISSISSIPPI

OWNER:
ELLIOTT HOMES, LLC.
1402 PASS ROAD
GULFPORT, MS 39501

ENGINEER:
DANIEL R. BOUDREAUX JR., P. E., INC.
17381 S. CARR BRIDGE ROAD
BILOXI, MS 39532

FEBRUARY 21, 2024

TABLE OF CONTENTS

NARRATIVE OF PROJECT

This project is a 276-lot residential subdivision on a 105 acre parcel of land, which lies in the Section 35, Township 7 South, Range 8 West, Jackson County, Mississippi.

Best management practices will be used throughout construction to prevent sediment from leaving the site. Construction storm water will be also be treated by an existing detention pond.

Sanitary sewer and potable water services and treatment will be provided by Great River Utilities. All utilities will be installed in accordance with all governing State and Local regulatory agencies.

EROSION AND SEDIMENT CONTROLS

Note: Reference drawings titled Fountainbleu Subdivision for SWPPP drawings including BMP details, locations, etc.

All of the runoff from the disturbed areas of the site flows to immons Bayou. Storm water pollution prevention practices and devices will be used to prevent sediment from leaving the site as follows:

Disturb the smallest possible area.

Preserve existing trees.

Avoid if possible, disturbing sensitive areas such as:

- Steep and/or unstable slopes
- Land upslope of surface waters
- Areas with soils susceptible to erosion
- Existing drainage channels

Divert upslope water around disturbed areas.

Limit exposure of disturbed areas to the shortest time possible.

Re-vegetate disturbed areas as soon as possible.

Soil stabilization - vegetative stabilization measures must be initiated whenever any clearing, grading, grubbing, excavating or other land disturbing activities have temporarily or permanently ceased on any portion of the site and will not resume for a period of fourteen (14) calendar days or more. The appropriate temporary or permanent vegetative practices shall be initiated immediately. For purposes of this permit "immediately" is interpreted to mean no later than the next work day.

If you are unable to meet the deadlines in the previous paragraph due to circumstances beyond your control, and you are using vegetative cover for temporary or permanent stabilization, you may comply with the following stabilization deadlines instead:

(A) Immediately initiate, and within 14 calendar days complete, the installation of temporary non-vegetative stabilization measures to prevent erosion:

(B) Complete all soil conditioning, seeding, watering or irrigation installation, mulching, and other required activities related to the planting and initial

establishment of vegetation as soon as conditions or circumstances allow it on your site; and,

(C) Document the circumstances that prevent you from meeting the deadlines required and the schedule you will follow for initiating and completing stabilization.

Slow rainfall runoff velocities to prevent erosive flows.

Remove sediment from storm water before it leaves the site by allowing runoff to pond in controlled areas to drop out sediment. Filter runoff by using natural vegetation, brush barriers, silt fences, or straw bales.

Transport runoff down steep slopes through lined channels or tubing.

A Construction Entrance/Exit will be built in the location(s) shown on the attached drawings. Install in accordance with the Best Management Practice Standards.

Silt Fencing will be installed along the wetland areas in the locations shown on the attached drawing. Install in accordance with the Best Management Practice Standards.

The entire area will be roughened, seeded, and mulched in accordance with the Best Management Practice Standards.

INSPECTION REQUIREMENTS: Inspection of all receiving streams (if feasible), outfalls, erosion and sediment controls and other SWPPP requirements shall be performed during permit coverage using a copy of the form provided in the Large Construction Forms Package, and inspections shall be performed by qualified personnel:

(1) At least weekly for a minimum of four inspections per month; and

(2) After rainfall events that produce a discharge.

Before conducting the site inspection, the inspector should review Chapter 4, Inspector's Checklist and Troubleshooting Chart found in MDEQ's Field Manual for Erosion and Sediment Control on Construction Sites in Mississippi. MDEQ strongly recommends that coverage recipients perform a "walk through" inspection of the construction site before anticipated storm events to ensure controls are in place and will function properly.

The owner or Contractor who has daily control of on-site work shall provide a copy of this SWPPP and training to those employees and subcontractors involved in any activity that may be covered by this plan.

The SWPPP shall be followed until Final Stabilization. Final Stabilization shall mean that all soil disturbing activities at the site have been completed, and that a uniform perennial vegetative cover with a density of at least 70% for the area has been established or equivalent measures have been employed.

The Registration Form for Residential Lot Coverage will be given to buyers of individual lots at the time of purchase. In addition, the attached Requirements for Individual Lots in Residential Subdivisions, the Site Inspection and Certification Form and the Large Construction Storm Water General Permit shall also be given to buyers of individual lots at the time of purchase. These forms will provide notification to buyers of lots in residential developments, that being part of a "larger common plan of development or sale," coverage is required under Mississippi's Large Construction Storm Water General Permit.

IMPLEMENTATION SEQUENCE

1 Build Construction Entrance/Exit prior to any land disturbance activity.

2 Install Silt Fencing prior to any land disturbance activity.

3 Install storm drain system including culverts and swales.

4 Install Swale Protection and Level Spreaders.

5 Excavate roads and grade.

6 Establish Permanent Vegetation for all disturbed areas.

HOUSEKEEPING PRACTICES

All equipment maintenance and repairs will be performed off-site.

Concrete truck wash out will be performed in an excavated pit to prevent sediment form traveling into ditches and wetlands. This pit will be constructed in an upland area and all surface water will be diverted such that no runoff will flow through this area.

Portable toilet facilities will be provided for all workers during construction.

Trash and debris will be collected and properly disposed of on a daily basis.

Maintain well-organized work areas.

Petroleum products, solvents, or other potentially toxic materials will be stored according to manufacturers recommendations.

Construction entrances/exits shall be installed wherever traffic will be leaving a construction site and moving directly onto a paved public road. Restrict vehicle to properly designed exit points. Use appropriate stabilization techniques at all points that exit onto paved roads. Implement additional track-out controls as necessary to ensure that sediment removal occurs prior to vehicle exit. Where sediment has been tracked-out from the site onto paved roads, sidewalks, or other paved areas outside the site, remove deposited sediment “immediately” by the end of the next work day. Remove the track-out by sweeping, shoveling, or vacuuming these surfaces, or by similarly effective means of sediment removal. Hosing or sweeping track-out sediment into any stormwater conveyance, storm drain inlet, of Waters of the State is prohibited.

MAINTENANCE PLAN

All storm water and erosion control devices shall be inspected at least once per week (minimum four (4) inspections per month) and after rain events that produce a discharge. Make needed repairs within 24 hours. Remove sediment from silt fences when accumulation is 1/3 to 1/2 the fence height. Remove sediment from basins when sediment is 1/3 to 1/2 the height of the control and 50% capacity of the sediment basin or pond volume. Replace non-functional silt fencing. Maintain all vegetated areas to provide proper ground cover. Reseed, fertilize, and mulch as needed.

STAFF TRAINING REQUIREMENTS

Each operator, or group of multiple operators, must assemble a "stormwater team" to carry out compliance activities associated with the requirements in this permit. Prior to the commencement of construction activities, the permittee must ensure that the following personnel on the stormwater team understand the requirements of this permit and their specific responsibilities with respect to those requirements:

(1) Personnel who are responsible for the design, installation, maintenance, and/or repair of stormwater controls (including pollution prevention controls);

(2) Personnel responsible for the application and storage of treatment chemicals (if applicable)

(3) Personnel who are responsible for conducting inspections as required in ACT6, S-5; and

(4) Personnel who are responsible for taking corrective actions as required in ACT6, S-2.

The permittee is responsible for ensuring that all activities on the site comply with the requirements of this permit. The permittee is not required to provide or document formal training for subcontractors or other outside service providers, but the permittee must ensure that such personnel understand any requirements of this permit that may be affected by the work they are subcontracted to perform.

At a minimum, members of the stormwater team must be trained to understand the following if related to the scope of their job duties (e.g., only personnel responsible for conducting inspections need to understand how to conduct inspections): The permit deadlines associated with installation, maintenance, and removal of stormwater controls and with stabilization;

The location of all stormwater controls on the site required by this permit and how they are to be maintained; The proper procedures to follow with respect to the permit's pollution prevention requirements; and When and how to conduct inspections, record applicable findings, and take corrective actions.

Each member of the stormwater team must have easy access to an electronic or paper copy of applicable portions of this permit, the most updated copy of the SWPPP, and other relevant documents or information that must be kept with the SWPPP.

All records, reports, forms and information resulting from activities required by this permit shall be retained for a period of at least three (3) years from the date that the document(s) was generated. Any documents required by this permit may be kept electronically but must be readily available during site inspection or upon request.

SITE CONTROL UPON SALES OF LOTS

Developer shall be responsible for the implementation of the stormwater pollution prevention plan during the construction of the subdivision infrastructure including utility, drainage, roads, etc.

Upon sales of lots, the responsibility for the lot and any and all construction activities on the lot shall become the lot owner/home builder. The responsibility shall be transferred by the use of the MDEQ's Registration Form for Residential Lot Coverage.

Post Detention Requirements
Fountainbleu Subd.

11/26/24
Pg. 1 of 1

Impervious Area:

Homes: $(245)(1800\ sq\ ft) = 441,000$
Driveways: $(245)(16\ ft)(35\ ft) = 137,200$
Sidewalks: $(10,637\ ft)(4) = 42,548$
Roads: $(11,108\ ft)(27) = 299,916$

Total = $920,664\ ft^2$

Post Detention:

Req. => $920,664\ ft^2\left(\frac{1}{2}\ in\right)\left(\frac{1\ ft}{12\ in}\right) = 38,361\ ft^3$

Provided => Detention Pond A: $199,346\ ft^3$
Detention Pond B: $140,191\ ft^3$

Total = $339,537\ ft^3$

DANIEL RAY BOURGEOIS JR.
LICENSED PROFESSIONAL ENGINEER
12558
STATE OF MISSISSIPPI

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

GAUTIER NORTH QUADRANGLE
MISSISSIPPI–JACKSON CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

88° 45′ — 42′ 30″ — 40′ — 88° 37′ 30″ — 30° 30′ — 27′ 30″ — 25′ — 30° 22′ 30″

530000 | FEET — 560000 | FEET

3375000mN — 300000 FEET

MISSISSIPPI SANDHILL CRANE NATIONAL WILDLIFE REFUGE

PROJECT LOCATION

260000 FEET

PRODUCED BY THE UNITED STATES GEOLOGICAL SURVEY
CONTROL BY ..... USGS AND NOS/NOAA
COMPILED FROM AERIAL PHOTOGRAPHS TAKEN 1975-76
FIELD CHECKED ..... 1979. MAP EDITED 1982
PROJECTION ..... TRANSVERSE MERCATOR
GRID: 1000-METER UNIVERSAL TRANSVERSE MERCATOR ..... ZONE 16
10,000-FOOT STATE GRID TICKS ..... MISSISSIPPI, EAST ZONE
UTM GRID DECLINATION ..... 0°51′ WEST
1982 MAGNETIC NORTH DECLINATION ..... 2°30′ EAST
VERTICAL DATUM ..... NATIONAL GEODETIC VERTICAL DATUM OF 1929
HORIZONTAL DATUM ..... 1927 NORTH AMERICAN DATUM

To place on the predicted North American Datum of 1983 move the projection lines as shown by dashed corner ticks (18 meters south and 3 meters east)

There may be private inholdings within the boundaries of any Federal and State reservations shown on this map

NORTH

PROVISIONAL MAP
Produced from original manuscript drawings. Information shown as of date of field check.
3

SCALE 1:24 000

1 .5 0 1 MILES
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10 000 FEET
1 .5 0 1 2 KILOMETERS
1000 0 1000 2000 METERS

CONTOUR INTERVAL 5 FEET

To convert feet to meters multiply by .3048
To convert meters to feet multiply by 3.2808

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, RESTON, VIRGINIA 22092

MISS.
QUADRANGLE LOCATION

1	2	3
4		5
6	7	8

1 Latimer
2 Vancleave
3 Three Rivers
4 Ocean Springs
5 Pascagoula North
6 Deer Island
7 Gautier South
8 Pascagoula South

ADJOINING 7.5′ QUADRANGLE NAMES

INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—1983

ROAD LEGEND

Improved Road .....
Unimproved Road .....
Trail .....
Interstate Route U. S. Route State Route

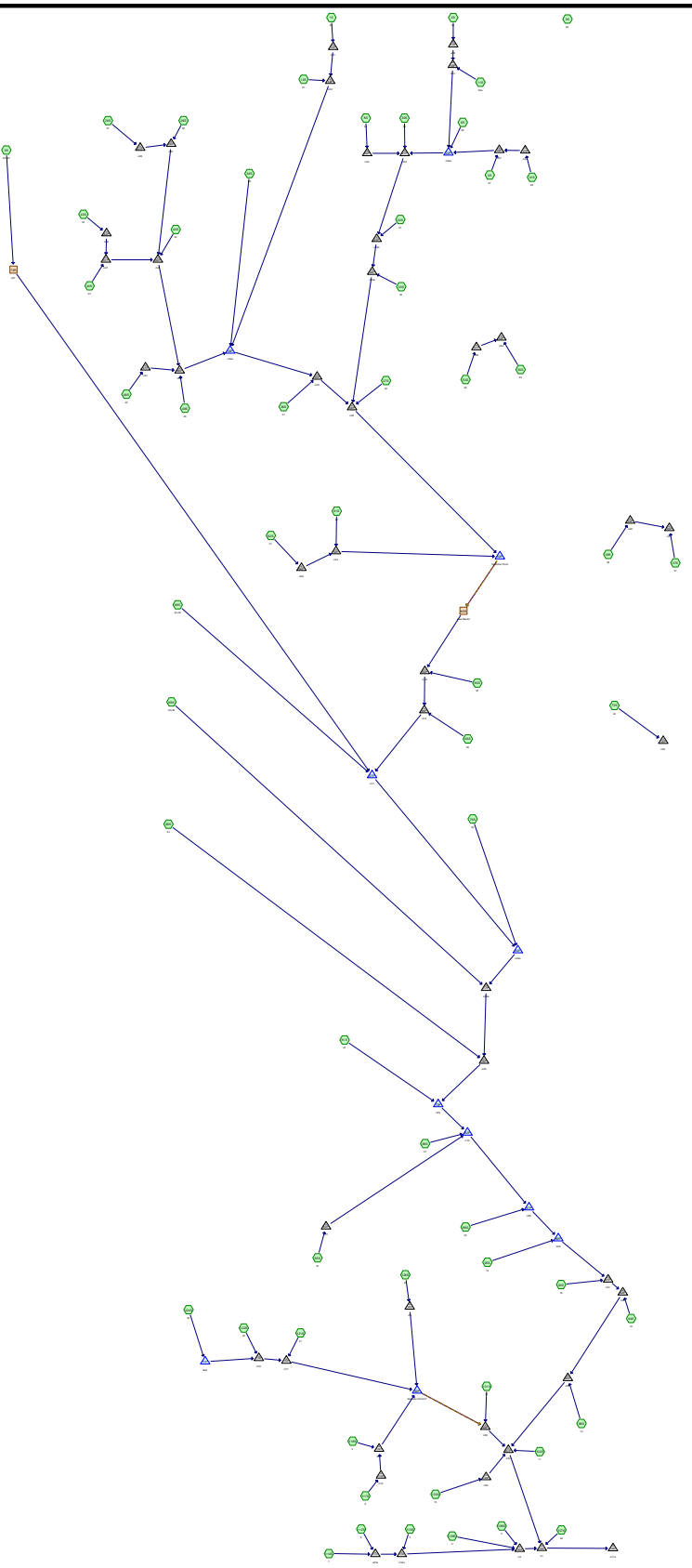
GAUTIER NORTH, MISSISSIPPI

PROVISIONAL EDITION 1982

30088-D6-TF-024

ISBN 0-607-00632-3

20% TOTAL RECOVERED FIBER



Subcat Reach Pond Link

Routing Diagram for Fountainbleu South new
Prepared by Daniel R Boudreaux, Jr PE, Inc, Printed 11/29/2024

Rainfall Events Listing (selected events)

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	2-yr	MS Gulf Coast	2-yr	Default	24.00	1	5.80	2

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
63.205	83	1/4 acre lots, 38% imp, HSG C (1S, 2S, 3S, 5S, 8S, 9S, 10S, 11S, 28S, 29S, 30S, 31S, 32S, 33S, 36S, 37S, 43S, 44S, 45S, 48S, 49S, 53S, 54S, 57S, 58S, 61S, 62S, 65S, 66S, 69S, 75S, 80S, 81S, 85S, 86S, 88S, 90S, 93S, 94S, 96S, 101S, 102S, 103S, 107S, 108S, 109S, 112S, 113S, 114S, 117S, 118S, 121S, 122S, 124S, 126S)
3.156	73	Woods, Fair, HSG C (6S)
9.955	70	Woods, Good, HSG C (39S, 68S, 76S)
76.316	**81**	**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)	Node Name
1	72R	16.00	15.90	40.0	0.0025	0.012	0.0	18.0	0.0	
2	85R	14.52	14.43	171.0	0.0005	0.012	58.5	36.0	0.0	
3	12P	15.89	15.82	27.0	0.0026	0.012	0.0	15.0	0.0	
4	14P	15.82	15.50	128.0	0.0025	0.012	0.0	15.0	0.0	
5	15P	15.87	15.80	27.0	0.0026	0.012	0.0	15.0	0.0	
6	16P	15.80	15.50	119.0	0.0025	0.012	0.0	15.0	0.0	
7	17P	15.33	15.26	27.0	0.0026	0.012	0.0	15.0	0.0	
8	18P	15.26	14.88	153.0	0.0025	0.012	0.0	24.0	0.0	
9	20P	15.15	15.03	172.0	0.0007	0.012	0.0	30.0	0.0	
10	21P	15.03	14.76	221.0	0.0012	0.012	0.0	30.0	0.0	
11	22P	14.87	14.76	221.0	0.0005	0.012	0.0	15.0	0.0	
12	23P	14.76	14.71	68.0	0.0007	0.012	0.0	30.0	0.0	
13	24P	14.71	14.69	27.0	0.0007	0.012	0.0	30.0	0.0	
14	26P	15.46	15.13	326.0	0.0010	0.012	0.0	24.0	0.0	
15	27P	15.49	15.46	27.0	0.0011	0.012	0.0	15.0	0.0	
16	34P	14.69	14.60	127.0	0.0007	0.012	58.5	36.0	0.0	
17	35P	14.72	14.69	33.0	0.0009	0.012	0.0	30.0	0.0	
18	38P	14.95	14.72	231.0	0.0010	0.012	0.0	30.0	0.0	
19	40P	15.13	14.96	171.0	0.0010	0.012	0.0	24.0	0.0	
20	41P	15.25	15.13	46.0	0.0026	0.012	0.0	15.0	0.0	
21	42P	15.32	15.25	27.0	0.0026	0.012	0.0	15.0	0.0	
22	46P	14.96	14.95	127.0	0.0001	0.012	0.0	30.0	0.0	
23	47P	15.03	14.96	28.0	0.0025	0.012	0.0	15.0	0.0	
24	51P	15.07	14.75	128.0	0.0025	0.012	0.0	18.0	0.0	
25	52P	15.14	15.07	27.0	0.0026	0.012	0.0	15.0	0.0	
26	55P	15.07	14.75	129.0	0.0025	0.012	0.0	18.0	0.0	
27	56P	15.14	15.07	27.0	0.0026	0.012	0.0	15.0	0.0	
28	59P	14.98	14.62	143.0	0.0025	0.012	0.0	18.0	0.0	
29	60P	15.05	14.98	28.0	0.0025	0.012	0.0	15.0	0.0	
30	63P	14.43	14.33	171.0	0.0006	0.012	58.5	36.0	0.0	
31	64P	14.33	14.21	249.0	0.0005	0.012	58.5	36.0	0.0	
32	67P	14.21	14.07	273.0	0.0005	0.012	58.5	36.0	0.0	
33	74P	16.08	15.50	233.0	0.0025	0.012	0.0	15.0	0.0	
34	77P	14.02	14.00	47.0	0.0004	0.012	58.5	36.0	0.0	
35	78P	14.00	13.94	114.0	0.0005	0.012	65.0	40.0	0.0	
36	79P	13.94	13.88	114.0	0.0005	0.012	65.0	40.0	0.0	
37	82P	13.88	13.76	250.0	0.0005	0.012	73.0	45.0	0.0	
38	83P	14.68	14.00	270.0	0.0025	0.012	0.0	24.0	0.0	
39	84P	14.07	14.02	110.0	0.0005	0.012	58.5	36.0	0.0	
40	87P	13.76	13.67	171.0	0.0005	0.012	73.0	45.0	0.0	
41	89P	13.67	13.57	208.0	0.0005	0.012	73.0	45.0	0.0	
42	91P	13.57	13.56	27.0	0.0004	0.012	73.0	45.0	0.0	

Pipe Listing (all nodes) (continued)

Line#	Node Number	In-Invert (feet)	Out-Invert (feet)	Length (feet)	Slope (ft/ft)	n	Width (inches)	Diam/Height (inches)	Inside-Fill (inches)	Node Name
43	92P	13.56	13.47	186.0	0.0005	0.012	73.0	45.0	0.0	
44	95P	13.47	13.32	291.0	0.0005	0.012	73.0	45.0	0.0	
45	97P	13.32	13.13	375.0	0.0005	0.012	88.0	54.0	0.0	
46	98P	13.39	13.32	29.0	0.0024	0.012	0.0	24.0	0.0	
47	99P	20.00	19.69	156.0	0.0020	0.012	0.0	24.0	0.0	
48	100P	13.44	13.32	49.0	0.0024	0.012	0.0	15.0	0.0	
49	104P	13.13	13.00	254.0	0.0005	0.012	88.0	54.0	0.0	
50	105P	13.57	13.50	33.0	0.0021	0.012	0.0	24.0	0.0	
51	106P	13.00	12.98	32.0	0.0006	0.012	88.0	54.0	0.0	
52	110P	15.38	13.57	726.0	0.0025	0.012	0.0	24.0	0.0	
53	111P	15.48	15.38	40.0	0.0025	0.012	0.0	18.0	0.0	
54	115P	14.33	14.28	27.0	0.0019	0.012	0.0	15.0	0.0	
55	116P	14.28	14.00	140.0	0.0020	0.012	0.0	18.0	0.0	
56	119P	14.39	14.32	27.0	0.0026	0.012	0.0	30.0	0.0	
57	120P	14.32	14.00	128.0	0.0025	0.012	0.0	30.0	0.0	
58	123P	14.46	14.39	27.0	0.0026	0.012	0.0	24.0	0.0	
59	125P	14.43	14.00	215.0	0.0020	0.012	0.0	24.0	0.0	

Summary for Subcatchment 1S: 62

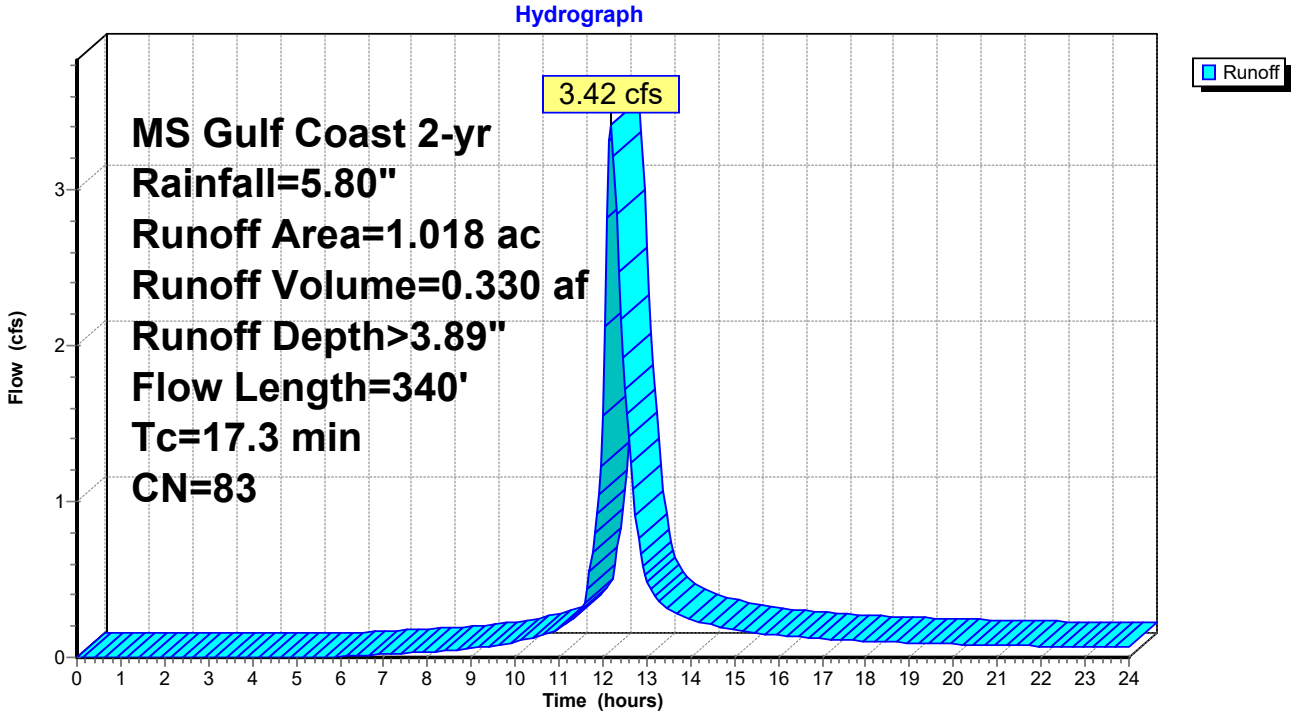
Runoff = 3.42 cfs @ 12.19 hrs, Volume= 0.330 af, Depth> 3.89"
Routed to Pond 12P : ci31

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
1.018	83	1/4 acre lots, 38% imp, HSG C
0.631		62.00% Pervious Area
0.387		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
1.6	100	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
2.6	190	0.0035	1.20		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
17.3	340	Total			

Subcatchment 1S: 62



Summary for Subcatchment 2S: 63

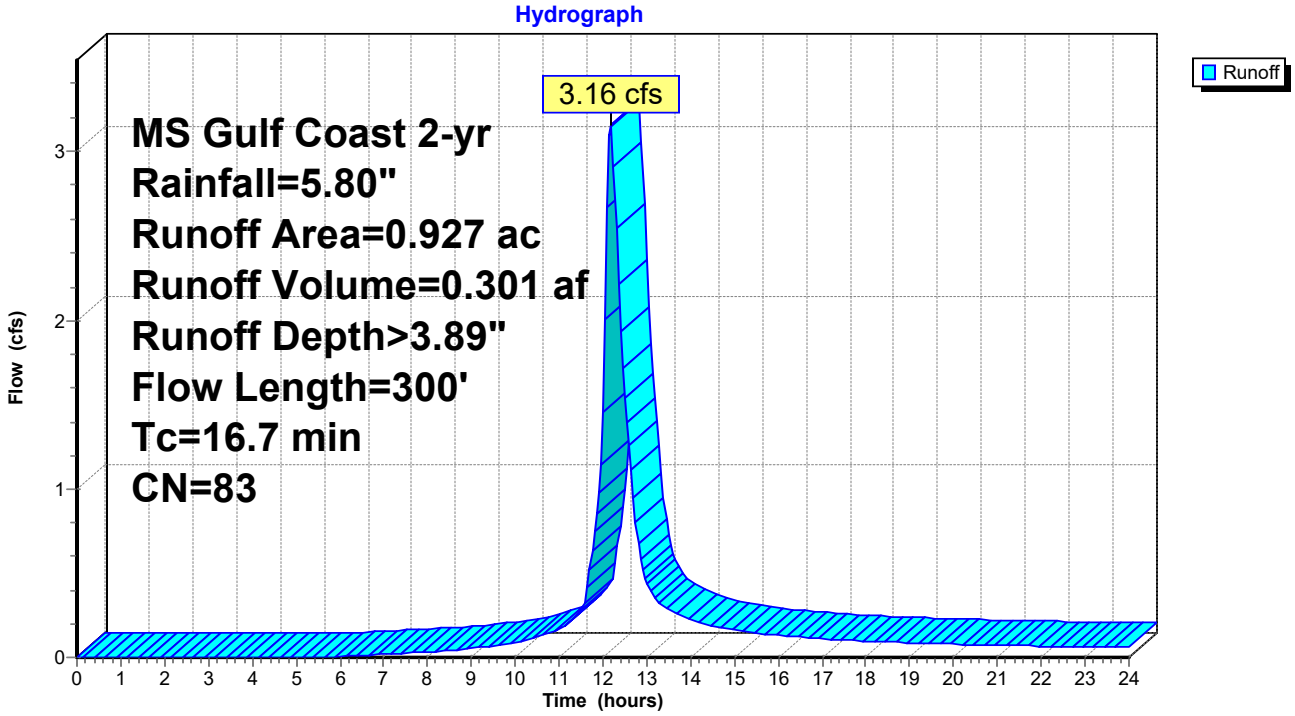
Runoff = 3.16 cfs @ 12.18 hrs, Volume= 0.301 af, Depth> 3.89"
Routed to Pond 15P : ci35

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
0.927	83	1/4 acre lots, 38% imp, HSG C
0.575		62.00% Pervious Area
0.352		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
0.8	50	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
2.8	200	0.0035	1.20		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
16.7	300	Total			

Subcatchment 2S: 63



Summary for Subcatchment 3S: 64

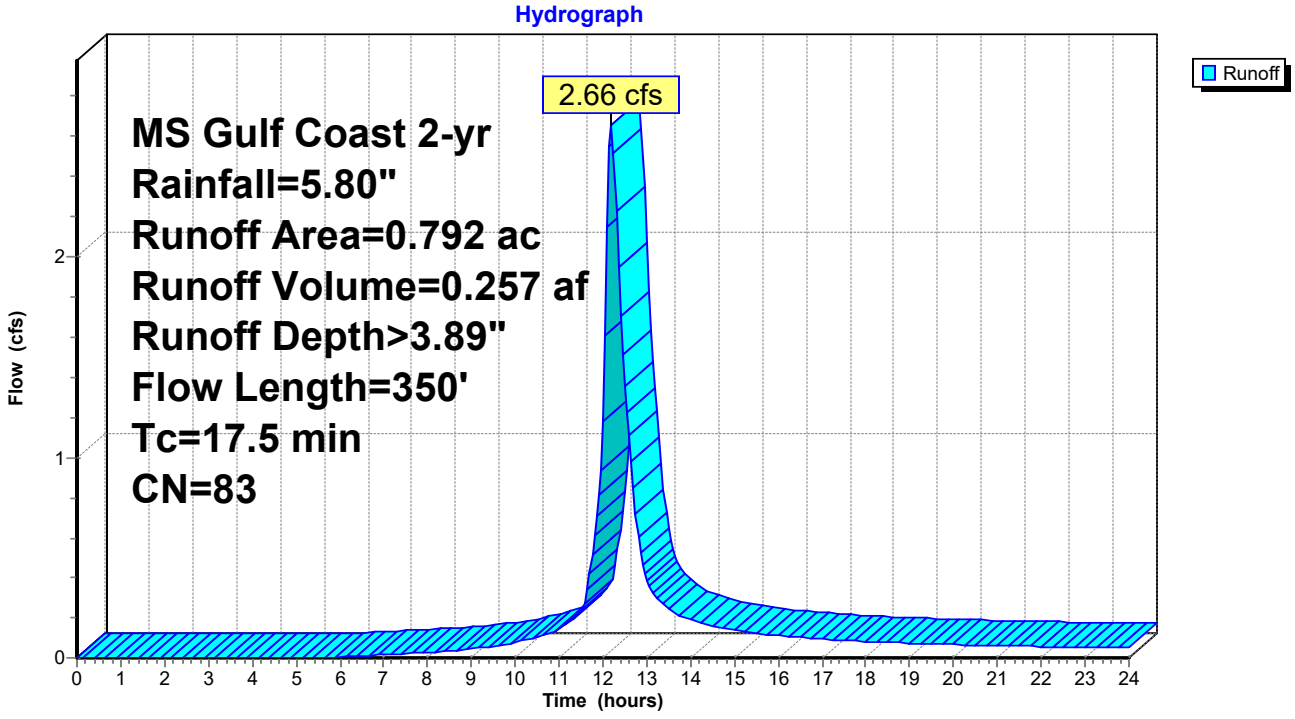
Runoff = 2.66 cfs @ 12.20 hrs, Volume= 0.257 af, Depth> 3.89"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
0.792	83	1/4 acre lots, 38% imp, HSG C
0.491		62.00% Pervious Area
0.301		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
1.6	100	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
2.8	200	0.0035	1.20		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
17.5	350	Total			

Subcatchment 3S: 64



Summary for Subcatchment 5S: 67

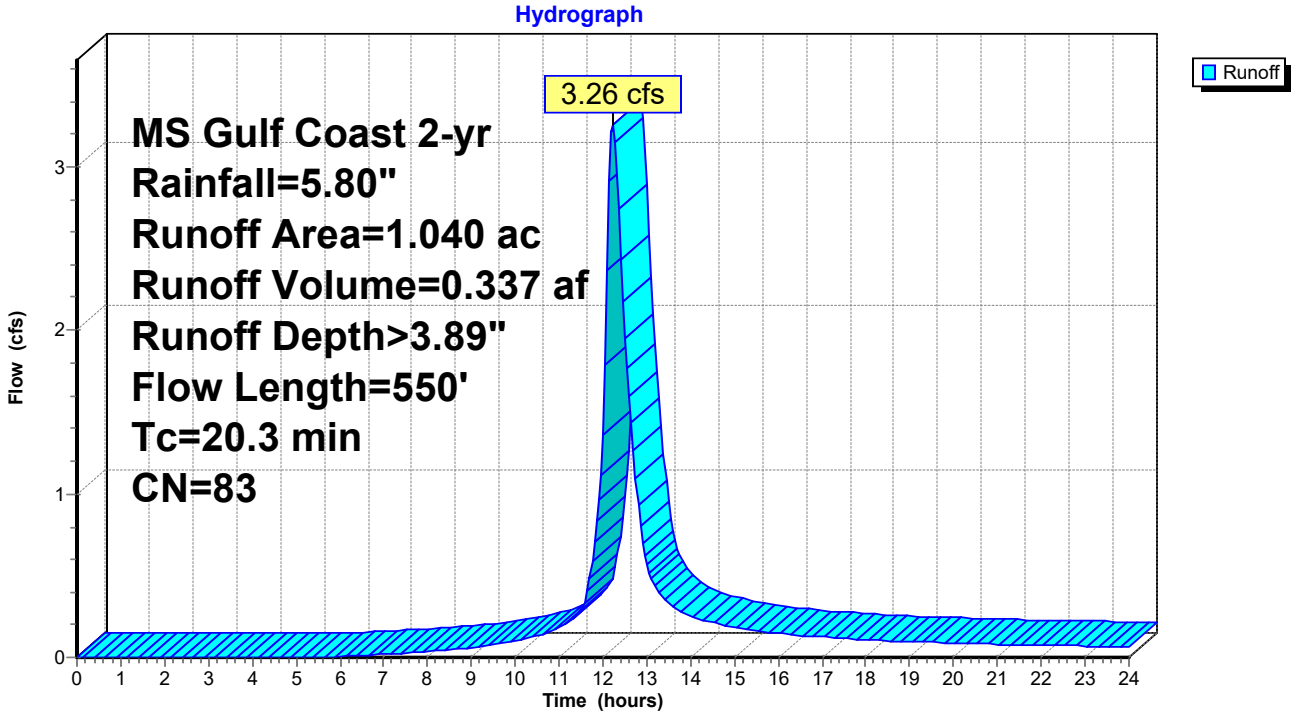
Runoff = 3.26 cfs @ 12.23 hrs, Volume= 0.337 af, Depth> 3.89"
Routed to Pond 18P : ci41

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
1.040	83	1/4 acre lots, 38% imp, HSG C
0.645		62.00% Pervious Area
0.395		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
1.6	100	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
5.6	400	0.0035	1.20		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
20.3	550	Total			

Subcatchment 5S: 67



Summary for Subcatchment 6S: 66

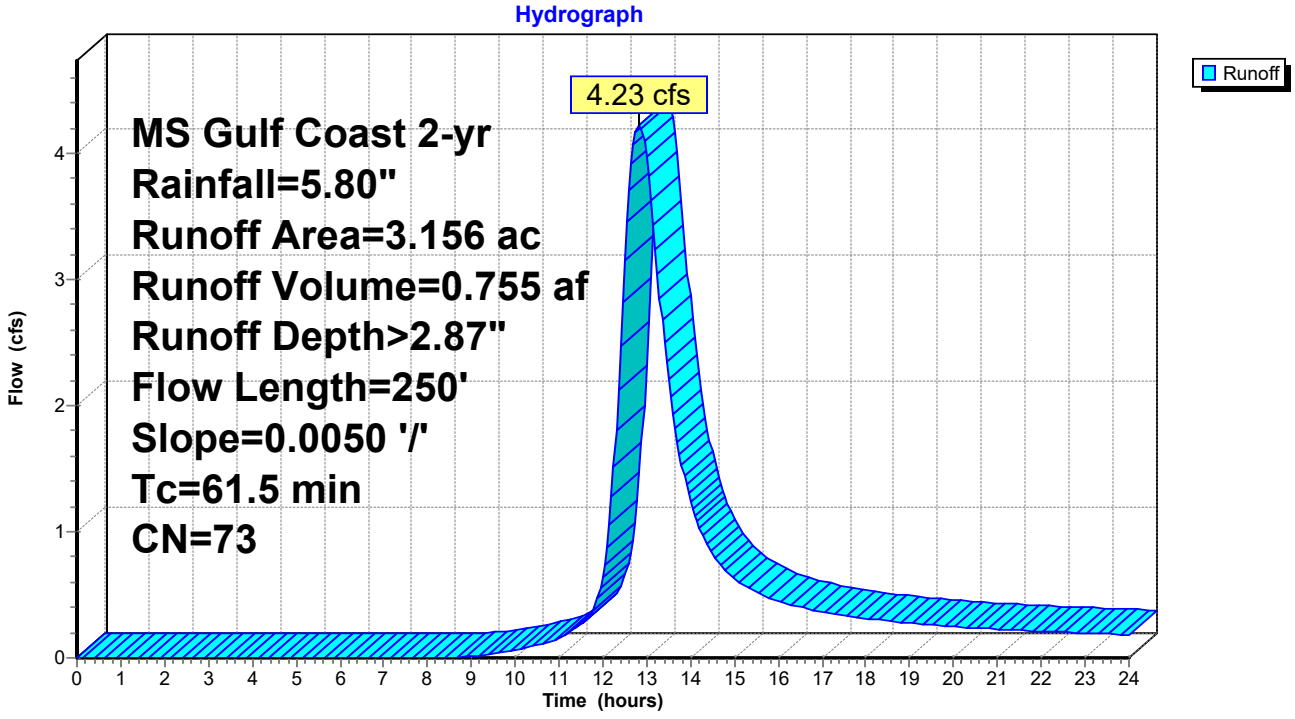
Runoff = 4.23 cfs @ 12.82 hrs, Volume= 0.755 af, Depth> 2.87"
Routed to Pond 20P : ci24a

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
3.156	73	Woods, Fair, HSG C
3.156		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
14.1	150	0.0050	0.18		**Shallow Concentrated Flow,** Forest w/Heavy Litter Kv= 2.5 fps
34.3	50	0.0050	0.02		**Sheet Flow,** Woods: Dense underbrush n= 0.800 P2= 3.81"
61.5	250	Total			

Subcatchment 6S: 66



Summary for Subcatchment 8S: 60

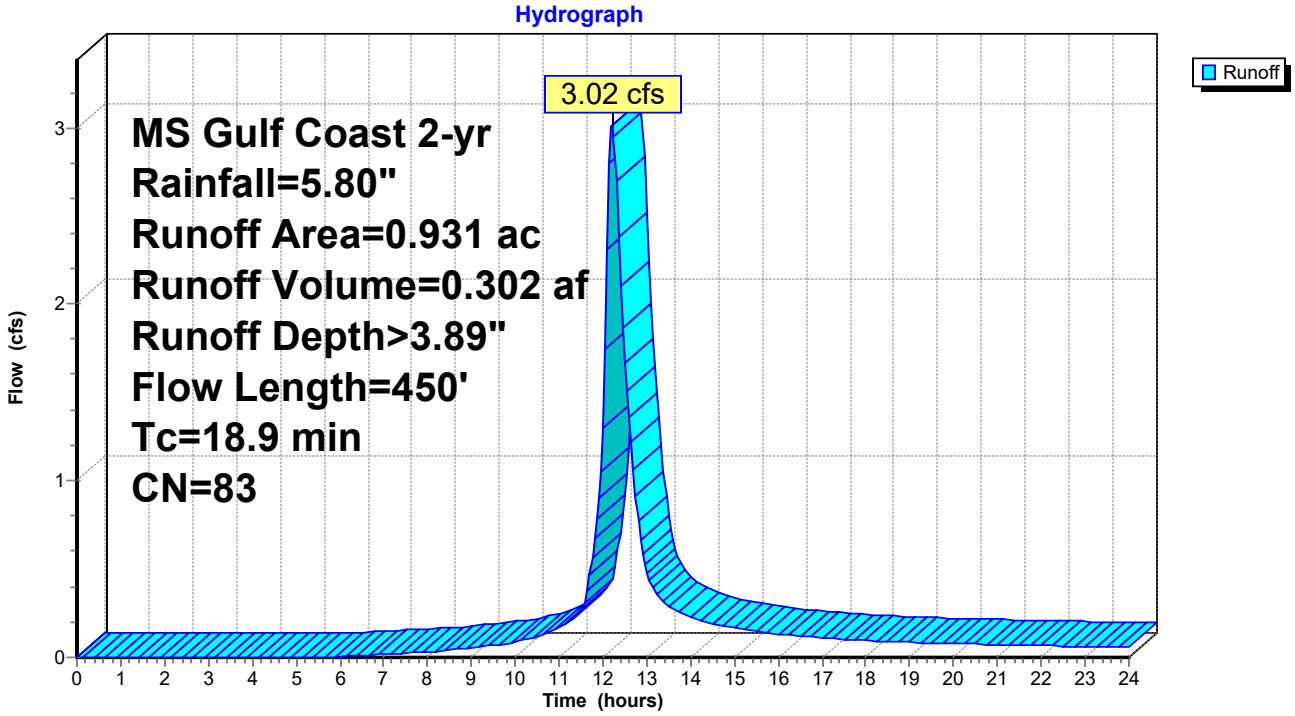
Runoff = 3.02 cfs @ 12.21 hrs, Volume= 0.302 af, Depth> 3.89"
Routed to Pond 22P : ci32

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
0.931	83	1/4 acre lots, 38% imp, HSG C
0.577		62.00% Pervious Area
0.354		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
1.6	100	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
4.2	300	0.0035	1.20		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
18.9	450	Total			

Subcatchment 8S: 60



Summary for Subcatchment 9S: 55+56

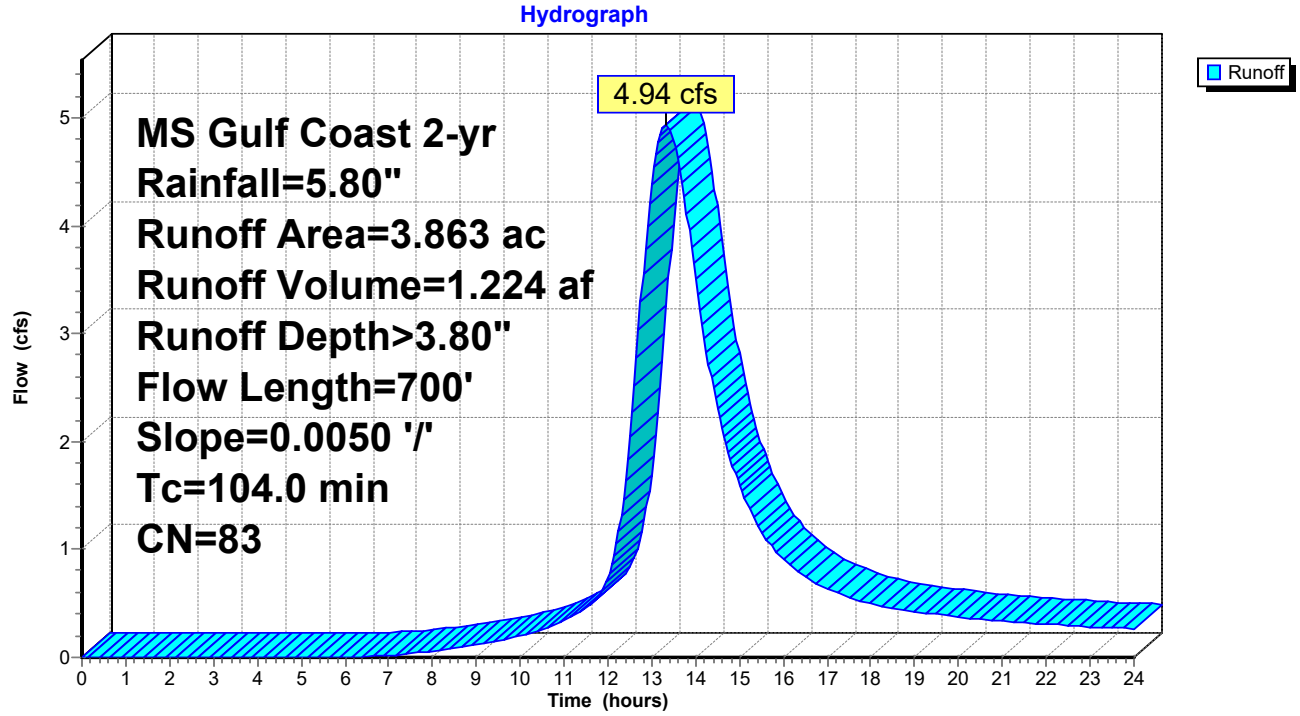
Runoff = 4.94 cfs @ 13.31 hrs, Volume= 1.224 af, Depth> 3.80"
Routed to Reach 72R : p37

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
3.863	83	1/4 acre lots, 38% imp, HSG C
2.395		62.00% Pervious Area
1.468		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
34.3	50	0.0050	0.02		**Sheet Flow,** Woods: Dense underbrush n= 0.800 P2= 3.81"
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
56.6	600	0.0050	0.18		**Shallow Concentrated Flow,** Forest w/Heavy Litter Kv= 2.5 fps
104.0	700	Total			

Subcatchment 9S: 55+56



Summary for Subcatchment 10S: 61

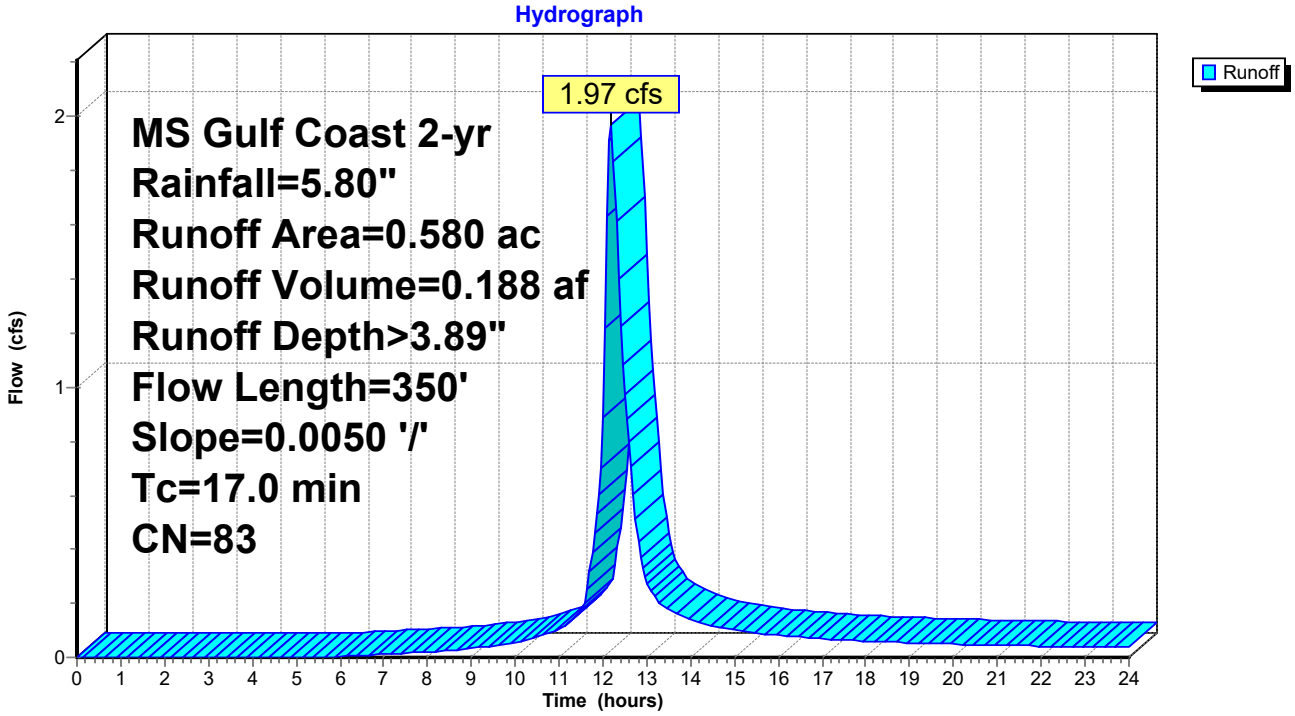
Runoff = 1.97 cfs @ 12.19 hrs, Volume= 0.188 af, Depth> 3.89"
Routed to Pond 14P : ci30

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
0.580	83	1/4 acre lots, 38% imp, HSG C
0.360		62.00% Pervious Area
0.220		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
1.6	100	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
2.3	200	0.0050	1.44		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
17.0	350	Total			

Subcatchment 10S: 61



Summary for Subcatchment 11S: 63a

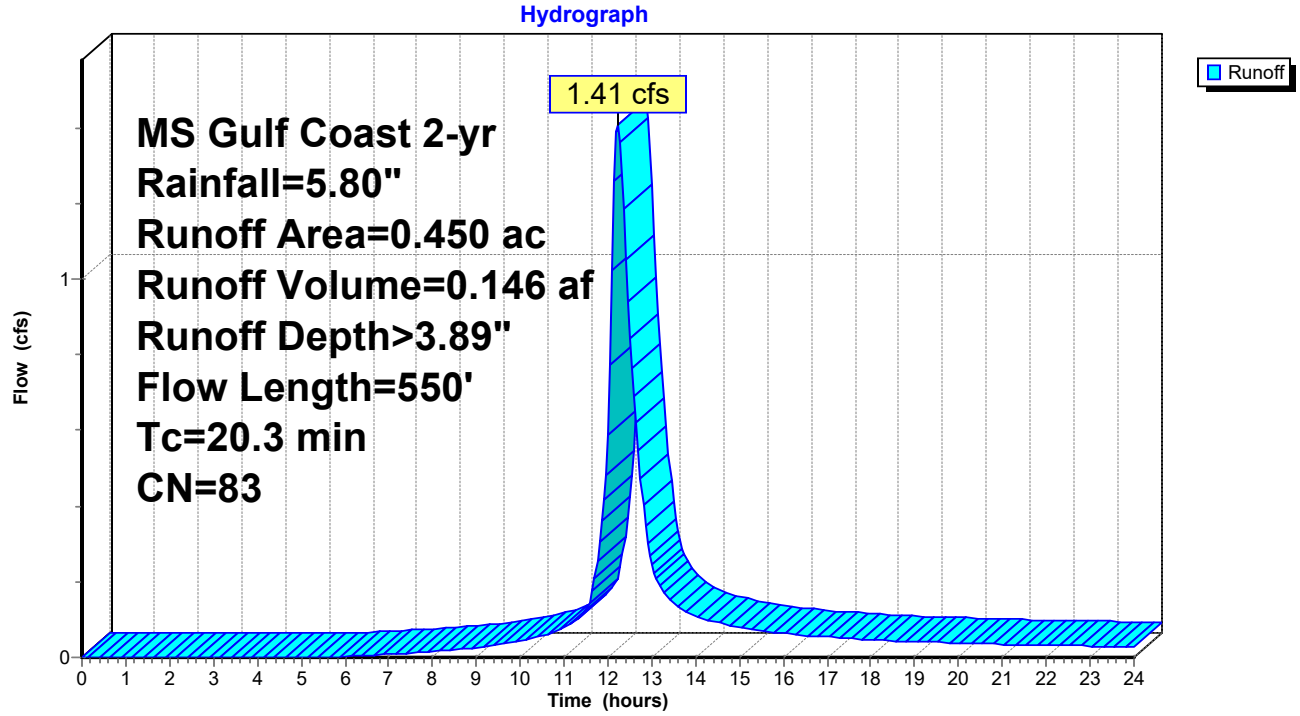
Runoff = 1.41 cfs @ 12.23 hrs, Volume= 0.146 af, Depth> 3.89"
Routed to Pond 16P : ci34

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
0.450	83	1/4 acre lots, 38% imp, HSG C
0.279		62.00% Pervious Area
0.171		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
1.6	100	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
5.6	400	0.0035	1.20		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
20.3	550	Total			

Subcatchment 11S: 63a



Summary for Subcatchment 28S: 58

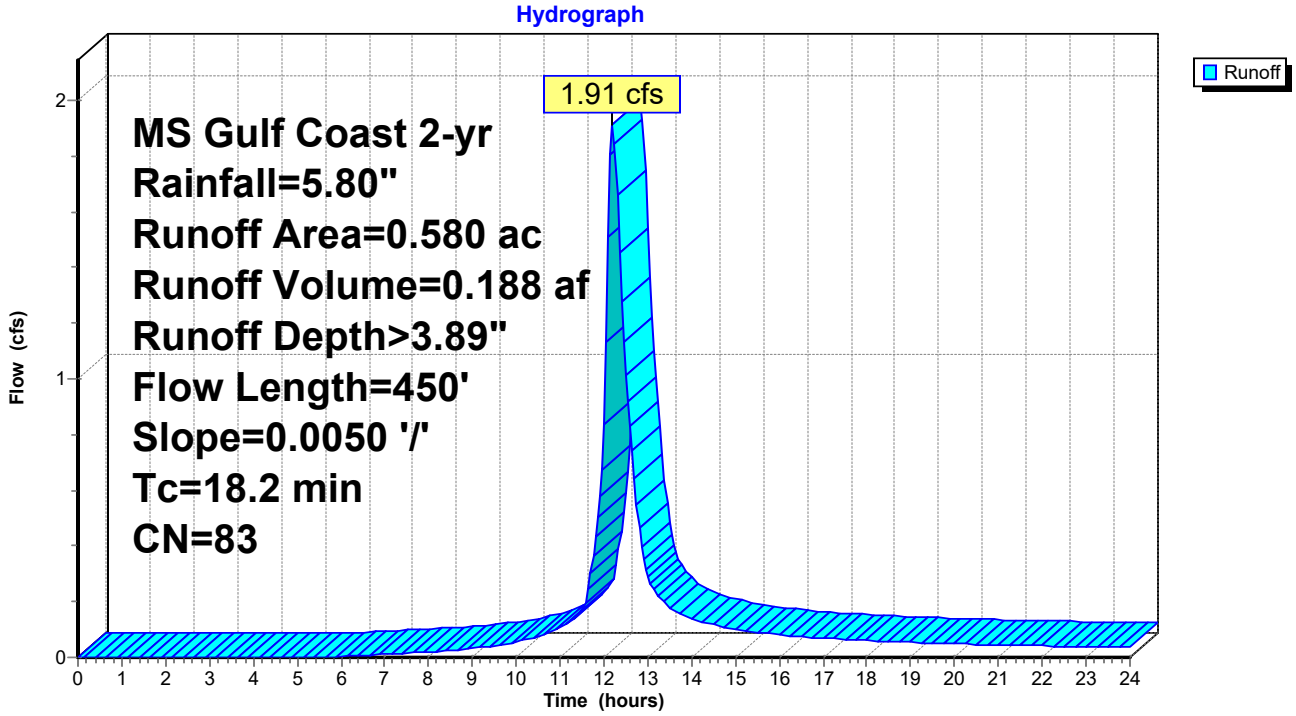
Runoff = 1.91 cfs @ 12.21 hrs, Volume= 0.188 af, Depth> 3.89"
Routed to Pond 26P : ci27

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
0.580	83	1/4 acre lots, 38% imp, HSG C
0.360		62.00% Pervious Area
0.220		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
1.6	100	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
3.5	300	0.0050	1.44		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
18.2	450	Total			

Subcatchment 28S: 58



Summary for Subcatchment 29S: 57

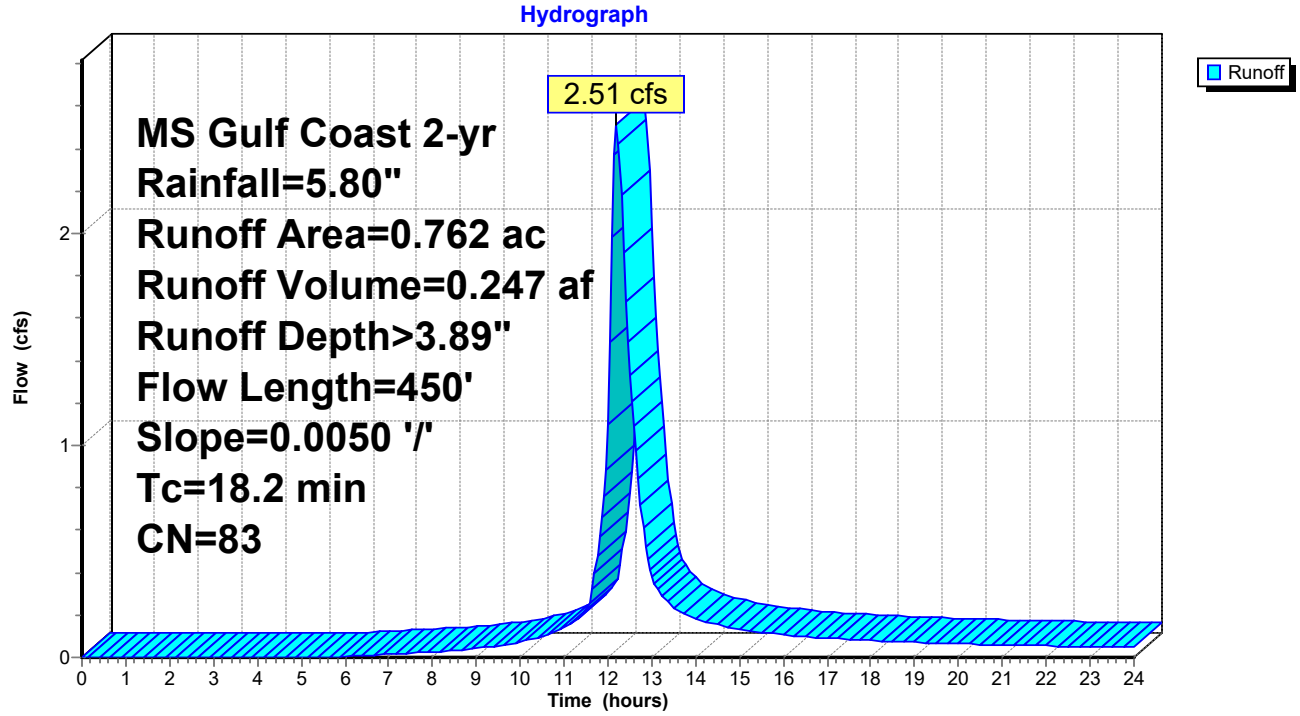
Runoff = 2.51 cfs @ 12.21 hrs, Volume= 0.247 af, Depth> 3.89"
Routed to Pond 27P : ci28

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
0.762	83	1/4 acre lots, 38% imp, HSG C
0.472		62.00% Pervious Area
0.290		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
1.6	100	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
3.5	300	0.0050	1.44		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
18.2	450	Total			

Subcatchment 29S: 57



Summary for Subcatchment 30S: 65

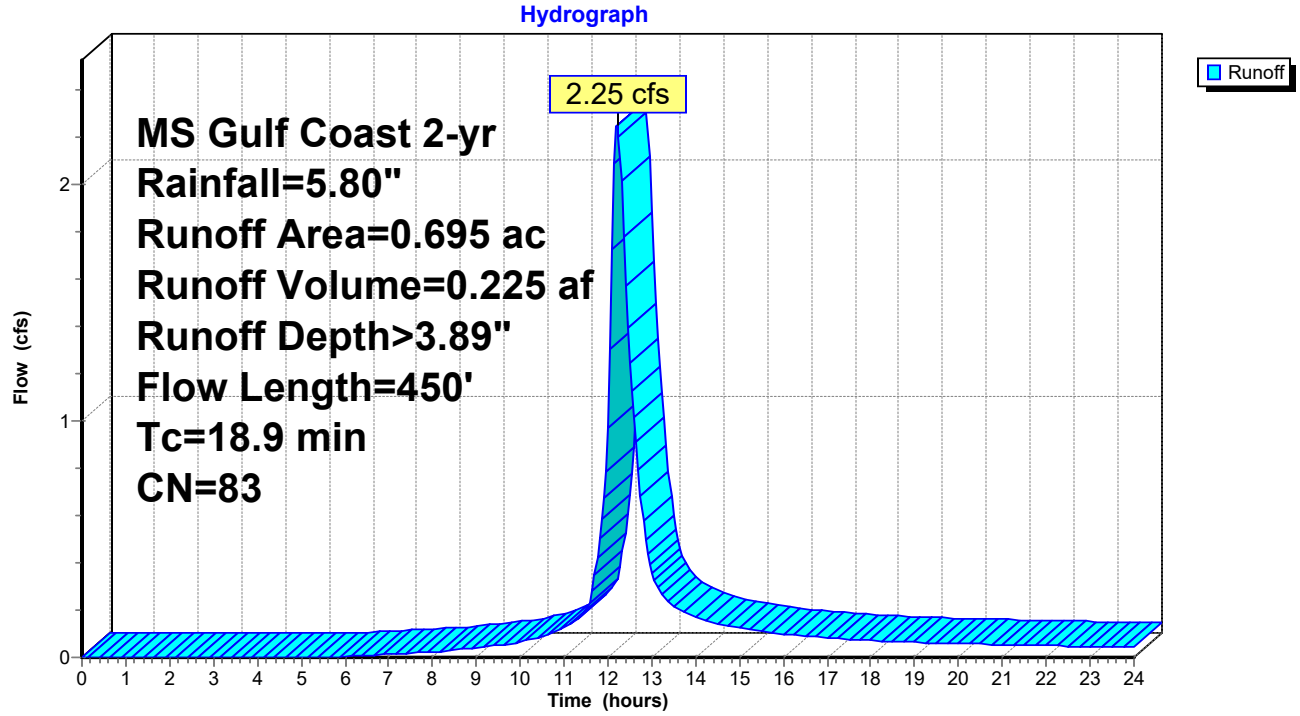
Runoff = 2.25 cfs @ 12.21 hrs, Volume= 0.225 af, Depth> 3.89"
Routed to Pond 21P : ci33

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
0.695	83	1/4 acre lots, 38% imp, HSG C
0.431		62.00% Pervious Area
0.264		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
1.6	100	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
4.2	300	0.0035	1.20		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
18.9	450	Total			

Subcatchment 30S: 65



Summary for Subcatchment 31S: 68

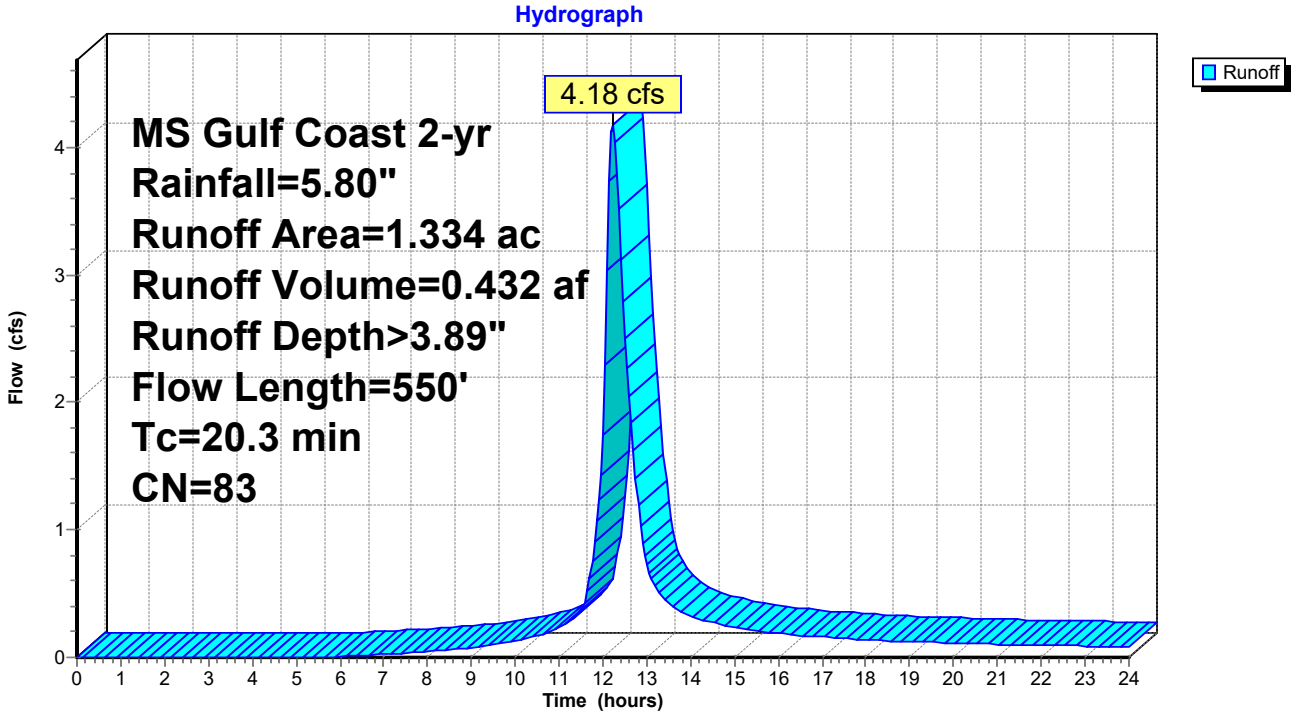
Runoff = 4.18 cfs @ 12.23 hrs, Volume= 0.432 af, Depth> 3.89"
Routed to Pond 17P : ci40

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
1.334	83	1/4 acre lots, 38% imp, HSG C
0.827		62.00% Pervious Area
0.507		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
1.6	100	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
5.6	400	0.0035	1.20		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
20.3	550	Total			

Subcatchment 31S: 68



Summary for Subcatchment 32S: 51

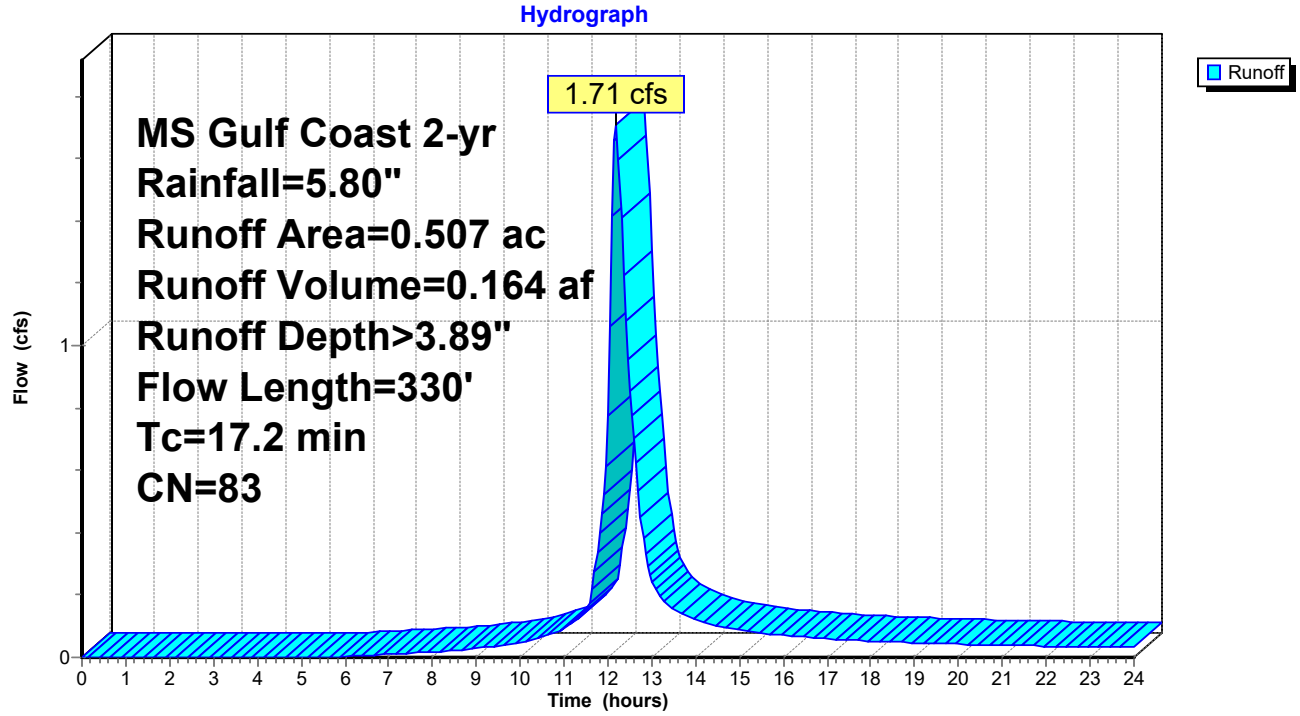
Runoff = 1.71 cfs @ 12.19 hrs, Volume= 0.164 af, Depth> 3.89"
Routed to Pond 23P : ci18a

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
0.507	83	1/4 acre lots, 38% imp, HSG C
0.314		62.00% Pervious Area
0.193		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
1.6	100	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
2.5	180	0.0035	1.20		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
17.2	330	Total			

Subcatchment 32S: 51



Summary for Subcatchment 33S: 50

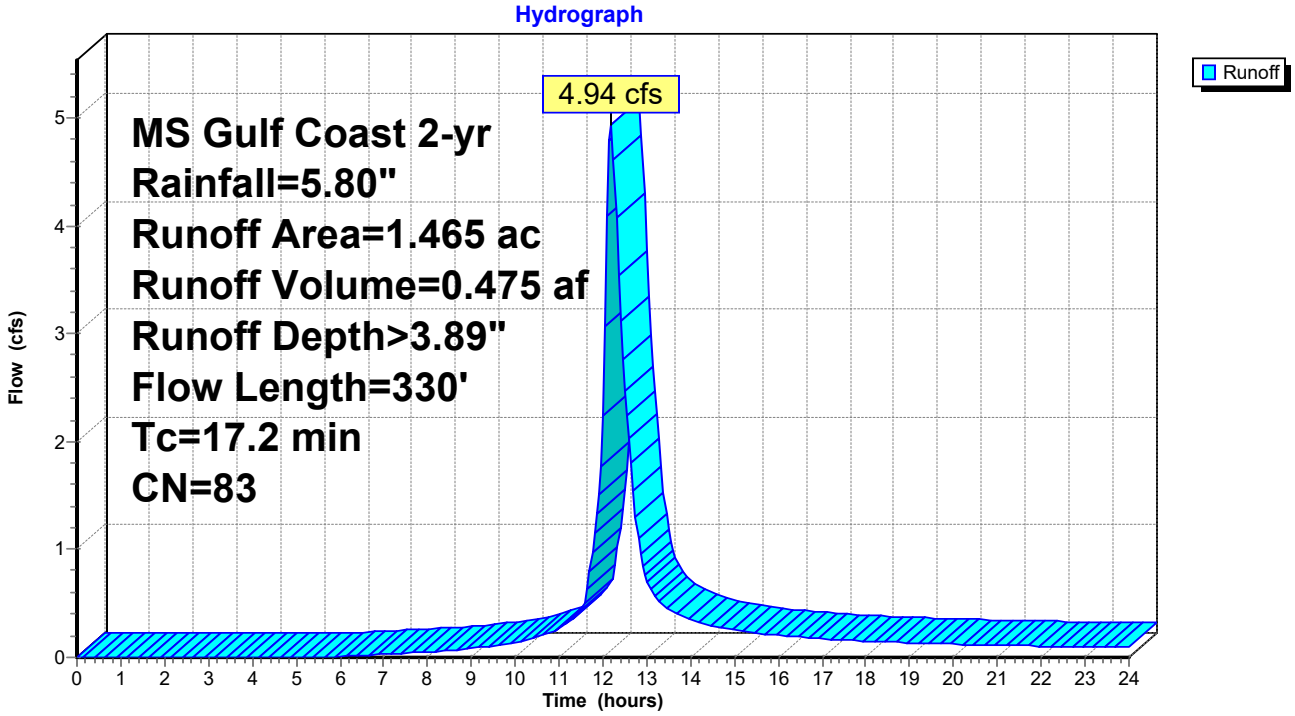
Runoff = 4.94 cfs @ 12.19 hrs, Volume= 0.475 af, Depth> 3.89"
Routed to Pond 24P : ci19a

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
1.465	83	1/4 acre lots, 38% imp, HSG C
0.908		62.00% Pervious Area
0.557		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
1.6	100	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
2.5	180	0.0035	1.20		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
17.2	330	Total			

Subcatchment 33S: 50



Summary for Subcatchment 36S: 47

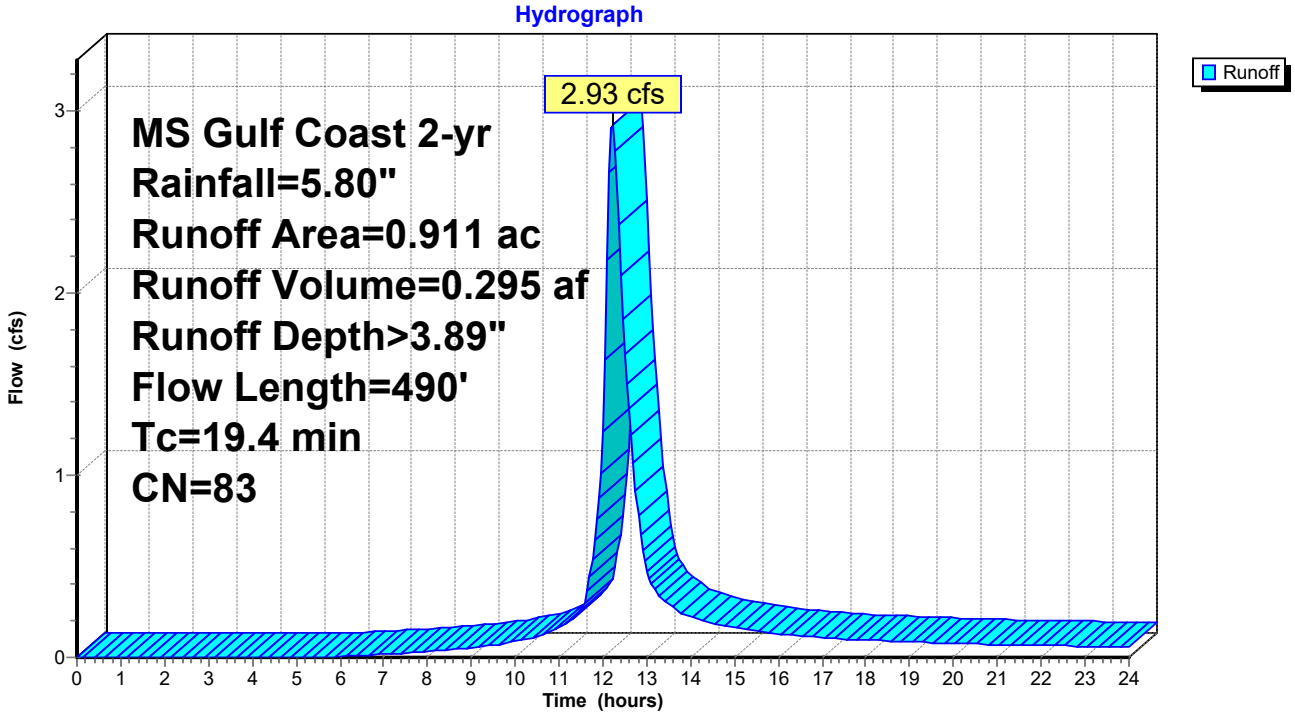
Runoff = 2.93 cfs @ 12.22 hrs, Volume= 0.295 af, Depth> 3.89"
Routed to Pond 35P : ci26

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
0.911	83	1/4 acre lots, 38% imp, HSG C
0.565		62.00% Pervious Area
0.346		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
1.6	100	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
4.7	340	0.0035	1.20		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
19.4	490	Total			

Subcatchment 36S: 47



Summary for Subcatchment 37S: 42

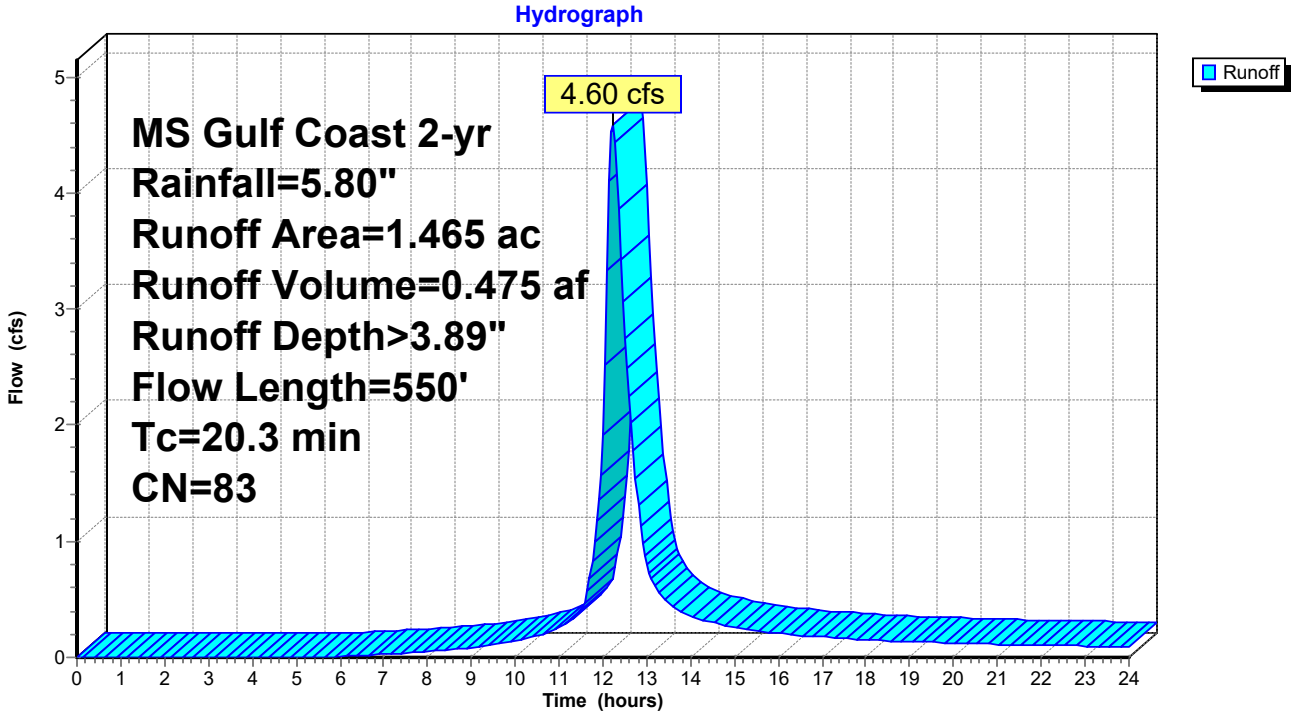
Runoff = 4.60 cfs @ 12.23 hrs, Volume= 0.475 af, Depth> 3.89"
Routed to Pond 34P : ci25

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
1.465	83	1/4 acre lots, 38% imp, HSG C
0.908		62.00% Pervious Area
0.557		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
1.6	100	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
5.6	400	0.0035	1.20		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
20.3	550	Total			

Subcatchment 37S: 42



Summary for Subcatchment 39S: 59

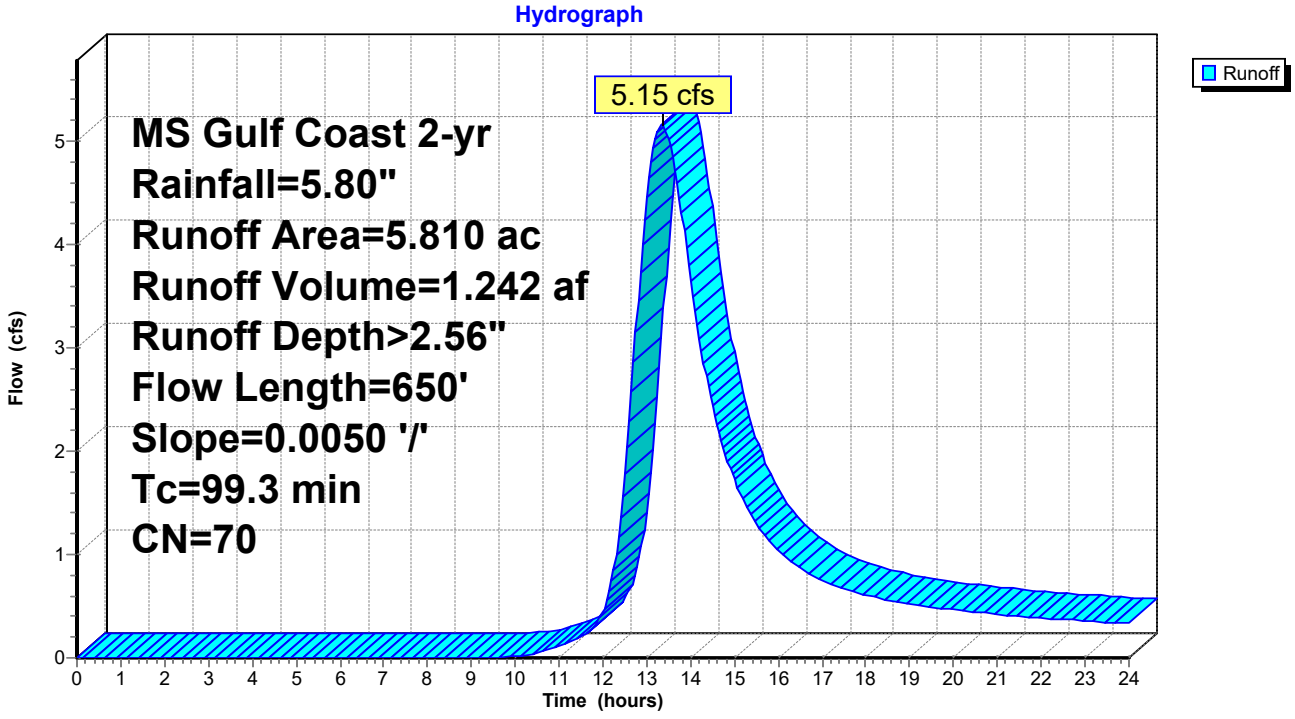
Runoff = 5.15 cfs @ 13.35 hrs, Volume= 1.242 af, Depth> 2.56"
Routed to Pond 38P : ci42a

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
5.810	70	Woods, Good, HSG C
5.810		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
51.9	550	0.0050	0.18		**Shallow Concentrated Flow,** Forest w/Heavy Litter Kv= 2.5 fps
34.3	50	0.0050	0.02		**Sheet Flow,** Woods: Dense underbrush n= 0.800 P2= 3.81"
99.3	650	Total			

Subcatchment 39S: 59



Summary for Subcatchment 43S: 53

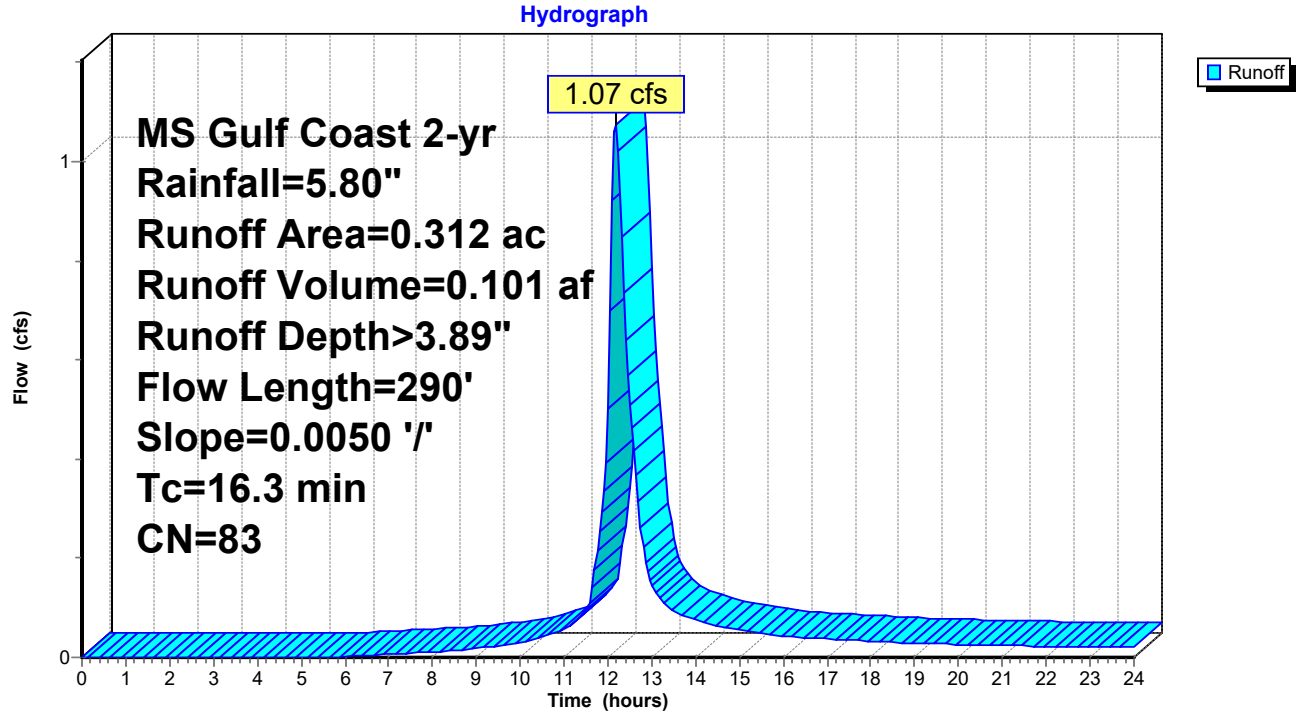
Runoff = 1.07 cfs @ 12.18 hrs, Volume= 0.101 af, Depth> 3.89"
Routed to Pond 42P : ci46

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
0.312	83	1/4 acre lots, 38% imp, HSG C
0.193		62.00% Pervious Area
0.119		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
1.6	100	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
1.6	140	0.0050	1.44		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
16.3	290	Total			

Subcatchment 43S: 53



Summary for Subcatchment 44S: 52

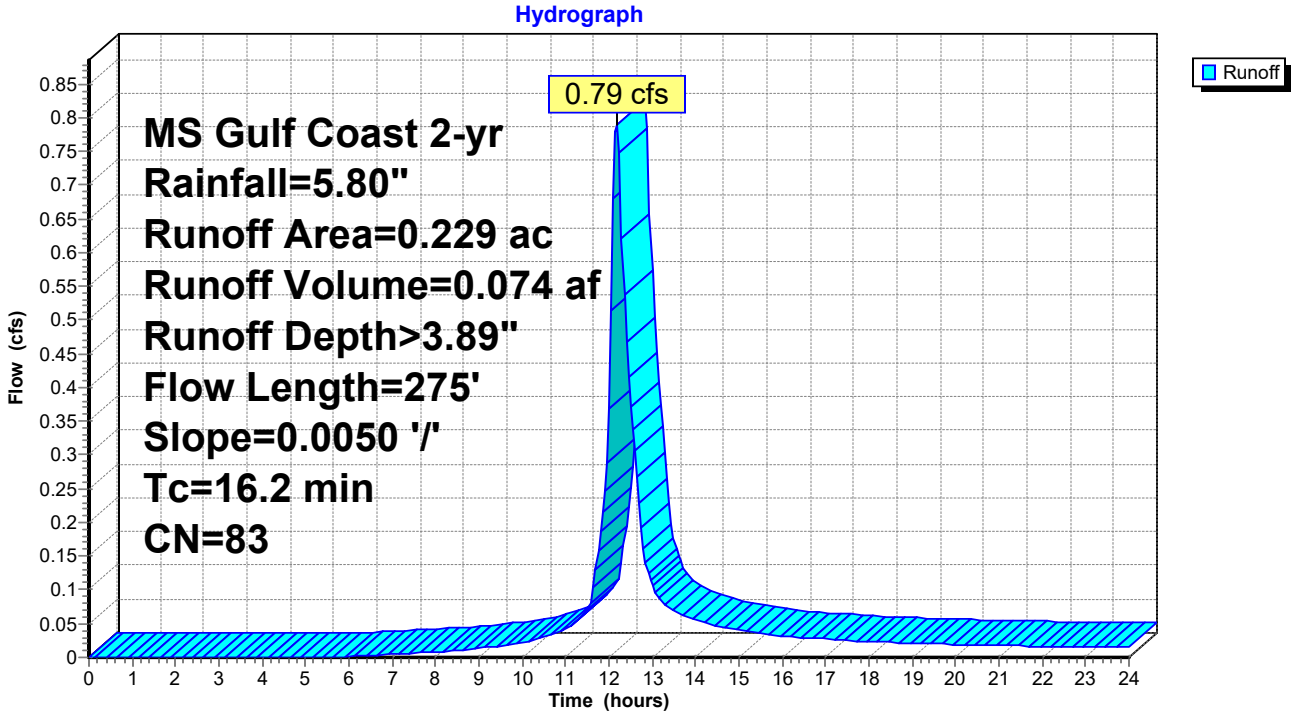
Runoff = 0.79 cfs @ 12.18 hrs, Volume= 0.074 af, Depth> 3.89"
Routed to Pond 41P : ci47

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
0.229	83	1/4 acre lots, 38% imp, HSG C
0.142		62.00% Pervious Area
0.087		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
1.6	100	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
1.5	125	0.0050	1.44		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
16.2	275	Total			

Subcatchment 44S: 52



Summary for Subcatchment 45S: 54

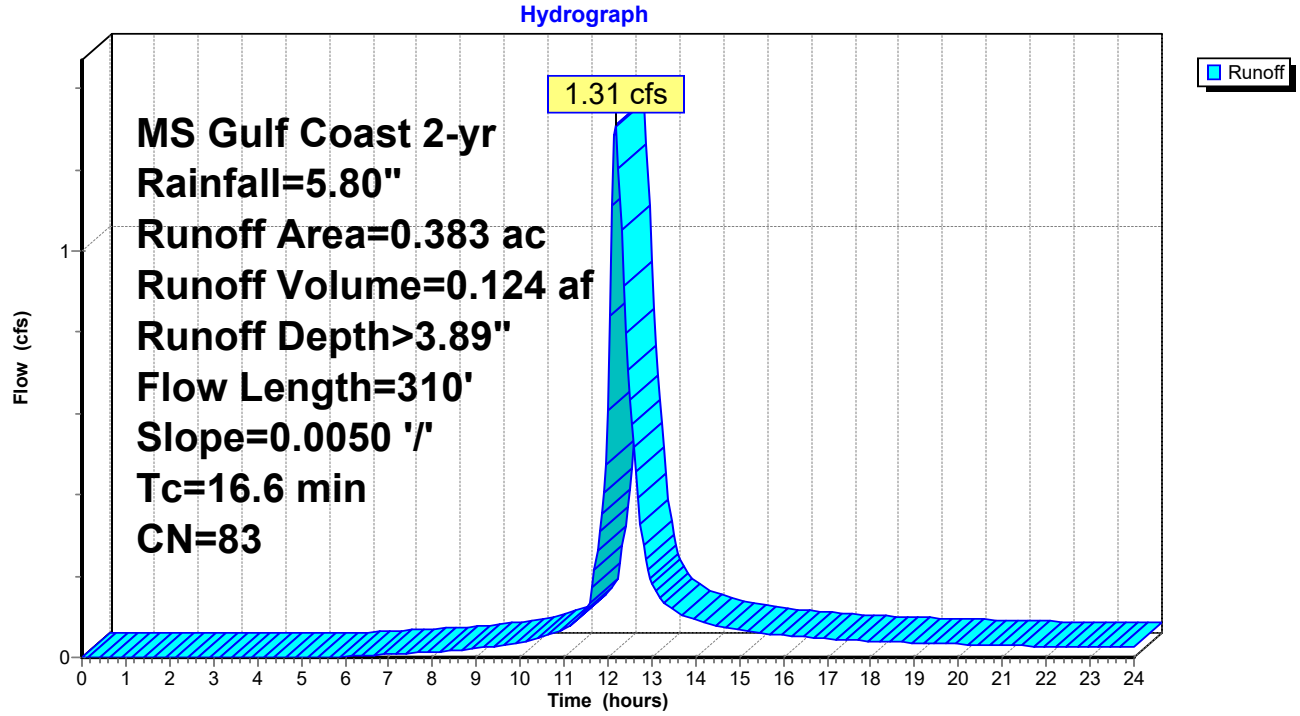
Runoff = 1.31 cfs @ 12.18 hrs, Volume= 0.124 af, Depth> 3.89"
Routed to Pond 40P : ci45

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
0.383	83	1/4 acre lots, 38% imp, HSG C
0.237		62.00% Pervious Area
0.146		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
1.6	100	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
1.9	160	0.0050	1.44		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
16.6	310	Total			

Subcatchment 45S: 54



Summary for Subcatchment 48S: 45

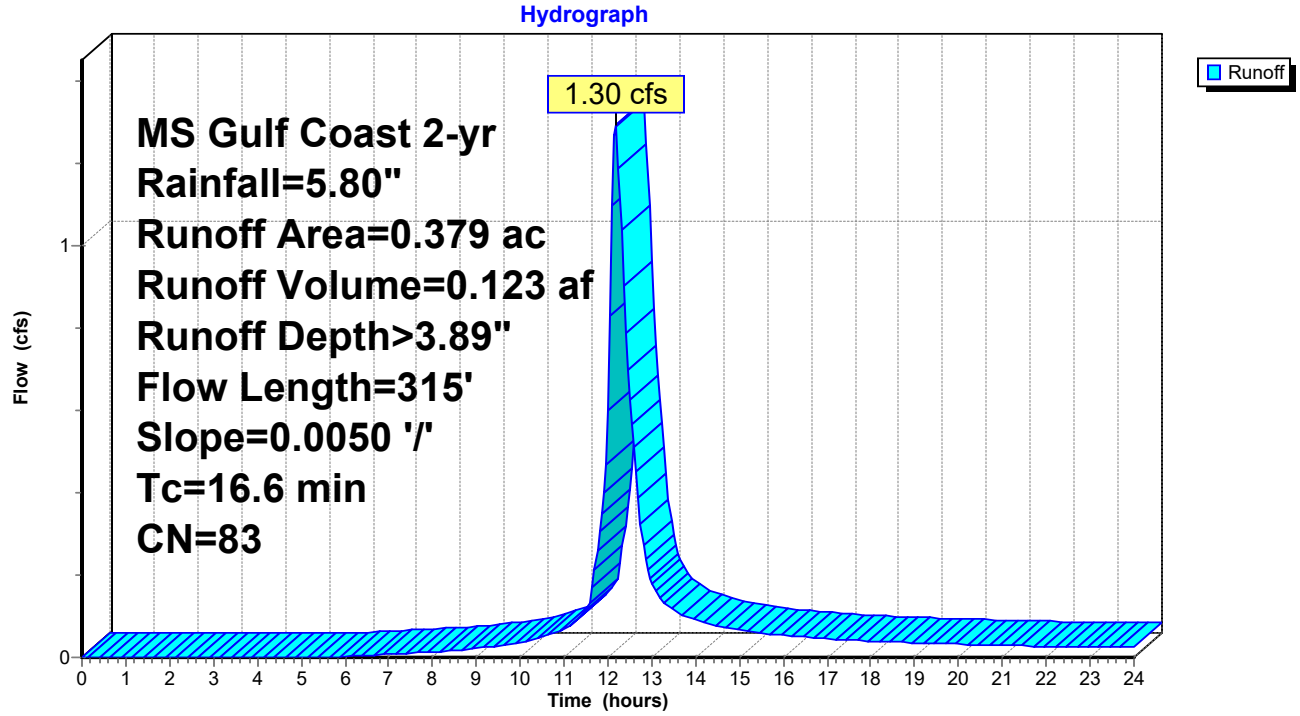
Runoff = 1.30 cfs @ 12.18 hrs, Volume= 0.123 af, Depth> 3.89"
Routed to Pond 47P : ci41

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
0.379	83	1/4 acre lots, 38% imp, HSG C
0.235		62.00% Pervious Area
0.144		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
1.6	100	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
1.9	165	0.0050	1.44		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
16.6	315	Total			

Subcatchment 48S: 45



Summary for Subcatchment 49S: 46

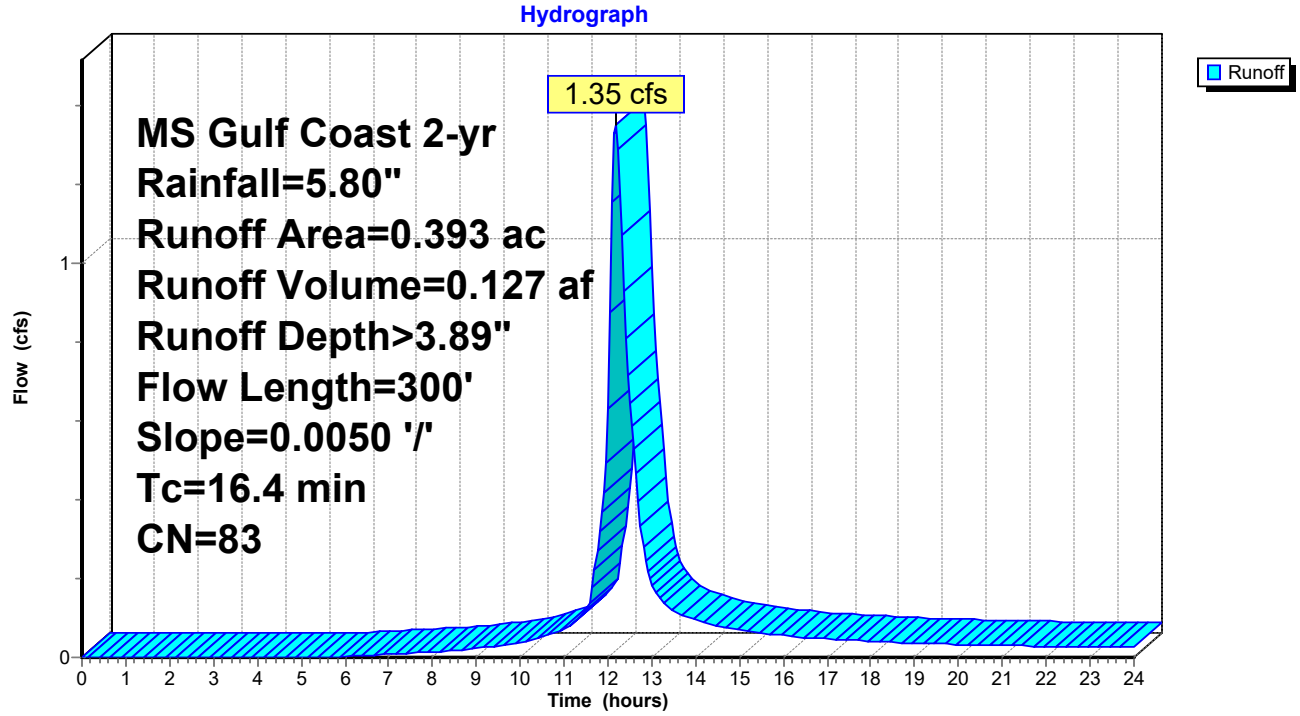
Runoff = 1.35 cfs @ 12.18 hrs, Volume= 0.127 af, Depth> 3.89"
Routed to Pond 46P : ci42

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
0.393	83	1/4 acre lots, 38% imp, HSG C
0.244		62.00% Pervious Area
0.149		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
1.6	100	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
1.7	150	0.0050	1.44		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
16.4	300	Total			

Subcatchment 49S: 46



Summary for Subcatchment 53S: 48

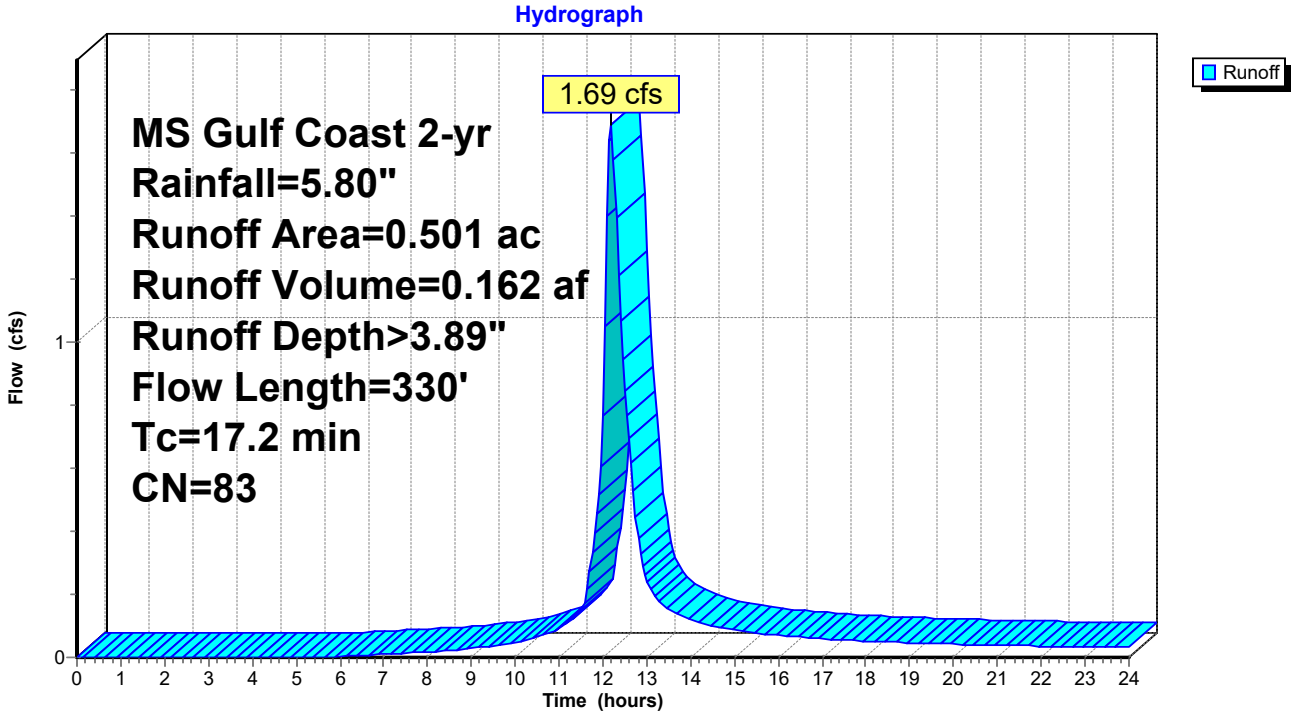
Runoff = 1.69 cfs @ 12.19 hrs, Volume= 0.162 af, Depth> 3.89"
Routed to Pond 51P : ci23

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
0.501	83	1/4 acre lots, 38% imp, HSG C
0.311		62.00% Pervious Area
0.190		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
1.6	100	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
2.5	180	0.0035	1.20		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
17.2	330	Total			

Subcatchment 53S: 48



Summary for Subcatchment 54S: 49

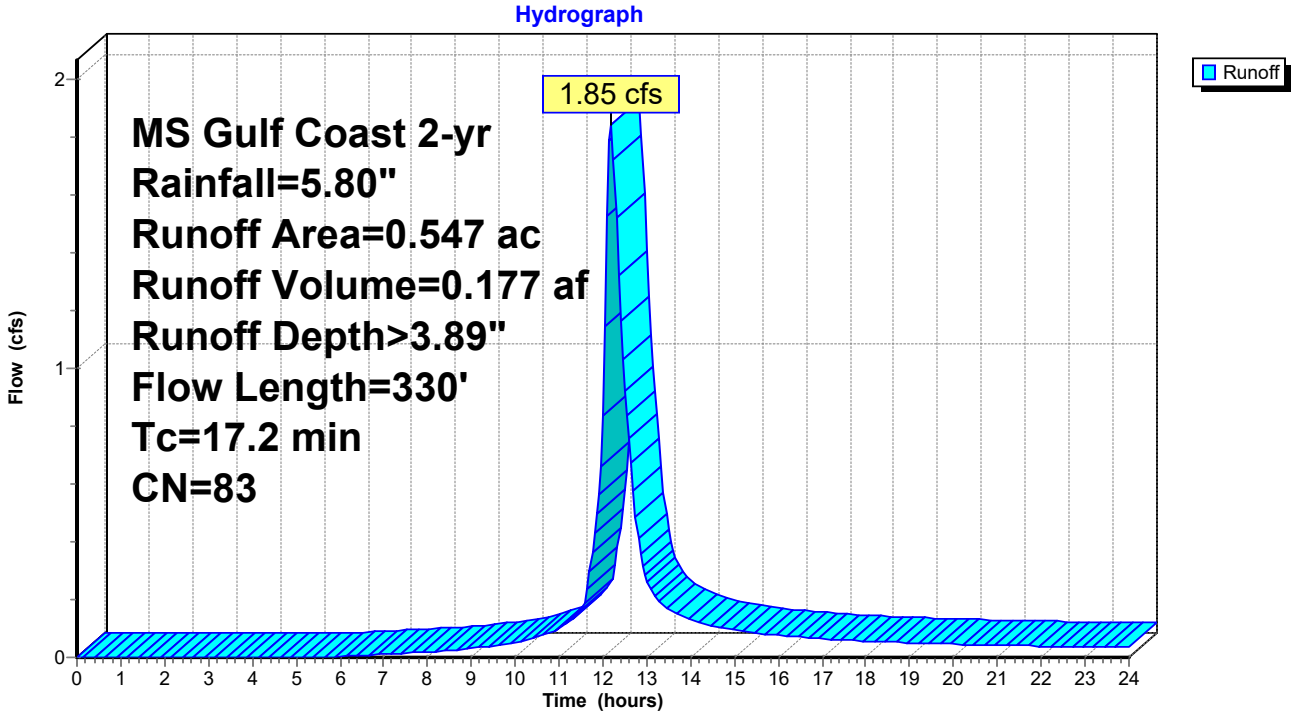
Runoff = 1.85 cfs @ 12.19 hrs, Volume= 0.177 af, Depth> 3.89"
Routed to Pond 52P : ci24

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
0.547	83	1/4 acre lots, 38% imp, HSG C
0.339		62.00% Pervious Area
0.208		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
1.6	100	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
2.5	180	0.0035	1.20		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
17.2	330	Total			

Subcatchment 54S: 49



Summary for Subcatchment 57S: 37

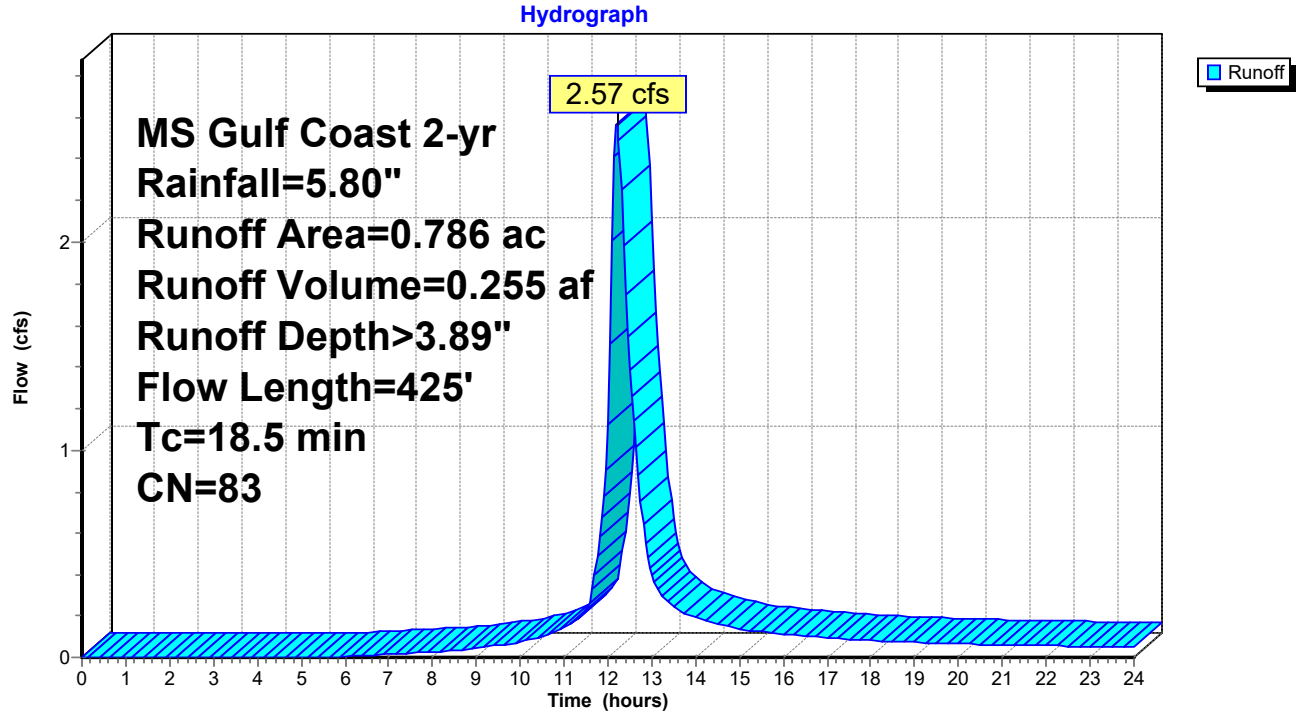
Runoff = 2.57 cfs @ 12.21 hrs, Volume= 0.255 af, Depth> 3.89"
Routed to Pond 56P : ci21

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
0.786	83	1/4 acre lots, 38% imp, HSG C
0.487		62.00% Pervious Area
0.299		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
1.6	100	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
3.8	275	0.0035	1.20		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
18.5	425	Total			

Subcatchment 57S: 37



Summary for Subcatchment 58S: 38

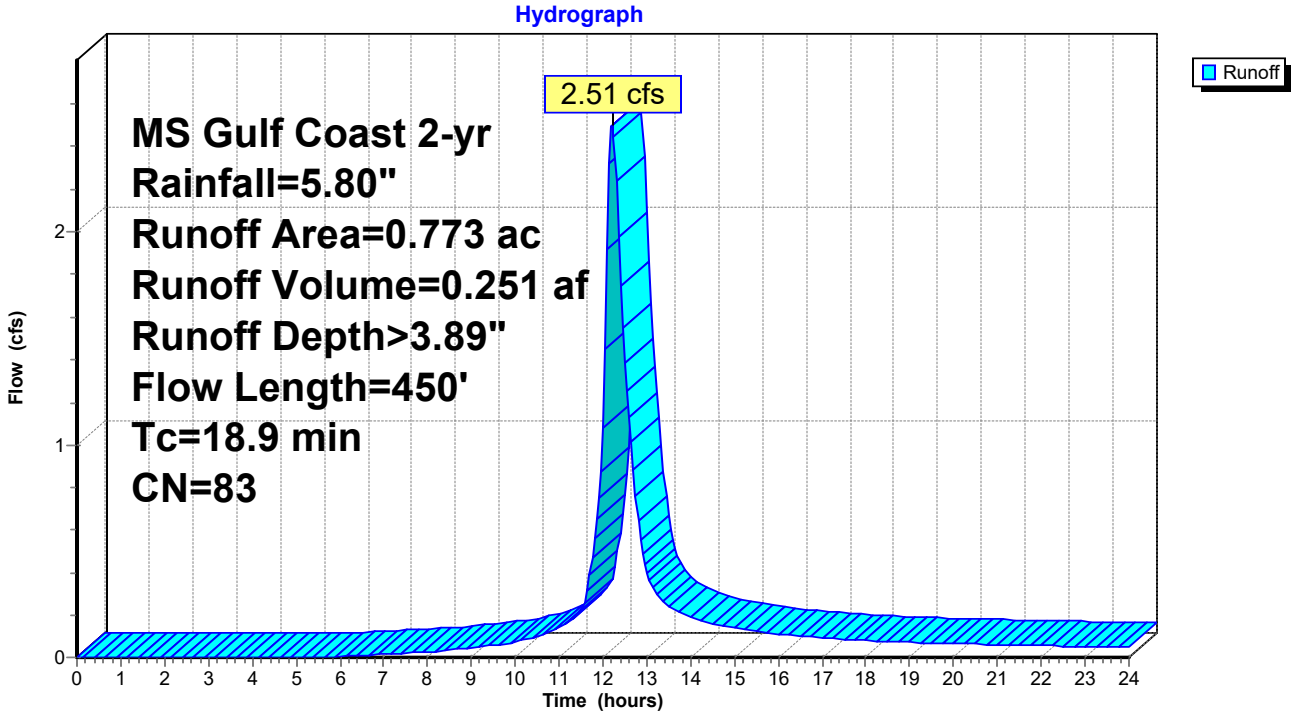
Runoff = 2.51 cfs @ 12.21 hrs, Volume= 0.251 af, Depth> 3.89"
Routed to Pond 55P : ci20

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
0.773	83	1/4 acre lots, 38% imp, HSG C
0.479		62.00% Pervious Area
0.294		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
1.6	100	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
4.2	300	0.0035	1.20		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
18.9	450	Total			

Subcatchment 58S: 38



Summary for Subcatchment 61S: 40

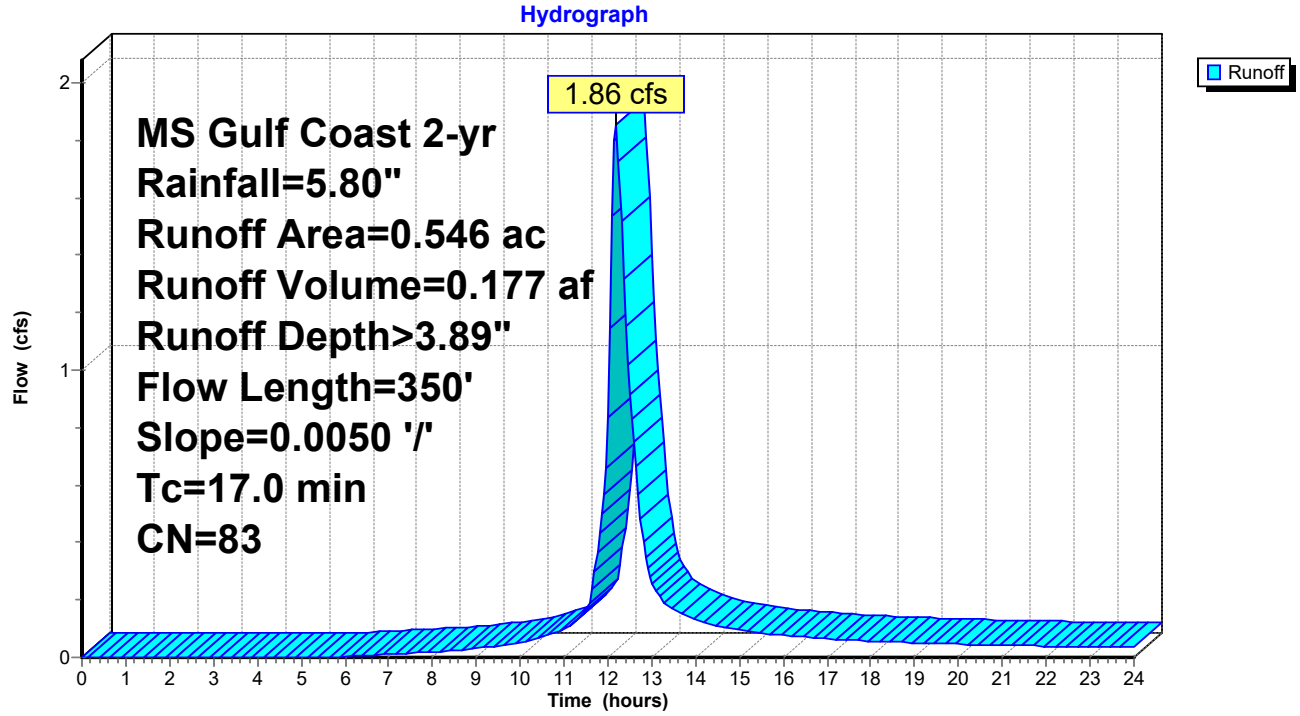
Runoff = 1.86 cfs @ 12.19 hrs, Volume= 0.177 af, Depth> 3.89"
Routed to Pond 59P : ci43

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
0.546	83	1/4 acre lots, 38% imp, HSG C
0.339		62.00% Pervious Area
0.207		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
1.6	100	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
2.3	200	0.0050	1.44		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
17.0	350	Total			

Subcatchment 61S: 40



Summary for Subcatchment 62S: 41

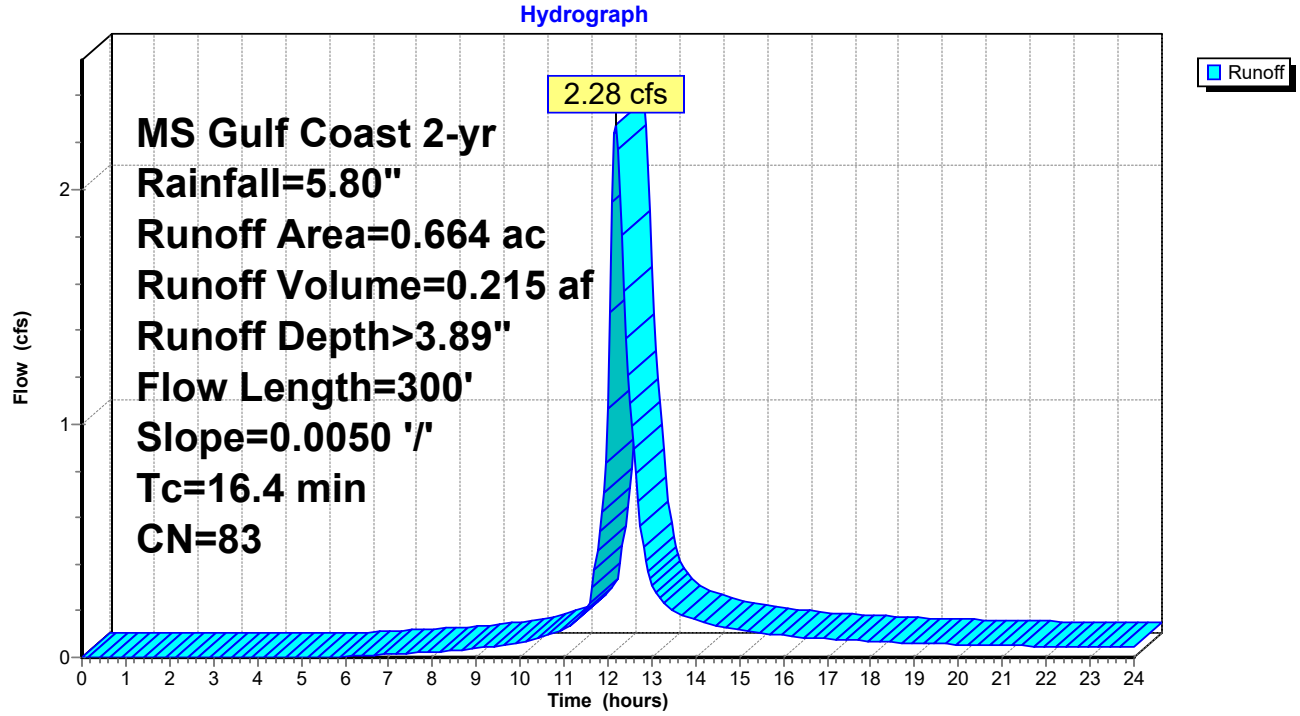
Runoff = 2.28 cfs @ 12.18 hrs, Volume= 0.215 af, Depth> 3.89"
Routed to Pond 60P : ci44

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
0.664	83	1/4 acre lots, 38% imp, HSG C
0.412		62.00% Pervious Area
0.252		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
1.6	100	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
1.7	150	0.0050	1.44		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
16.4	300	Total			

Subcatchment 62S: 41



Summary for Subcatchment 65S: 36

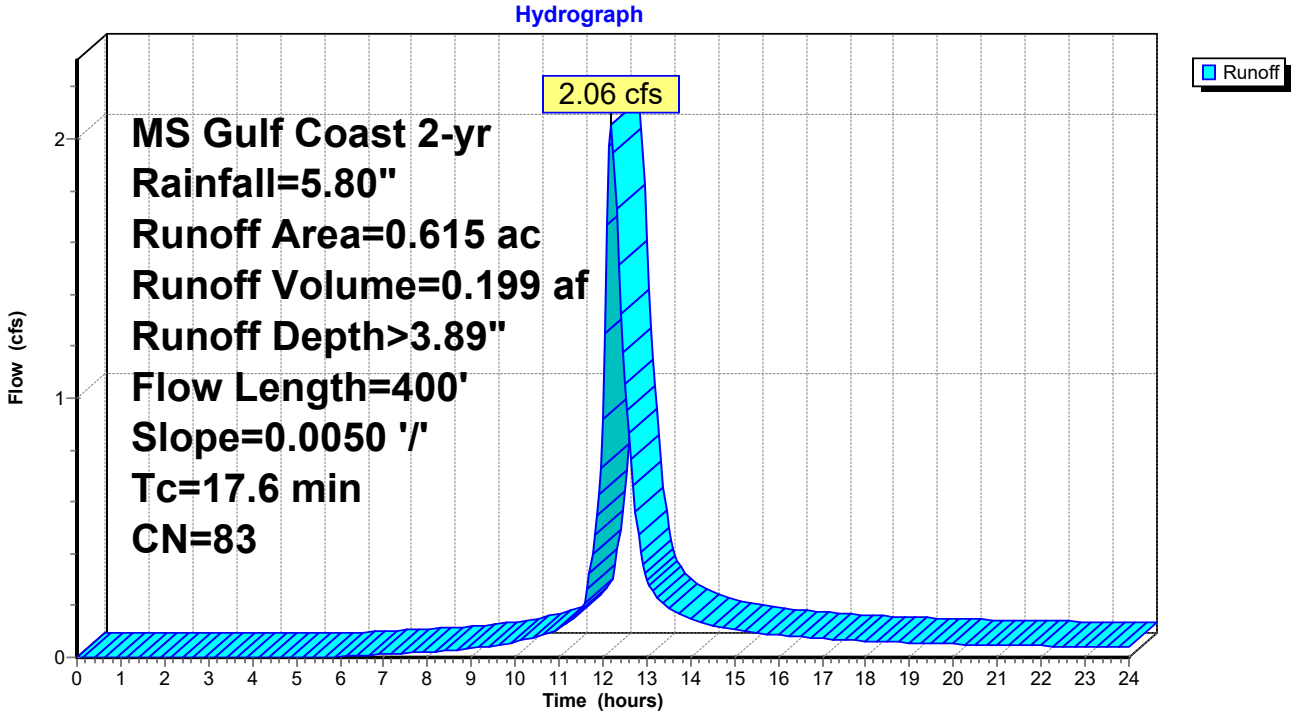
Runoff = 2.06 cfs @ 12.20 hrs, Volume= 0.199 af, Depth> 3.89"
Routed to Pond 63P : ci18

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
0.615	83	1/4 acre lots, 38% imp, HSG C
0.381		62.00% Pervious Area
0.234		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
1.6	100	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
2.9	250	0.0050	1.44		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
17.6	400	Total			

Subcatchment 65S: 36



Summary for Subcatchment 66S: 35

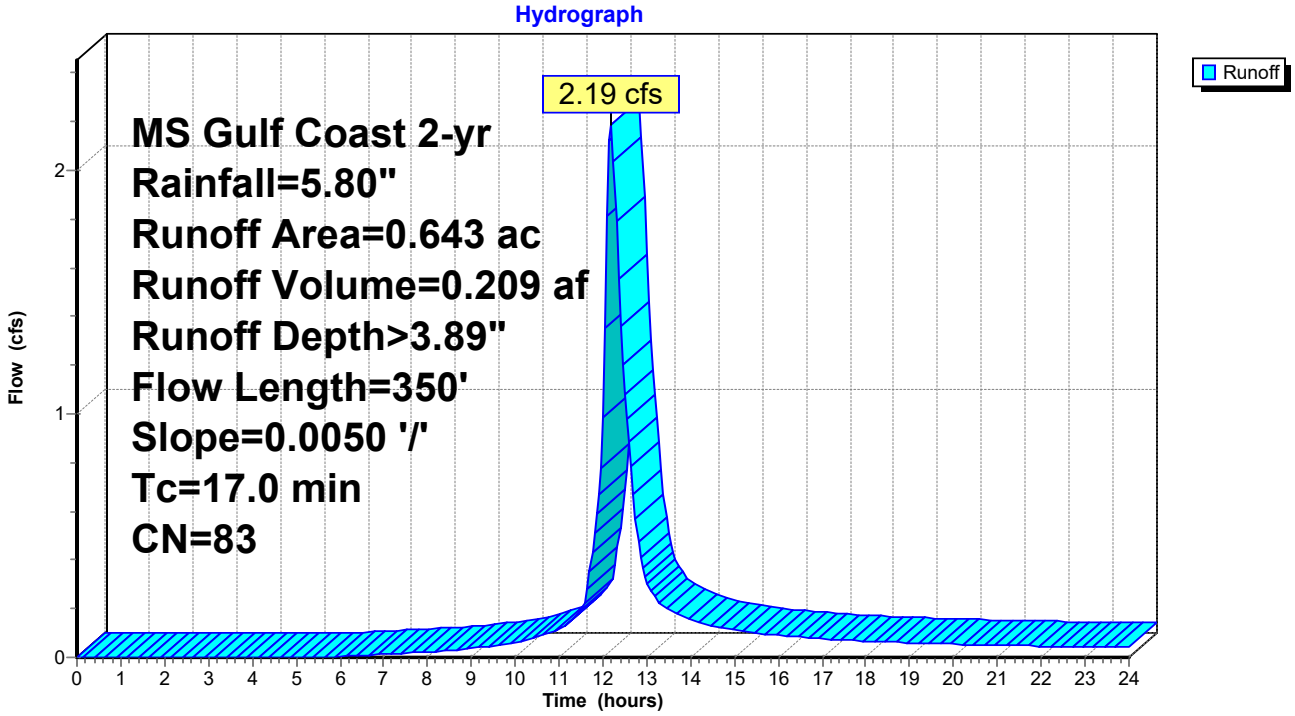
Runoff = 2.19 cfs @ 12.19 hrs, Volume= 0.209 af, Depth> 3.89"
Routed to Pond 64P : ci19

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
0.643	83	1/4 acre lots, 38% imp, HSG C
0.399		62.00% Pervious Area
0.244		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
1.6	100	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
2.3	200	0.0050	1.44		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
17.0	350	Total			

Subcatchment 66S: 35



Summary for Subcatchment 68S: 34+43

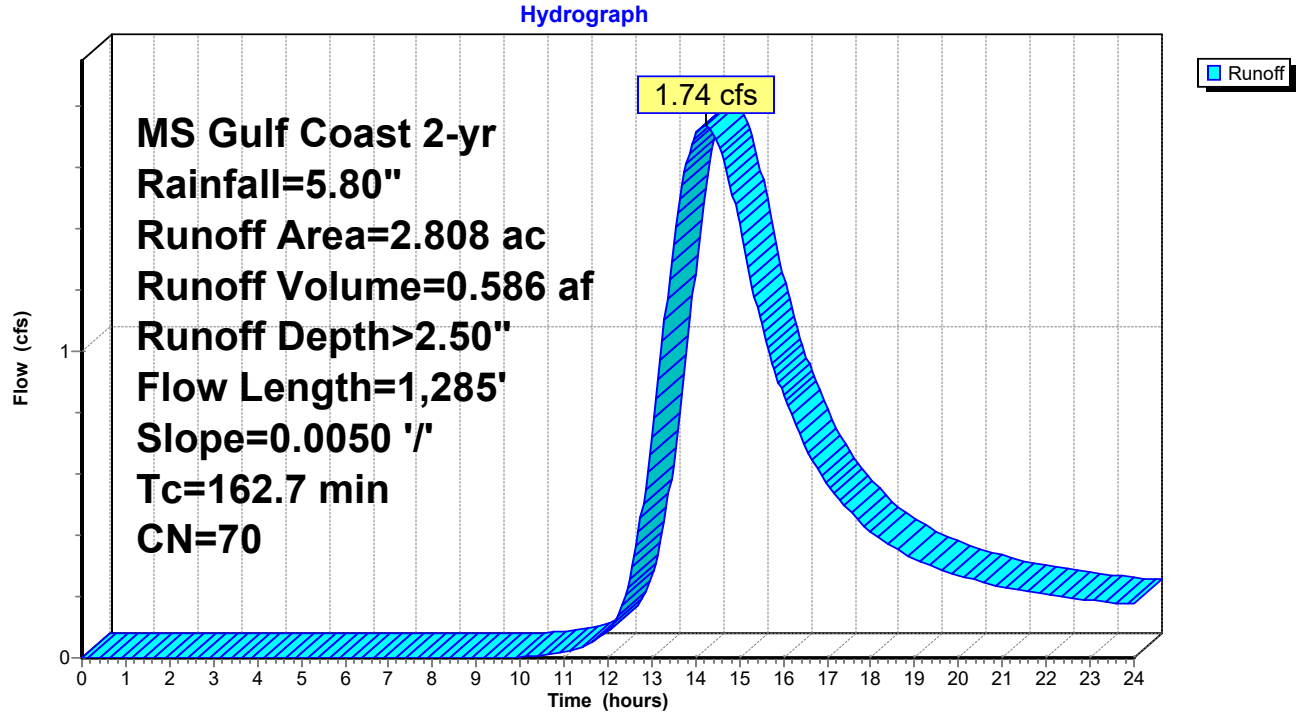
Runoff = 1.74 cfs @ 14.25 hrs, Volume= 0.586 af, Depth> 2.50"
Routed to Pond 67P : ci11

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
2.808	70	Woods, Good, HSG C
2.808		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
20.0	85	0.0050	0.07		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
34.3	50	0.0050	0.02		**Sheet Flow,** Woods: Dense underbrush n= 0.800 P2= 3.81"
108.4	1,150	0.0050	0.18		**Shallow Concentrated Flow,** Forest w/Heavy Litter Kv= 2.5 fps
162.7	1,285	Total			

Subcatchment 68S: 34+43



Summary for Subcatchment 69S: 43+56

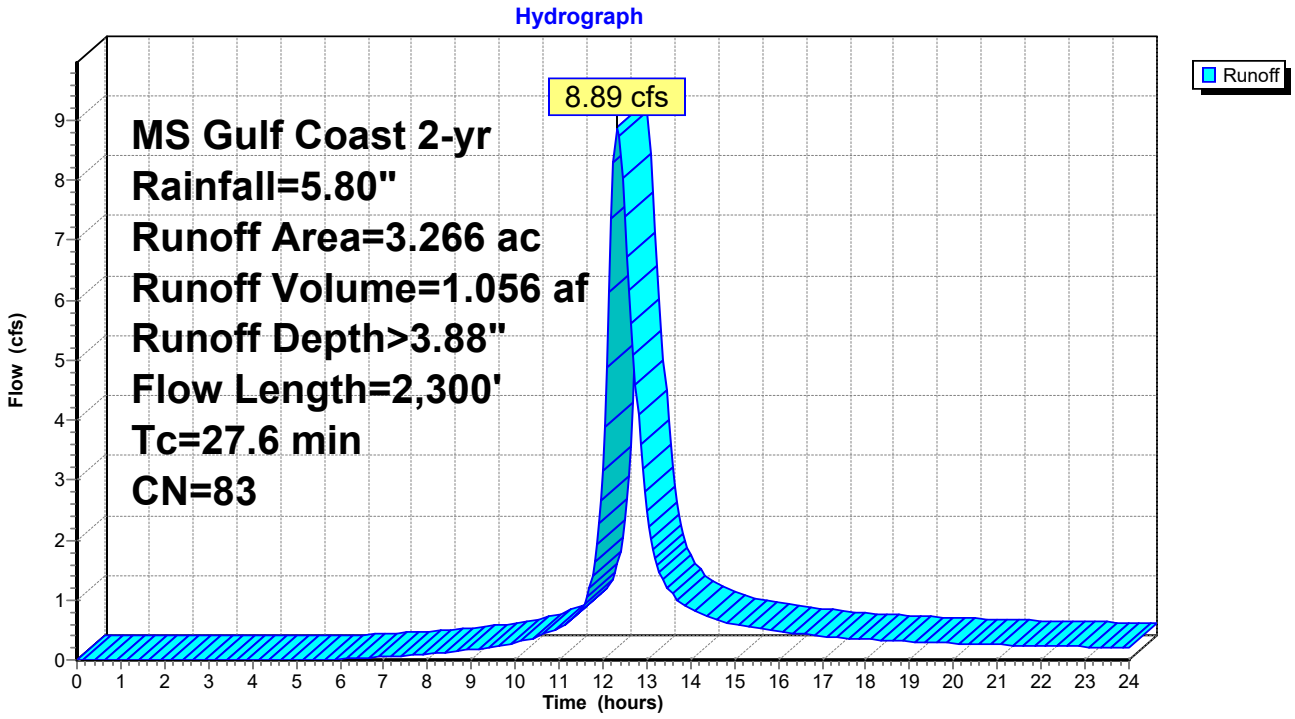
Runoff = 8.89 cfs @ 12.33 hrs, Volume= 1.056 af, Depth> 3.88"
Routed to Pond 77P : ci29a

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
3.266	83	1/4 acre lots, 38% imp, HSG C
2.025		62.00% Pervious Area
1.241		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
0.8	50	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
13.7	2,200	0.0025	2.68	17.93	**Channel Flow,** Area= 6.7 sf Perim= 9.5' r= 0.71' n= 0.022 Earth, clean & straight
27.6	2,300	Total			

Subcatchment 69S: 43+56



Summary for Subcatchment 75S: 33

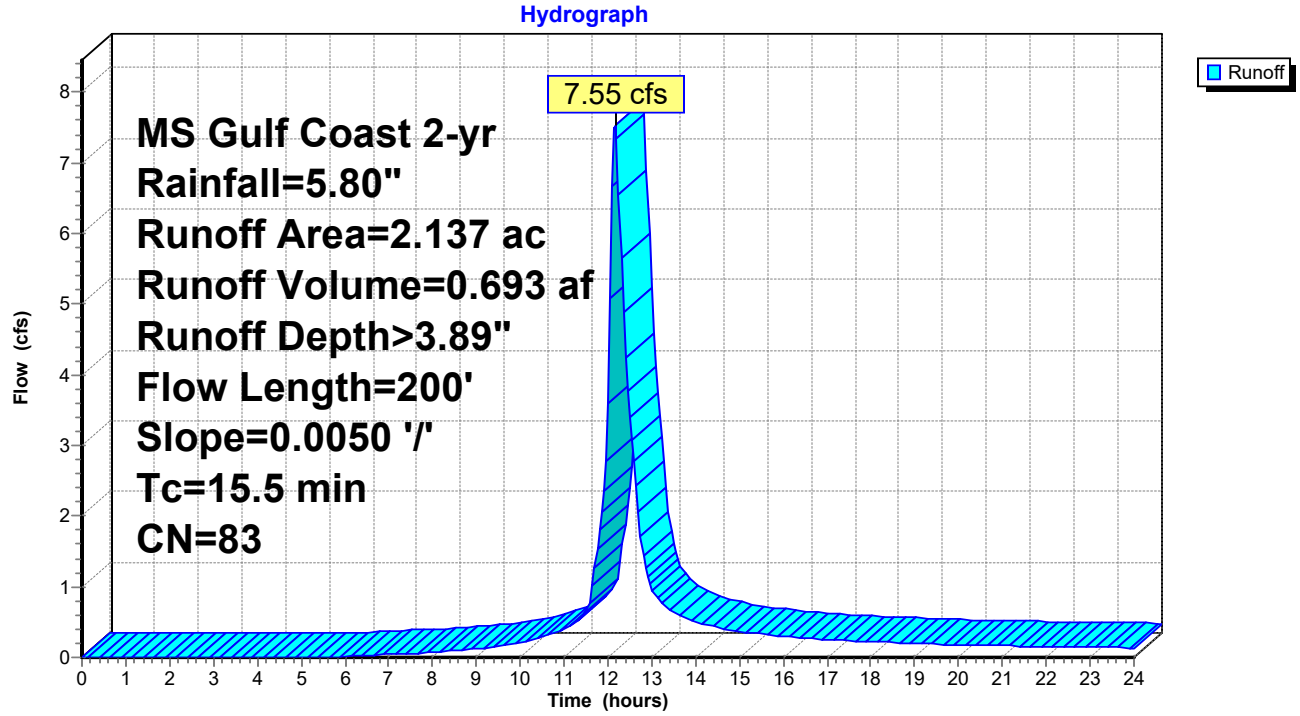
Runoff = 7.55 cfs @ 12.17 hrs, Volume= 0.693 af, Depth> 3.89"
Routed to Pond 74P : ci22

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
2.137	83	1/4 acre lots, 38% imp, HSG C
1.325		62.00% Pervious Area
0.812		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
0.8	50	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
1.6	100	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
15.5	200	Total			

Subcatchment 75S: 33



Summary for Subcatchment 76S: 32

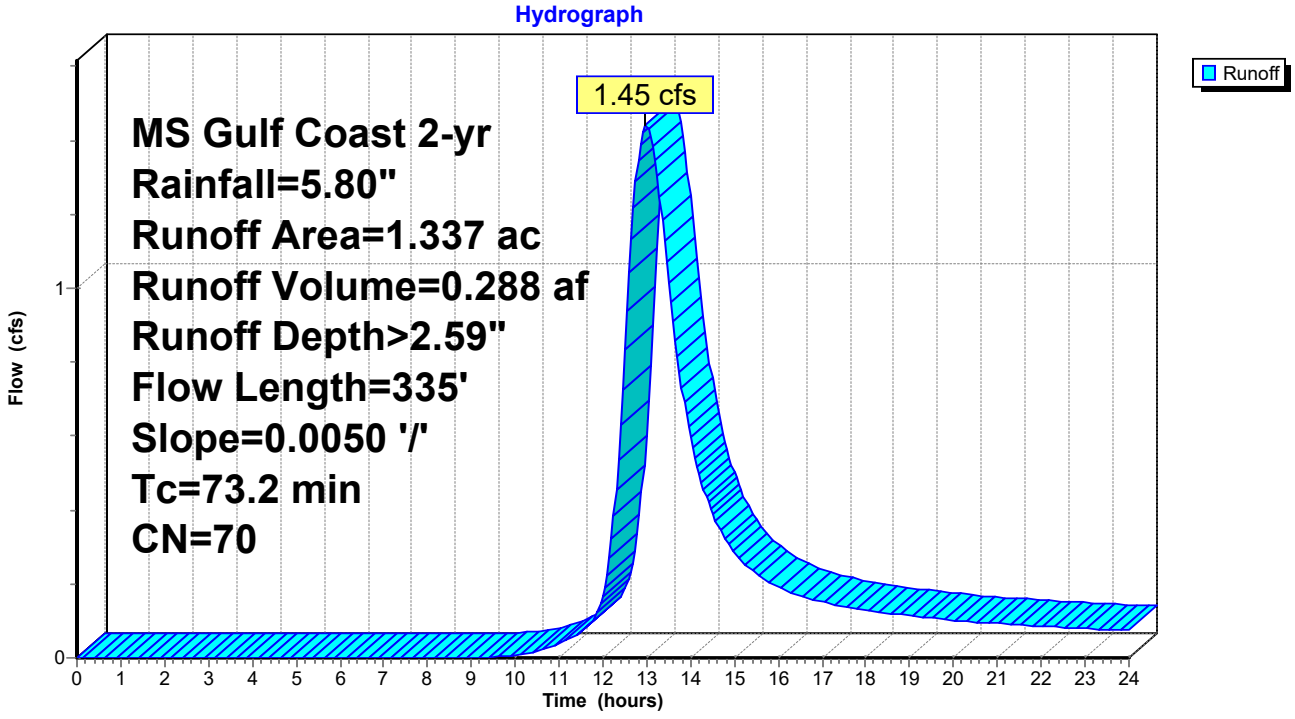
Runoff = 1.45 cfs @ 12.98 hrs, Volume= 0.288 af, Depth> 2.59"
Routed to Pond 84P : ci23a

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
1.337	70	Woods, Good, HSG C
1.337		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
20.0	85	0.0050	0.07		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
34.3	50	0.0050	0.02		**Sheet Flow,** Woods: Dense underbrush n= 0.800 P2= 3.81"
18.9	200	0.0050	0.18		**Shallow Concentrated Flow,** Forest w/Heavy Litter Kv= 2.5 fps
73.2	335	Total			

Subcatchment 76S: 32



Summary for Subcatchment 80S: 44

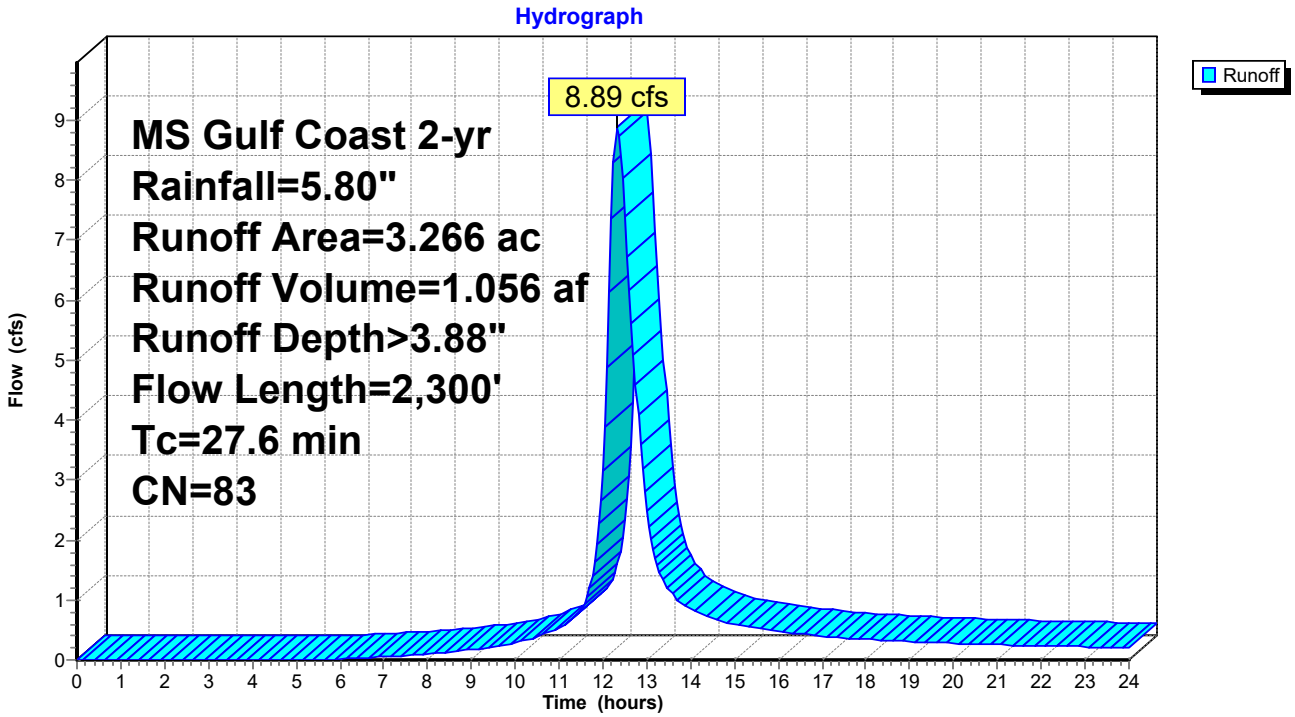
Runoff = 8.89 cfs @ 12.33 hrs, Volume= 1.056 af, Depth> 3.88"
Routed to Pond 78P : ci48

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
3.266	83	1/4 acre lots, 38% imp, HSG C
2.025		62.00% Pervious Area
1.241		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
0.8	50	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
13.7	2,200	0.0025	2.68	17.93	**Channel Flow,** Area= 6.7 sf Perim= 9.5' r= 0.71' n= 0.022 Earth, clean & straight
27.6	2,300	Total			

Subcatchment 80S: 44



Summary for Subcatchment 81S: 44

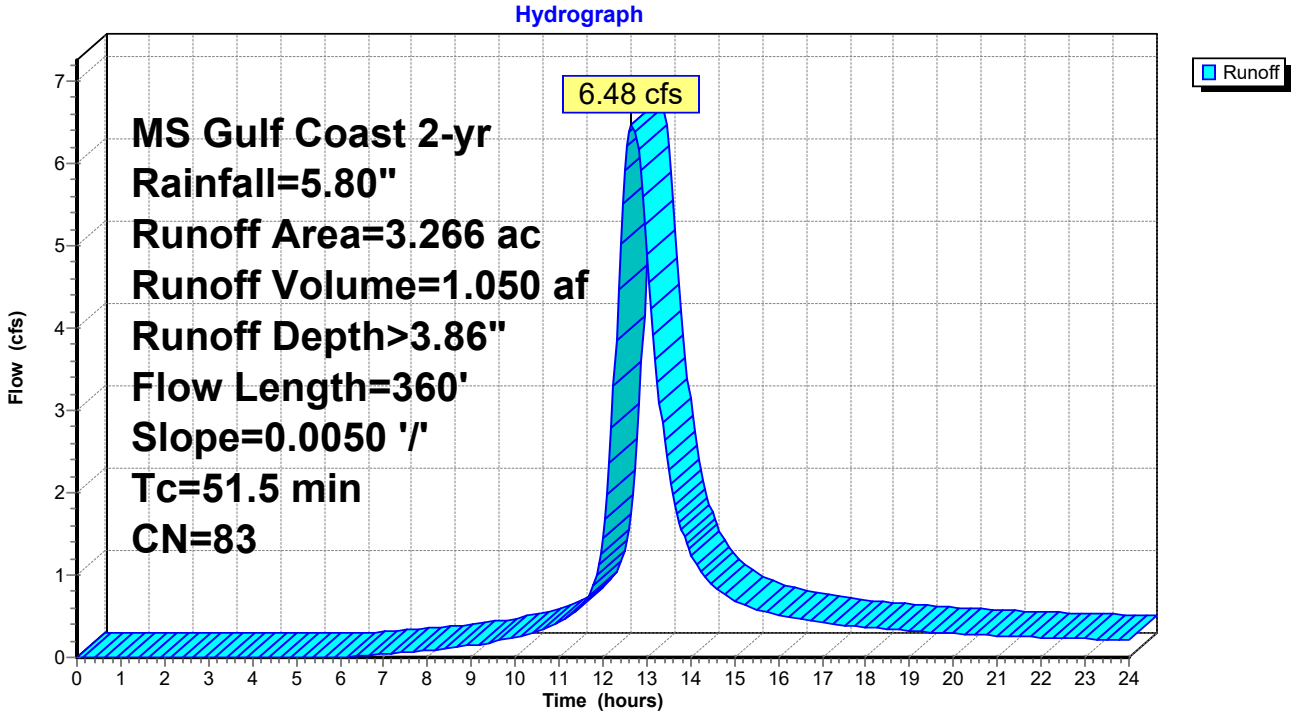
Runoff = 6.48 cfs @ 12.66 hrs, Volume= 1.050 af, Depth> 3.86"
Routed to Pond 79P : ci49

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
3.266	83	1/4 acre lots, 38% imp, HSG C
2.025		62.00% Pervious Area
1.241		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
4.1	260	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
34.3	50	0.0050	0.02		**Sheet Flow,** Woods: Dense underbrush n= 0.800 P2= 3.81"
51.5	360	Total			

Subcatchment 81S: 44



Summary for Subcatchment 85S: 24

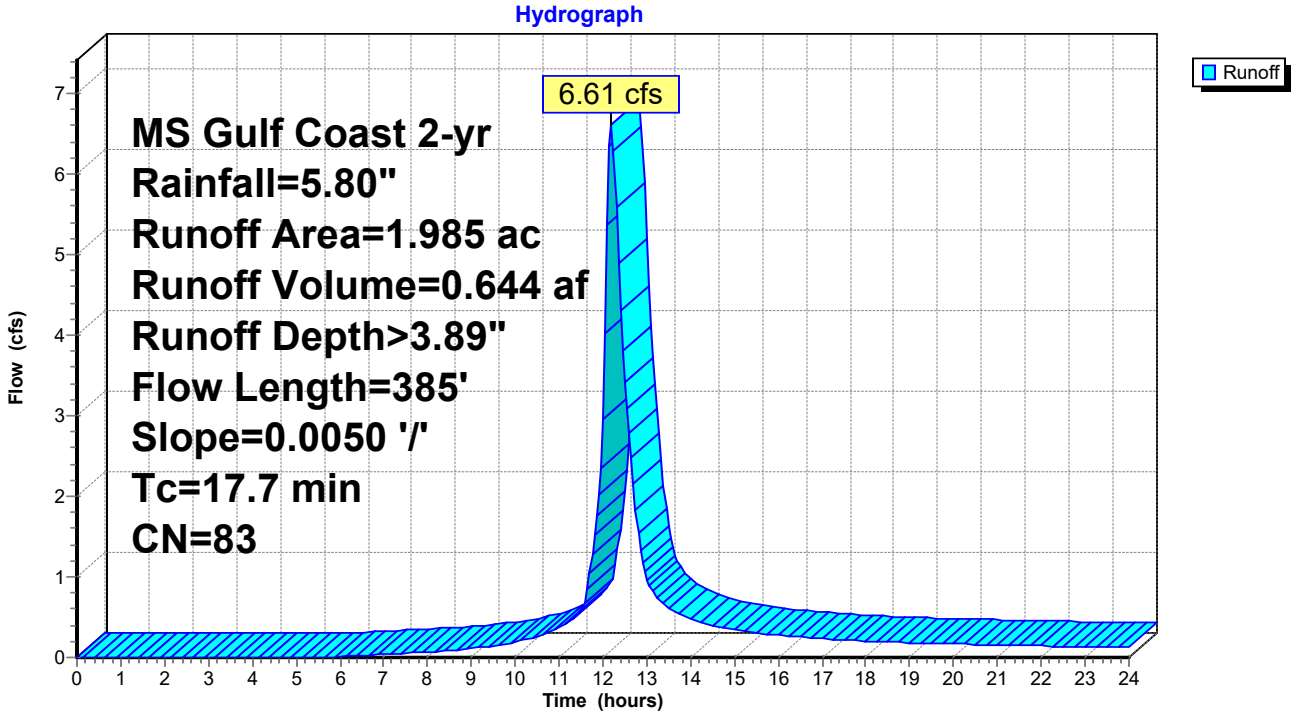
Runoff = 6.61 cfs @ 12.20 hrs, Volume= 0.644 af, Depth> 3.89"
Routed to Pond 83P : ci17

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
1.985	83	1/4 acre lots, 38% imp, HSG C
1.231		62.00% Pervious Area
0.754		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
1.3	85	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
1.7	150	0.0050	1.44		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.6	100	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
17.7	385	Total			

Subcatchment 85S: 24



Summary for Subcatchment 86S: 27

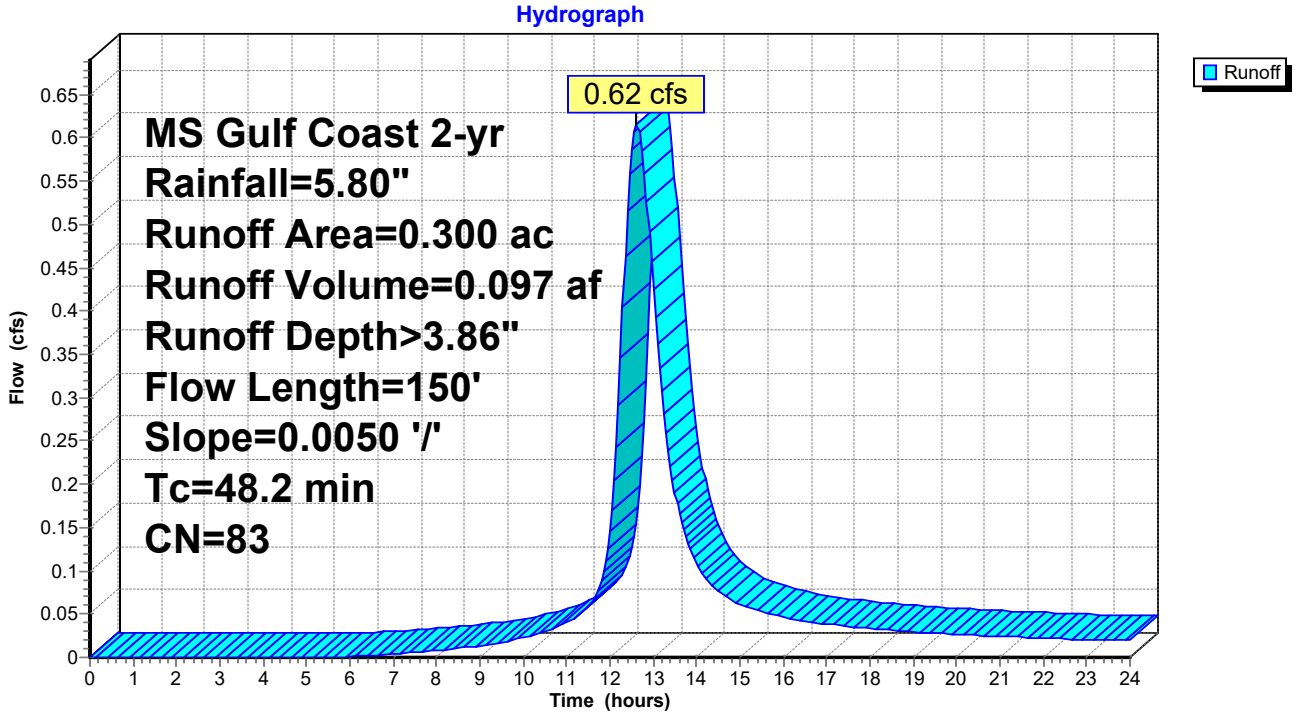
Runoff = 0.62 cfs @ 12.61 hrs, Volume= 0.097 af, Depth> 3.86"
Routed to Pond 82P : ci15

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
0.300	83	1/4 acre lots, 38% imp, HSG C
0.186		62.00% Pervious Area
0.114		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
0.8	50	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
34.3	50	0.0050	0.02		**Sheet Flow,** Woods: Dense underbrush n= 0.800 P2= 3.81"
48.2	150	Total			

Subcatchment 86S: 27



Summary for Subcatchment 88S: 25

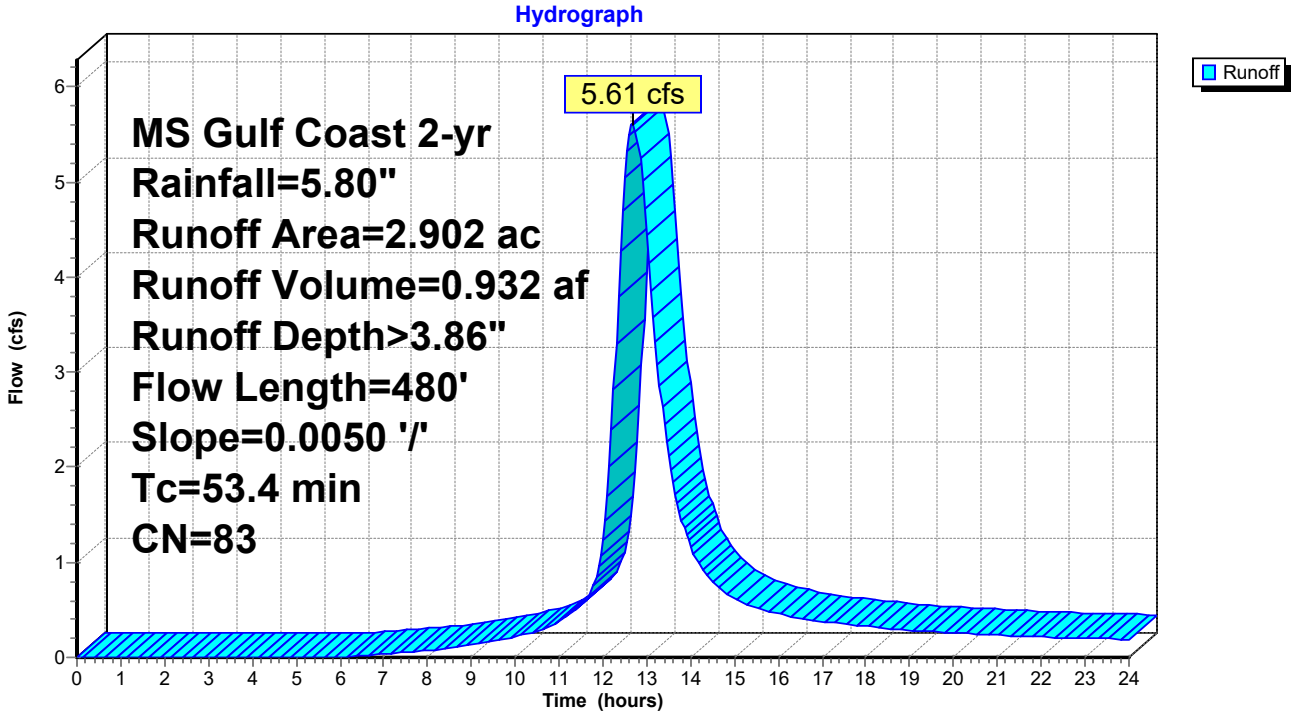
Runoff = 5.61 cfs @ 12.68 hrs, Volume= 0.932 af, Depth> 3.86"
Routed to Pond 87P : ci50

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
2.902	83	1/4 acre lots, 38% imp, HSG C
1.799		62.00% Pervious Area
1.103		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
6.0	380	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
34.3	50	0.0050	0.02		**Sheet Flow,** Woods: Dense underbrush n= 0.800 P2= 3.81"
53.4	480	Total			

Subcatchment 88S: 25



Summary for Subcatchment 90S: 19

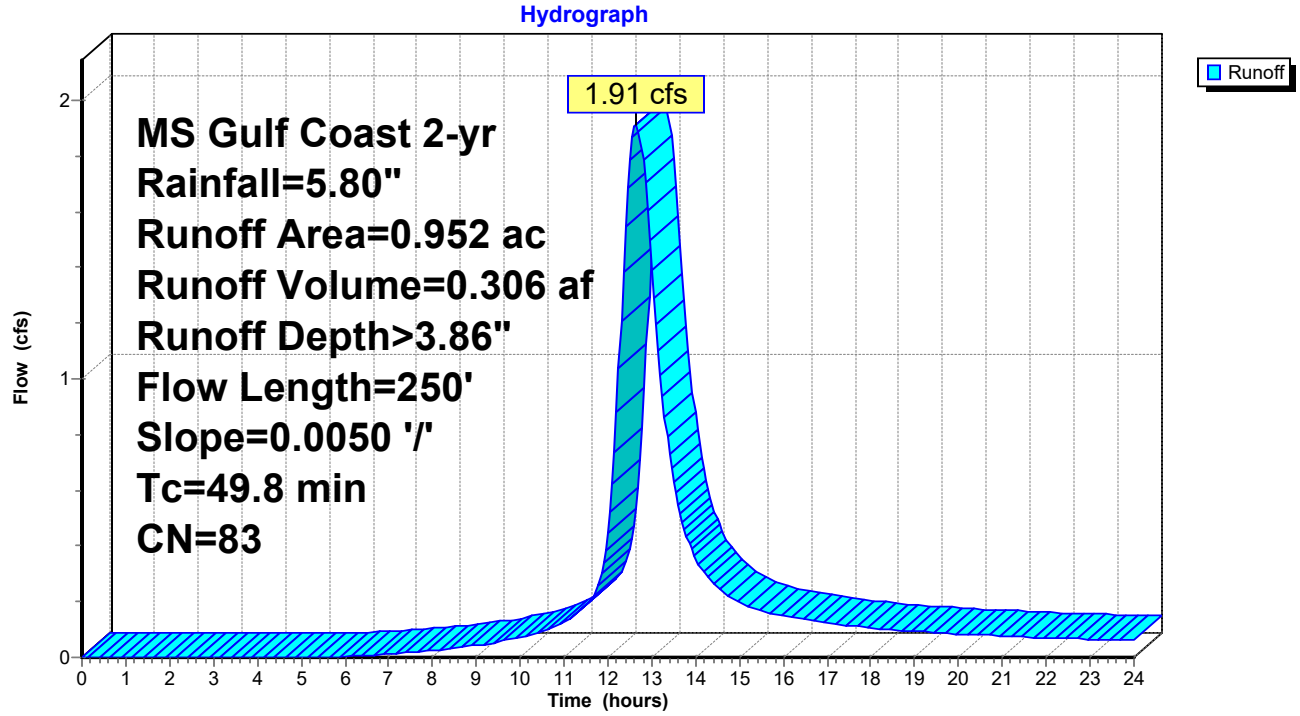
Runoff = 1.91 cfs @ 12.64 hrs, Volume= 0.306 af, Depth> 3.86"
Routed to Pond 89P : ci58

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
0.952	83	1/4 acre lots, 38% imp, HSG C
0.590		62.00% Pervious Area
0.362		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
2.4	150	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
34.3	50	0.0050	0.02		**Sheet Flow,** Woods: Dense underbrush n= 0.800 P2= 3.81"
49.8	250	Total			

Subcatchment 90S: 19



Summary for Subcatchment 93S: 18

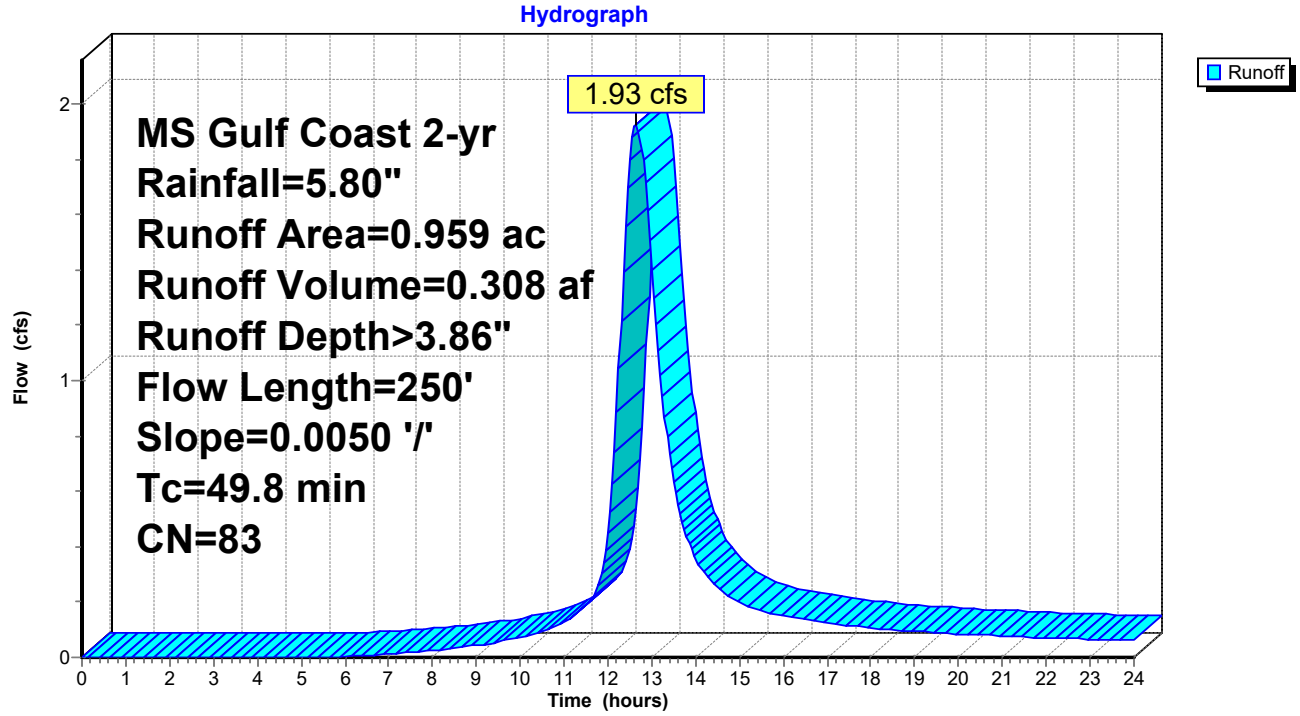
Runoff = 1.93 cfs @ 12.64 hrs, Volume= 0.308 af, Depth> 3.86"
Routed to Pond 91P : ci51

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
0.959	83	1/4 acre lots, 38% imp, HSG C
0.595		62.00% Pervious Area
0.364		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
2.4	150	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
34.3	50	0.0050	0.02		**Sheet Flow,** Woods: Dense underbrush n= 0.800 P2= 3.81"
49.8	250	Total			

Subcatchment 93S: 18



Summary for Subcatchment 94S: 16

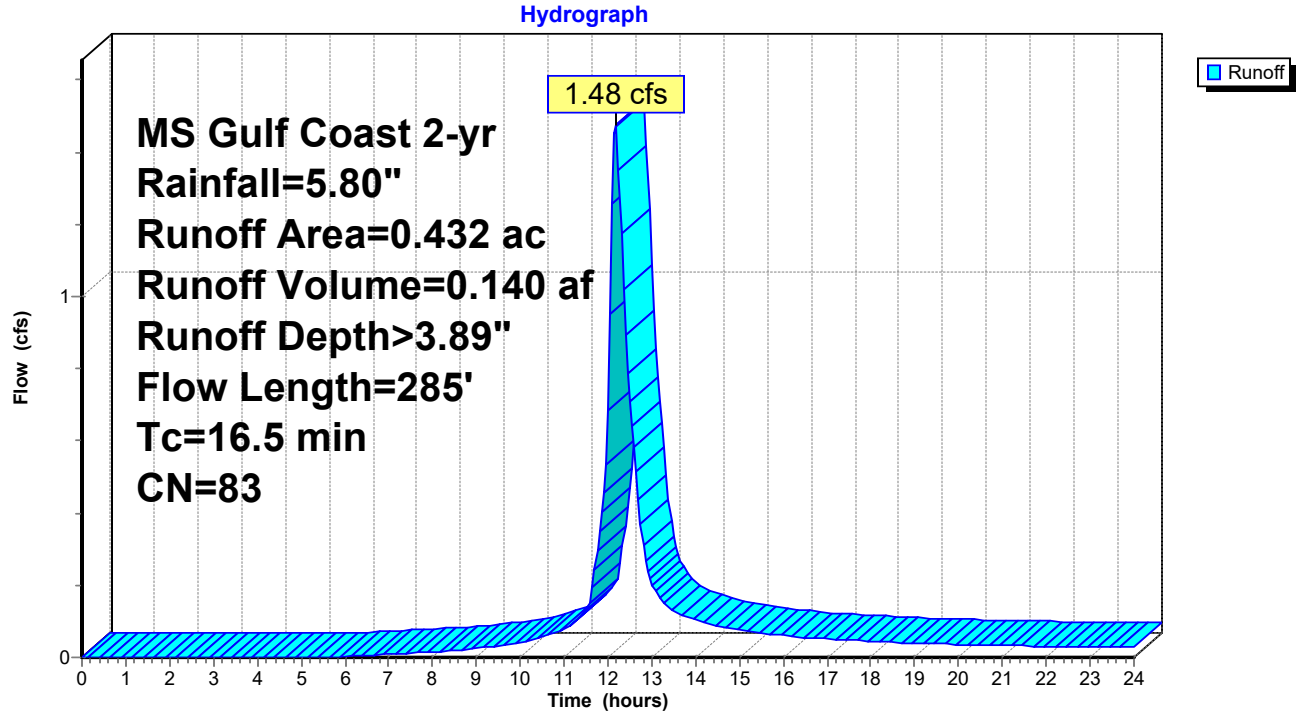
Runoff = 1.48 cfs @ 12.18 hrs, Volume= 0.140 af, Depth> 3.89"
Routed to Pond 92P : ci52

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
0.432	83	1/4 acre lots, 38% imp, HSG C
0.268		62.00% Pervious Area
0.164		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
1.3	85	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
2.1	150	0.0035	1.20		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
16.5	285	Total			

Subcatchment 94S: 16



Summary for Subcatchment 96S: 14

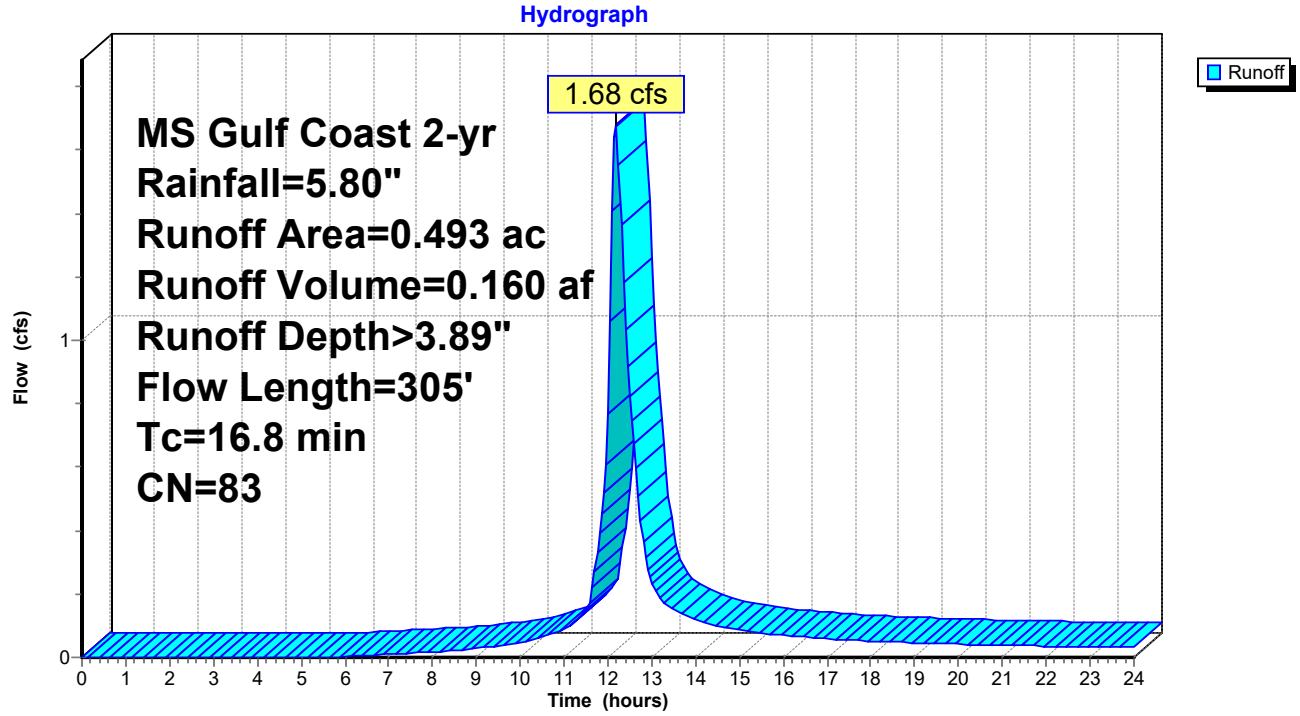
Runoff = 1.68 cfs @ 12.19 hrs, Volume= 0.160 af, Depth> 3.89"
Routed to Pond 95P : ci55

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
0.493	83	1/4 acre lots, 38% imp, HSG C
0.306		62.00% Pervious Area
0.187		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
1.3	85	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
2.4	170	0.0035	1.20		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
16.8	305	Total			

Subcatchment 96S: 14



Summary for Subcatchment 101S: 13

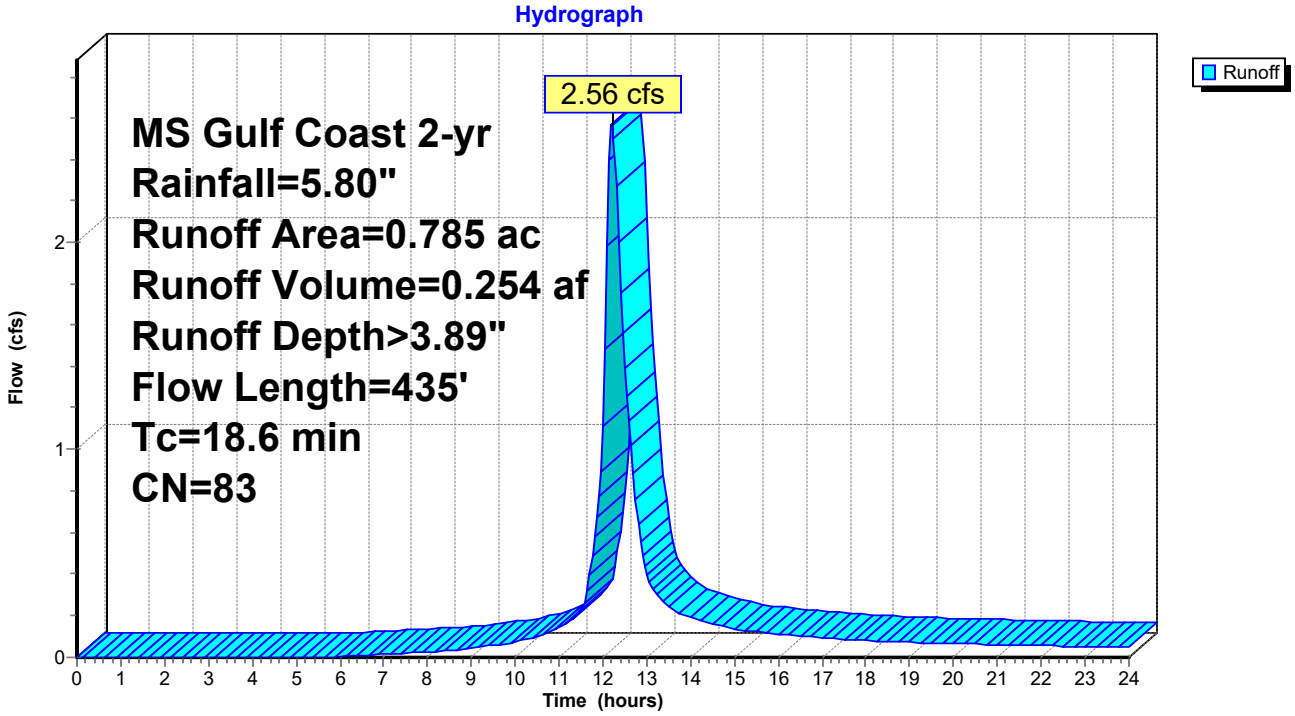
Runoff = 2.56 cfs @ 12.21 hrs, Volume= 0.254 af, Depth> 3.89"
Routed to Pond 98P : ci56

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
0.785	83	1/4 acre lots, 38% imp, HSG C
0.487		62.00% Pervious Area
0.298		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
1.3	85	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
4.2	300	0.0035	1.20		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
18.6	435	Total			

Subcatchment 101S: 13



Summary for Subcatchment 102S: 11

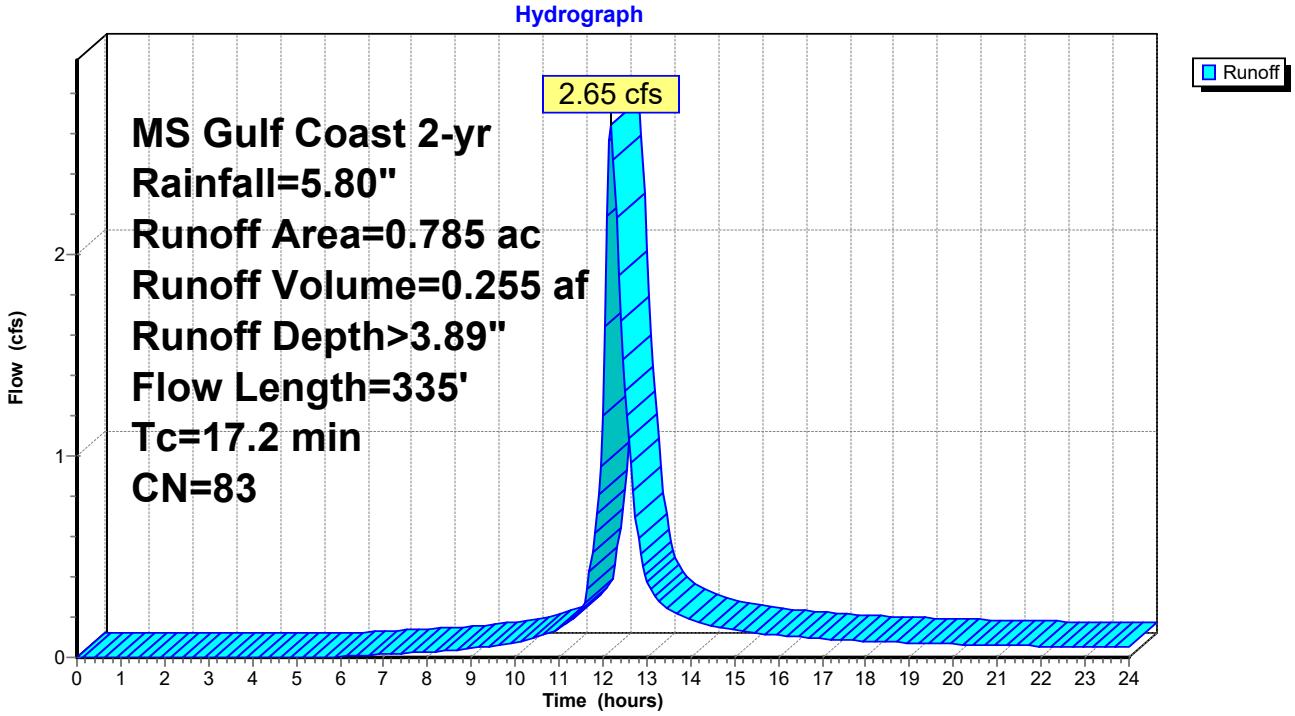
Runoff = 2.65 cfs @ 12.19 hrs, Volume= 0.255 af, Depth> 3.89"
Routed to Pond 97P : ci54

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
0.785	83	1/4 acre lots, 38% imp, HSG C
0.487		62.00% Pervious Area
0.298		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
1.3	85	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
2.8	200	0.0035	1.20		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
17.2	335	Total			

Subcatchment 102S: 11



Summary for Subcatchment 103S: 10

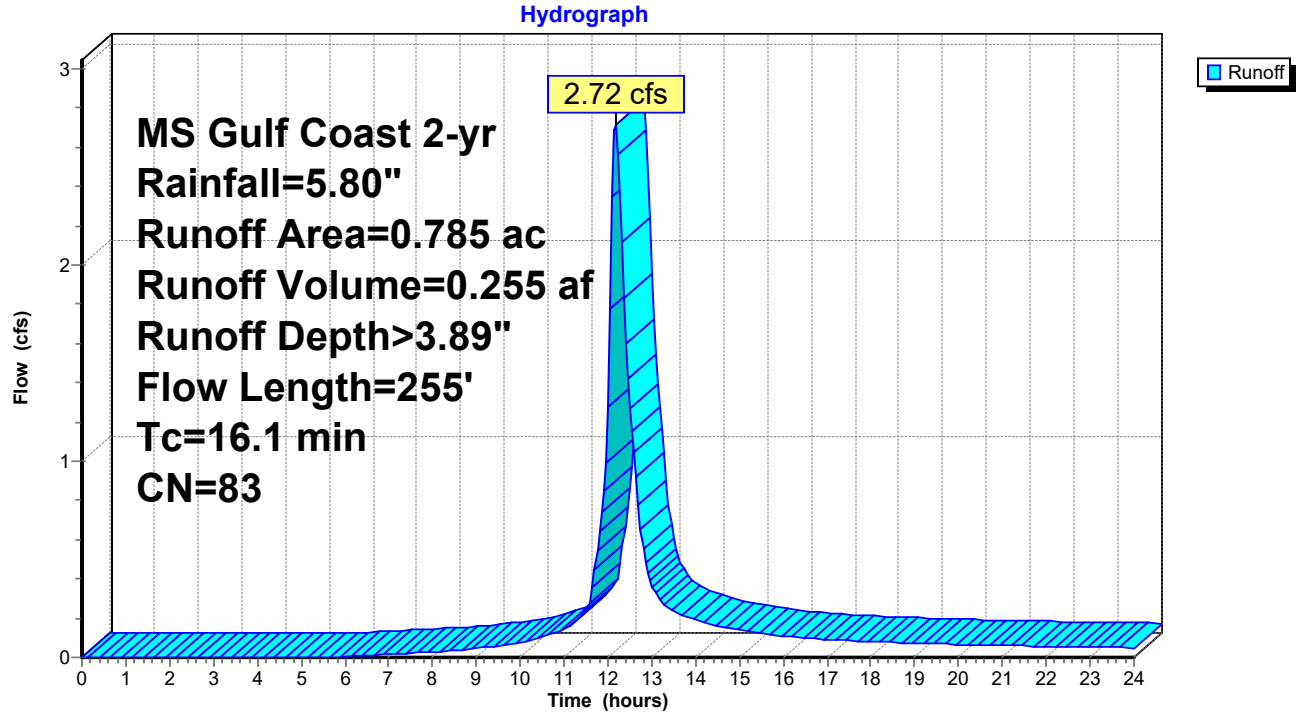
Runoff = 2.72 cfs @ 12.18 hrs, Volume= 0.255 af, Depth> 3.89"
Routed to Pond 100P : ci55

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
0.785	83	1/4 acre lots, 38% imp, HSG C
0.487		62.00% Pervious Area
0.298		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
1.3	85	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
1.7	120	0.0035	1.20		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
16.1	255	Total			

Subcatchment 103S: 10



Summary for Subcatchment 107S: 2a

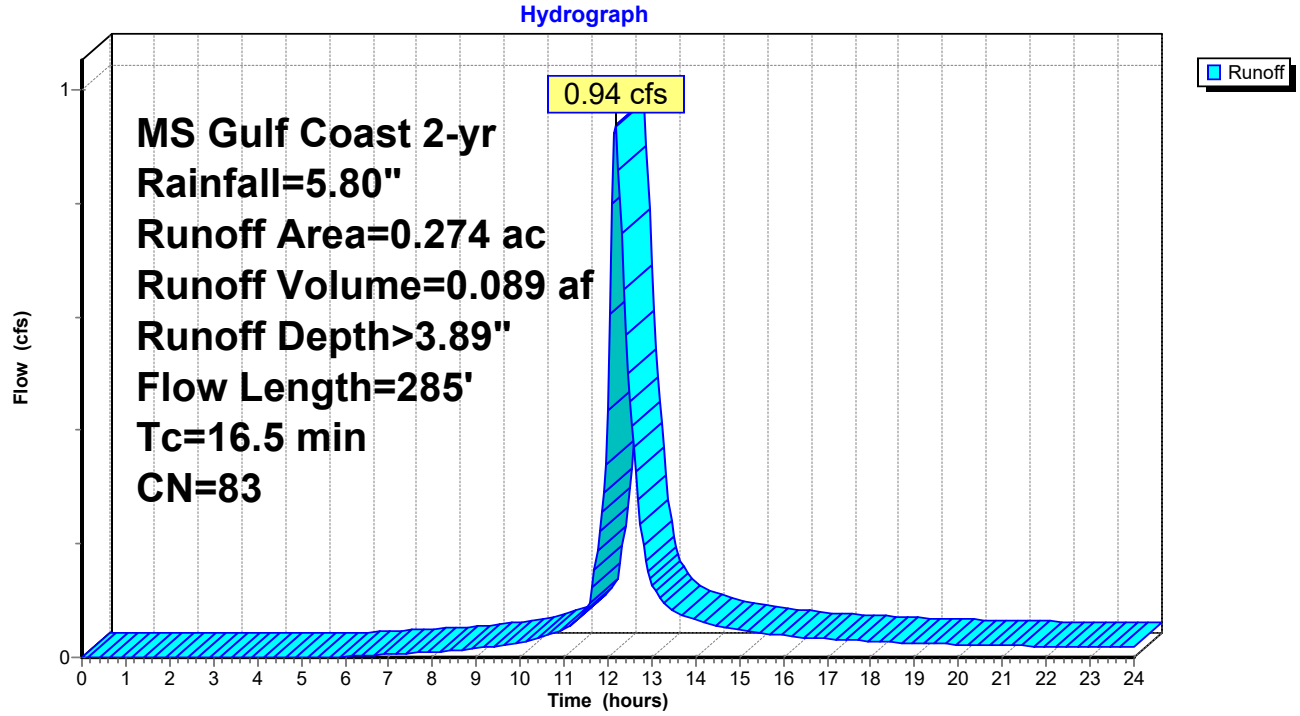
Runoff = 0.94 cfs @ 12.18 hrs, Volume= 0.089 af, Depth> 3.89"
Routed to Pond 104P : ci1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
0.274	83	1/4 acre lots, 38% imp, HSG C
0.170		62.00% Pervious Area
0.104		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
1.3	85	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
2.1	150	0.0035	1.20		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
16.5	285	Total			

Subcatchment 107S: 2a



Summary for Subcatchment 108S: 2

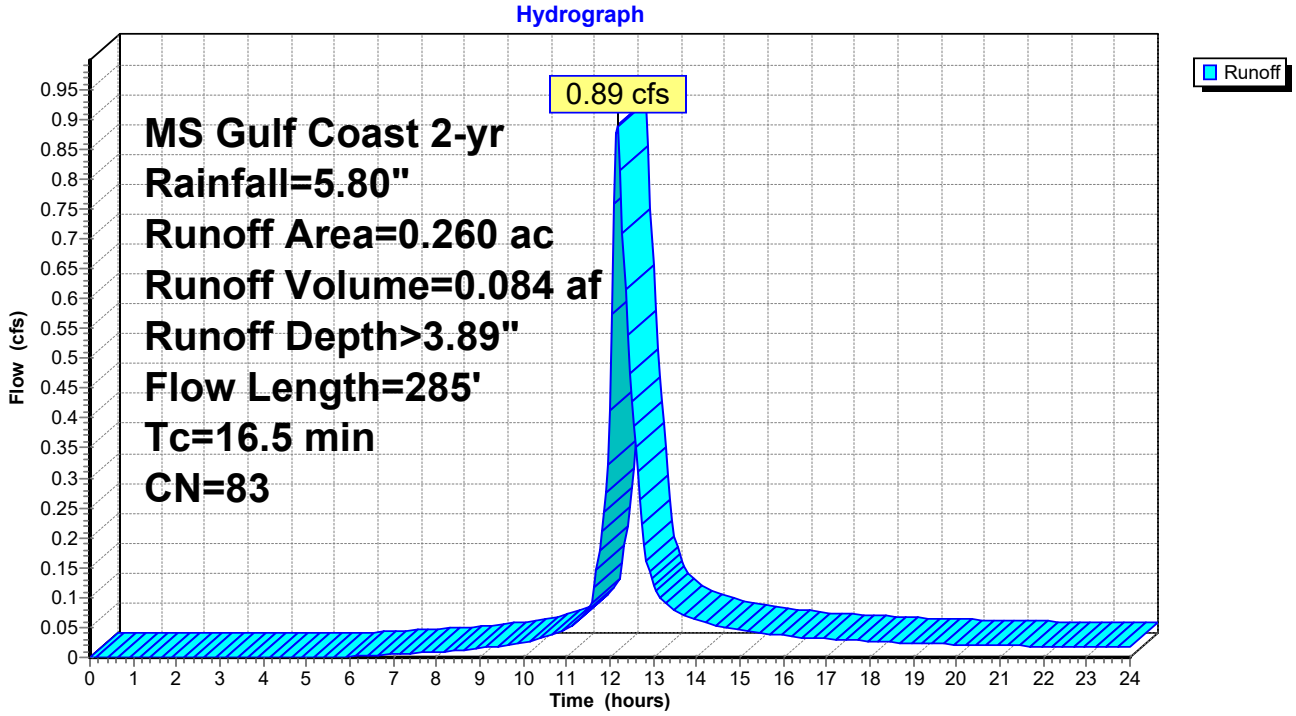
Runoff = 0.89 cfs @ 12.18 hrs, Volume= 0.084 af, Depth> 3.89"
Routed to Pond 105P : ci2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
0.260	83	1/4 acre lots, 38% imp, HSG C
0.161		62.00% Pervious Area
0.099		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
1.3	85	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
2.1	150	0.0035	1.20		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
16.5	285	Total			

Subcatchment 108S: 2



Summary for Subcatchment 109S: 3

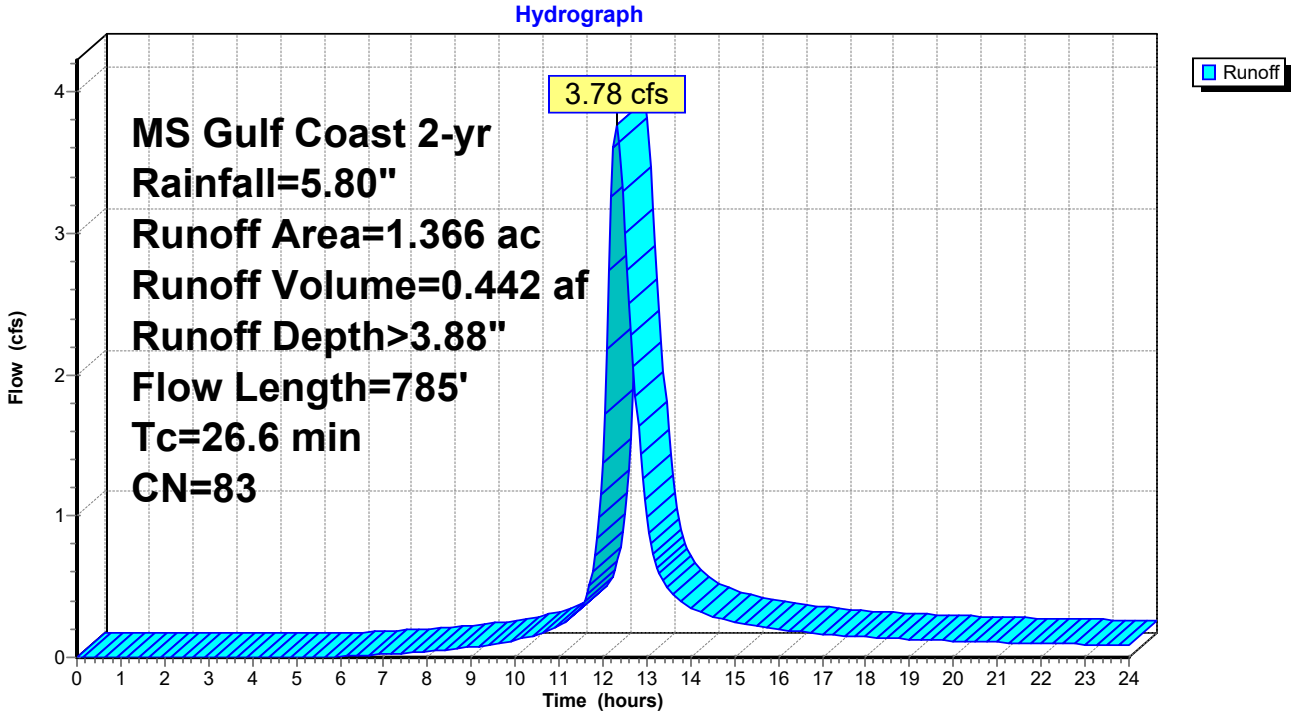
Runoff = 3.78 cfs @ 12.32 hrs, Volume= 0.442 af, Depth> 3.88"
Routed to Pond 105P : ci2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
1.366	83	1/4 acre lots, 38% imp, HSG C
0.847		62.00% Pervious Area
0.519		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
1.3	85	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
12.2	650	0.0035	0.89		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
26.6	785	Total			

Subcatchment 109S: 3



Summary for Subcatchment 112S: 6

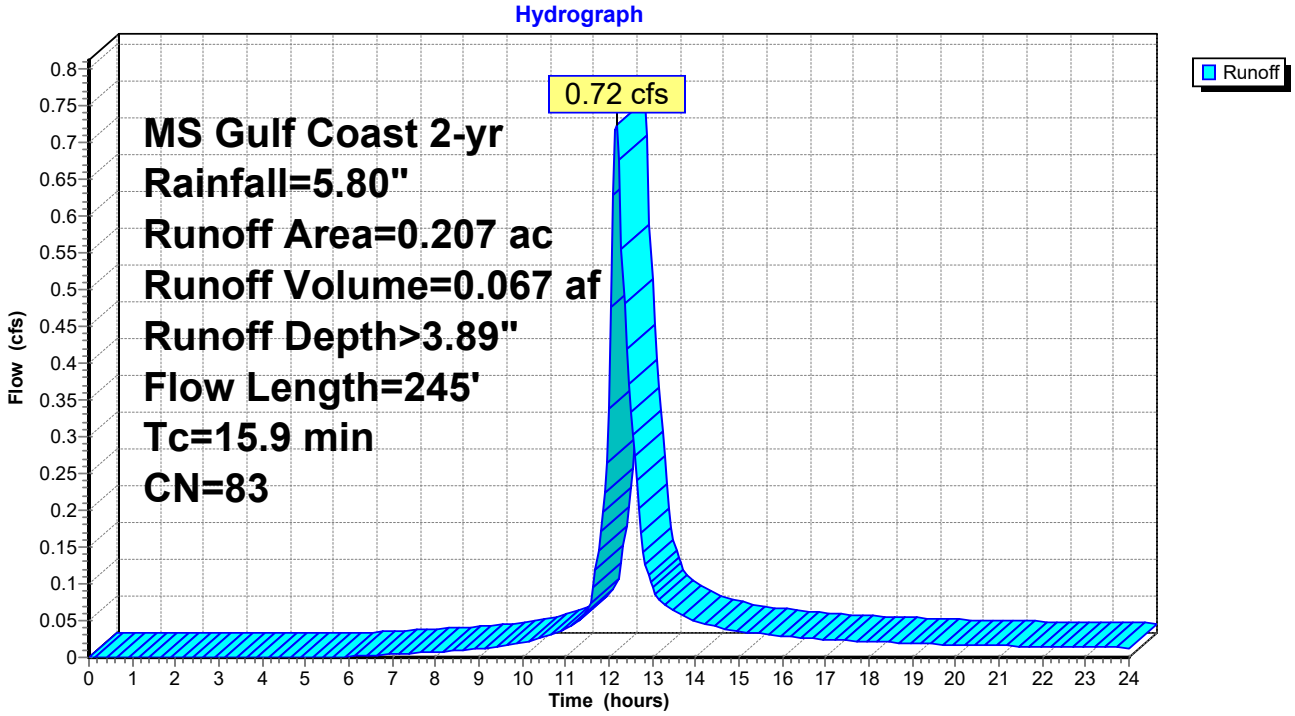
Runoff = 0.72 cfs @ 12.17 hrs, Volume= 0.067 af, Depth> 3.89"
Routed to Pond 111P : ci25a

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
0.207	83	1/4 acre lots, 38% imp, HSG C
0.128		62.00% Pervious Area
0.079		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
1.3	85	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
1.5	110	0.0035	1.20		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
15.9	245	Total			

Subcatchment 112S: 6



Summary for Subcatchment 113S: 5

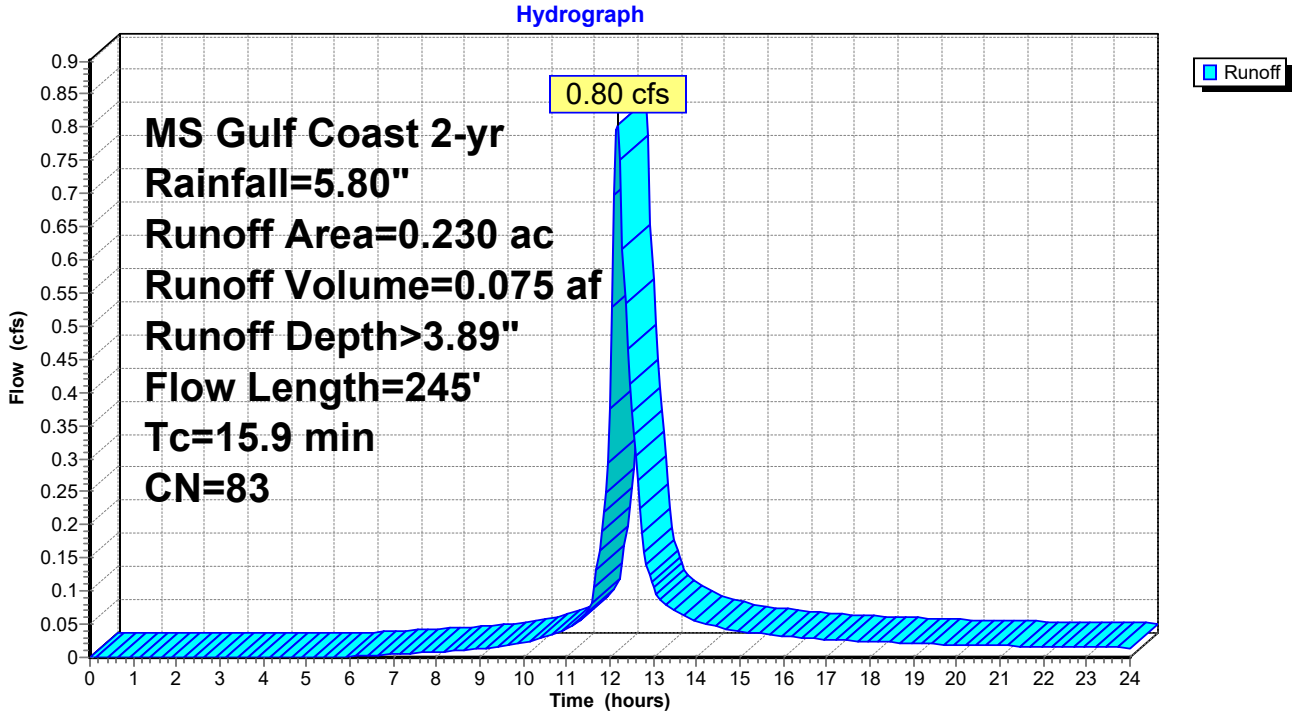
Runoff = 0.80 cfs @ 12.17 hrs, Volume= 0.075 af, Depth> 3.89"
Routed to Pond 110P : ci16a

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
0.230	83	1/4 acre lots, 38% imp, HSG C
0.143		62.00% Pervious Area
0.087		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
1.3	85	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
1.5	110	0.0035	1.20		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
15.9	245	Total			

Subcatchment 113S: 5



Summary for Subcatchment 114S: 7

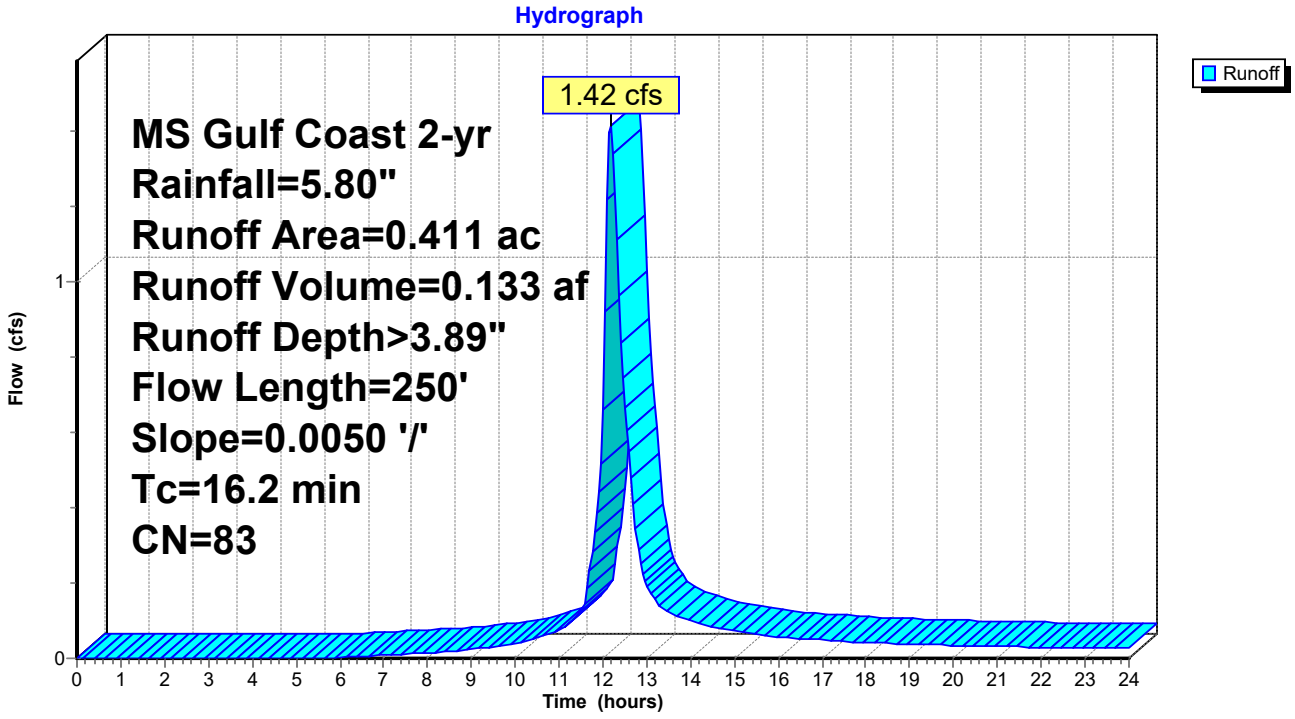
Runoff = 1.42 cfs @ 12.18 hrs, Volume= 0.133 af, Depth> 3.89"
Routed to Pond 111P : ci25a

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
0.411	83	1/4 acre lots, 38% imp, HSG C
0.255		62.00% Pervious Area
0.156		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
3.1	200	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
16.2	250	Total			

Subcatchment 114S: 7



Summary for Subcatchment 117S: 8

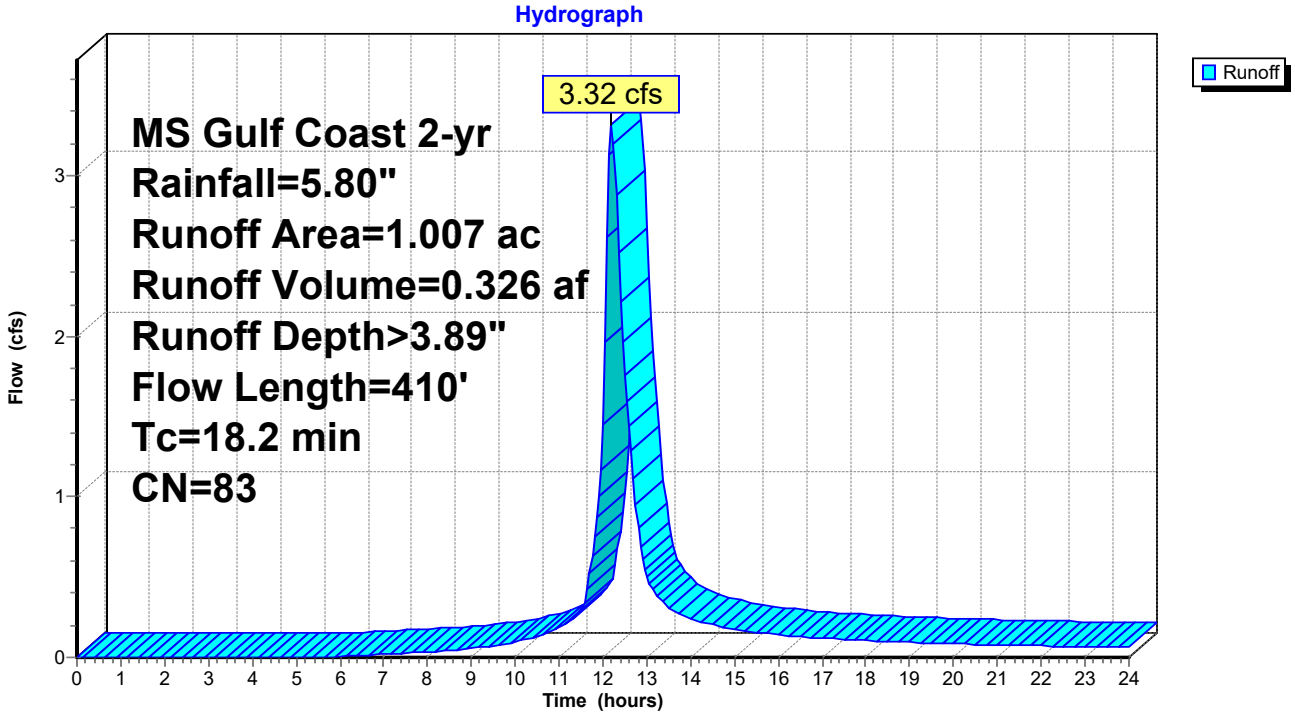
Runoff = 3.32 cfs @ 12.21 hrs, Volume= 0.326 af, Depth> 3.89"
Routed to Pond 115P : ci14

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
1.007	83	1/4 acre lots, 38% imp, HSG C
0.624		62.00% Pervious Area
0.383		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
1.3	85	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
3.8	275	0.0035	1.20		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
18.2	410	Total			

Subcatchment 117S: 8



Summary for Subcatchment 118S: 9

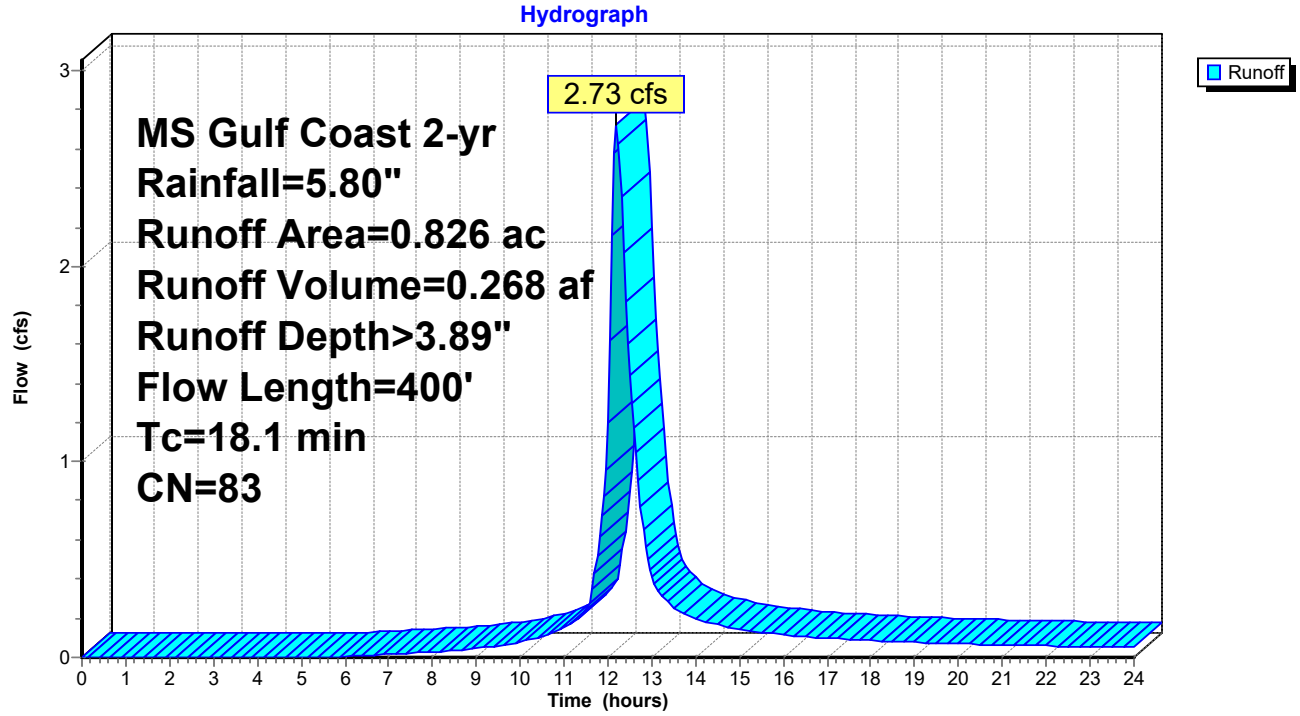
Runoff = 2.73 cfs @ 12.20 hrs, Volume= 0.268 af, Depth> 3.89"
Routed to Pond 116P : ci15

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
0.826	83	1/4 acre lots, 38% imp, HSG C
0.512		62.00% Pervious Area
0.314		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
1.3	85	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
3.7	265	0.0035	1.20		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
18.1	400	Total			

Subcatchment 118S: 9



Summary for Subcatchment 121S: 21

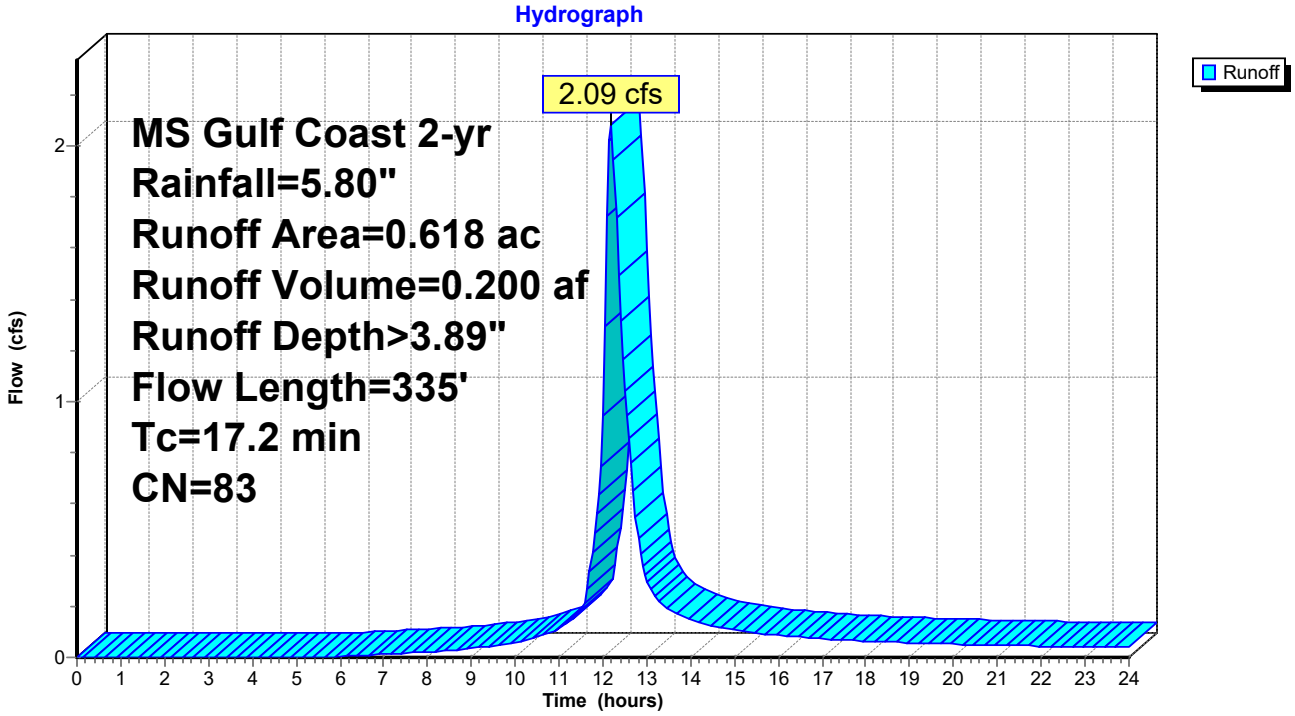
Runoff = 2.09 cfs @ 12.19 hrs, Volume= 0.200 af, Depth> 3.89"
Routed to Pond 120P : ci17

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
0.618	83	1/4 acre lots, 38% imp, HSG C
0.383		62.00% Pervious Area
0.235		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
1.3	85	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
2.8	200	0.0035	1.20		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
17.2	335	Total			

Subcatchment 121S: 21



Summary for Subcatchment 122S: 22

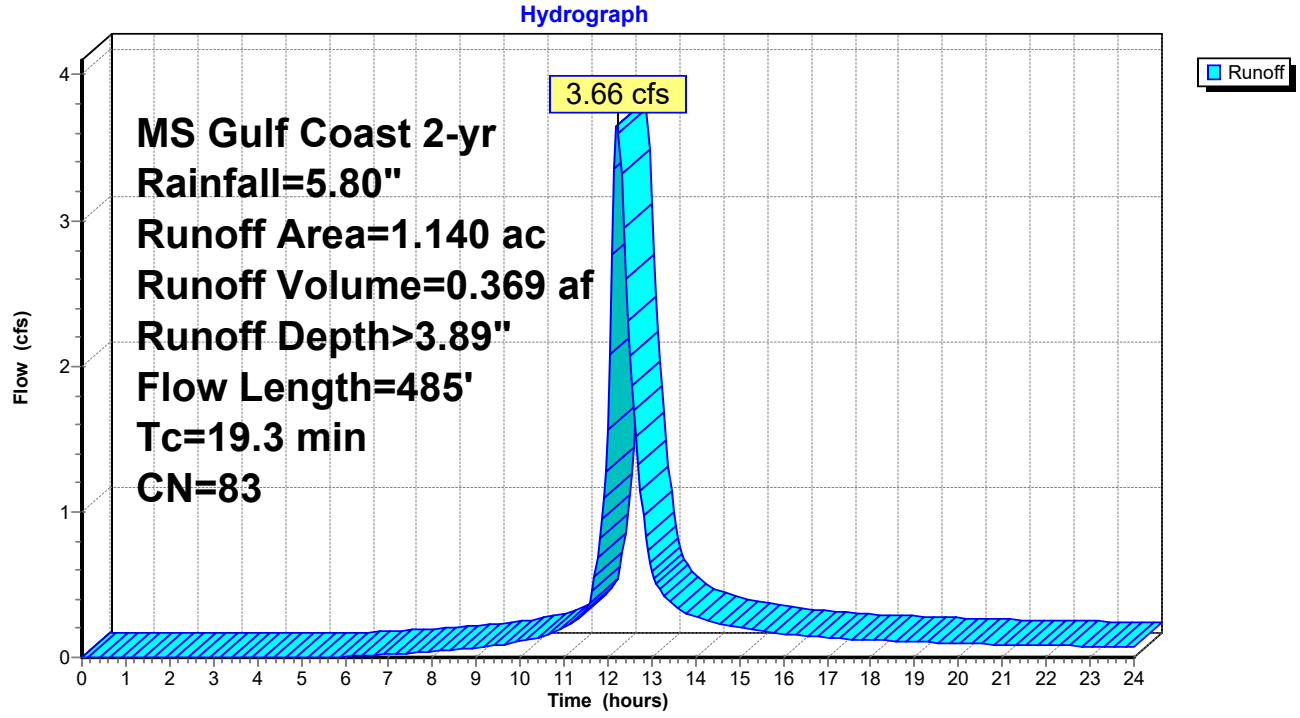
Runoff = 3.66 cfs @ 12.22 hrs, Volume= 0.369 af, Depth> 3.89"
Routed to Pond 119P : ci18

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
1.140	83	1/4 acre lots, 38% imp, HSG C
0.707		62.00% Pervious Area
0.433		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
1.3	85	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
4.9	350	0.0035	1.20		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
19.3	485	Total			

Subcatchment 122S: 22



Summary for Subcatchment 124S: 30

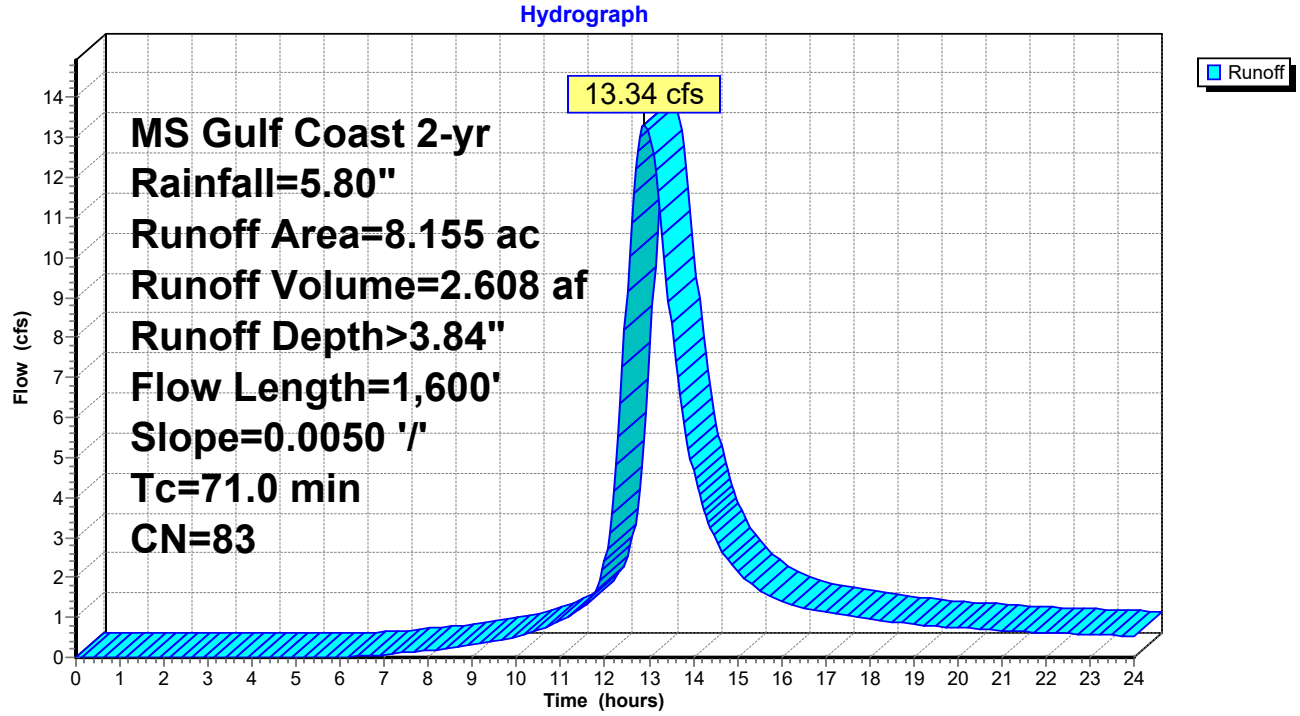
Runoff = 13.34 cfs @ 12.91 hrs, Volume= 2.608 af, Depth> 3.84"
Routed to Pond 123P : fes6

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
8.155	83	1/4 acre lots, 38% imp, HSG C
5.056		62.00% Pervious Area
3.099		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
23.6	1,500	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
34.3	50	0.0050	0.02		**Sheet Flow,** Woods: Dense underbrush n= 0.800 P2= 3.81"
71.0	1,600	Total			

Subcatchment 124S: 30



Summary for Subcatchment 126S: 23

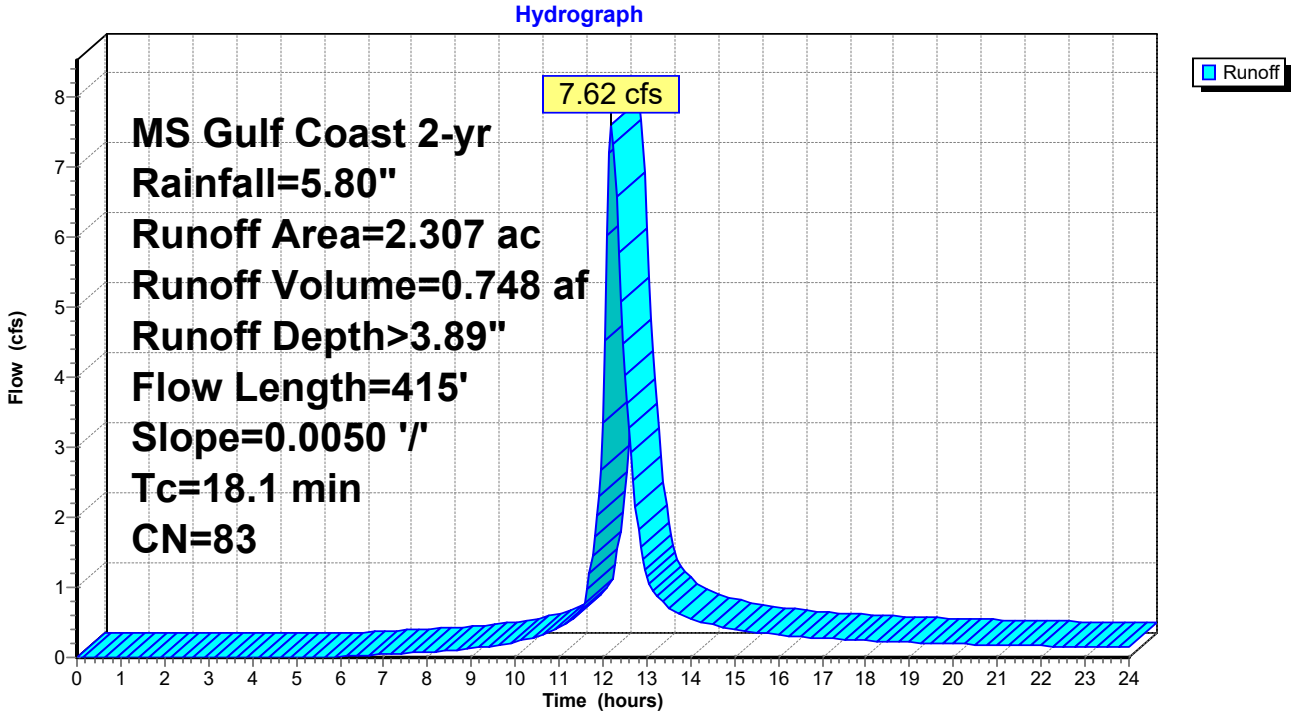
Runoff = 7.62 cfs @ 12.20 hrs, Volume= 0.748 af, Depth> 3.89"
Routed to Pond 125P : ci9

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MS Gulf Coast 2-yr Rainfall=5.80"

Area (ac)	CN	Description
2.307	83	1/4 acre lots, 38% imp, HSG C
1.430		62.00% Pervious Area
0.877		38.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.1	50	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.81"
1.3	85	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
2.1	180	0.0050	1.44		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.6	100	0.0050	1.06		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
18.1	415	Total			

Subcatchment 126S: 23



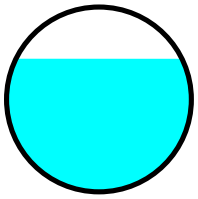
Summary for Reach 72R: p37

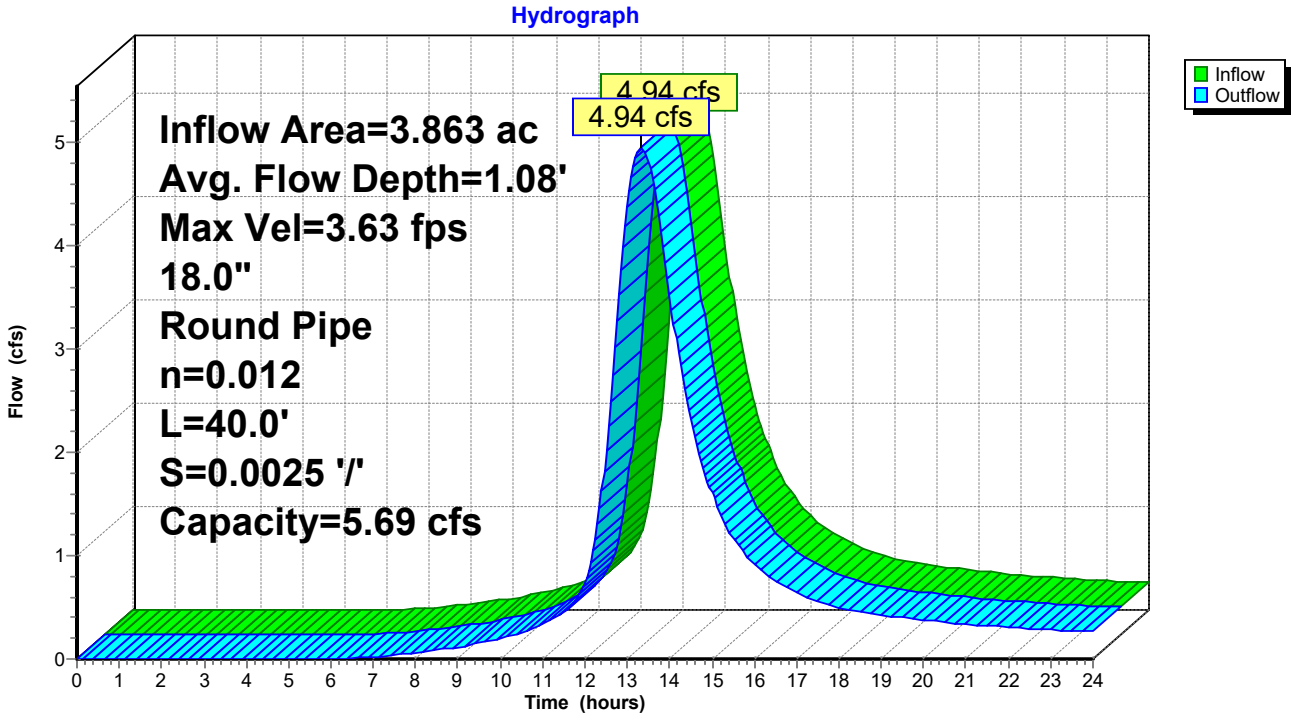
Inflow Area = 3.863 ac, 38.00% Impervious, Inflow Depth > 3.80" for 2-yr event
Inflow = 4.94 cfs @ 13.31 hrs, Volume= 1.224 af
Outflow = 4.94 cfs @ 13.32 hrs, Volume= 1.224 af, Atten= 0%, Lag= 0.3 min
Routed to Pond 67P : ci11

Routing by Stor-Ind+Trans method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Max. Velocity= 3.63 fps, Min. Travel Time= 0.2 min
Avg. Velocity = 1.88 fps, Avg. Travel Time= 0.4 min

Peak Storage= 55 cf @ 13.31 hrs
Average Depth at Peak Storage= 1.08' , Surface Width= 1.35'
Bank-Full Depth= 1.50' Flow Area= 1.8 sf, Capacity= 5.69 cfs

18.0" Round Pipe
n= 0.012 Concrete pipe, finished
Length= 40.0' Slope= 0.0025 '/'
Inlet Invert= 16.00', Outlet Invert= 15.90'





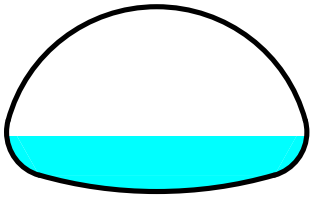
Summary for Reach 85R: (new Reach)

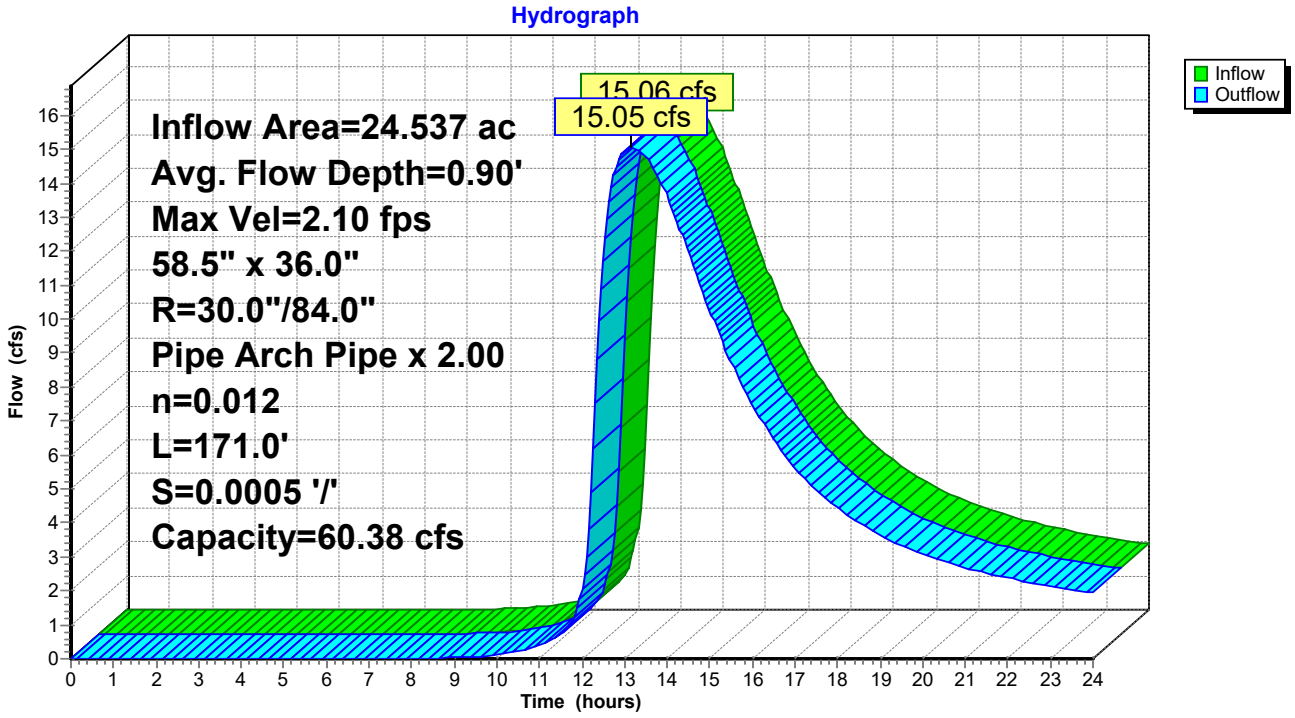
Inflow Area = 24.537 ac, 24.11% Impervious, Inflow Depth > 3.05" for 2-yr event
Inflow = 15.06 cfs @ 13.11 hrs, Volume= 6.232 af
Outflow = 15.05 cfs @ 13.15 hrs, Volume= 6.221 af, Atten= 0%, Lag= 2.3 min
Routed to Pond 63P : ci18

Routing by Stor-Ind+Trans method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Max. Velocity= 2.10 fps, Min. Travel Time= 1.4 min
Avg. Velocity = 1.09 fps, Avg. Travel Time= 2.6 min

Peak Storage= 1,224 cf @ 13.13 hrs
Average Depth at Peak Storage= 0.90' , Surface Width= 9.74'
Bank-Full Depth= 3.00' Flow Area= 22.8 sf, Capacity= 60.38 cfs

A factor of 2.00 has been applied to the storage and discharge capacity
58.5" W x 36.0" H, R=30.0"/84.0" Pipe Arch Pipe
n= 0.012 Concrete pipe, finished
Length= 171.0' Slope= 0.0005 '/'
Inlet Invert= 14.52', Outlet Invert= 14.43'





Summary for Pond 12P: ci31

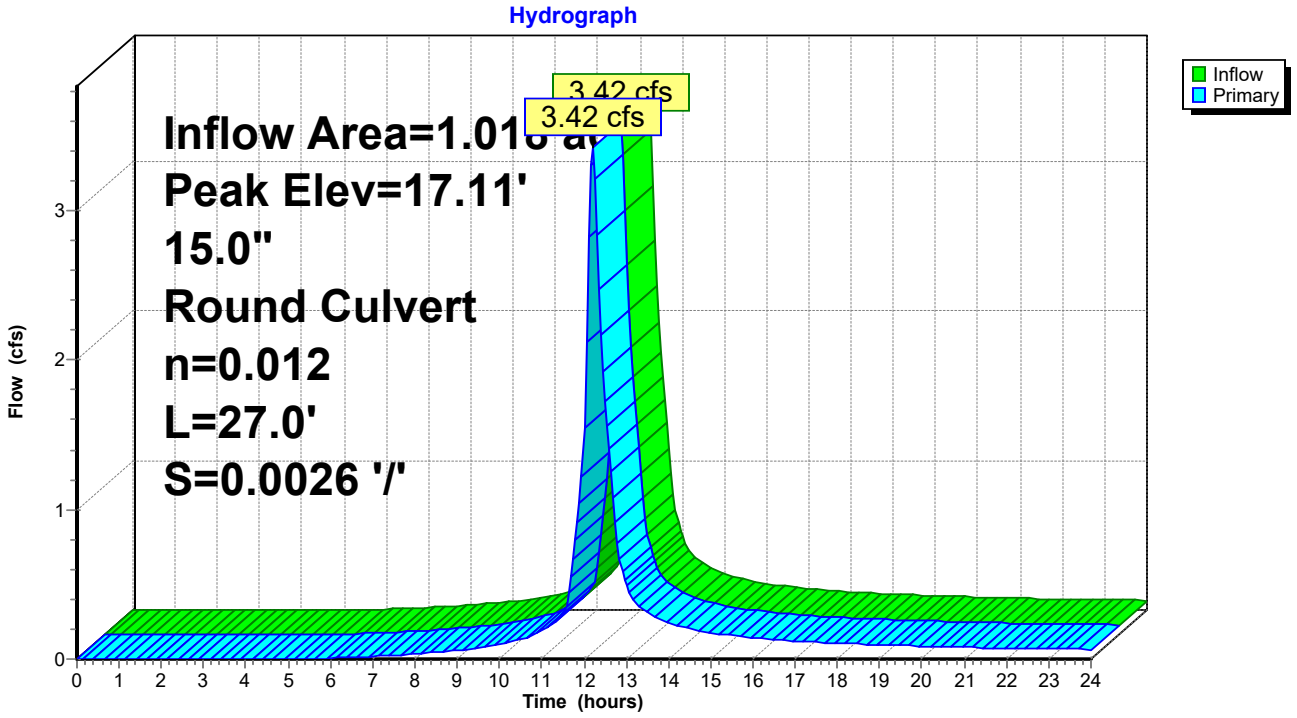
Inflow Area = 1.018 ac, 38.00% Impervious, Inflow Depth > 3.89" for 2-yr event
Inflow = 3.42 cfs @ 12.19 hrs, Volume= 0.330 af
Outflow = 3.42 cfs @ 12.19 hrs, Volume= 0.330 af, Atten= 0%, Lag= 0.0 min
Primary = 3.42 cfs @ 12.19 hrs, Volume= 0.330 af
Routed to Pond 14P : ci30

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 17.11' @ 12.19 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	15.89'	**15.0" Round RCP_Round 15"** L= 27.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 15.89' / 15.82' S= 0.0026 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 1.23 sf

Primary OutFlow Max=3.40 cfs @ 12.19 hrs HW=17.11' (Free Discharge)
1=RCP_Round 15" (Barrel Controls 3.40 cfs @ 3.54 fps)

Pond 12P: ci31



Summary for Pond 14P: ci30

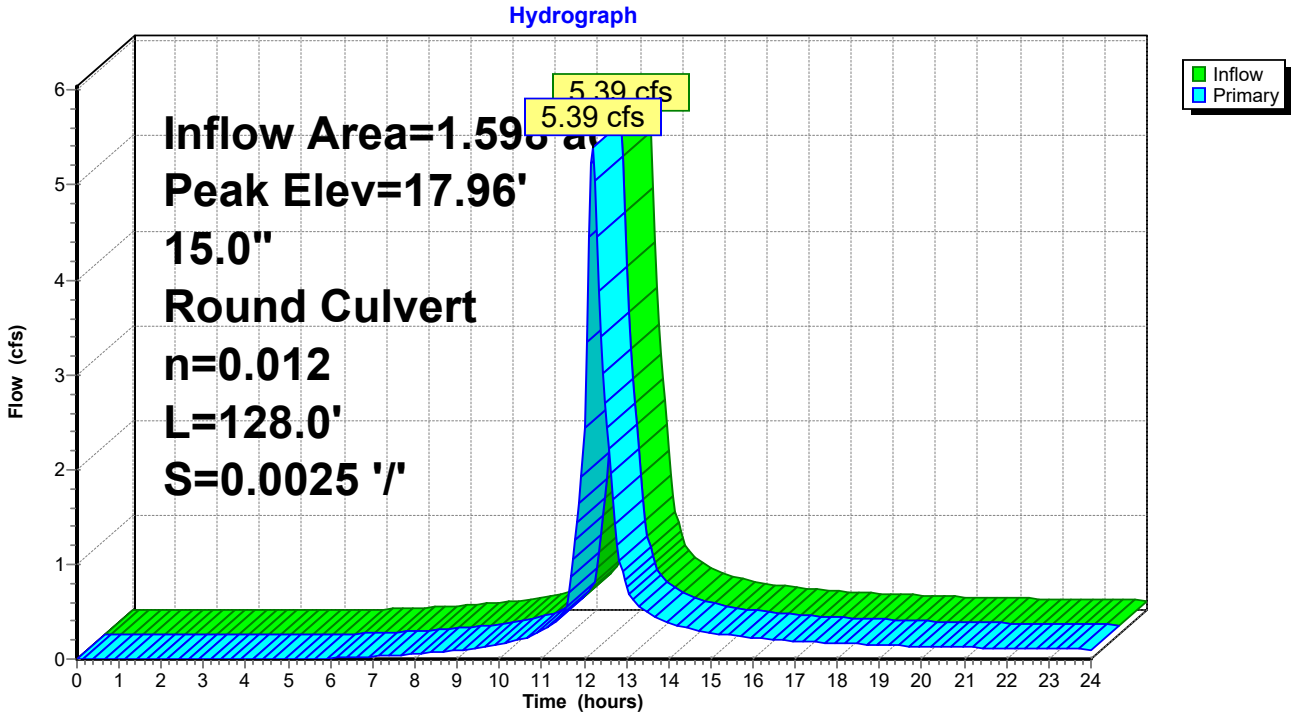
Inflow Area = 1.598 ac, 38.00% Impervious, Inflow Depth > 3.89" for 2-yr event
Inflow = 5.39 cfs @ 12.19 hrs, Volume= 0.518 af
Outflow = 5.39 cfs @ 12.19 hrs, Volume= 0.518 af, Atten= 0%, Lag= 0.0 min
Primary = 5.39 cfs @ 12.19 hrs, Volume= 0.518 af
Routed to Pond 38P : ci42a

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 17.96' @ 12.19 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	15.82'	**15.0" Round RCP_Round 15"** L= 128.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 15.82' / 15.50' S= 0.0025 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 1.23 sf

Primary OutFlow Max=5.36 cfs @ 12.19 hrs HW=17.95' (Free Discharge)
1=RCP_Round 15" (Barrel Controls 5.36 cfs @ 4.37 fps)

Pond 14P: ci30



Summary for Pond 15P: ci35

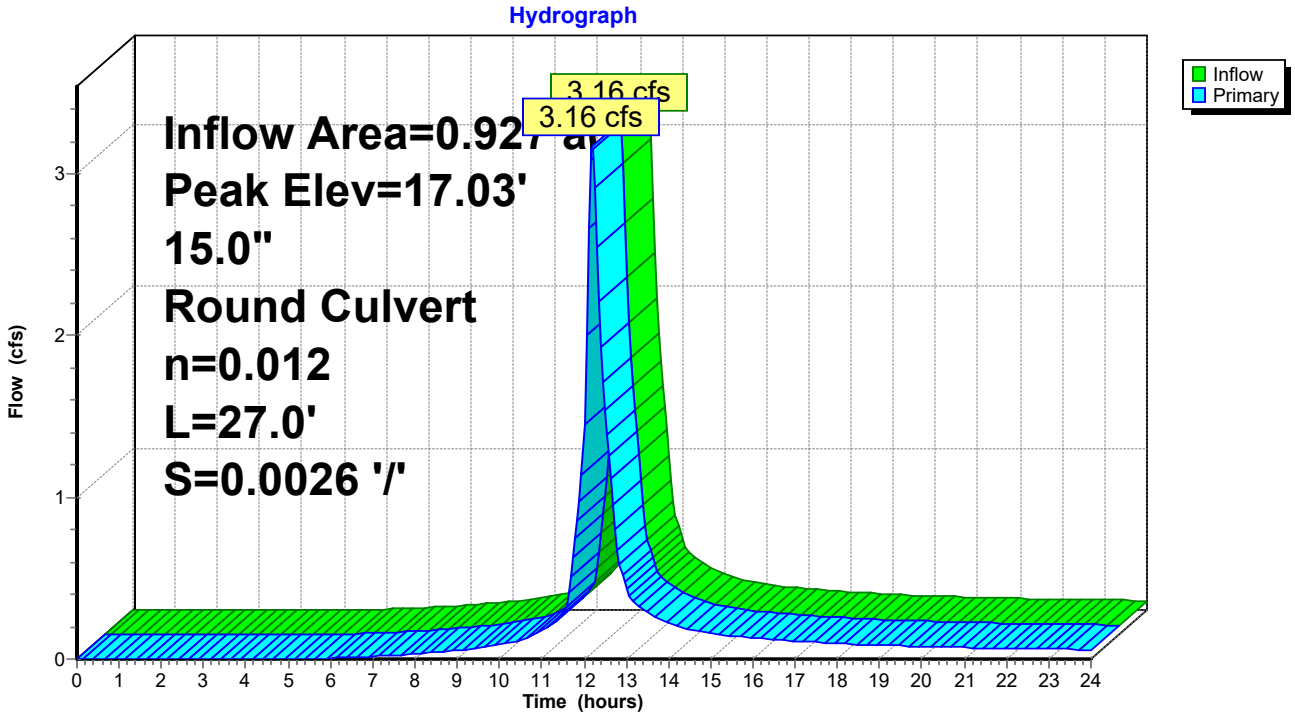
Inflow Area = 0.927 ac, 38.00% Impervious, Inflow Depth > 3.89" for 2-yr event
Inflow = 3.16 cfs @ 12.18 hrs, Volume= 0.301 af
Outflow = 3.16 cfs @ 12.18 hrs, Volume= 0.301 af, Atten= 0%, Lag= 0.0 min
Primary = 3.16 cfs @ 12.18 hrs, Volume= 0.301 af
Routed to Pond 16P : ci34

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 17.03' @ 12.18 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	15.87'	**15.0" Round RCP_Round 15"** L= 27.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 15.87' / 15.80' S= 0.0026 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 1.23 sf

Primary OutFlow Max=3.13 cfs @ 12.18 hrs HW=17.02' (Free Discharge)
1=RCP_Round 15" (Barrel Controls 3.13 cfs @ 3.46 fps)

Pond 15P: ci35



Summary for Pond 16P: ci34

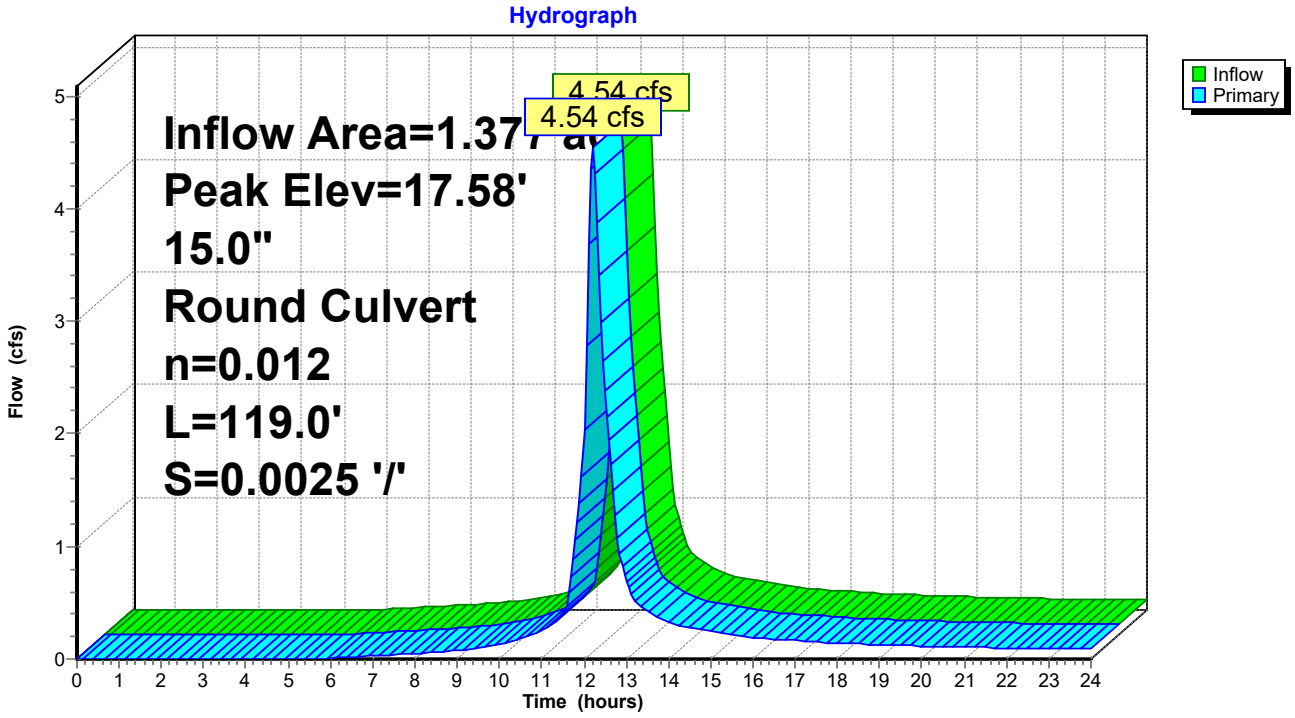
Inflow Area = 1.377 ac, 38.00% Impervious, Inflow Depth > 3.89" for 2-yr event
Inflow = 4.54 cfs @ 12.20 hrs, Volume= 0.446 af
Outflow = 4.54 cfs @ 12.20 hrs, Volume= 0.446 af, Atten= 0%, Lag= 0.0 min
Primary = 4.54 cfs @ 12.20 hrs, Volume= 0.446 af
Routed to Pond 20P : ci24a

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 17.58' @ 12.19 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	15.80'	**15.0" Round RCP_Round 15"** L= 119.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 15.80' / 15.50' S= 0.0025 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 1.23 sf

Primary OutFlow Max=4.53 cfs @ 12.20 hrs HW=17.57' (Free Discharge)
1=RCP_Round 15" (Barrel Controls 4.53 cfs @ 3.70 fps)

Pond 16P: ci34



Summary for Pond 17P: ci40

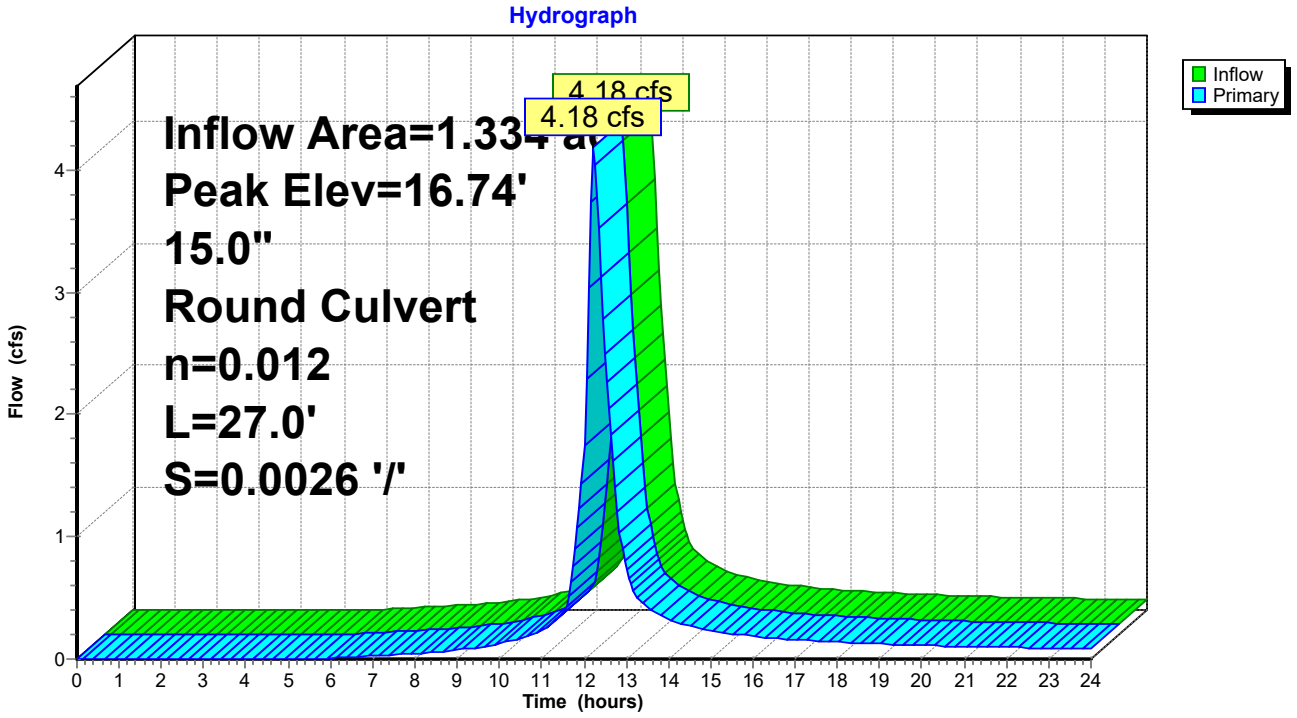
Inflow Area = 1.334 ac, 38.00% Impervious, Inflow Depth > 3.89" for 2-yr event
Inflow = 4.18 cfs @ 12.23 hrs, Volume= 0.432 af
Outflow = 4.18 cfs @ 12.23 hrs, Volume= 0.432 af, Atten= 0%, Lag= 0.0 min
Primary = 4.18 cfs @ 12.23 hrs, Volume= 0.432 af
Routed to Pond 18P : ci41

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 16.74' @ 12.23 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	15.33'	**15.0" Round RCP_Round 15"** L= 27.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 15.33' / 15.26' S= 0.0026 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 1.23 sf

Primary OutFlow Max=4.15 cfs @ 12.23 hrs HW=16.73' (Free Discharge)
1=RCP_Round 15" (Barrel Controls 4.15 cfs @ 3.76 fps)

Pond 17P: ci40



Summary for Pond 18P: ci41

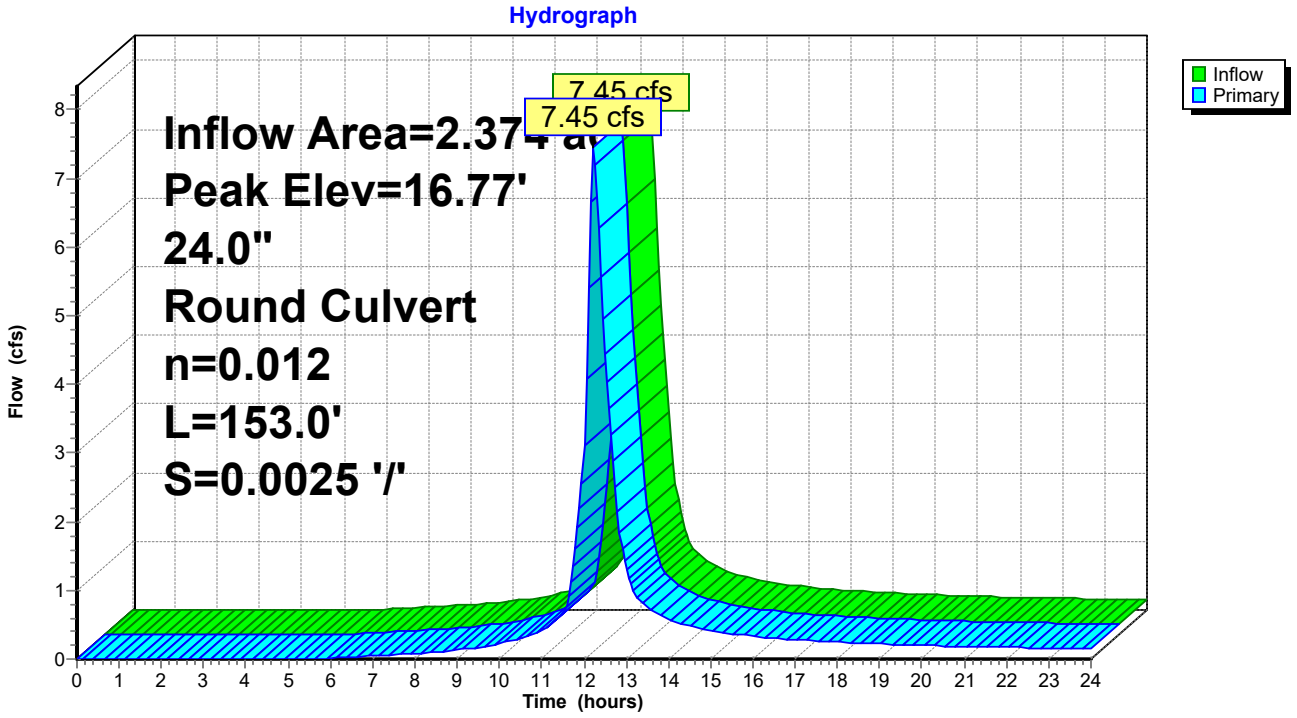
Inflow Area = 2.374 ac, 38.00% Impervious, Inflow Depth > 3.89" for 2-yr event
Inflow = 7.45 cfs @ 12.23 hrs, Volume= 0.769 af
Outflow = 7.45 cfs @ 12.23 hrs, Volume= 0.769 af, Atten= 0%, Lag= 0.0 min
Primary = 7.45 cfs @ 12.23 hrs, Volume= 0.769 af
Routed to Pond 20P : ci24a

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 16.77' @ 12.23 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	15.26'	**24.0" Round RCP_Round 24"** L= 153.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 15.26' / 14.88' S= 0.0025 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 3.14 sf

Primary OutFlow Max=7.39 cfs @ 12.23 hrs HW=16.76' (Free Discharge)
1=RCP_Round 24" (Barrel Controls 7.39 cfs @ 4.05 fps)

Pond 18P: ci41



Summary for Pond 20P: ci24a

Inflow Area = 6.907 ac, 20.64% Impervious, Inflow Depth > 3.42" for 2-yr event
Inflow = 13.30 cfs @ 12.23 hrs, Volume= 1.971 af
Outflow = 13.30 cfs @ 12.23 hrs, Volume= 1.971 af, Atten= 0%, Lag= 0.1 min
Primary = 13.30 cfs @ 12.23 hrs, Volume= 1.971 af
Routed to Pond 21P : ci33

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 19.00' @ 12.23 hrs Surf.Area= 0.345 ac Storage= 0.002 af

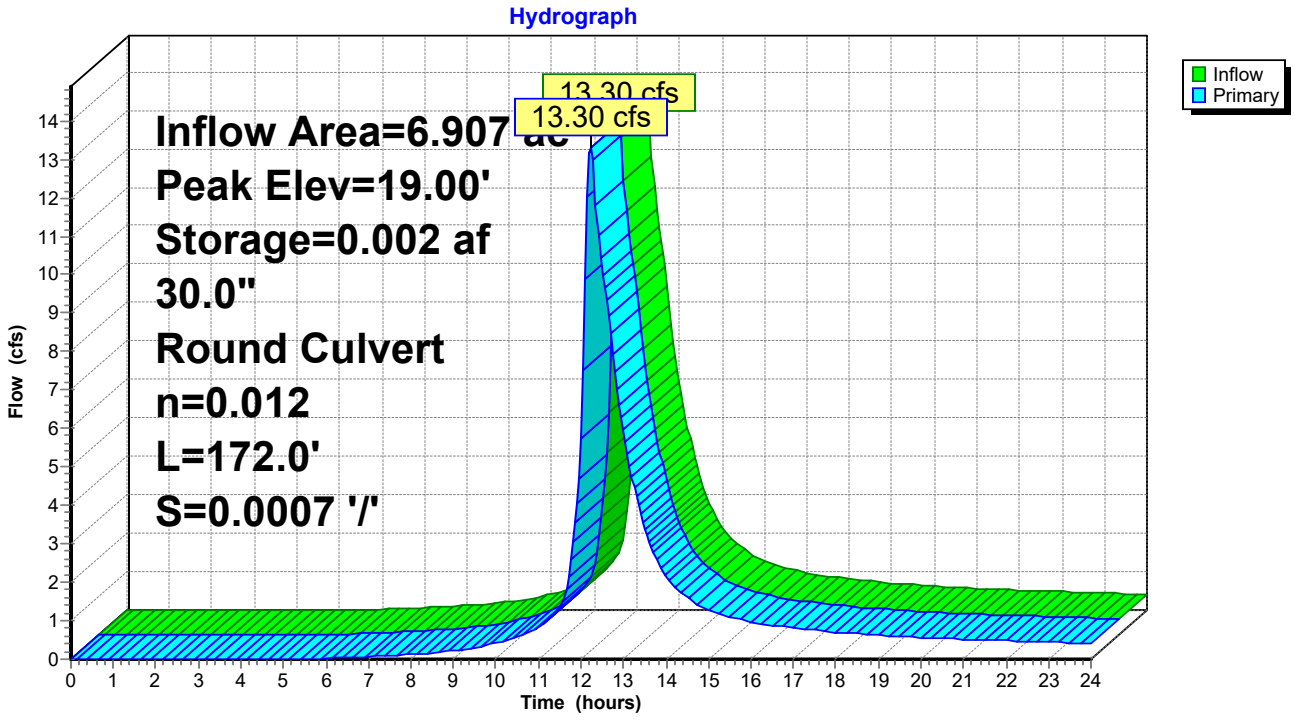
Plug-Flow detention time= 0.1 min calculated for 1.967 af (100% of inflow)
Center-of-Mass det. time= 0.1 min (845.6 - 845.5)

Volume	Invert	Avail.Storage	Storage Description
#1	19.00'	0.369 af	**300.00'W x 50.00'L x 1.00'H Prismatoid Z=3.0**

Device	Routing	Invert	Outlet Devices
#1	Primary	15.15'	**30.0" Round RCP_Round 30"** L= 172.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 15.15' / 15.03' S= 0.0007 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 4.91 sf

Primary OutFlow Max=28.30 cfs @ 12.23 hrs HW=19.00' (Free Discharge)
1=RCP_Round 30" (Barrel Controls 28.30 cfs @ 5.77 fps)

Pond 20P: ci24a



Summary for Pond 21P: ci33

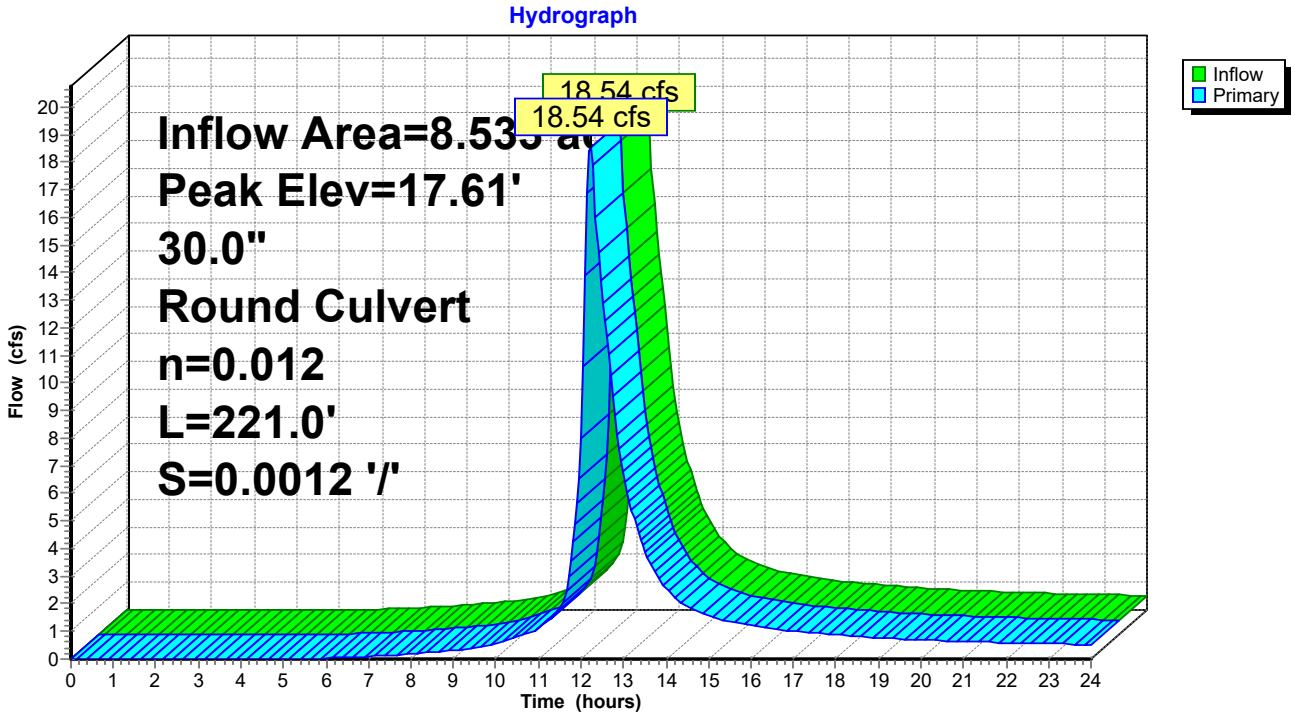
Inflow Area = 8.533 ac, 23.95% Impervious, Inflow Depth > 3.51" for 2-yr event
Inflow = 18.54 cfs @ 12.23 hrs, Volume= 2.498 af
Outflow = 18.54 cfs @ 12.23 hrs, Volume= 2.498 af, Atten= 0%, Lag= 0.0 min
Primary = 18.54 cfs @ 12.23 hrs, Volume= 2.498 af
Routed to Pond 23P : ci18a

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 17.61' @ 12.23 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	15.03'	**30.0" Round RCP_Round 30"** L= 221.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 15.03' / 14.76' S= 0.0012 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 4.91 sf

Primary OutFlow Max=18.41 cfs @ 12.23 hrs HW=17.60' (Free Discharge)
1=RCP_Round 30" (Barrel Controls 18.41 cfs @ 4.54 fps)

Pond 21P: ci33



Summary for Pond 22P: ci32

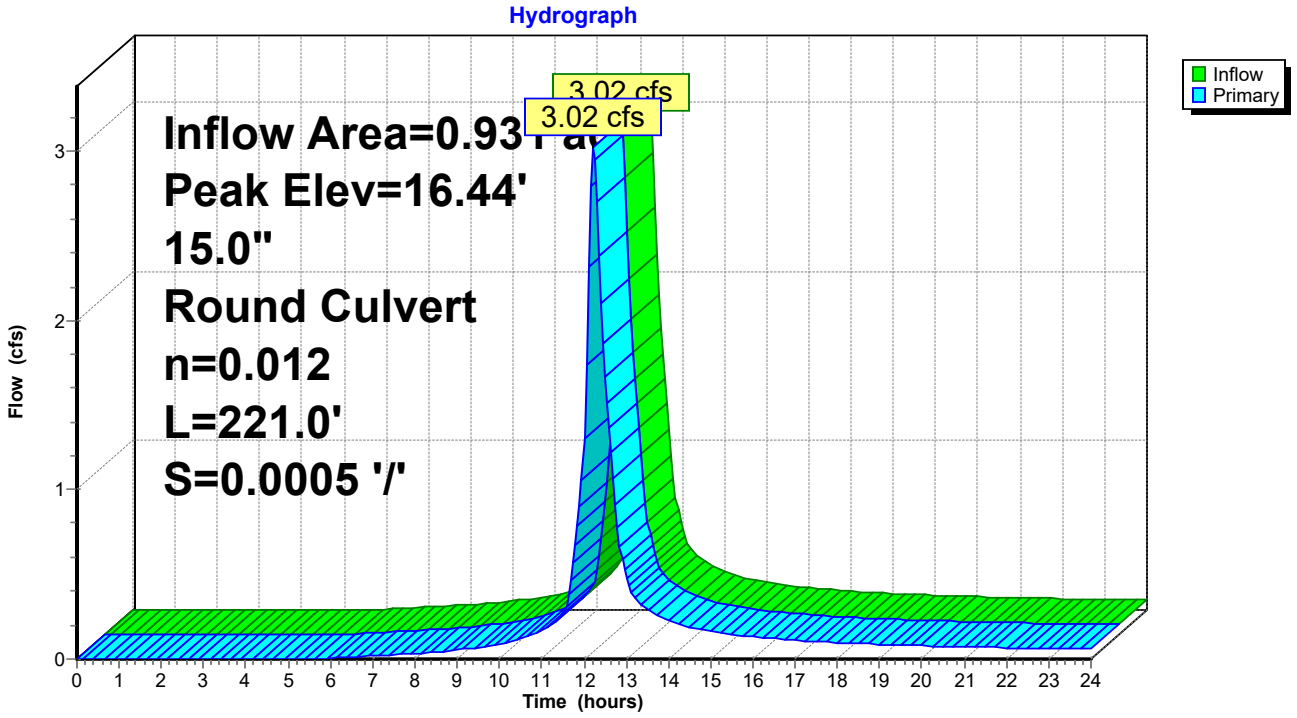
Inflow Area = 0.931 ac, 38.00% Impervious, Inflow Depth > 3.89" for 2-yr event
Inflow = 3.02 cfs @ 12.21 hrs, Volume= 0.302 af
Outflow = 3.02 cfs @ 12.21 hrs, Volume= 0.302 af, Atten= 0%, Lag= 0.0 min
Primary = 3.02 cfs @ 12.21 hrs, Volume= 0.302 af
Routed to Pond 21P : ci33

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 16.44' @ 12.21 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	14.87'	**15.0" Round RCP_Round 15"** L= 221.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 14.87' / 14.76' S= 0.0005 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 1.23 sf

Primary OutFlow Max=2.99 cfs @ 12.21 hrs HW=16.42' (Free Discharge)
1=RCP_Round 15" (Barrel Controls 2.99 cfs @ 2.51 fps)

Pond 22P: ci32



Summary for Pond 23P: ci18a

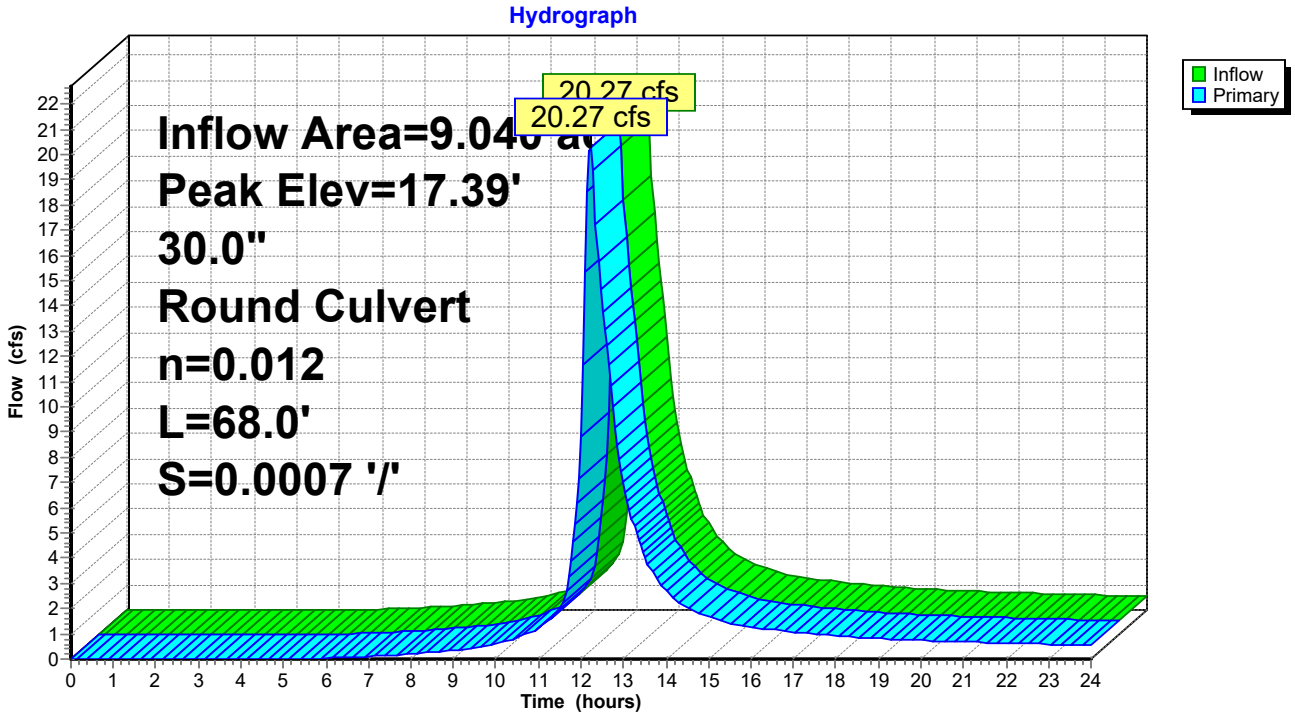
Inflow Area = 9.040 ac, 24.73% Impervious, Inflow Depth > 3.53" for 2-yr event
Inflow = 20.27 cfs @ 12.22 hrs, Volume= 2.662 af
Outflow = 20.27 cfs @ 12.22 hrs, Volume= 2.662 af, Atten= 0%, Lag= 0.0 min
Primary = 20.27 cfs @ 12.22 hrs, Volume= 2.662 af
Routed to Pond 24P : ci19a

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 17.39' @ 12.22 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	14.76'	**30.0" Round RCP_Round 30"** L= 68.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 14.76' / 14.71' S= 0.0007 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 4.91 sf

Primary OutFlow Max=20.07 cfs @ 12.22 hrs HW=17.37' (Free Discharge)
1=RCP_Round 30" (Barrel Controls 20.07 cfs @ 4.86 fps)

Pond 23P: ci18a



Summary for Pond 24P: ci19a

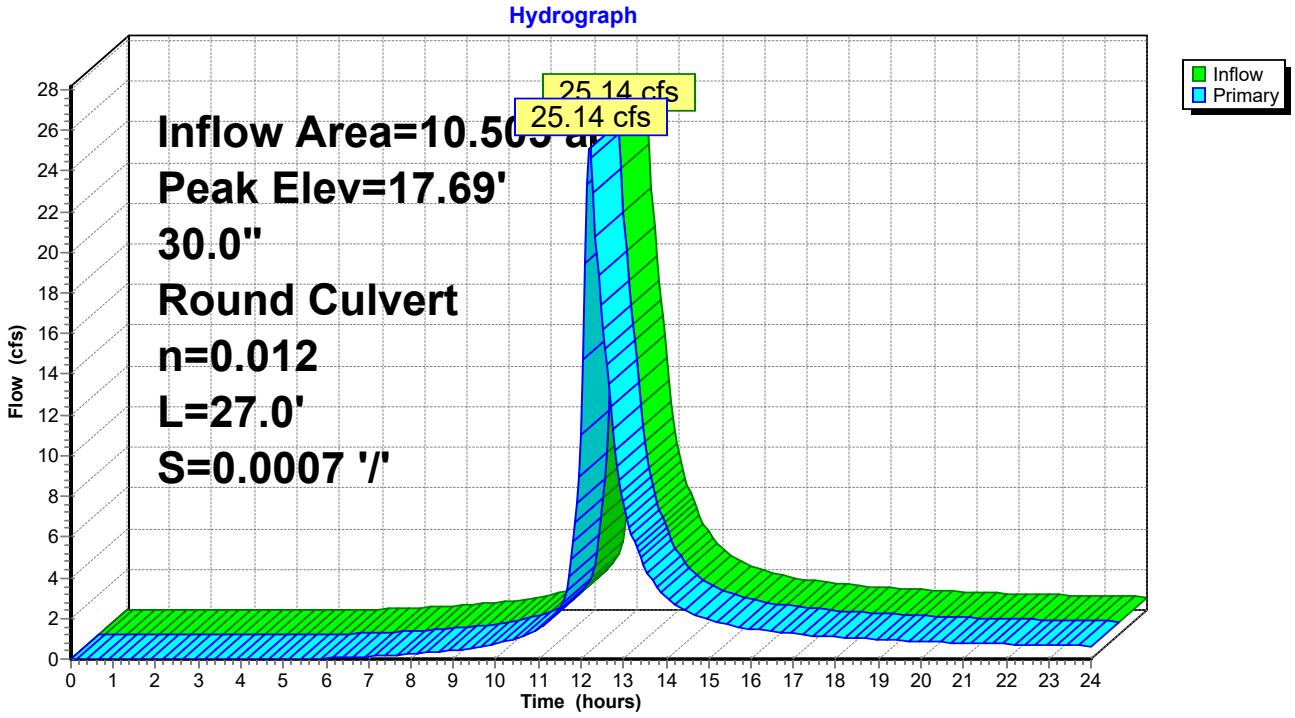
Inflow Area = 10.505 ac, 26.58% Impervious, Inflow Depth > 3.58" for 2-yr event
Inflow = 25.14 cfs @ 12.21 hrs, Volume= 3.137 af
Outflow = 25.14 cfs @ 12.21 hrs, Volume= 3.137 af, Atten= 0%, Lag= 0.0 min
Primary = 25.14 cfs @ 12.21 hrs, Volume= 3.137 af
Routed to Pond 34P : ci25

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 17.69' @ 12.21 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	14.71'	**30.0" Round RCP_Round 30"** L= 27.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 14.71' / 14.69' S= 0.0007 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 4.91 sf

Primary OutFlow Max=24.92 cfs @ 12.21 hrs HW=17.67' (Free Discharge)
1=RCP_Round 30" (Barrel Controls 24.92 cfs @ 5.41 fps)

Pond 24P: ci19a



Summary for Pond 26P: ci27

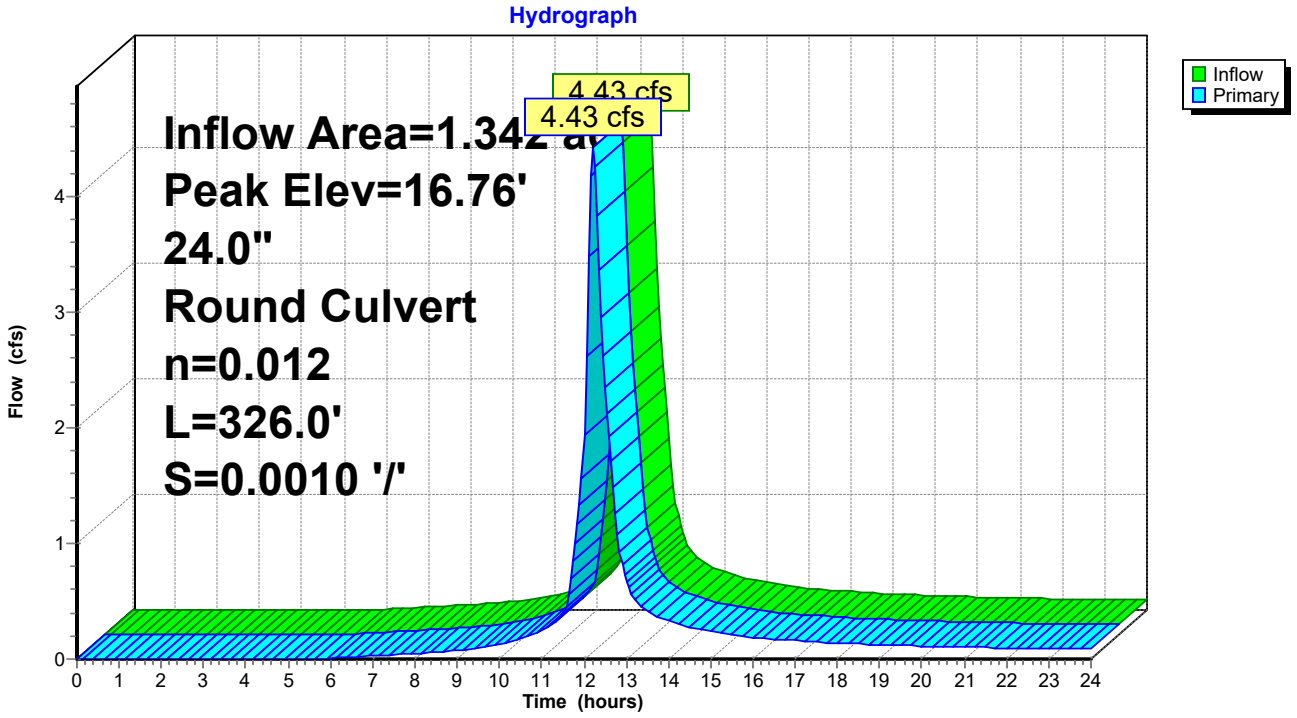
Inflow Area = 1.342 ac, 38.00% Impervious, Inflow Depth > 3.89" for 2-yr event
Inflow = 4.43 cfs @ 12.21 hrs, Volume= 0.435 af
Outflow = 4.43 cfs @ 12.21 hrs, Volume= 0.435 af, Atten= 0%, Lag= 0.0 min
Primary = 4.43 cfs @ 12.21 hrs, Volume= 0.435 af
Routed to Pond 40P : ci45

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 16.76' @ 12.21 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	15.46'	**24.0" Round RCP_Round 24"** L= 326.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 15.46' / 15.13' S= 0.0010 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 3.14 sf

Primary OutFlow Max=4.41 cfs @ 12.21 hrs HW=16.76' (Free Discharge)
1=RCP_Round 24" (Barrel Controls 4.41 cfs @ 2.89 fps)

Pond 26P: ci27



Summary for Pond 27P: ci28

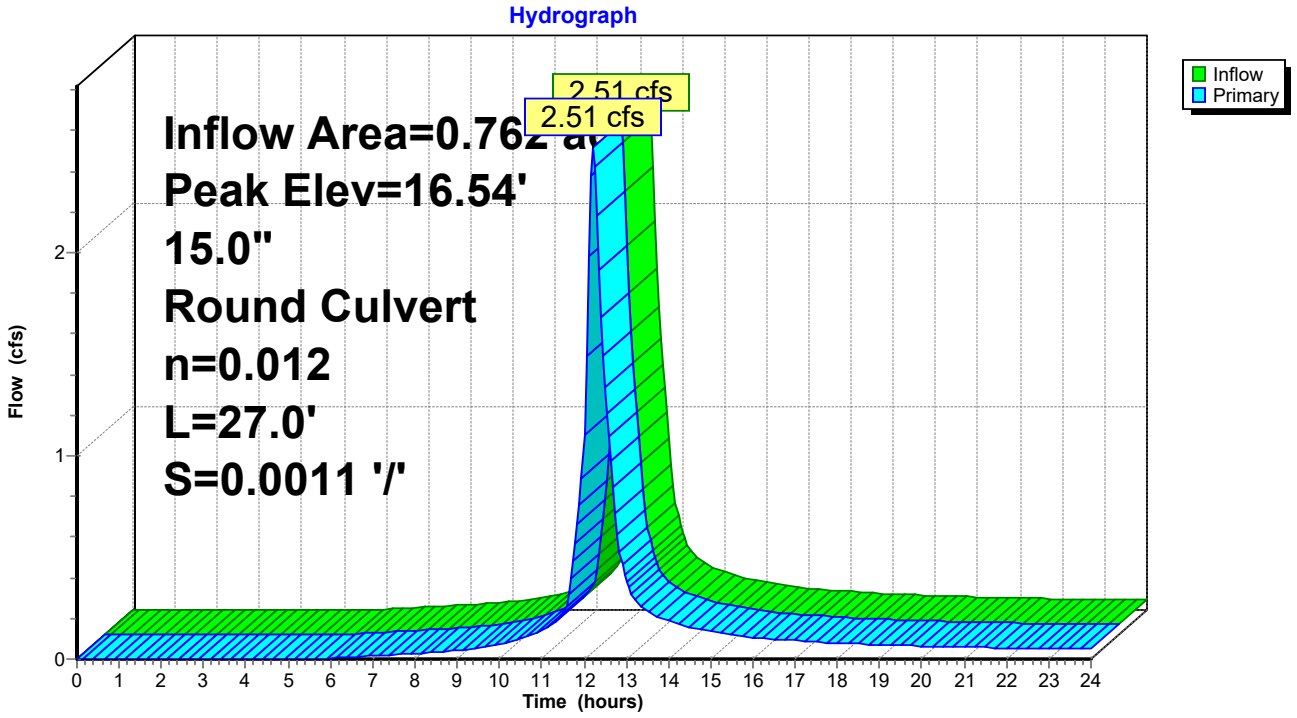
Inflow Area = 0.762 ac, 38.00% Impervious, Inflow Depth > 3.89" for 2-yr event
Inflow = 2.51 cfs @ 12.21 hrs, Volume= 0.247 af
Outflow = 2.51 cfs @ 12.21 hrs, Volume= 0.247 af, Atten= 0%, Lag= 0.0 min
Primary = 2.51 cfs @ 12.21 hrs, Volume= 0.247 af
Routed to Pond 26P : ci27

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 16.54' @ 12.21 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	15.49'	**15.0" Round RCP_Round 15"** L= 27.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 15.49' / 15.46' S= 0.0011 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 1.23 sf

Primary OutFlow Max=2.50 cfs @ 12.21 hrs HW=16.53' (Free Discharge)
1=RCP_Round 15" (Barrel Controls 2.50 cfs @ 3.10 fps)

Pond 27P: ci28



Summary for Pond 34P: ci25

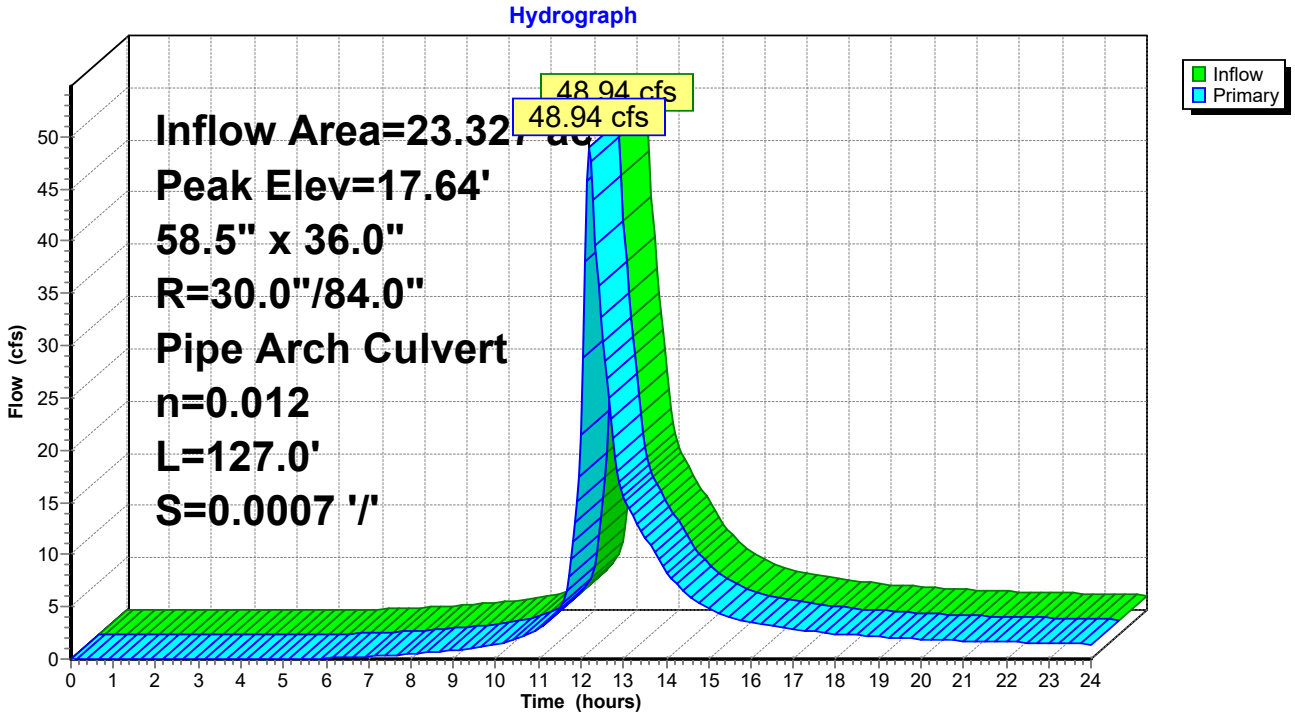
Inflow Area = 23.327 ac, 23.39% Impervious, Inflow Depth > 3.42" for 2-yr event
Inflow = 48.94 cfs @ 12.21 hrs, Volume= 6.652 af
Outflow = 48.94 cfs @ 12.21 hrs, Volume= 6.652 af, Atten= 0%, Lag= 0.0 min
Primary = 48.94 cfs @ 12.21 hrs, Volume= 6.652 af
Routed to Pond 50P : Detention Pond

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 17.64' @ 12.21 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	14.69'	**58.5" W x 36.0" H, R=30.0"/84.0" Pipe Arch RCP_Arch 59x36** L= 127.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 14.69' / 14.60' S= 0.0007 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 11.40 sf

Primary OutFlow Max=48.56 cfs @ 12.21 hrs HW=17.62' (Free Discharge)
1=RCP_Arch 59x36 (Barrel Controls 48.56 cfs @ 5.18 fps)

Pond 34P: ci25



Summary for Pond 35P: ci26

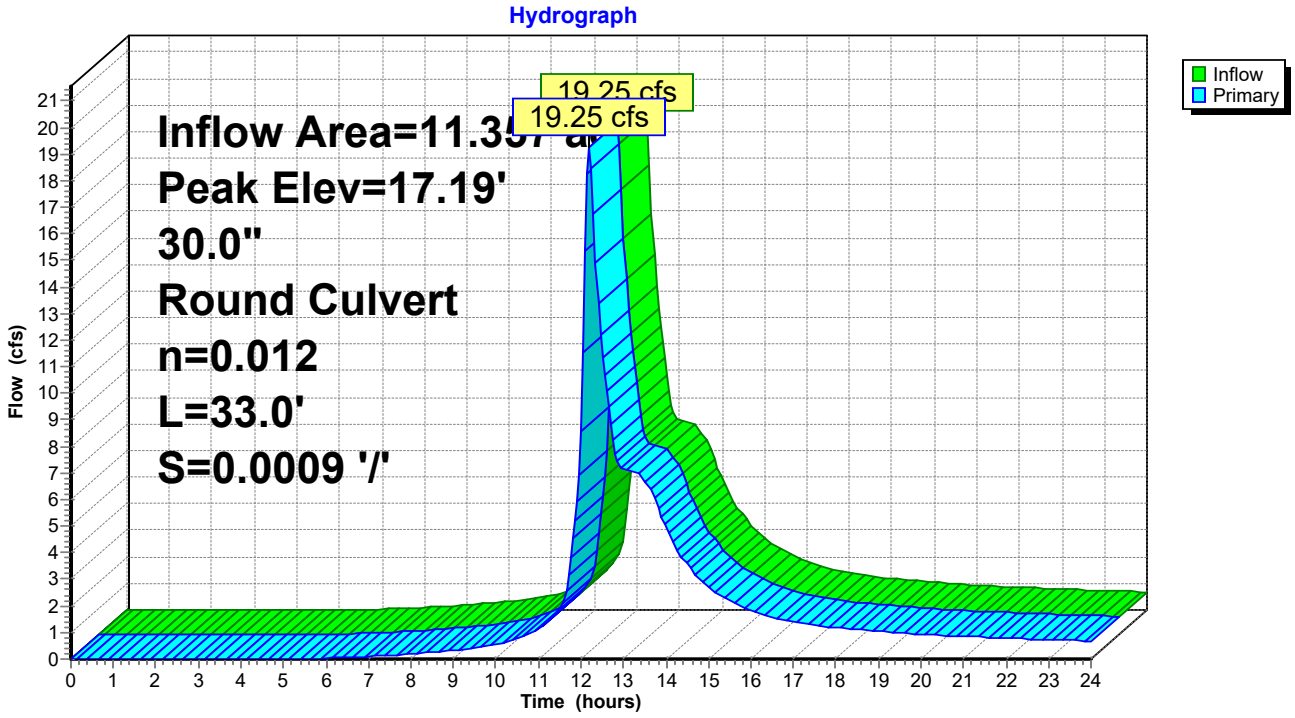
Inflow Area = 11.357 ac, 18.56% Impervious, Inflow Depth > 3.21" for 2-yr event
Inflow = 19.25 cfs @ 12.20 hrs, Volume= 3.040 af
Outflow = 19.25 cfs @ 12.20 hrs, Volume= 3.040 af, Atten= 0%, Lag= 0.0 min
Primary = 19.25 cfs @ 12.20 hrs, Volume= 3.040 af
Routed to Pond 34P : ci25

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 17.19' @ 12.20 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	14.72'	**30.0" Round RCP_Round 30"** L= 33.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 14.72' / 14.69' S= 0.0009 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 4.91 sf

Primary OutFlow Max=19.20 cfs @ 12.20 hrs HW=17.18' (Free Discharge)
1=RCP_Round 30" (Barrel Controls 19.20 cfs @ 4.94 fps)

Pond 35P: ci26



Summary for Pond 38P: ci42a

Inflow Area = 10.446 ac, 16.86% Impervious, Inflow Depth > 3.15" for 2-yr event
Inflow = 16.34 cfs @ 12.19 hrs, Volume= 2.745 af
Outflow = 16.34 cfs @ 12.20 hrs, Volume= 2.745 af, Atten= 0%, Lag= 0.3 min
Primary = 16.34 cfs @ 12.20 hrs, Volume= 2.745 af
Routed to Pond 35P : ci26

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 19.01' @ 12.20 hrs Surf.Area= 1.148 ac Storage= 0.006 af

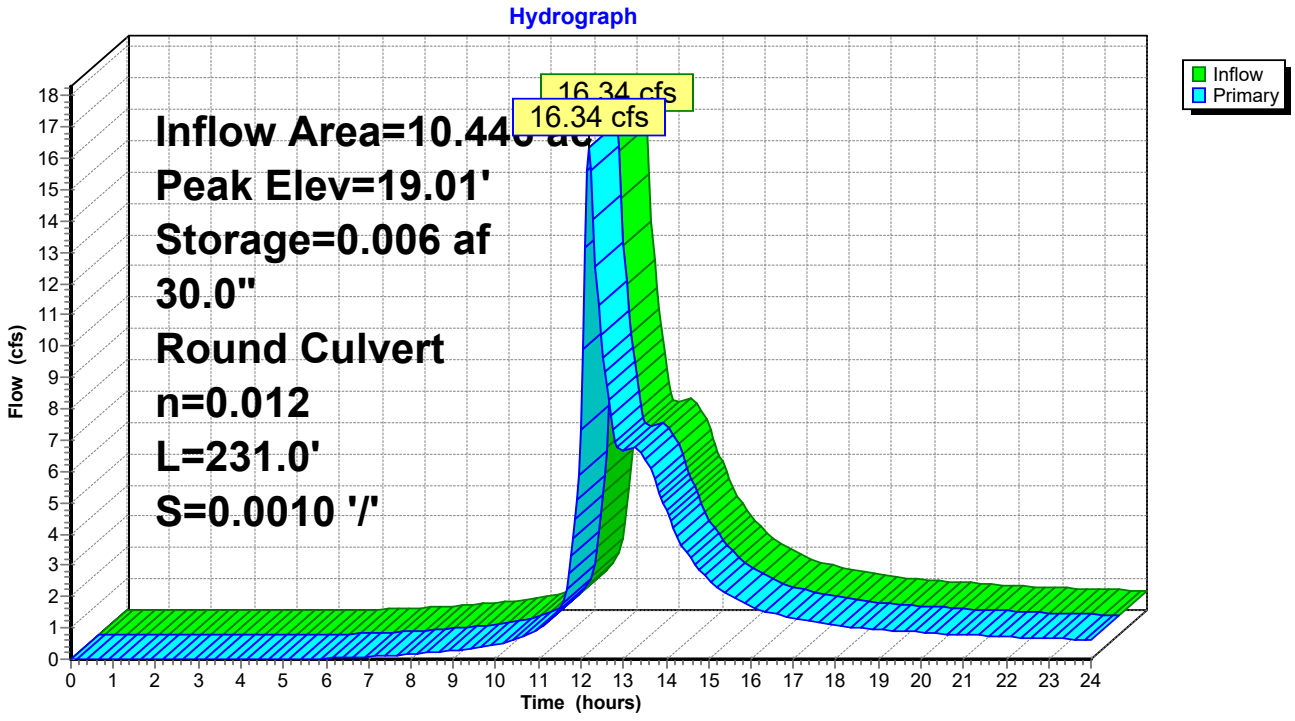
Plug-Flow detention time= 0.3 min calculated for 2.745 af (100% of inflow)
Center-of-Mass det. time= 0.2 min (864.9 - 864.6)

Volume	Invert	Avail.Storage	Storage Description
#1	19.00'	1.189 af	**100.00'W x 500.00'L x 1.00'H Prismatoid Z=3.0**

Device	Routing	Invert	Outlet Devices
#1	Primary	14.95'	**30.0" Round RCP_Round 30"** L= 231.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 14.95' / 14.72' S= 0.0010 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 4.91 sf

Primary OutFlow Max=28.88 cfs @ 12.20 hrs HW=19.01' (Free Discharge)
1=RCP_Round 30" (Barrel Controls 28.88 cfs @ 5.88 fps)

Pond 38P: ci42a



Summary for Pond 40P: ci45

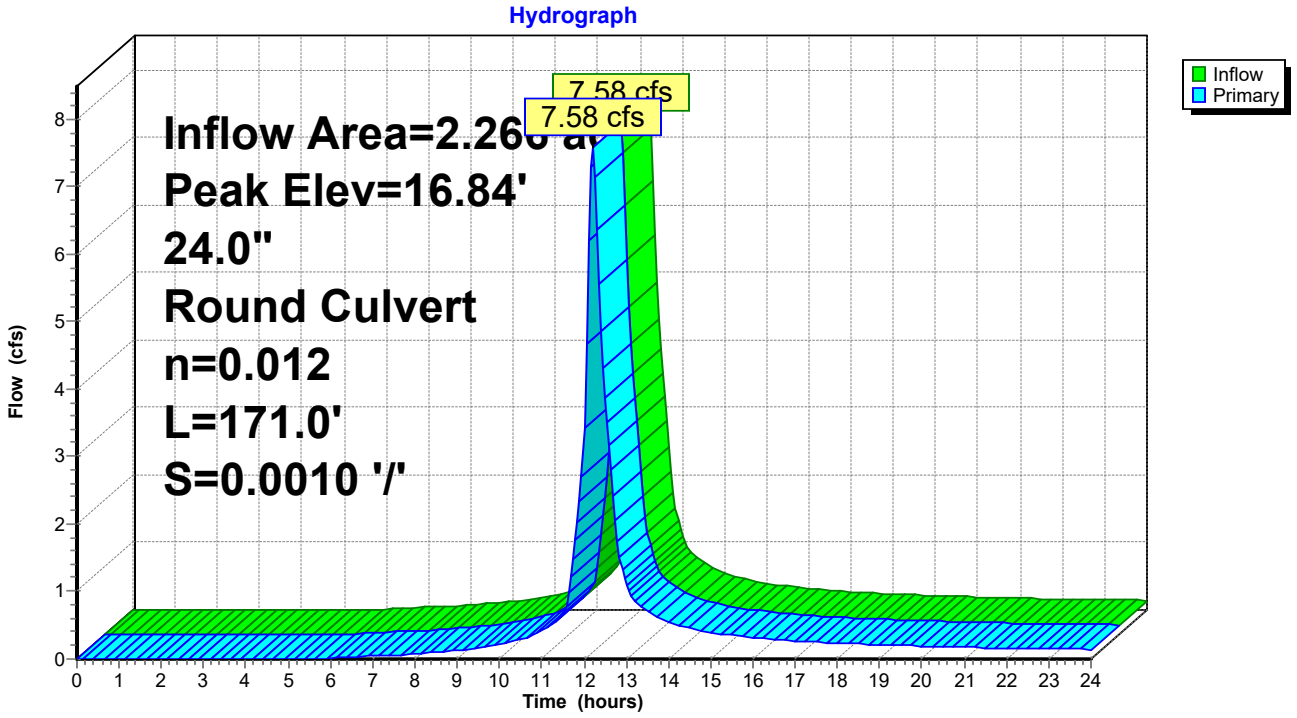
Inflow Area = 2.266 ac, 38.00% Impervious, Inflow Depth > 3.89" for 2-yr event
Inflow = 7.58 cfs @ 12.19 hrs, Volume= 0.735 af
Outflow = 7.58 cfs @ 12.19 hrs, Volume= 0.735 af, Atten= 0%, Lag= 0.0 min
Primary = 7.58 cfs @ 12.19 hrs, Volume= 0.735 af
Routed to Pond 46P : ci42

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 16.84' @ 12.19 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	15.13'	**24.0" Round RCP_Round 24"** L= 171.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 15.13' / 14.96' S= 0.0010 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 3.14 sf

Primary OutFlow Max=7.54 cfs @ 12.19 hrs HW=16.83' (Free Discharge)
1=RCP_Round 24" (Barrel Controls 7.54 cfs @ 3.56 fps)

Pond 40P: ci45



Summary for Pond 41P: ci47

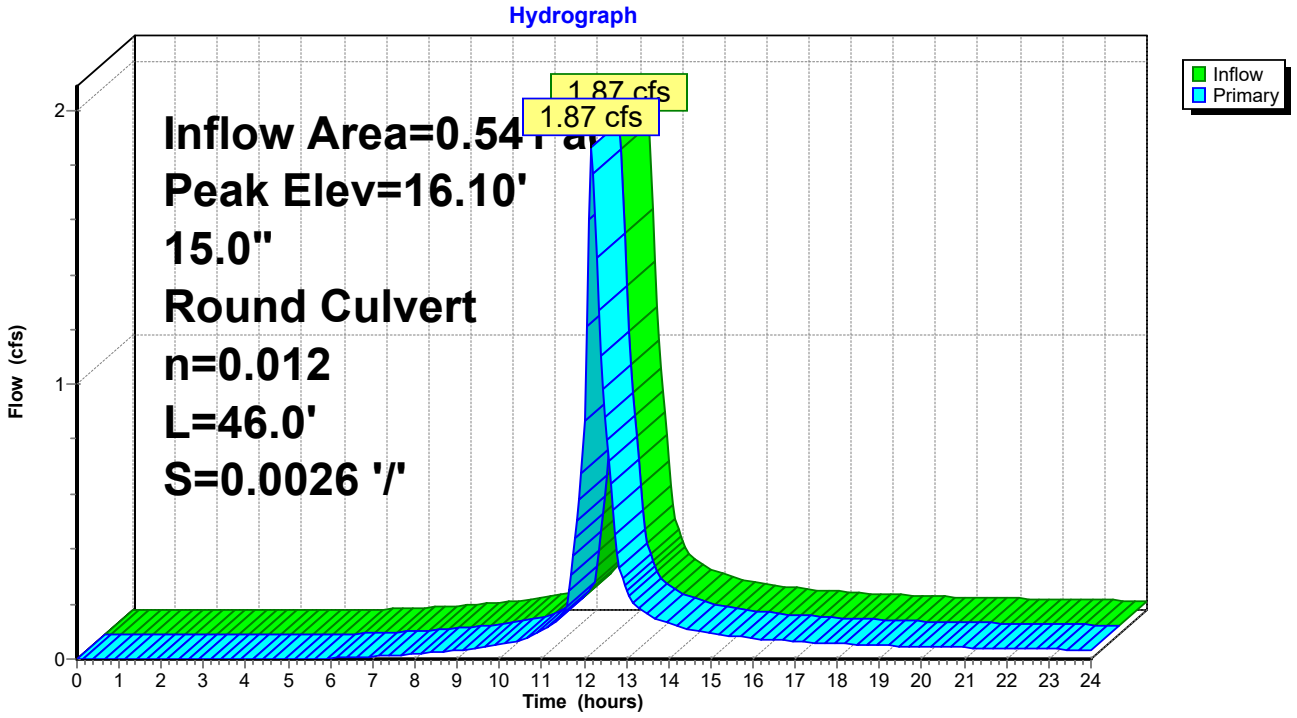
Inflow Area = 0.541 ac, 38.00% Impervious, Inflow Depth > 3.89" for 2-yr event
Inflow = 1.87 cfs @ 12.18 hrs, Volume= 0.175 af
Outflow = 1.87 cfs @ 12.18 hrs, Volume= 0.175 af, Atten= 0%, Lag= 0.0 min
Primary = 1.87 cfs @ 12.18 hrs, Volume= 0.175 af
Routed to Pond 40P : ci45

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 16.10' @ 12.18 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	15.25'	**15.0" Round RCP_Round 15"** L= 46.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 15.25' / 15.13' S= 0.0026 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 1.23 sf

Primary OutFlow Max=1.84 cfs @ 12.18 hrs HW=16.09' (Free Discharge)
1=RCP_Round 15" (Barrel Controls 1.84 cfs @ 2.97 fps)

Pond 41P: ci47



Summary for Pond 42P: ci46

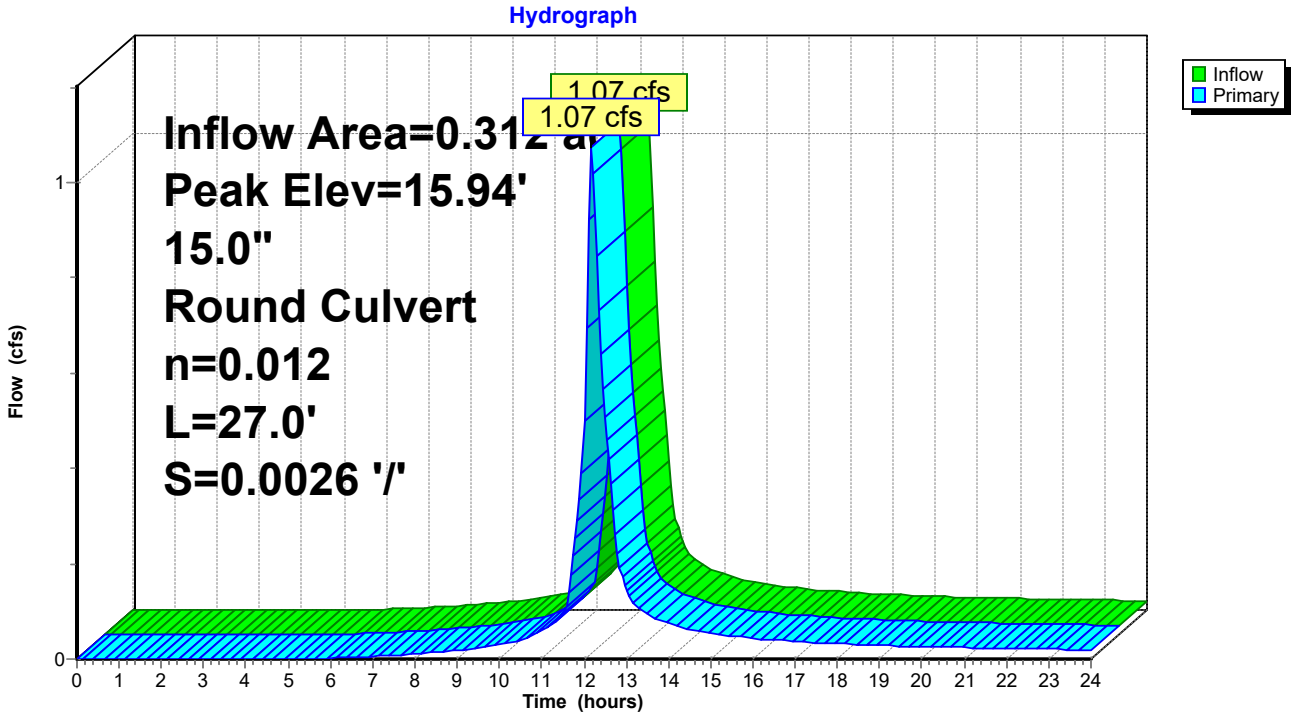
Inflow Area = 0.312 ac, 38.00% Impervious, Inflow Depth > 3.89" for 2-yr event
Inflow = 1.07 cfs @ 12.18 hrs, Volume= 0.101 af
Outflow = 1.07 cfs @ 12.18 hrs, Volume= 0.101 af, Atten= 0%, Lag= 0.0 min
Primary = 1.07 cfs @ 12.18 hrs, Volume= 0.101 af
Routed to Pond 41P : ci47

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 15.94' @ 12.18 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	15.32'	**15.0" Round RCP_Round 15"** L= 27.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 15.32' / 15.25' S= 0.0026 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 1.23 sf

Primary OutFlow Max=1.06 cfs @ 12.18 hrs HW=15.94' (Free Discharge)
1=RCP_Round 15" (Barrel Controls 1.06 cfs @ 2.56 fps)

Pond 42P: ci46



Summary for Pond 46P: ci42

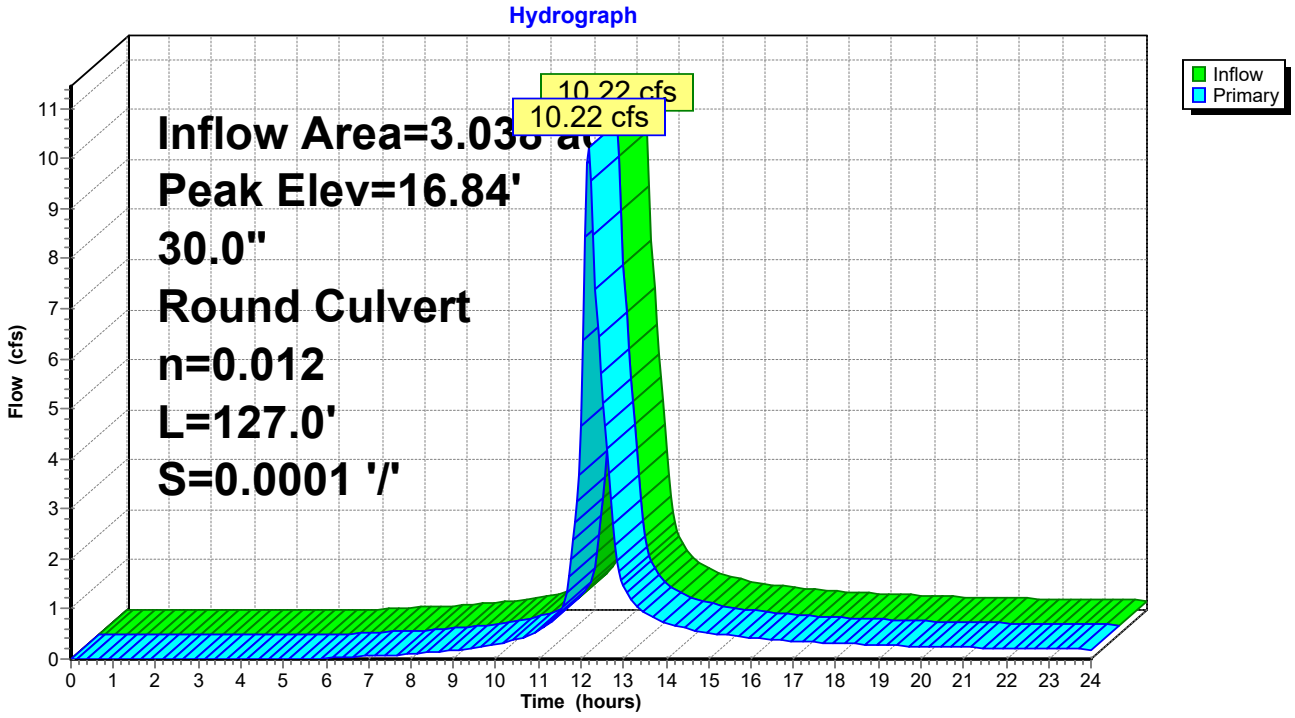
Inflow Area = 3.038 ac, 38.00% Impervious, Inflow Depth > 3.89" for 2-yr event
Inflow = 10.22 cfs @ 12.19 hrs, Volume= 0.985 af
Outflow = 10.22 cfs @ 12.19 hrs, Volume= 0.985 af, Atten= 0%, Lag= 0.0 min
Primary = 10.22 cfs @ 12.19 hrs, Volume= 0.985 af
Routed to Pond 38P : ci42a

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 16.84' @ 12.19 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	14.96'	**30.0" Round RCP_Round 30"** L= 127.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 14.96' / 14.95' S= 0.0001 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 4.91 sf

Primary OutFlow Max=10.15 cfs @ 12.19 hrs HW=16.83' (Free Discharge)
1=RCP_Round 30" (Barrel Controls 10.15 cfs @ 3.57 fps)

Pond 46P: ci42



Summary for Pond 47P: ci41

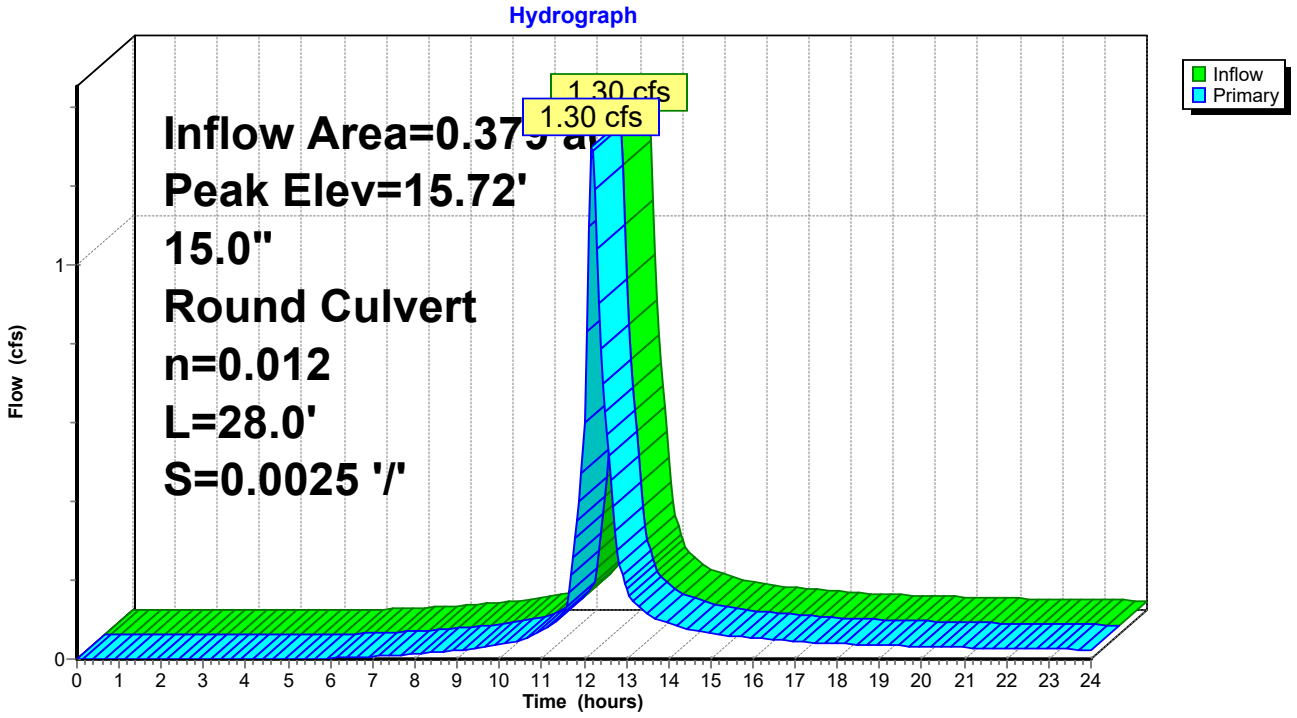
Inflow Area = 0.379 ac, 38.00% Impervious, Inflow Depth > 3.89" for 2-yr event
Inflow = 1.30 cfs @ 12.18 hrs, Volume= 0.123 af
Outflow = 1.30 cfs @ 12.18 hrs, Volume= 0.123 af, Atten= 0%, Lag= 0.0 min
Primary = 1.30 cfs @ 12.18 hrs, Volume= 0.123 af
Routed to Pond 46P : ci42

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 15.72' @ 12.18 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	15.03'	**15.0" Round RCP_Round 15"** L= 28.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 15.03' / 14.96' S= 0.0025 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 1.23 sf

Primary OutFlow Max=1.28 cfs @ 12.18 hrs HW=15.72' (Free Discharge)
1=RCP_Round 15" (Barrel Controls 1.28 cfs @ 2.68 fps)

Pond 47P: ci41



Summary for Pond 50P: Detention Pond

Inflow Area = 24.537 ac, 24.11% Impervious, Inflow Depth > 3.45" for 2-yr event
Inflow = 53.02 cfs @ 12.21 hrs, Volume= 7.044 af
Outflow = 15.06 cfs @ 13.11 hrs, Volume= 6.232 af, Atten= 72%, Lag= 54.3 min
Primary = 15.06 cfs @ 13.11 hrs, Volume= 6.232 af
Routed to Reach 85R : (new Reach)
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Routed to Reach 85R : (new Reach)

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 16.33' @ 13.11 hrs Surf.Area= 68,502 sf Storage= 117,975 cf

Plug-Flow detention time= 159.2 min calculated for 6.232 af (88% of inflow)
Center-of-Mass det. time= 104.1 min (949.5 - 845.4)

Volume	Invert	Avail.Storage	Storage Description
#1	14.52'	202,186 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

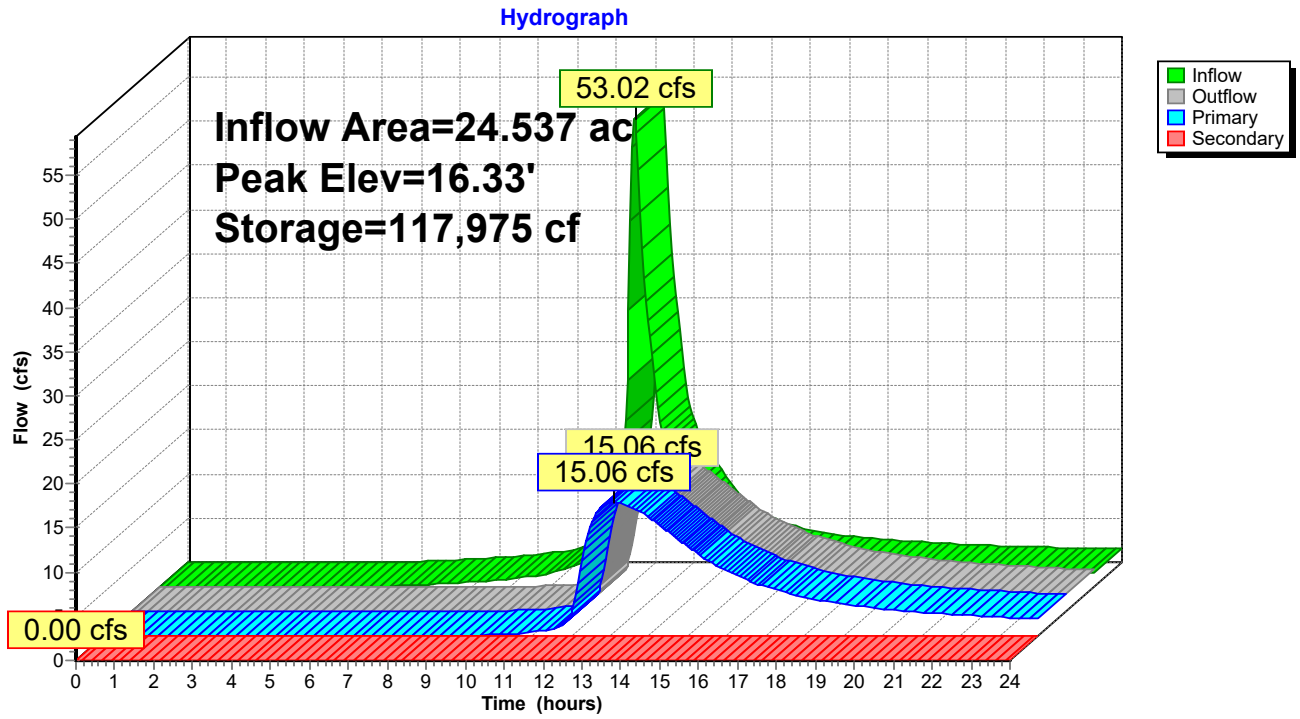
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
14.52	61,969	0	0
15.52	65,555	63,762	63,762
16.52	69,198	67,377	131,139
17.52	72,897	71,048	202,186

Device	Routing	Invert	Outlet Devices
#1	Secondary	18.50'	**3.0' long x 1.00' rise Sharp-Crested Rectangular Weir X 4.00** 2 End Contraction(s) 3.0' Crest Height
#2	Primary	14.52'	**26.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=15.06 cfs @ 13.11 hrs HW=16.33' (Free Discharge)
↑**2=Orifice/Grate** (Orifice Controls 15.06 cfs @ 4.58 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=14.52' (Free Discharge)
↑**1=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 50P: Detention Pond



Summary for Pond 51P: ci23

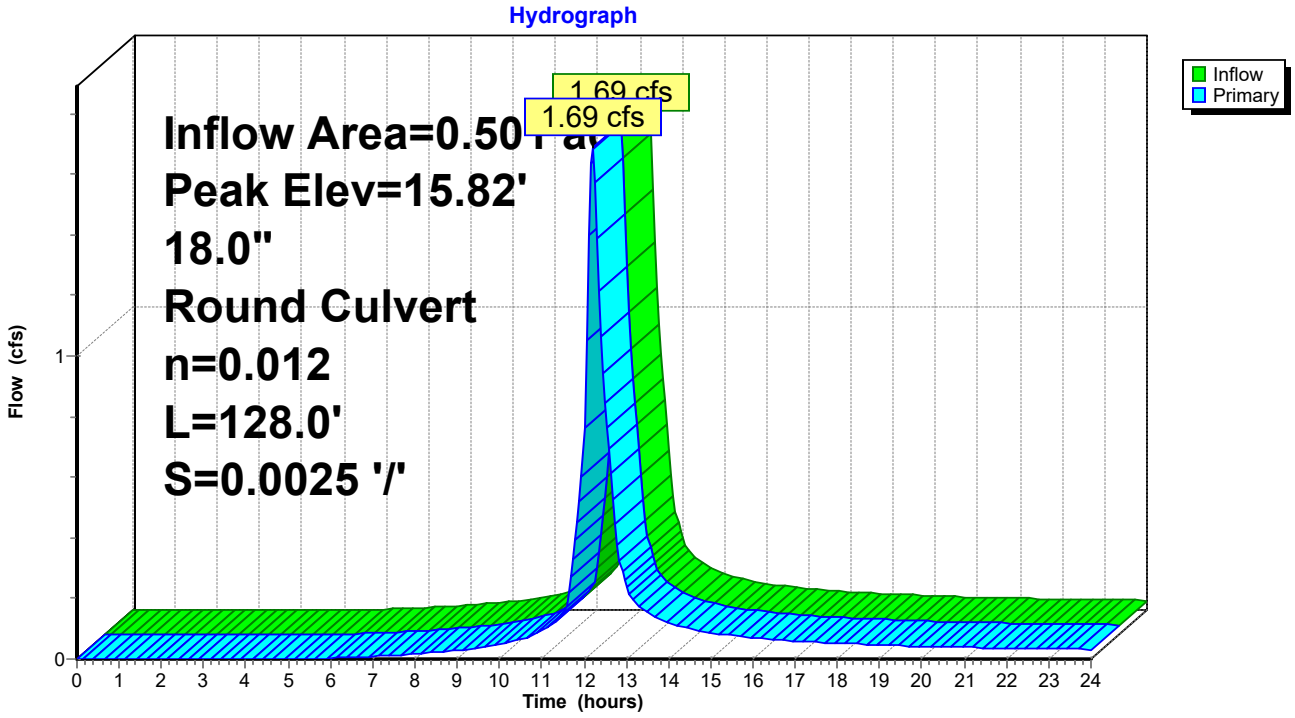
Inflow Area = 0.501 ac, 38.00% Impervious, Inflow Depth > 3.89" for 2-yr event
Inflow = 1.69 cfs @ 12.19 hrs, Volume= 0.162 af
Outflow = 1.69 cfs @ 12.19 hrs, Volume= 0.162 af, Atten= 0%, Lag= 0.0 min
Primary = 1.69 cfs @ 12.19 hrs, Volume= 0.162 af
Routed to Pond 52P : ci24

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 15.82' @ 12.19 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	15.07'	**18.0" Round RCP_Round 18"** L= 128.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 15.07' / 14.75' S= 0.0025 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 1.77 sf

Primary OutFlow Max=1.68 cfs @ 12.19 hrs HW=15.81' (Free Discharge)
1=RCP_Round 18" (Barrel Controls 1.68 cfs @ 2.81 fps)

Pond 51P: ci23



Summary for Pond 52P: ci24

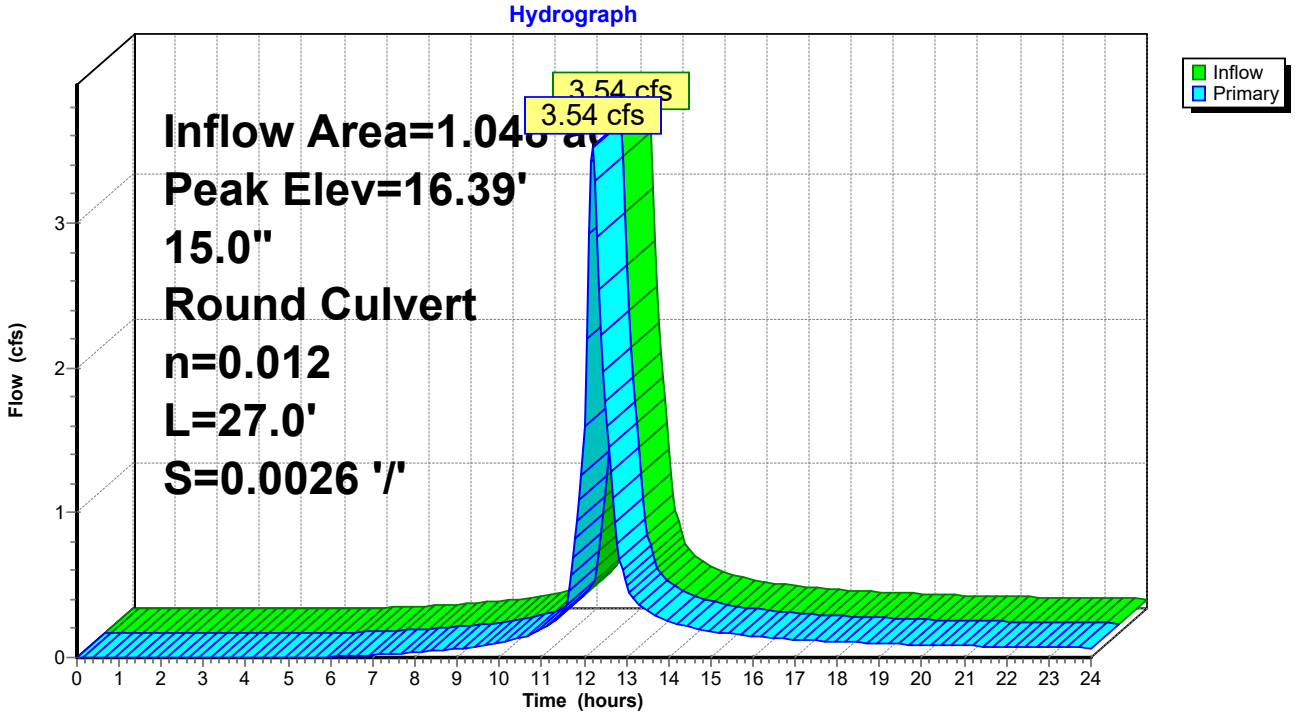
Inflow Area = 1.048 ac, 38.00% Impervious, Inflow Depth > 3.89" for 2-yr event
Inflow = 3.54 cfs @ 12.19 hrs, Volume= 0.340 af
Outflow = 3.54 cfs @ 12.19 hrs, Volume= 0.340 af, Atten= 0%, Lag= 0.0 min
Primary = 3.54 cfs @ 12.19 hrs, Volume= 0.340 af

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 16.39' @ 12.19 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	15.14'	**15.0" Round RCP_Round 15"** L= 27.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 15.14' / 15.07' S= 0.0026 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 1.23 sf

Primary OutFlow Max=3.51 cfs @ 12.19 hrs HW=16.38' (Free Discharge)
└**1=RCP_Round 15"** (Barrel Controls 3.51 cfs @ 3.58 fps)

Pond 52P: ci24



Summary for Pond 55P: ci20

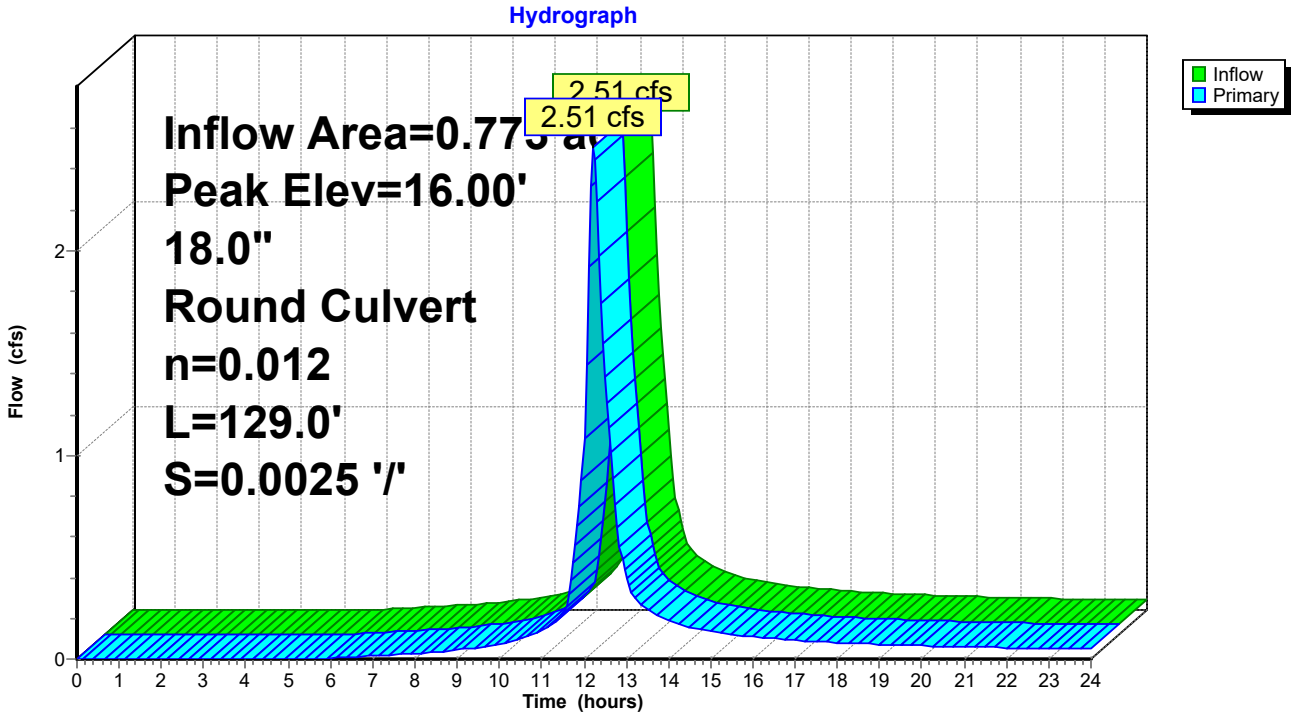
Inflow Area = 0.773 ac, 38.00% Impervious, Inflow Depth > 3.89" for 2-yr event
Inflow = 2.51 cfs @ 12.21 hrs, Volume= 0.251 af
Outflow = 2.51 cfs @ 12.21 hrs, Volume= 0.251 af, Atten= 0%, Lag= 0.0 min
Primary = 2.51 cfs @ 12.21 hrs, Volume= 0.251 af
Routed to Pond 56P : ci21

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 16.00' @ 12.21 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	15.07'	**18.0" Round RCP_Round 18"** L= 129.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 15.07' / 14.75' S= 0.0025 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 1.77 sf

Primary OutFlow Max=2.48 cfs @ 12.21 hrs HW=15.99' (Free Discharge)
1=RCP_Round 18" (Barrel Controls 2.48 cfs @ 3.12 fps)

Pond 55P: ci20



Summary for Pond 56P: ci21

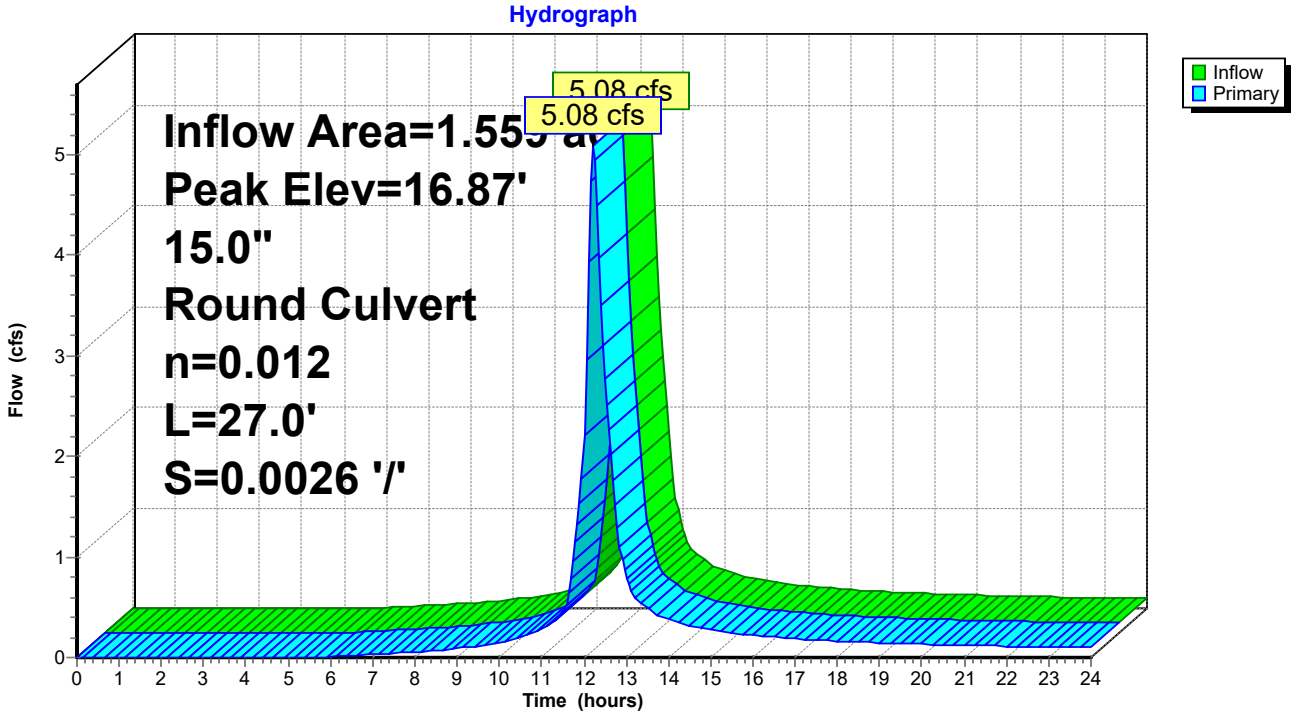
Inflow Area = 1.559 ac, 38.00% Impervious, Inflow Depth > 3.89" for 2-yr event
Inflow = 5.08 cfs @ 12.21 hrs, Volume= 0.505 af
Outflow = 5.08 cfs @ 12.21 hrs, Volume= 0.505 af, Atten= 0%, Lag= 0.0 min
Primary = 5.08 cfs @ 12.21 hrs, Volume= 0.505 af

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 16.87' @ 12.22 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	15.14'	**15.0" Round RCP_Round 15"** L= 27.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 15.14' / 15.07' S= 0.0026 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 1.23 sf

Primary OutFlow Max=5.04 cfs @ 12.21 hrs HW=16.85' (Free Discharge)
└**1=RCP_Round 15"** (Barrel Controls 5.04 cfs @ 4.11 fps)

Pond 56P: ci21



Summary for Pond 59P: ci43

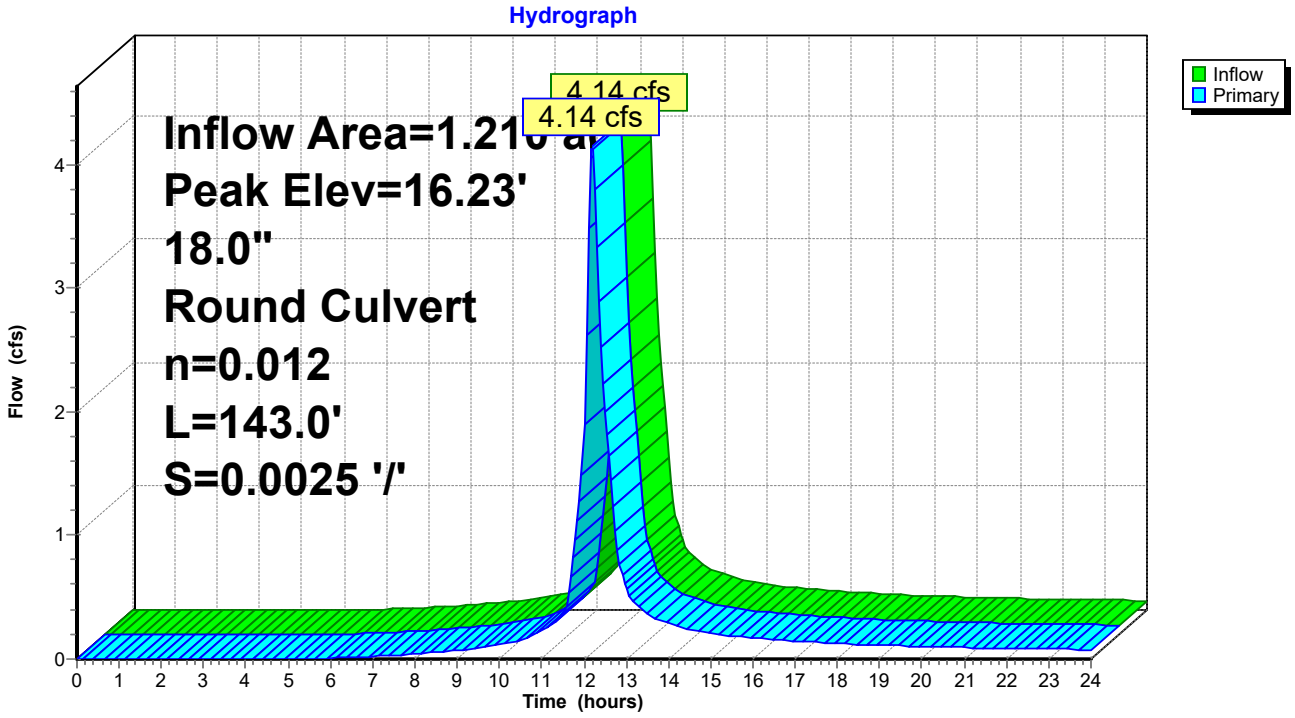
Inflow Area = 1.210 ac, 38.00% Impervious, Inflow Depth > 3.89" for 2-yr event
Inflow = 4.14 cfs @ 12.18 hrs, Volume= 0.392 af
Outflow = 4.14 cfs @ 12.18 hrs, Volume= 0.392 af, Atten= 0%, Lag= 0.0 min
Primary = 4.14 cfs @ 12.18 hrs, Volume= 0.392 af
Routed to Pond 50P : Detention Pond

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 16.23' @ 12.18 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	14.98'	**18.0" Round RCP_Round 18"** L= 143.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 14.98' / 14.62' S= 0.0025 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 1.77 sf

Primary OutFlow Max=4.10 cfs @ 12.18 hrs HW=16.22' (Free Discharge)
1=RCP_Round 18" (Barrel Controls 4.10 cfs @ 3.56 fps)

Pond 59P: ci43



Summary for Pond 60P: ci44

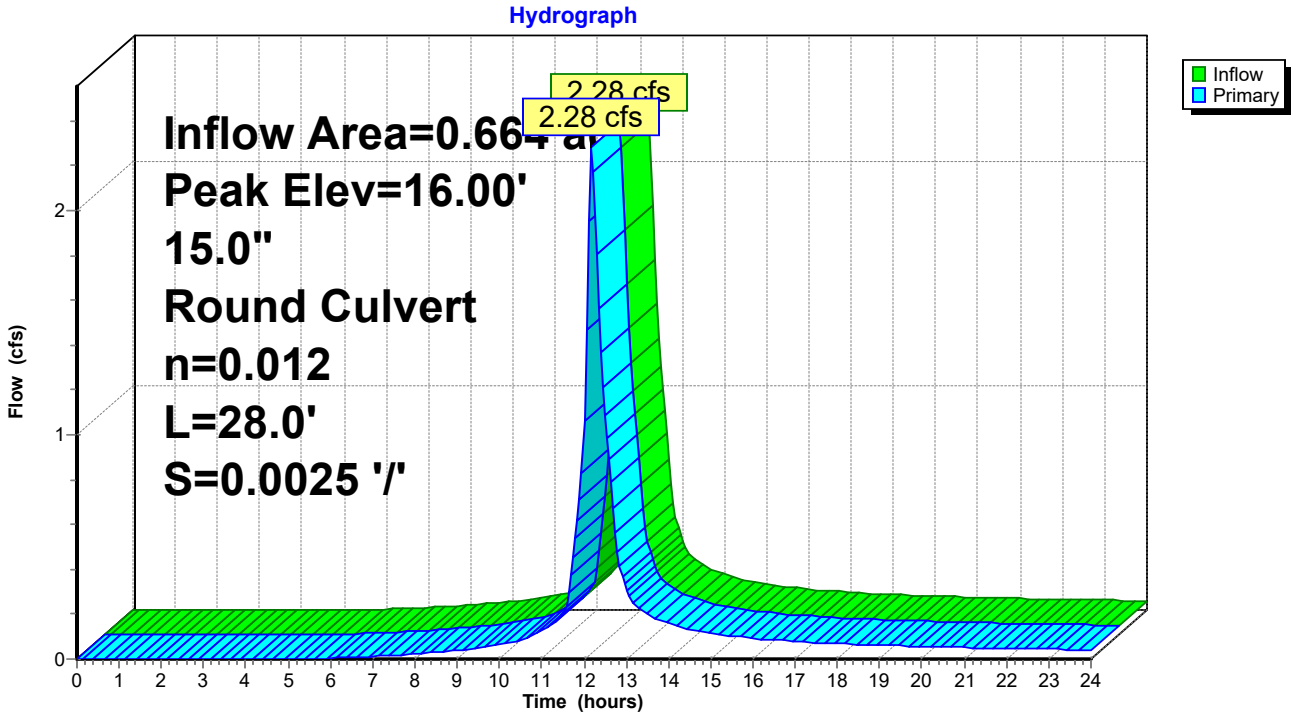
Inflow Area = 0.664 ac, 38.00% Impervious, Inflow Depth > 3.89" for 2-yr event
Inflow = 2.28 cfs @ 12.18 hrs, Volume= 0.215 af
Outflow = 2.28 cfs @ 12.18 hrs, Volume= 0.215 af, Atten= 0%, Lag= 0.0 min
Primary = 2.28 cfs @ 12.18 hrs, Volume= 0.215 af
Routed to Pond 59P : ci43

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 16.00' @ 12.18 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	15.05'	**15.0" Round RCP_Round 15"** L= 28.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 15.05' / 14.98' S= 0.0025 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 1.23 sf

Primary OutFlow Max=2.26 cfs @ 12.18 hrs HW=16.00' (Free Discharge)
1=RCP_Round 15" (Barrel Controls 2.26 cfs @ 3.14 fps)

Pond 60P: ci44



Summary for Pond 63P: ci18

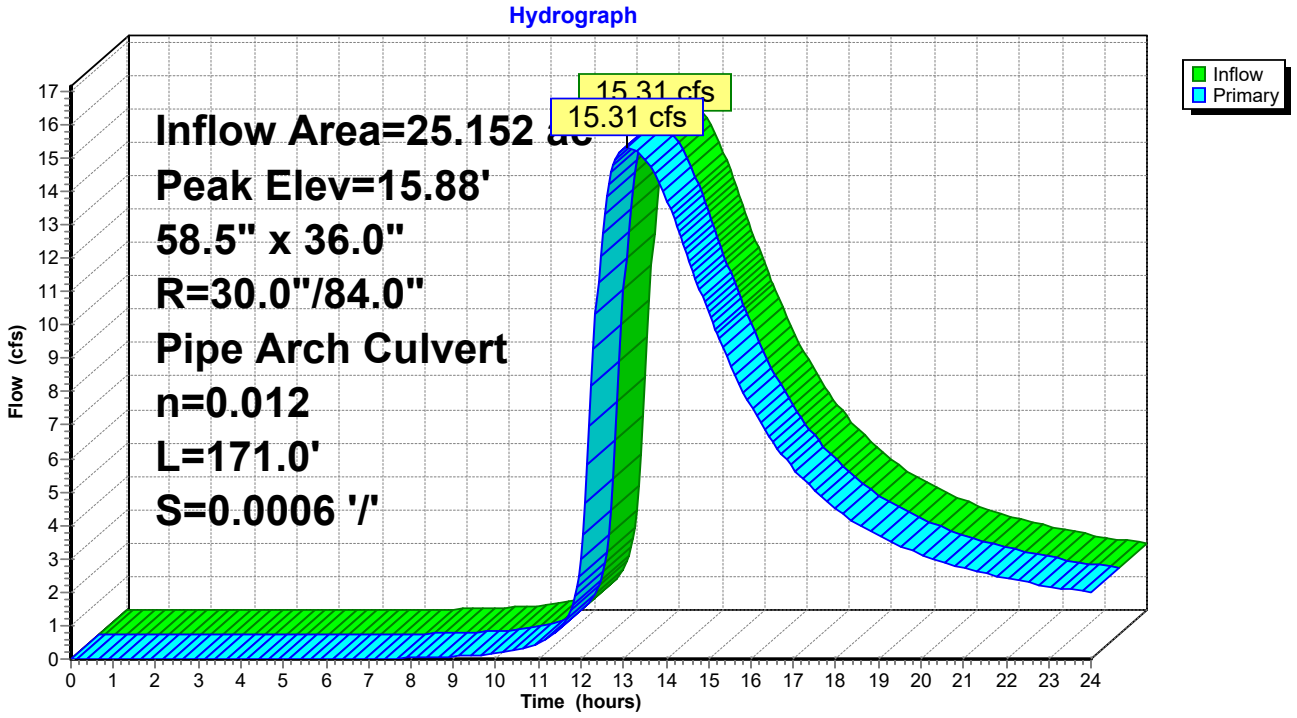
Inflow Area = 25.152 ac, 24.45% Impervious, Inflow Depth > 3.06" for 2-yr event
Inflow = 15.31 cfs @ 13.10 hrs, Volume= 6.421 af
Outflow = 15.31 cfs @ 13.10 hrs, Volume= 6.421 af, Atten= 0%, Lag= 0.0 min
Primary = 15.31 cfs @ 13.10 hrs, Volume= 6.421 af
Routed to Pond 64P : ci19

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 15.88' @ 13.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	14.43'	**58.5" W x 36.0" H, R=30.0"/84.0" Pipe Arch RCP_Arch 59x36** L= 171.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 14.43' / 14.33' S= 0.0006 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 11.40 sf

Primary OutFlow Max=15.31 cfs @ 13.10 hrs HW=15.88' (Free Discharge)
1=RCP_Arch 59x36 (Barrel Controls 15.31 cfs @ 3.41 fps)

Pond 63P: ci18



Summary for Pond 64P: ci19

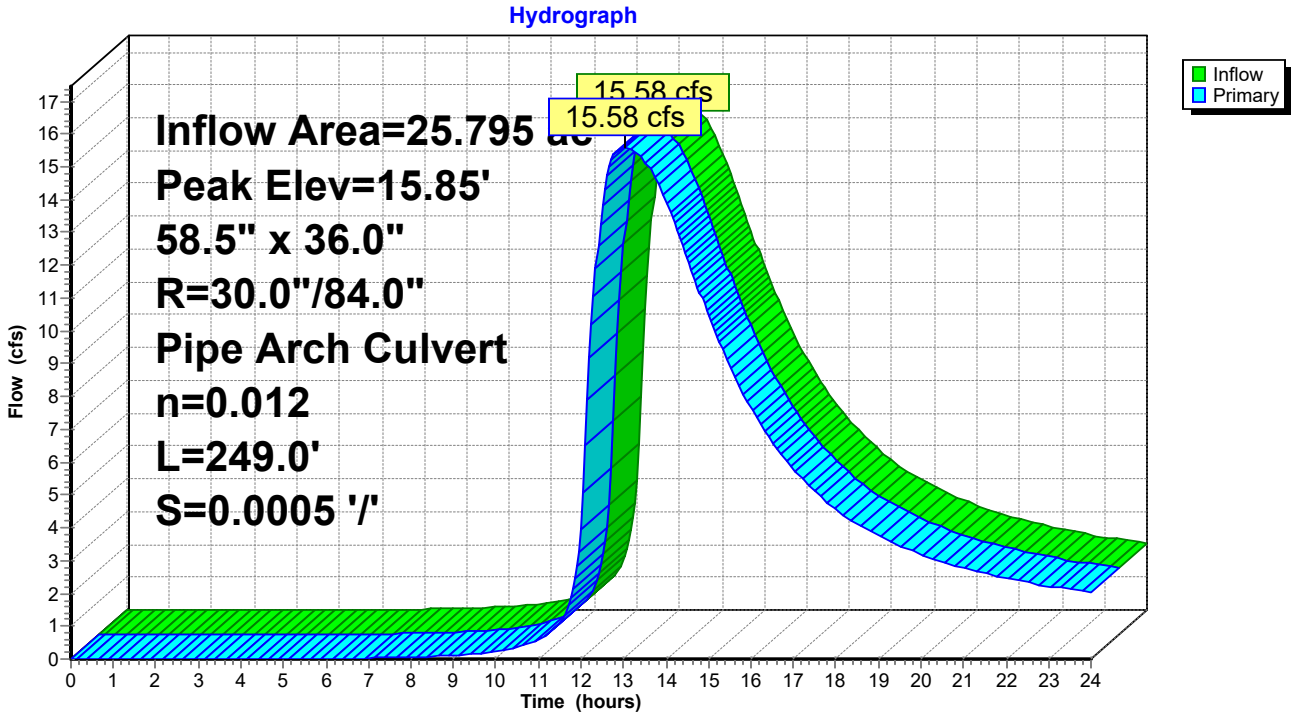
Inflow Area = 25.795 ac, 24.79% Impervious, Inflow Depth > 3.08" for 2-yr event
Inflow = 15.58 cfs @ 13.03 hrs, Volume= 6.629 af
Outflow = 15.58 cfs @ 13.03 hrs, Volume= 6.629 af, Atten= 0%, Lag= 0.0 min
Primary = 15.58 cfs @ 13.03 hrs, Volume= 6.629 af
Routed to Pond 67P : ci11

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 15.85' @ 13.03 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	14.33'	**58.5" W x 36.0" H, R=30.0"/84.0" Pipe Arch RCP_Arch 59x36** L= 249.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 14.33' / 14.21' S= 0.0005 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 11.40 sf

Primary OutFlow Max=15.58 cfs @ 13.03 hrs HW=15.85' (Free Discharge)
1=RCP_Arch 59x36 (Barrel Controls 15.58 cfs @ 3.29 fps)

Pond 64P: ci19



Summary for Pond 67P: ci11

Inflow Area = 32.466 ac, 24.22% Impervious, Inflow Depth > 3.12" for 2-yr event
Inflow = 21.49 cfs @ 13.32 hrs, Volume= 8.439 af
Outflow = 21.48 cfs @ 13.33 hrs, Volume= 8.439 af, Atten= 0%, Lag= 0.1 min
Primary = 21.48 cfs @ 13.33 hrs, Volume= 8.439 af
Routed to Pond 84P : ci23a

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 19.00' @ 13.33 hrs Surf.Area= 0.459 ac Storage= 0.001 af

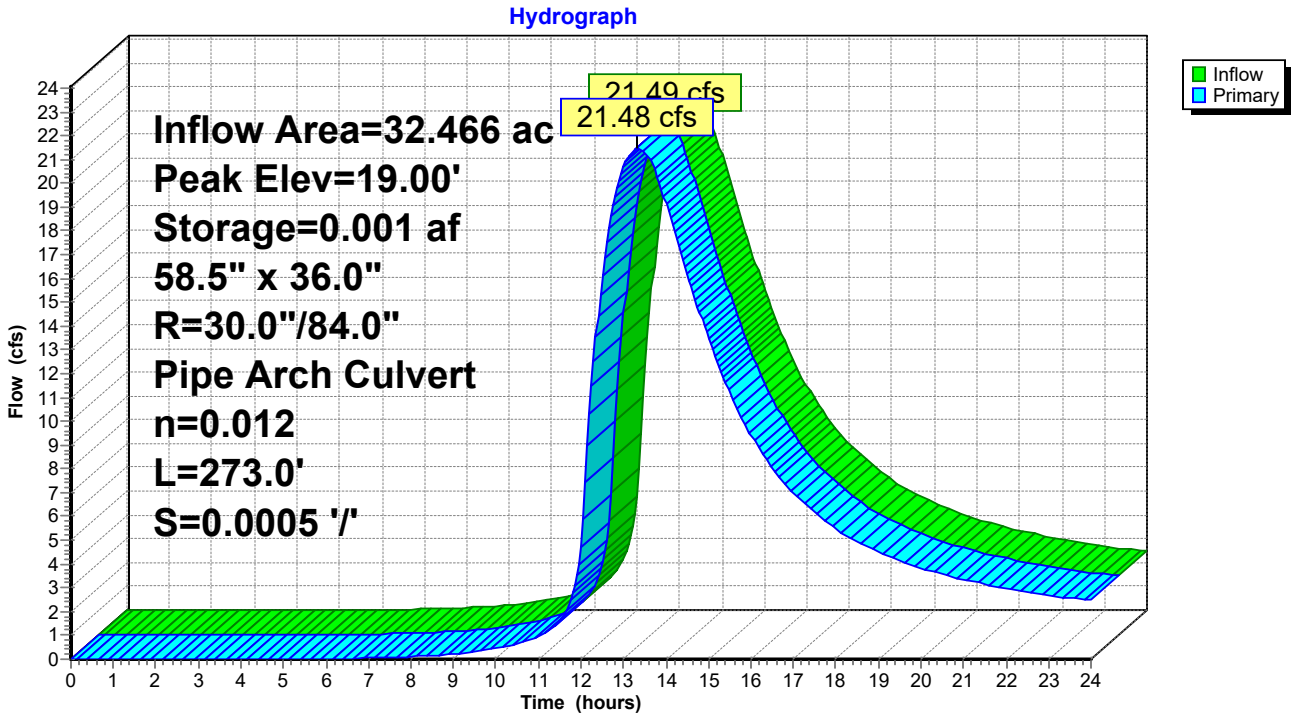
Plug-Flow detention time= 0.0 min calculated for 8.439 af (100% of inflow)
Center-of-Mass det. time= 0.0 min (937.1 - 937.1)

Volume	Invert	Avail.Storage	Storage Description
#1	19.00'	0.480 af	**100.00'W x 200.00'L x 1.00'H Prismatoid Z=3.0**

Device	Routing	Invert	Outlet Devices
#1	Primary	14.21'	**58.5" W x 36.0" H, R=30.0"/84.0" Pipe Arch RCP_Arch 59x36** L= 273.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 14.21' / 14.07' S= 0.0005 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 11.40 sf

Primary OutFlow Max=75.67 cfs @ 13.33 hrs HW=19.00' (Free Discharge)
1=RCP_Arch 59x36 (Barrel Controls 75.67 cfs @ 6.64 fps)

Pond 67P: ci11



Summary for Pond 74P: ci22

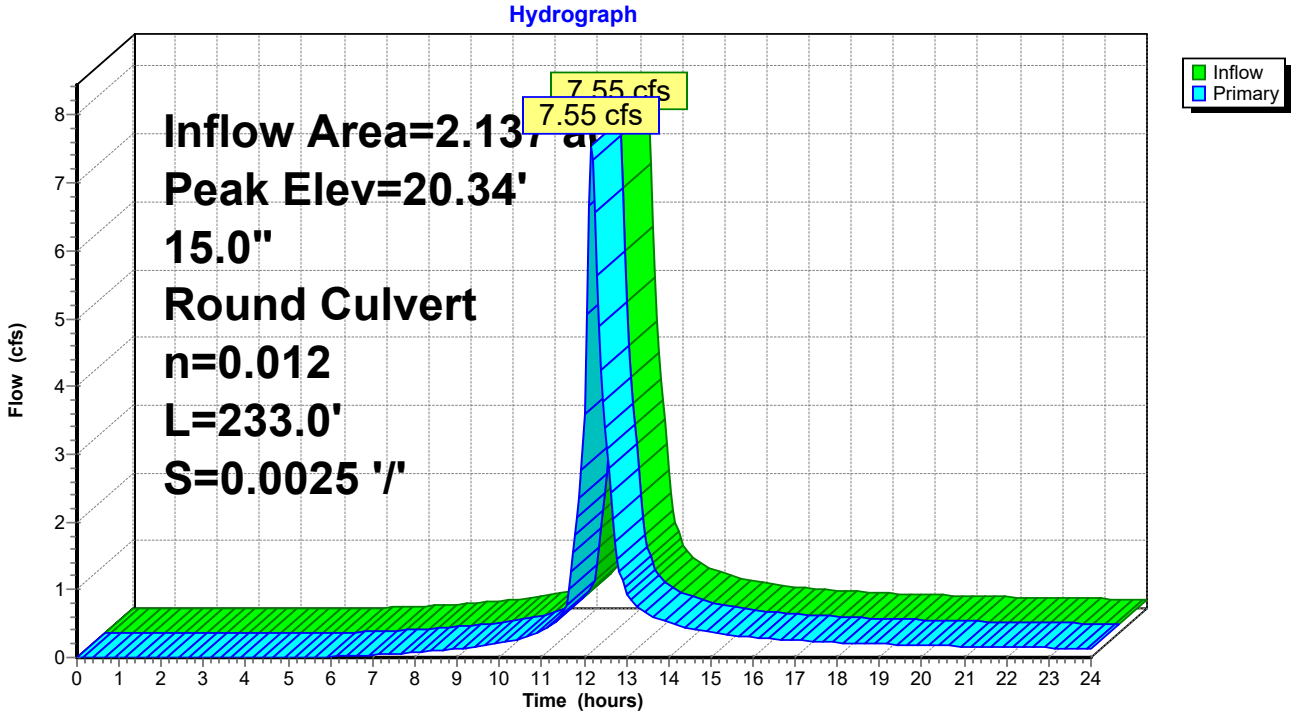
Inflow Area = 2.137 ac, 38.00% Impervious, Inflow Depth > 3.89" for 2-yr event
Inflow = 7.55 cfs @ 12.17 hrs, Volume= 0.693 af
Outflow = 7.55 cfs @ 12.17 hrs, Volume= 0.693 af, Atten= 0%, Lag= 0.0 min
Primary = 7.55 cfs @ 12.17 hrs, Volume= 0.693 af

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 20.34' @ 12.17 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	16.08'	**15.0" Round RCP_Round 15"** L= 233.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 16.08' / 15.50' S= 0.0025 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 1.23 sf

Primary OutFlow Max=7.44 cfs @ 12.17 hrs HW=20.24' (Free Discharge)
└**1=RCP_Round 15"** (Barrel Controls 7.44 cfs @ 6.06 fps)

Pond 74P: ci22



Summary for Pond 77P: ci29a

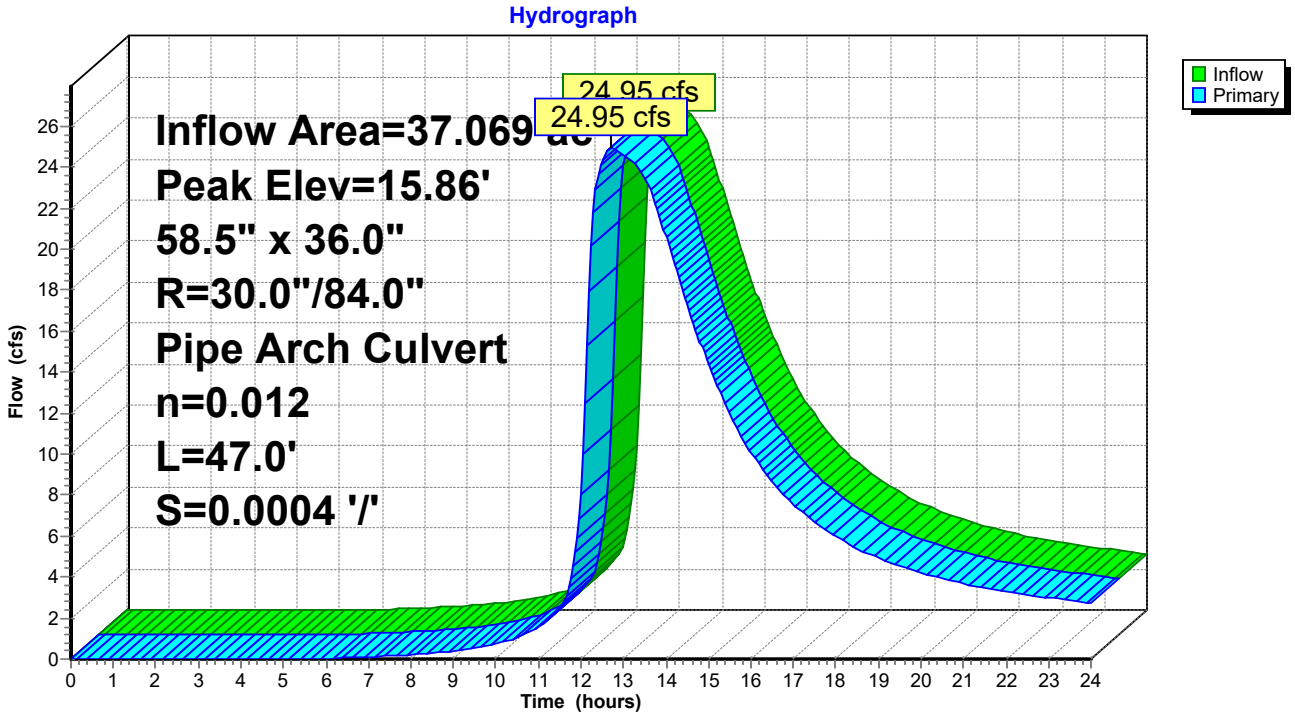
Inflow Area = 37.069 ac, 24.56% Impervious, Inflow Depth > 3.17" for 2-yr event
Inflow = 24.95 cfs @ 12.72 hrs, Volume= 9.784 af
Outflow = 24.95 cfs @ 12.72 hrs, Volume= 9.784 af, Atten= 0%, Lag= 0.0 min
Primary = 24.95 cfs @ 12.72 hrs, Volume= 9.784 af
Routed to Pond 78P : ci48

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 15.86' @ 12.72 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	14.02'	**58.5" W x 36.0" H, R=30.0"/84.0" Pipe Arch RCP_Arch 59x36** L= 47.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 14.02' / 14.00' S= 0.0004 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 11.40 sf

Primary OutFlow Max=24.94 cfs @ 12.72 hrs HW=15.86' (Free Discharge)
1=RCP_Arch 59x36 (Barrel Controls 24.94 cfs @ 4.23 fps)

Pond 77P: ci29a



Summary for Pond 78P: ci48

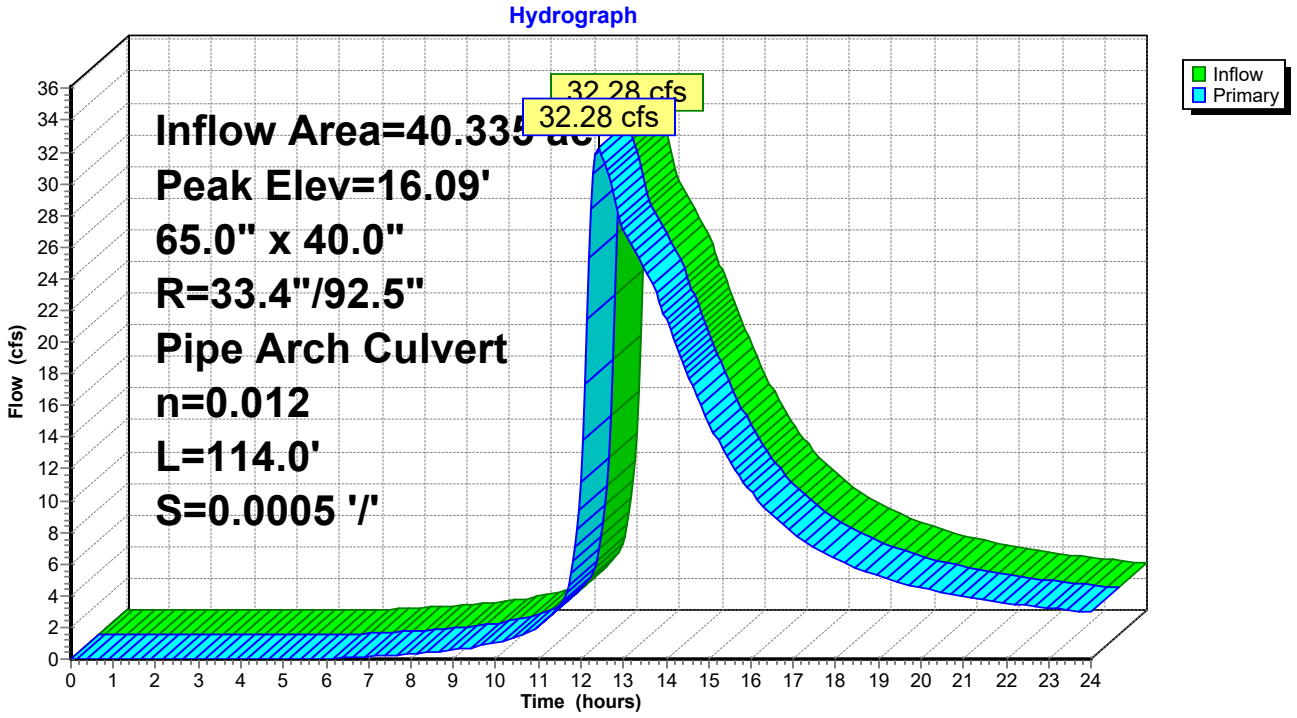
Inflow Area = 40.335 ac, 25.65% Impervious, Inflow Depth > 3.23" for 2-yr event
Inflow = 32.28 cfs @ 12.41 hrs, Volume= 10.840 af
Outflow = 32.28 cfs @ 12.41 hrs, Volume= 10.840 af, Atten= 0%, Lag= 0.0 min
Primary = 32.28 cfs @ 12.41 hrs, Volume= 10.840 af
Routed to Pond 79P : ci49

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 16.09' @ 12.41 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	14.00'	**65.0" W x 40.0" H, R=33.4"/92.5" Pipe Arch RCP_Arch 65x40** L= 114.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 14.00' / 13.94' S= 0.0005 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 14.07 sf

Primary OutFlow Max=32.22 cfs @ 12.41 hrs HW=16.08' (Free Discharge)
1=RCP_Arch 65x40 (Barrel Controls 32.22 cfs @ 4.35 fps)

Pond 78P: ci48



Summary for Pond 79P: ci49

Inflow Area = 43.601 ac, 26.57% Impervious, Inflow Depth > 3.27" for 2-yr event
Inflow = 37.66 cfs @ 12.47 hrs, Volume= 11.890 af
Outflow = 37.66 cfs @ 12.47 hrs, Volume= 11.890 af, Atten= 0%, Lag= 0.0 min
Primary = 37.66 cfs @ 12.47 hrs, Volume= 11.890 af
Routed to Pond 82P : ci15

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 19.00' @ 12.47 hrs Surf.Area= 1.378 ac Storage= 0.005 af

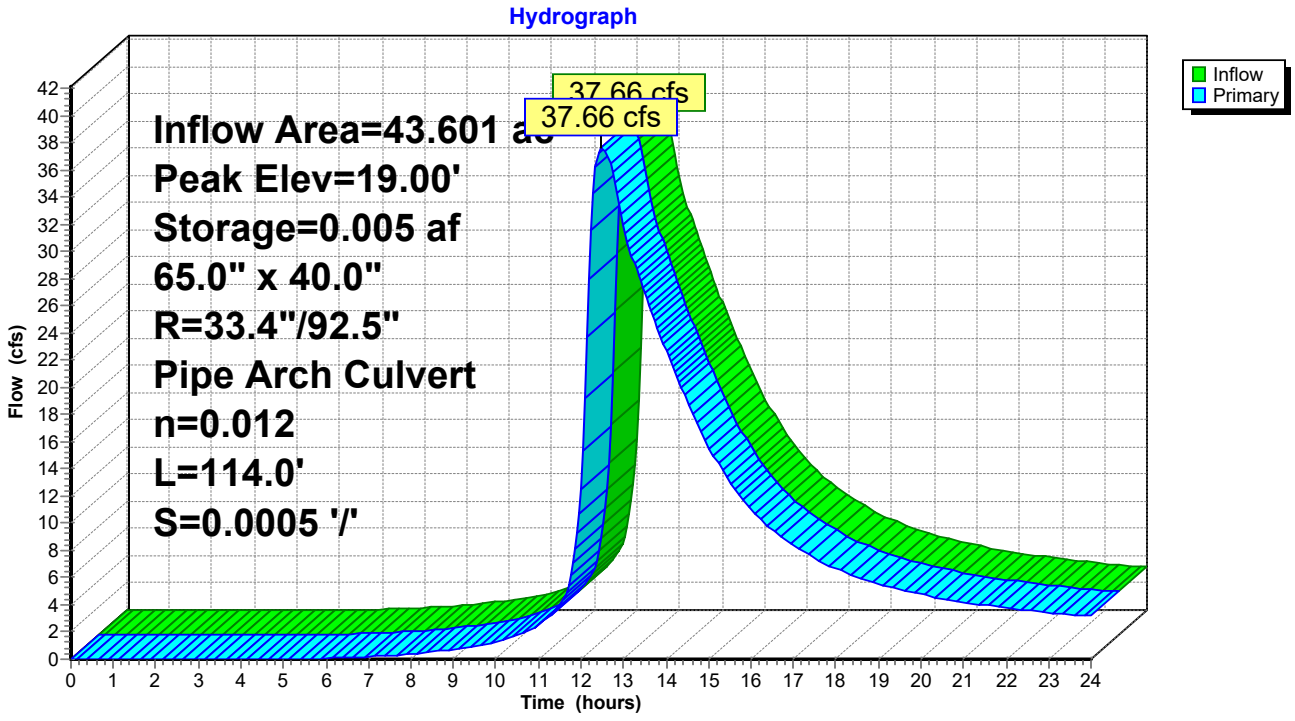
Plug-Flow detention time= 0.1 min calculated for 11.865 af (100% of inflow)
Center-of-Mass det. time= 0.1 min (909.2 - 909.1)

Volume	Invert	Avail.Storage	Storage Description
#1	19.00'	1.426 af	**100.00'W x 600.00'L x 1.00'H Prismatoid Z=3.0**

Device	Routing	Invert	Outlet Devices
#1	Primary	13.94'	**65.0" W x 40.0" H, R=33.4"/92.5" Pipe Arch RCP_Arch 65x40** L= 114.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 13.94' / 13.88' S= 0.0005 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 14.07 sf

Primary OutFlow Max=107.36 cfs @ 12.47 hrs HW=19.00' (Free Discharge)
1=RCP_Arch 65x40 (Barrel Controls 107.36 cfs @ 7.63 fps)

Pond 79P: ci49



Summary for Pond 82P: ci15

Inflow Area = 45.886 ac, 27.14% Impervious, Inflow Depth > 3.30" for 2-yr event
Inflow = 42.11 cfs @ 12.42 hrs, Volume= 12.630 af
Outflow = 42.11 cfs @ 12.42 hrs, Volume= 12.630 af, Atten= 0%, Lag= 0.0 min
Primary = 42.11 cfs @ 12.42 hrs, Volume= 12.630 af
Routed to Pond 87P : ci50

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 19.00' @ 12.42 hrs Surf.Area= 0.459 ac Storage= 0.002 af

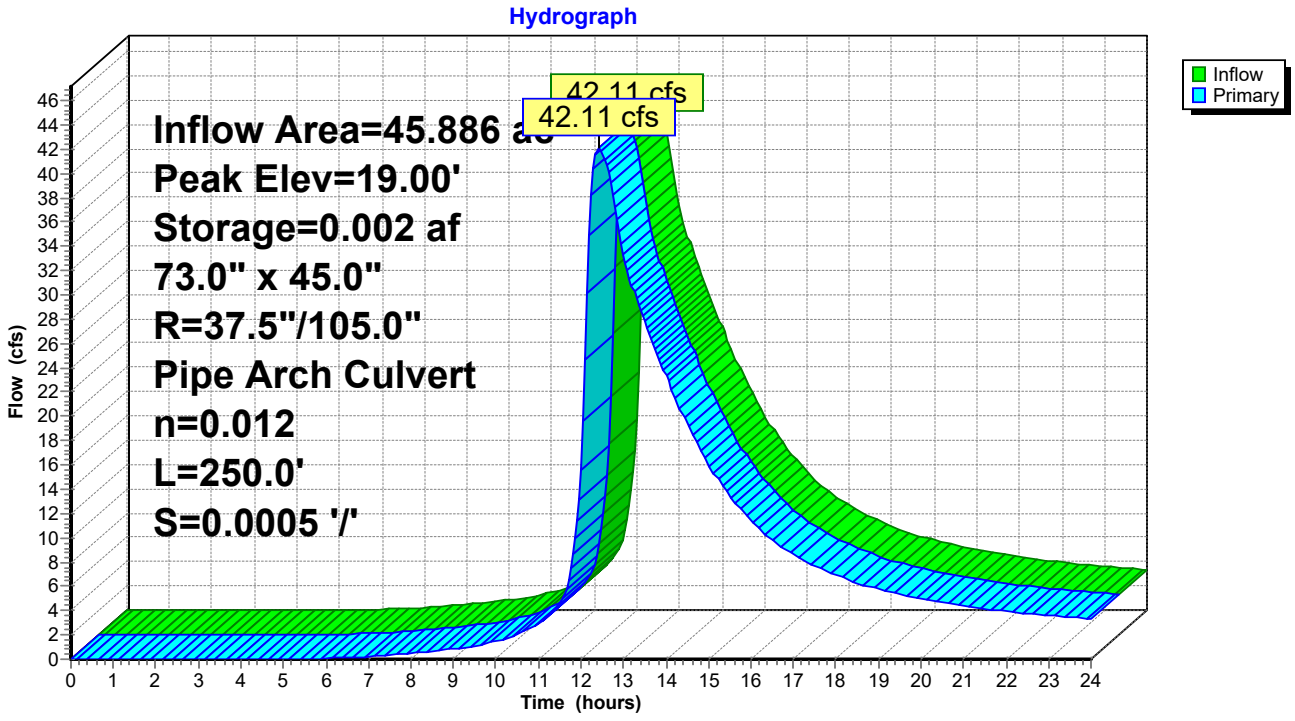
Plug-Flow detention time= 0.0 min calculated for 12.603 af (100% of inflow)
Center-of-Mass det. time= 0.0 min (904.3 - 904.3)

Volume	Invert	Avail.Storage	Storage Description
#1	19.00'	0.480 af	**200.00'W x 100.00'L x 1.00'H Prismatoid Z=3.0**

Device	Routing	Invert	Outlet Devices
#1	Primary	13.88'	**73.0" W x 45.0" H, R=37.5"/105.0" Pipe Arch RCP_Arch 73x45** L= 250.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 13.88' / 13.76' S= 0.0005 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 17.79 sf

Primary OutFlow Max=112.63 cfs @ 12.42 hrs HW=19.00' (Free Discharge)
↑—**1=RCP_Arch 73x45** (Barrel Controls 112.63 cfs @ 6.33 fps)

Pond 82P: ci15



Summary for Pond 83P: ci17

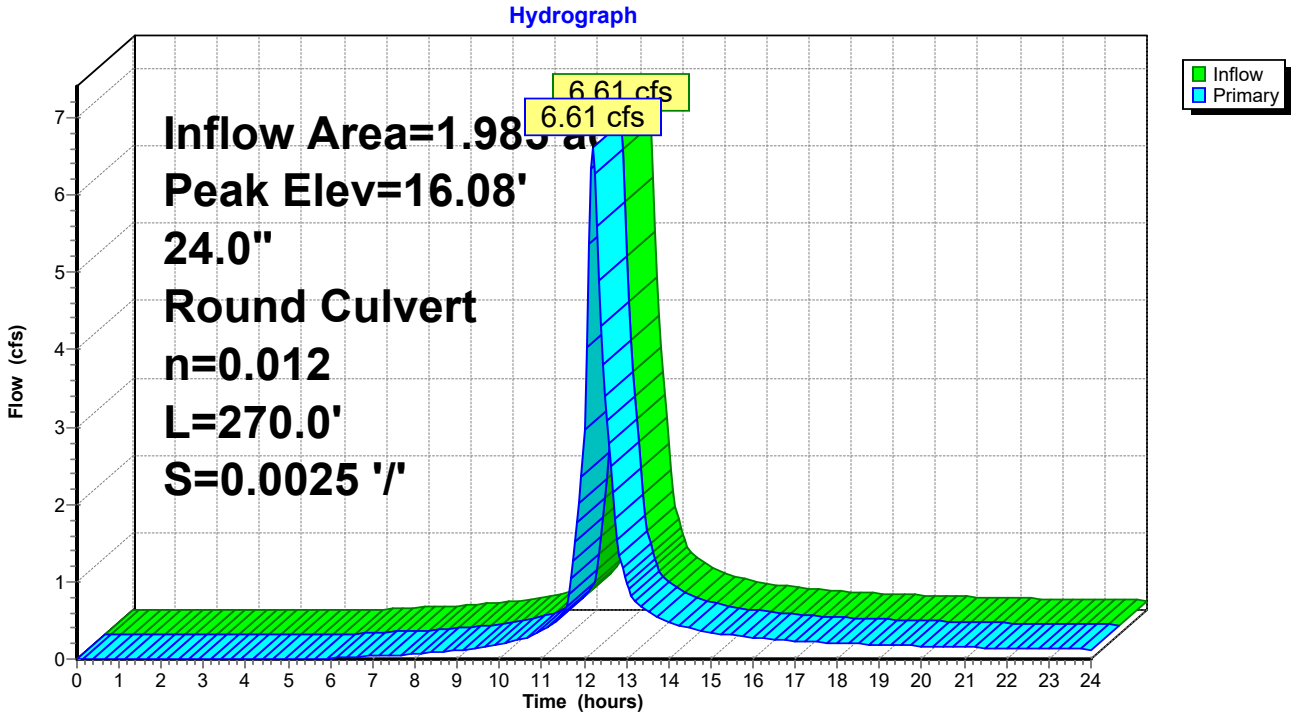
Inflow Area = 1.985 ac, 38.00% Impervious, Inflow Depth > 3.89" for 2-yr event
Inflow = 6.61 cfs @ 12.20 hrs, Volume= 0.644 af
Outflow = 6.61 cfs @ 12.20 hrs, Volume= 0.644 af, Atten= 0%, Lag= 0.0 min
Primary = 6.61 cfs @ 12.20 hrs, Volume= 0.644 af
Routed to Pond 82P : ci15

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 16.08' @ 12.20 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	14.68'	**24.0" Round RCP_Round 24"** L= 270.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 14.68' / 14.00' S= 0.0025 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 3.14 sf

Primary OutFlow Max=6.60 cfs @ 12.20 hrs HW=16.08' (Free Discharge)
1=RCP_Round 24" (Barrel Controls 6.60 cfs @ 3.95 fps)

Pond 83P: ci17



Summary for Pond 84P: ci23a

Inflow Area = 33.803 ac, 23.26% Impervious, Inflow Depth > 3.10" for 2-yr event
Inflow = 22.73 cfs @ 13.28 hrs, Volume= 8.727 af
Outflow = 22.73 cfs @ 13.28 hrs, Volume= 8.727 af, Atten= 0%, Lag= 0.0 min
Primary = 22.73 cfs @ 13.28 hrs, Volume= 8.727 af
Routed to Pond 77P : ci29a

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 19.00' @ 13.28 hrs Surf.Area= 0.459 ac Storage= 0.001 af

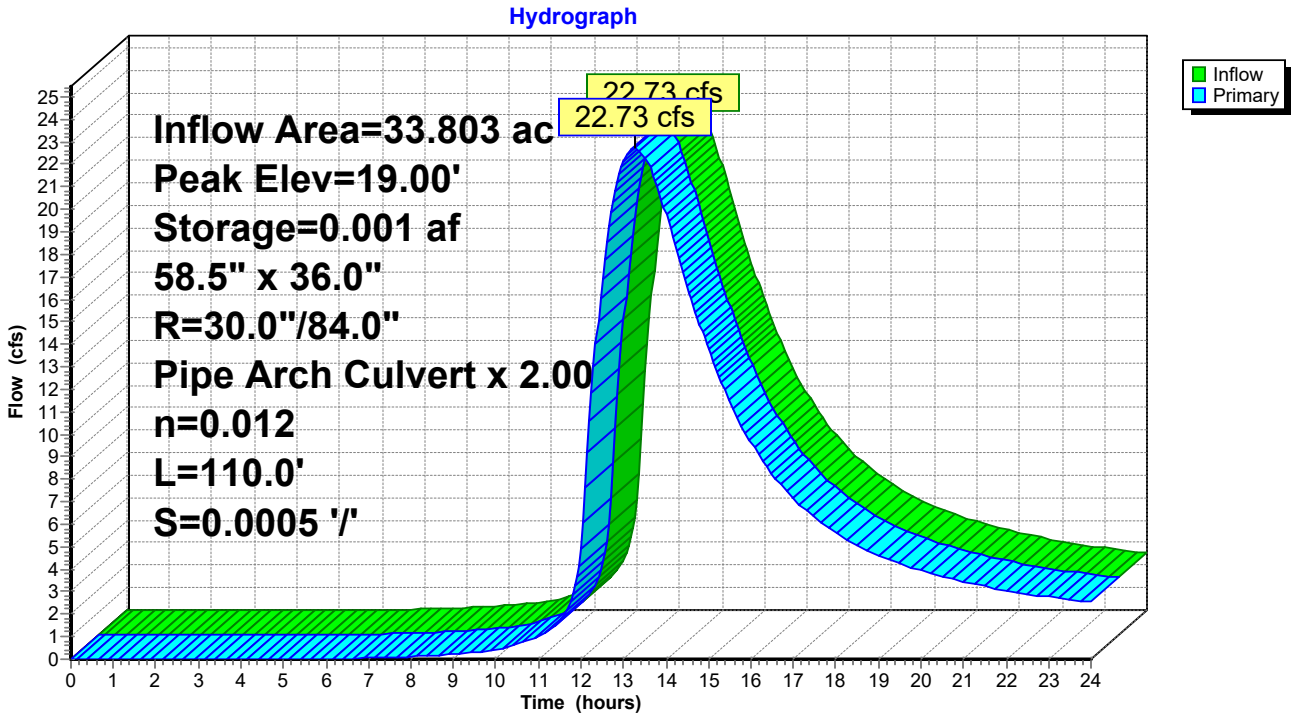
Plug-Flow detention time= 0.0 min calculated for 8.727 af (100% of inflow)
Center-of-Mass det. time= 0.0 min (935.8 - 935.8)

Volume	Invert	Avail.Storage	Storage Description
#1	19.00'	0.480 af	**100.00'W x 200.00'L x 1.00'H Prismatoid Z=3.0**

Device	Routing	Invert	Outlet Devices
#1	Primary	14.07'	**58.5" W x 36.0" H, R=30.0"/84.0" Pipe Arch RCP_Arch 59x36 X 2.00** L= 110.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 14.07' / 14.02' S= 0.0005 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 11.40 sf

Primary OutFlow Max=180.57 cfs @ 13.28 hrs HW=19.00' (Free Discharge)
1=RCP_Arch 59x36 (Barrel Controls 180.57 cfs @ 7.92 fps)

Pond 84P: ci23a



Summary for Pond 87P: ci50

Inflow Area = 48.788 ac, 27.79% Impervious, Inflow Depth > 3.34" for 2-yr event
Inflow = 46.72 cfs @ 12.47 hrs, Volume= 13.562 af
Outflow = 46.72 cfs @ 12.47 hrs, Volume= 13.562 af, Atten= 0%, Lag= 0.0 min
Primary = 46.72 cfs @ 12.47 hrs, Volume= 13.562 af
Routed to Pond 89P : ci58

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 19.00' @ 12.47 hrs Surf.Area= 0.459 ac Storage= 0.002 af

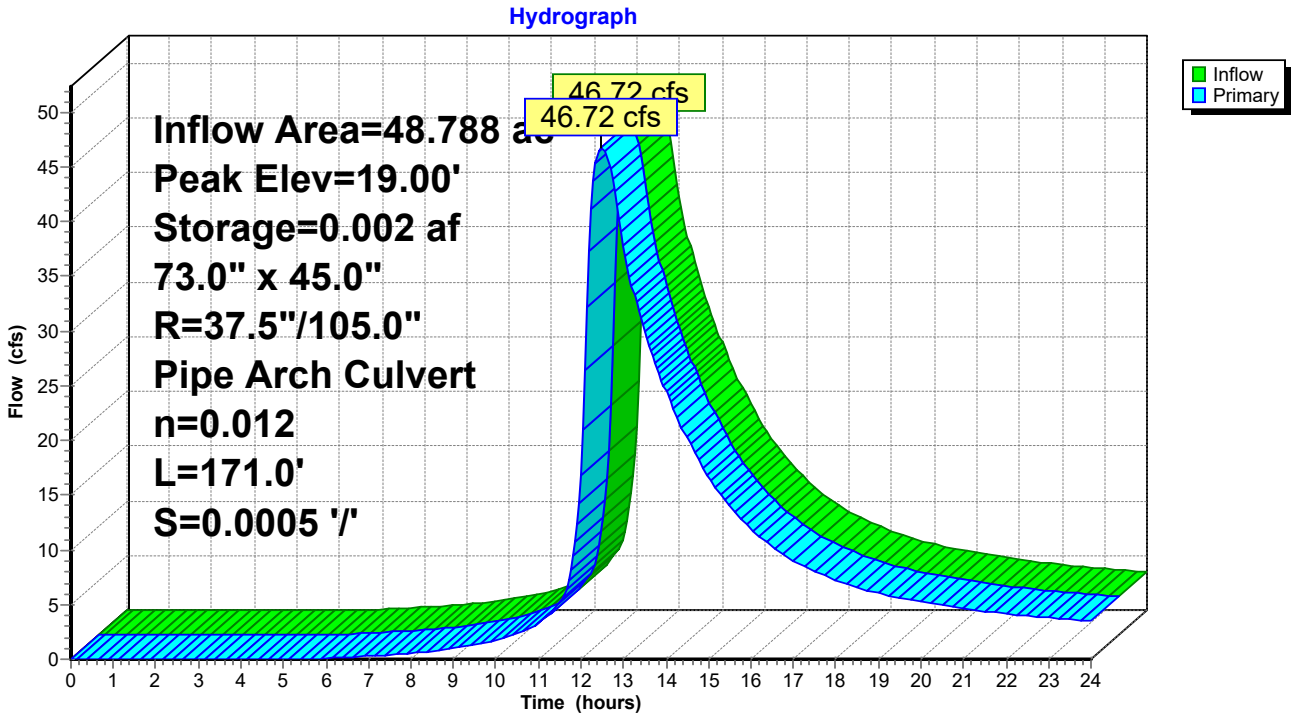
Plug-Flow detention time= 0.0 min calculated for 13.562 af (100% of inflow)
Center-of-Mass det. time= 0.0 min (900.5 - 900.5)

Volume	Invert	Avail.Storage	Storage Description
#1	19.00'	0.480 af	**100.00'W x 200.00'L x 1.00'H Prismatoid Z=3.0**

Device	Routing	Invert	Outlet Devices
#1	Primary	13.76'	**73.0" W x 45.0" H, R=37.5"/105.0" Pipe Arch RCP_Arch 73x45** L= 171.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 13.76' / 13.67' S= 0.0005 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 17.79 sf

Primary OutFlow Max=123.53 cfs @ 12.47 hrs HW=19.00' (Free Discharge)
1=RCP_Arch 73x45 (Barrel Controls 123.53 cfs @ 6.94 fps)

Pond 87P: ci50



Summary for Pond 89P: ci58

Inflow Area = 49.740 ac, 27.98% Impervious, Inflow Depth > 3.35" for 2-yr event
Inflow = 48.44 cfs @ 12.49 hrs, Volume= 13.868 af
Outflow = 48.44 cfs @ 12.49 hrs, Volume= 13.868 af, Atten= 0%, Lag= 0.0 min
Primary = 48.44 cfs @ 12.49 hrs, Volume= 13.868 af
Routed to Pond 91P : ci51

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 19.00' @ 12.49 hrs Surf.Area= 0.258 ac Storage= 0.001 af

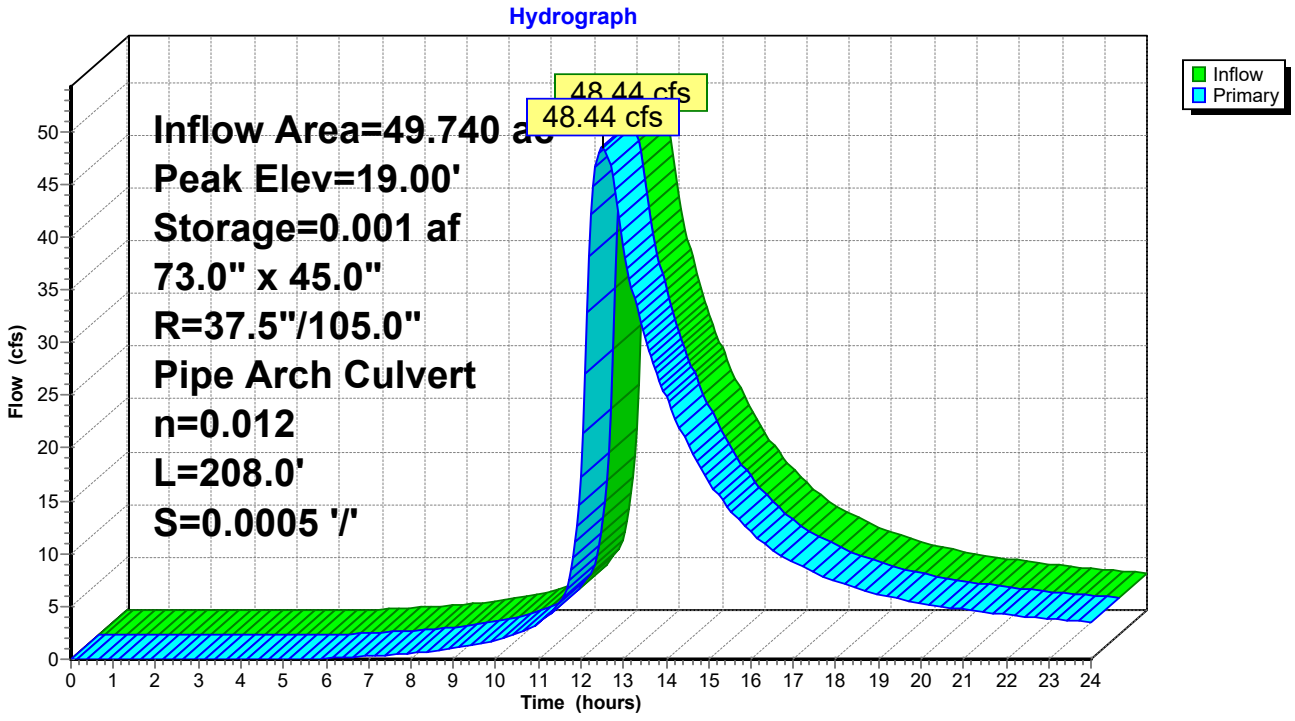
Plug-Flow detention time= 0.0 min calculated for 13.839 af (100% of inflow)
Center-of-Mass det. time= 0.0 min (899.3 - 899.3)

Volume	Invert	Avail.Storage	Storage Description
#1	19.00'	0.274 af	**75.00'W x 150.00'L x 1.00'H Prismatoid Z=3.0**

Device	Routing	Invert	Outlet Devices
#1	Primary	13.67'	**73.0" W x 45.0" H, R=37.5"/105.0" Pipe Arch RCP_Arch 73x45** L= 208.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 13.67' / 13.57' S= 0.0005 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 17.79 sf

Primary OutFlow Max=123.54 cfs @ 12.49 hrs HW=19.00' (Free Discharge)
1=RCP_Arch 73x45 (Barrel Controls 123.54 cfs @ 6.94 fps)

Pond 89P: ci58



Summary for Pond 91P: ci51

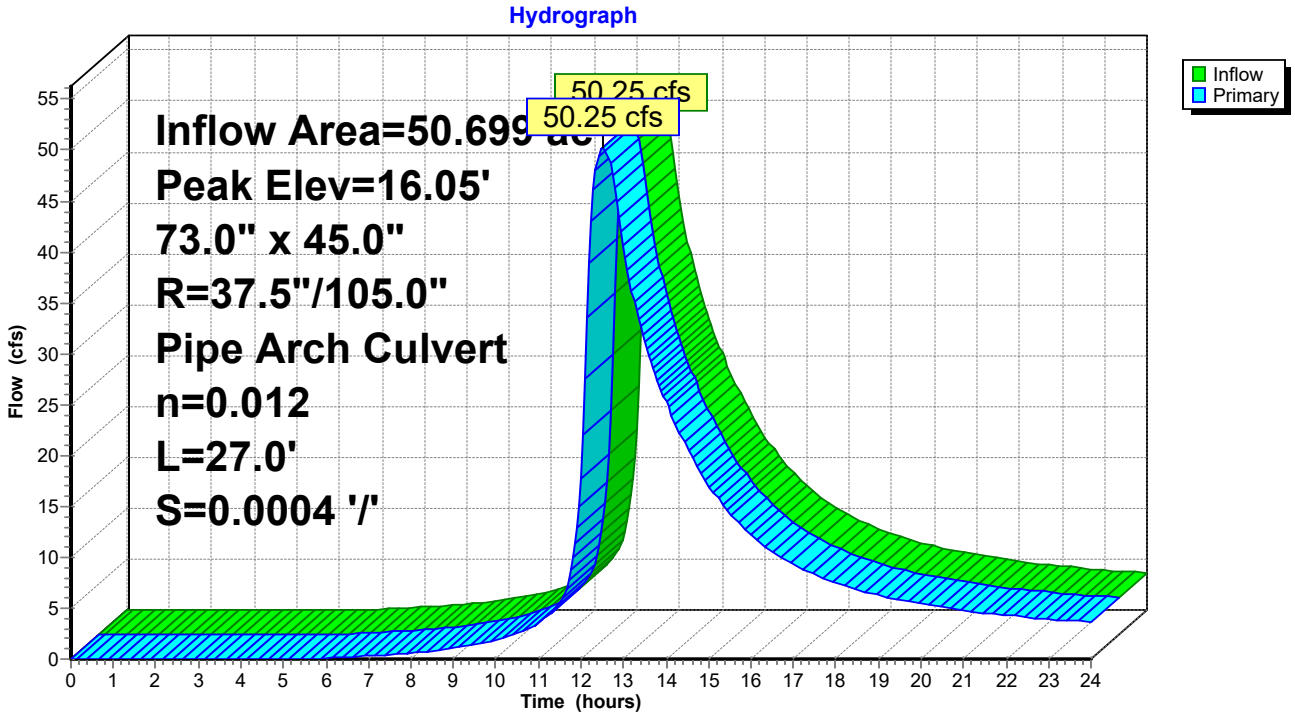
Inflow Area = 50.699 ac, 28.17% Impervious, Inflow Depth > 3.36" for 2-yr event
Inflow = 50.25 cfs @ 12.52 hrs, Volume= 14.176 af
Outflow = 50.25 cfs @ 12.52 hrs, Volume= 14.176 af, Atten= 0%, Lag= 0.0 min
Primary = 50.25 cfs @ 12.52 hrs, Volume= 14.176 af
Routed to Pond 92P : ci52

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 16.05' @ 12.52 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	13.57'	**73.0" W x 45.0" H, R=37.5"/105.0" Pipe Arch RCP_Arch 73x45** L= 27.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 13.57' / 13.56' S= 0.0004 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 17.79 sf

Primary OutFlow Max=50.23 cfs @ 12.52 hrs HW=16.05' (Free Discharge)
1=RCP_Arch 73x45 (Barrel Controls 50.23 cfs @ 5.05 fps)

Pond 91P: ci51



Summary for Pond 92P: ci52

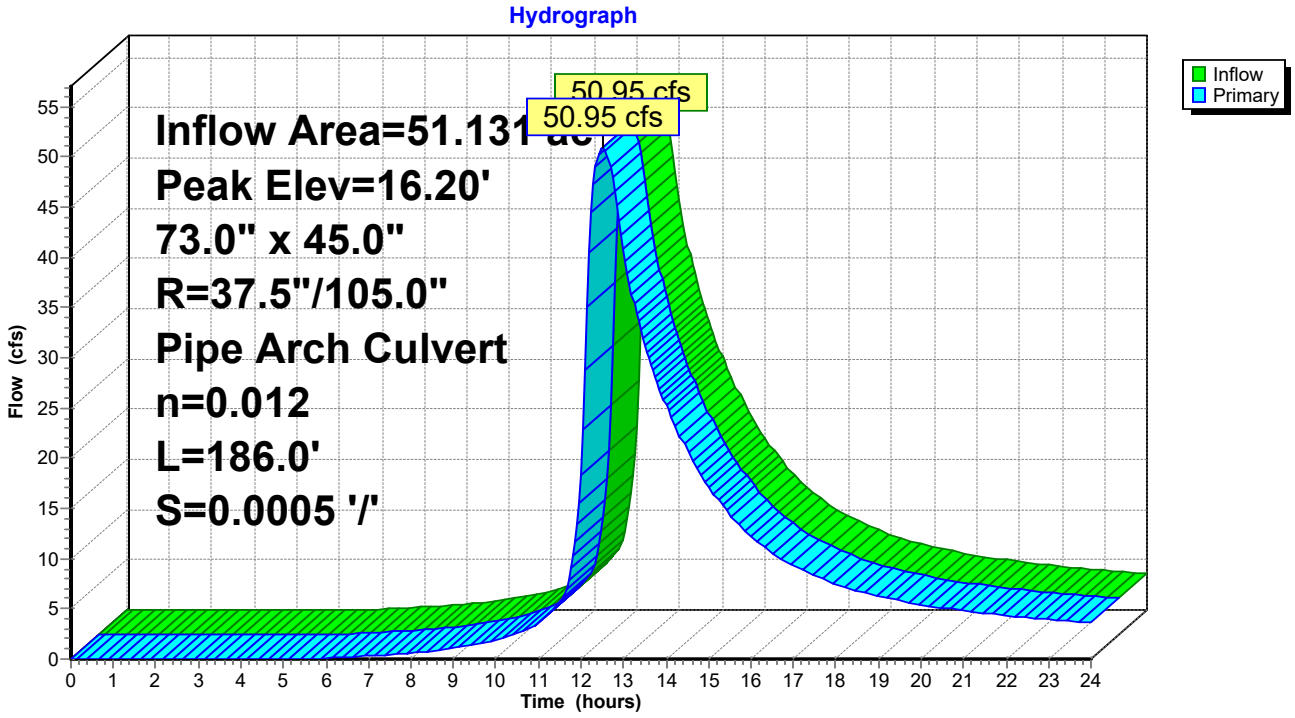
Inflow Area = 51.131 ac, 28.26% Impervious, Inflow Depth > 3.36" for 2-yr event
Inflow = 50.95 cfs @ 12.50 hrs, Volume= 14.317 af
Outflow = 50.95 cfs @ 12.50 hrs, Volume= 14.317 af, Atten= 0%, Lag= 0.0 min
Primary = 50.95 cfs @ 12.50 hrs, Volume= 14.317 af
Routed to Pond 95P : ci55

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 16.20' @ 12.50 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	13.56'	**73.0" W x 45.0" H, R=37.5"/105.0" Pipe Arch RCP_Arch 73x45** L= 186.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 13.56' / 13.47' S= 0.0005 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 17.79 sf

Primary OutFlow Max=50.95 cfs @ 12.50 hrs HW=16.20' (Free Discharge)
1=RCP_Arch 73x45 (Barrel Controls 50.95 cfs @ 4.79 fps)

Pond 92P: ci52



Summary for Pond 95P: ci55

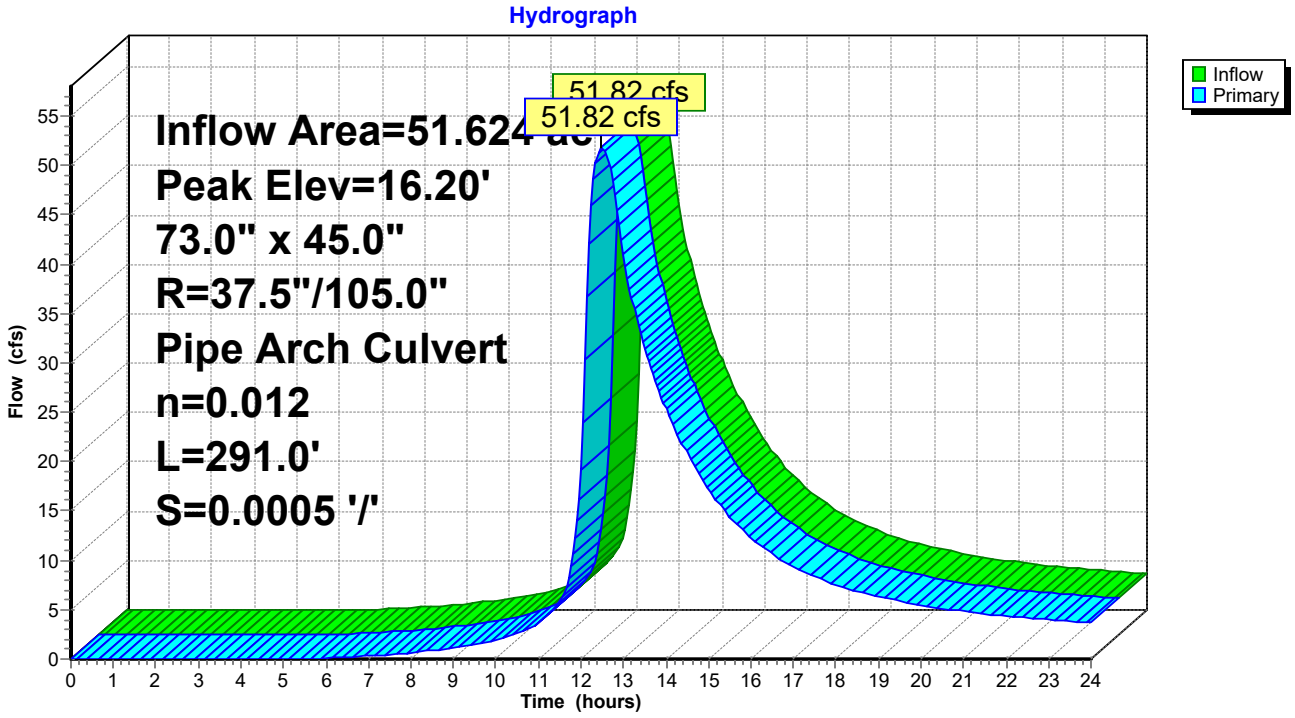
Inflow Area = 51.624 ac, 28.35% Impervious, Inflow Depth > 3.37" for 2-yr event
Inflow = 51.82 cfs @ 12.47 hrs, Volume= 14.476 af
Outflow = 51.82 cfs @ 12.47 hrs, Volume= 14.476 af, Atten= 0%, Lag= 0.0 min
Primary = 51.82 cfs @ 12.47 hrs, Volume= 14.476 af
Routed to Pond 97P : ci54

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 16.20' @ 12.47 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	13.47'	**73.0" W x 45.0" H, R=37.5"/105.0" Pipe Arch RCP_Arch 73x45** L= 291.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 13.47' / 13.32' S= 0.0005 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 17.79 sf

Primary OutFlow Max=51.77 cfs @ 12.47 hrs HW=16.20' (Free Discharge)
1=RCP_Arch 73x45 (Barrel Controls 51.77 cfs @ 4.70 fps)

Pond 95P: ci55



Summary for Pond 97P: ci54

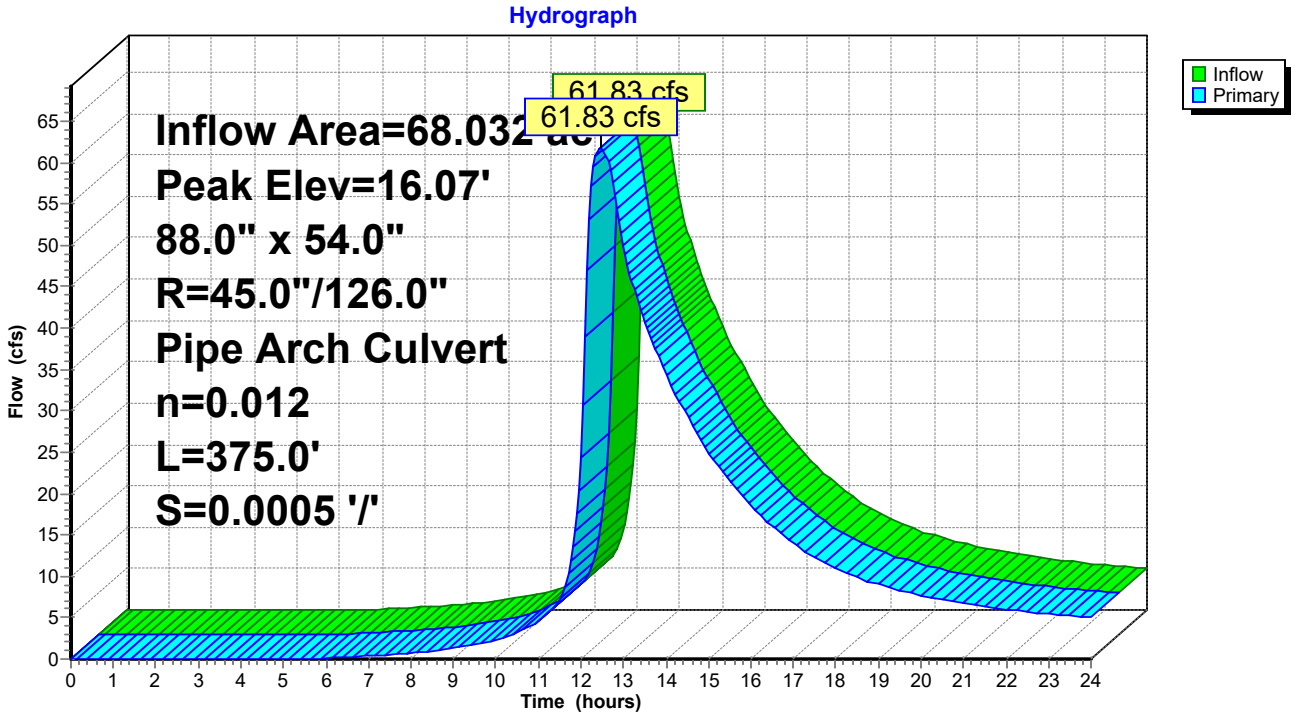
Inflow Area = 68.032 ac, 30.68% Impervious, Inflow Depth > 3.41" for 2-yr event
Inflow = 61.83 cfs @ 12.45 hrs, Volume= 19.329 af
Outflow = 61.83 cfs @ 12.45 hrs, Volume= 19.329 af, Atten= 0%, Lag= 0.0 min
Primary = 61.83 cfs @ 12.45 hrs, Volume= 19.329 af
Routed to Pond 104P : ci1

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 16.07' @ 12.45 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	13.32'	**88.0" W x 54.0" H, R=45.0"/126.0" Pipe Arch RCP_Arch 88x54** L= 375.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 13.32' / 13.13' S= 0.0005 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 25.69 sf

Primary OutFlow Max=61.81 cfs @ 12.45 hrs HW=16.07' (Free Discharge)
1=RCP_Arch 88x54 (Barrel Controls 61.81 cfs @ 4.68 fps)

Pond 97P: ci54



Summary for Pond 98P: ci56

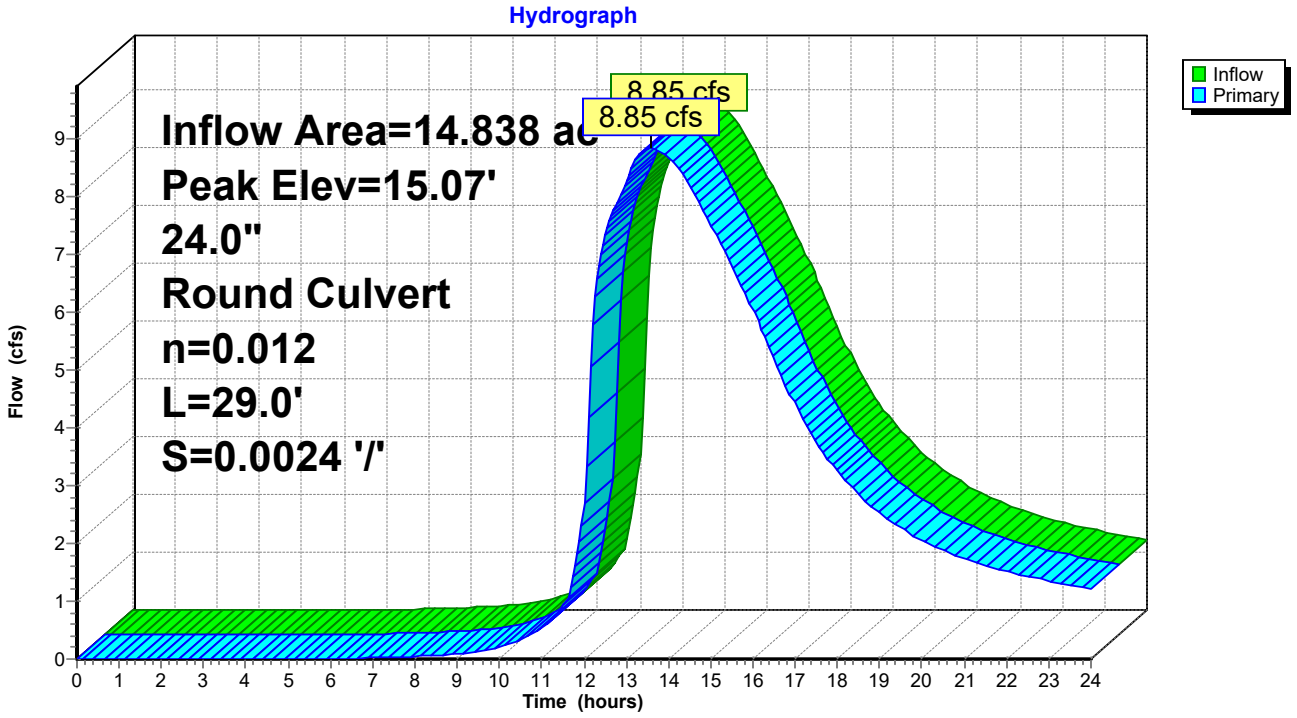
Inflow Area = 14.838 ac, 38.00% Impervious, Inflow Depth > 3.51" for 2-yr event
Inflow = 8.85 cfs @ 13.61 hrs, Volume= 4.343 af
Outflow = 8.85 cfs @ 13.61 hrs, Volume= 4.343 af, Atten= 0%, Lag= 0.0 min
Primary = 8.85 cfs @ 13.61 hrs, Volume= 4.343 af
Routed to Pond 97P : ci54

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 15.07' @ 13.61 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	13.39'	**24.0" Round RCP_Round 24"** L= 29.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 13.39' / 13.32' S= 0.0024 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 3.14 sf

Primary OutFlow Max=8.85 cfs @ 13.61 hrs HW=15.07' (Free Discharge)
1=RCP_Round 24" (Barrel Controls 8.85 cfs @ 4.24 fps)

Pond 98P: ci56



Summary for Pond 99P: Detention Pond 57

Inflow Area = 14.053 ac, 38.00% Impervious, Inflow Depth > 3.86" for 2-yr event
Inflow = 23.73 cfs @ 12.22 hrs, Volume= 4.520 af
Outflow = 8.63 cfs @ 13.66 hrs, Volume= 4.089 af, Atten= 64%, Lag= 86.0 min
Primary = 8.63 cfs @ 13.66 hrs, Volume= 4.089 af
Routed to Pond 98P : ci56
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Routed to Pond 98P : ci56
Tertiary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Routed to Pond 98P : ci56

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 15.50' @ 13.66 hrs Surf.Area= 43,626 sf Storage= 80,890 cf

Plug-Flow detention time= 157.5 min calculated for 4.080 af (90% of inflow)
Center-of-Mass det. time= 111.2 min (956.7 - 845.5)

Volume	Invert	Avail.Storage	Storage Description
#1	13.50'	174,683 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
13.50	37,266	0	0
14.50	40,416	38,841	38,841
15.50	43,624	42,020	80,861
16.50	46,898	45,261	126,122
17.50	50,223	48,561	174,683

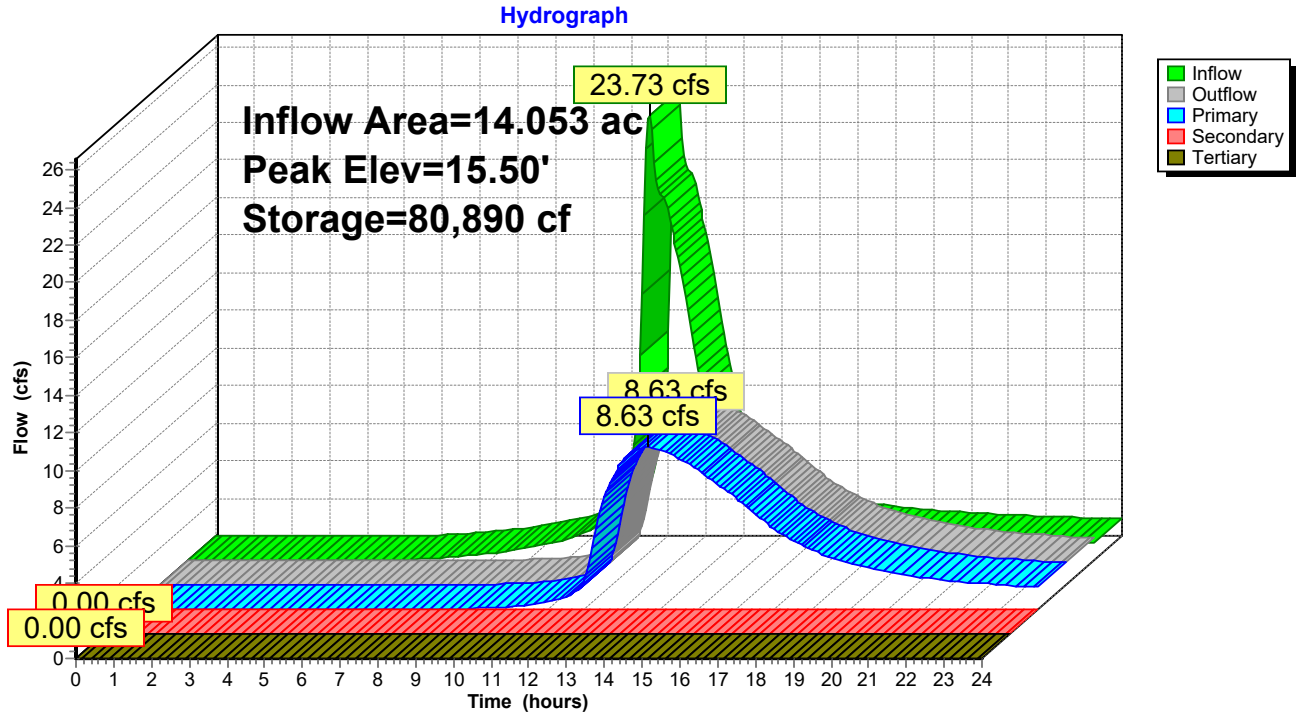
Device	Routing	Invert	Outlet Devices
#1	Tertiary	20.00'	**24.0" Round RCP_Round 24"** L= 156.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 20.00' / 19.69' S= 0.0020 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 3.14 sf
#2	Primary	13.50'	**17.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Secondary	18.50'	**3.0' long x 1.00' rise Sharp-Crested Rectangular Weir X 4.00** 2 End Contraction(s) 41.0' Crest Height

Primary OutFlow Max=8.63 cfs @ 13.66 hrs HW=15.50' (Free Discharge)
2=Orifice/Grate (Orifice Controls 8.63 cfs @ 5.47 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=13.50' (Free Discharge)
3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)

Tertiary OutFlow Max=0.00 cfs @ 0.00 hrs HW=13.50' (Free Discharge)
1=RCP_Round 24" (Controls 0.00 cfs)

Pond 99P: Detention Pond 57



Summary for Pond 100P: ci55

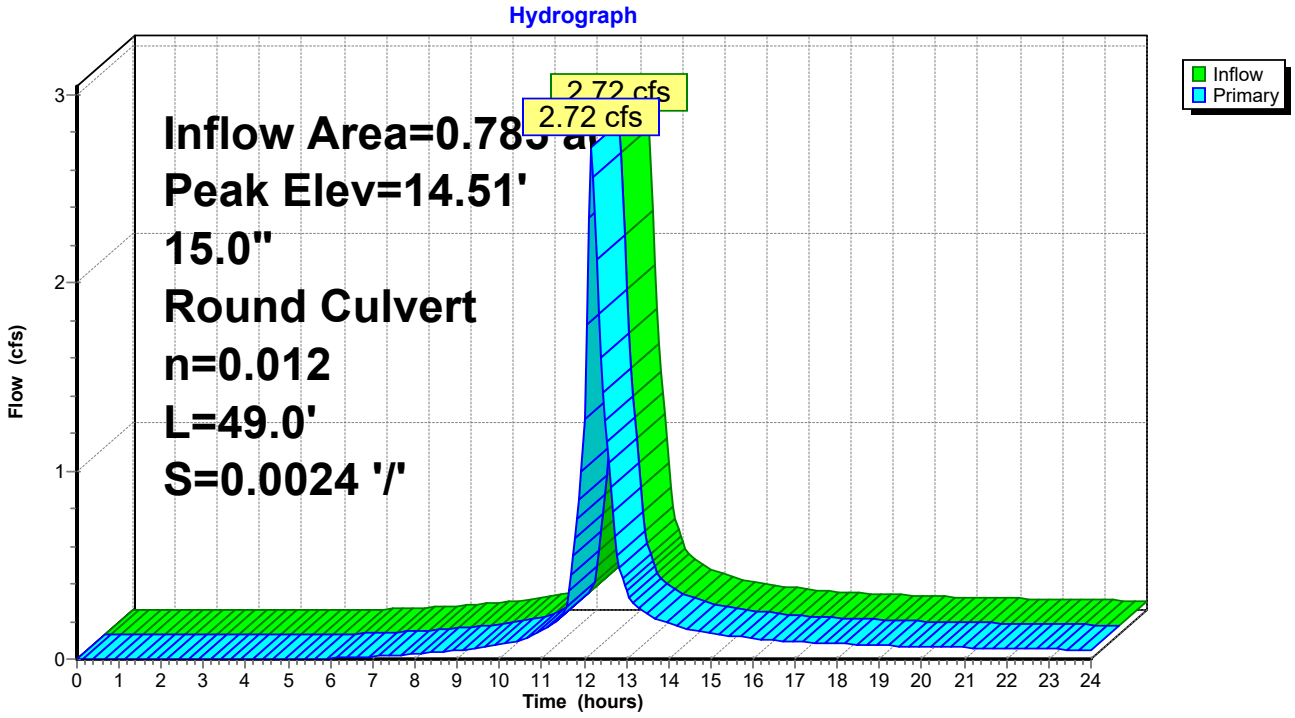
Inflow Area = 0.785 ac, 38.00% Impervious, Inflow Depth > 3.89" for 2-yr event
Inflow = 2.72 cfs @ 12.18 hrs, Volume= 0.255 af
Outflow = 2.72 cfs @ 12.18 hrs, Volume= 0.255 af, Atten= 0%, Lag= 0.0 min
Primary = 2.72 cfs @ 12.18 hrs, Volume= 0.255 af
Routed to Pond 97P : ci54

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 14.51' @ 12.18 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	13.44'	**15.0" Round RCP_Round 15"** L= 49.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 13.44' / 13.32' S= 0.0024 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 1.23 sf

Primary OutFlow Max=2.69 cfs @ 12.18 hrs HW=14.50' (Free Discharge)
1=RCP_Round 15" (Barrel Controls 2.69 cfs @ 3.27 fps)

Pond 100P: ci55



Summary for Pond 104P: ci1

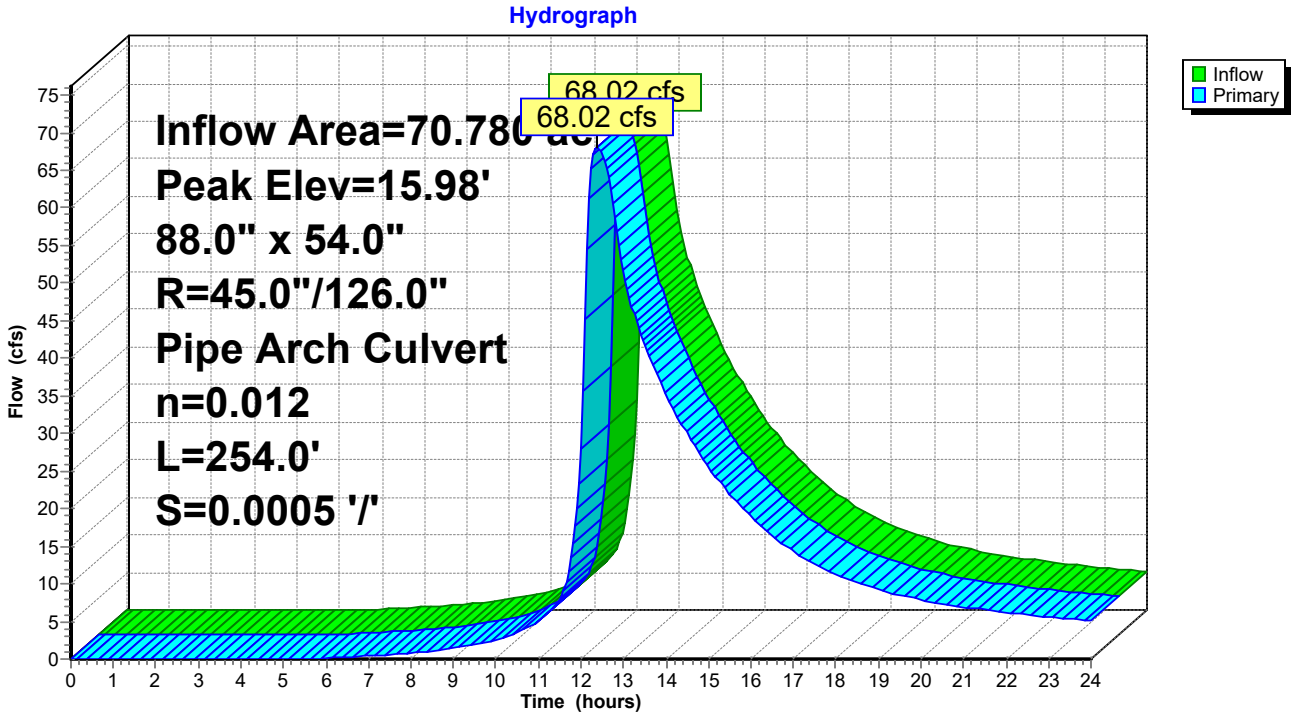
Inflow Area = 70.780 ac, 30.96% Impervious, Inflow Depth > 3.43" for 2-yr event
Inflow = 68.02 cfs @ 12.39 hrs, Volume= 20.219 af
Outflow = 68.02 cfs @ 12.39 hrs, Volume= 20.219 af, Atten= 0%, Lag= 0.0 min
Primary = 68.02 cfs @ 12.39 hrs, Volume= 20.219 af
Routed to Pond 106P : ci11a

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 15.98' @ 12.39 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	13.13'	**88.0" W x 54.0" H, R=45.0"/126.0" Pipe Arch RCP_Arch 88x54** L= 254.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 13.13' / 13.00' S= 0.0005 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 25.69 sf

Primary OutFlow Max=67.98 cfs @ 12.39 hrs HW=15.97' (Free Discharge)
1=RCP_Arch 88x54 (Barrel Controls 67.98 cfs @ 4.95 fps)

Pond 104P: ci1



Summary for Pond 105P: ci2

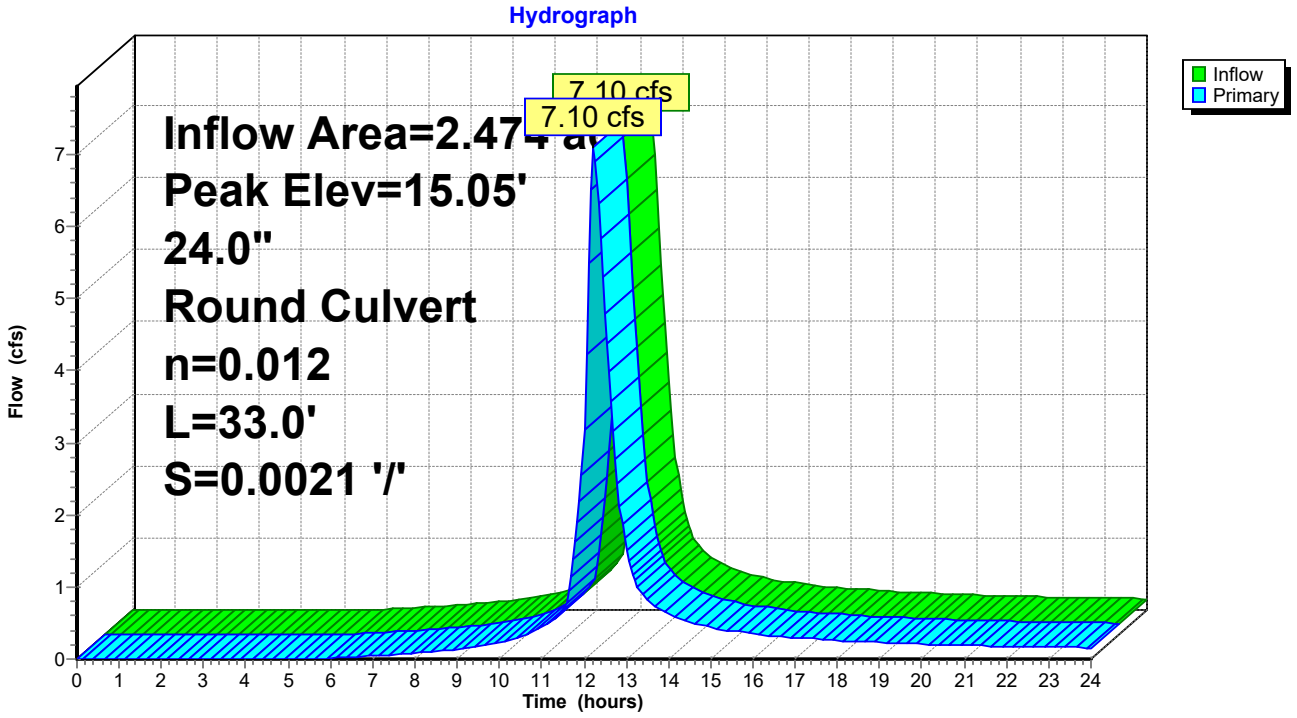
Inflow Area = 2.474 ac, 38.00% Impervious, Inflow Depth > 3.89" for 2-yr event
Inflow = 7.10 cfs @ 12.23 hrs, Volume= 0.801 af
Outflow = 7.10 cfs @ 12.23 hrs, Volume= 0.801 af, Atten= 0%, Lag= 0.0 min
Primary = 7.10 cfs @ 12.23 hrs, Volume= 0.801 af
Routed to Pond 104P : ci1

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 15.05' @ 12.23 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	13.57'	**24.0" Round RCP_Round 24"** L= 33.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 13.57' / 13.50' S= 0.0021 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 3.14 sf

Primary OutFlow Max=7.06 cfs @ 12.23 hrs HW=15.05' (Free Discharge)
1=RCP_Round 24" (Barrel Controls 7.06 cfs @ 3.94 fps)

Pond 105P: ci2



Summary for Pond 106P: ci11a

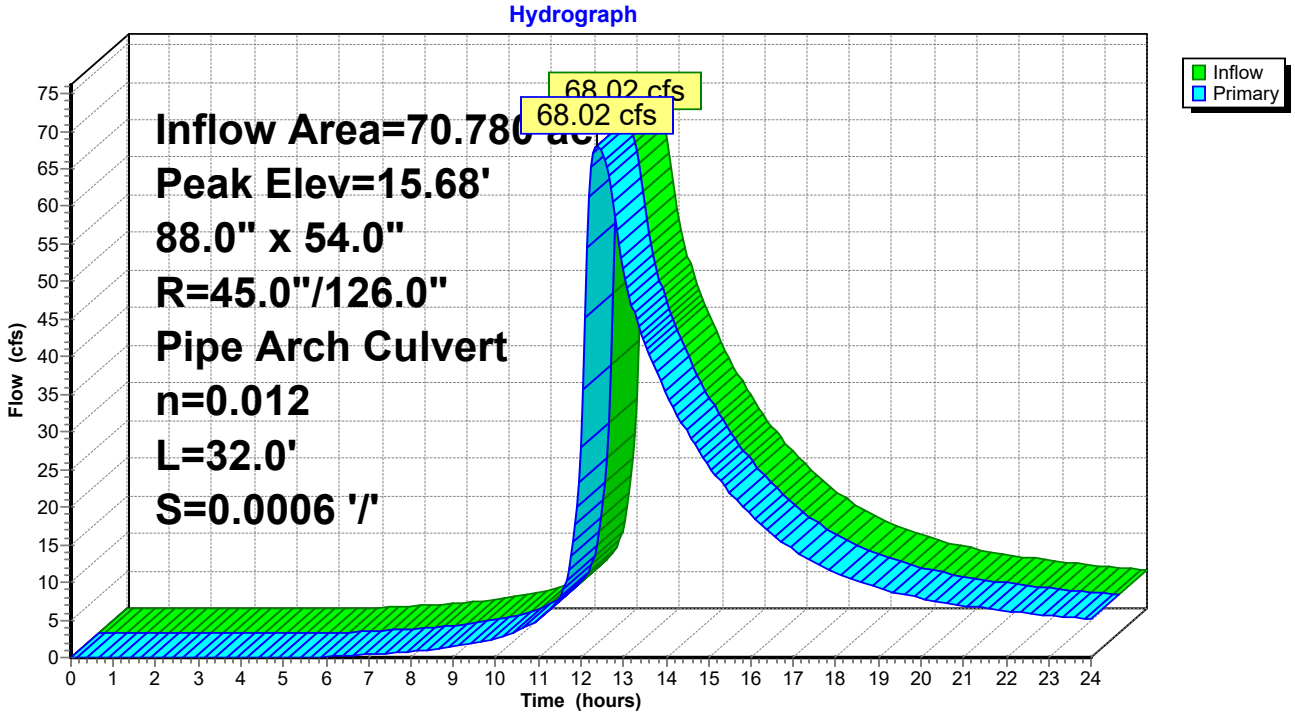
Inflow Area = 70.780 ac, 30.96% Impervious, Inflow Depth > 3.43" for 2-yr event
Inflow = 68.02 cfs @ 12.39 hrs, Volume= 20.219 af
Outflow = 68.02 cfs @ 12.39 hrs, Volume= 20.219 af, Atten= 0%, Lag= 0.0 min
Primary = 68.02 cfs @ 12.39 hrs, Volume= 20.219 af

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 15.68' @ 12.39 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	13.00'	**88.0" W x 54.0" H, R=45.0"/126.0" Pipe Arch RCP_Arch 88x54** L= 32.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 13.00' / 12.98' S= 0.0006 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 25.69 sf

Primary OutFlow Max=67.98 cfs @ 12.39 hrs HW=15.68' (Free Discharge)
1=RCP_Arch 88x54 (Barrel Controls 67.98 cfs @ 5.28 fps)

Pond 106P: ci11a



Summary for Pond 110P: ci16a

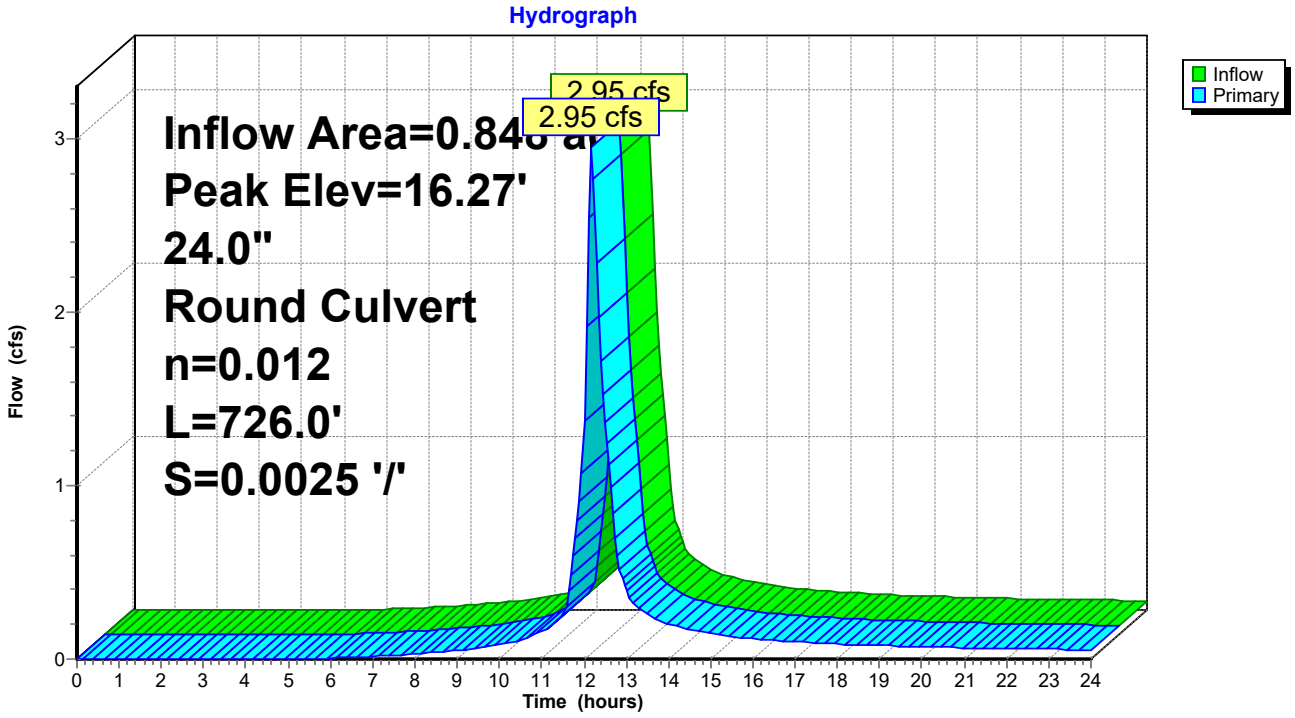
Inflow Area = 0.848 ac, 38.00% Impervious, Inflow Depth > 3.89" for 2-yr event
Inflow = 2.95 cfs @ 12.17 hrs, Volume= 0.275 af
Outflow = 2.95 cfs @ 12.17 hrs, Volume= 0.275 af, Atten= 0%, Lag= 0.0 min
Primary = 2.95 cfs @ 12.17 hrs, Volume= 0.275 af
Routed to Pond 105P : ci2

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 16.27' @ 12.17 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	15.38'	**24.0" Round RCP_Round 24"** L= 726.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 15.38' / 13.57' S= 0.0025 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 3.14 sf

Primary OutFlow Max=2.91 cfs @ 12.17 hrs HW=16.27' (Free Discharge)
↑—**1=RCP_Round 24"** (Barrel Controls 2.91 cfs @ 3.18 fps)

Pond 110P: ci16a



Summary for Pond 111P: ci25a

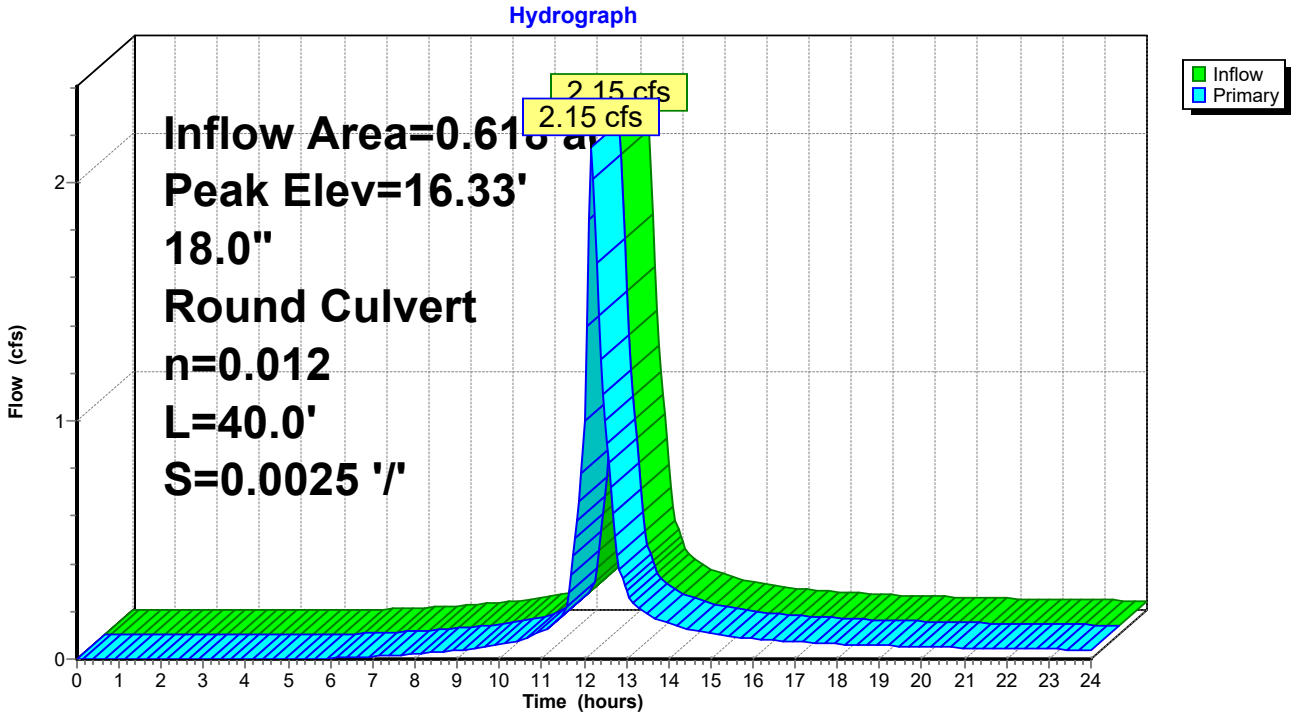
Inflow Area = 0.618 ac, 38.00% Impervious, Inflow Depth > 3.89" for 2-yr event
Inflow = 2.15 cfs @ 12.17 hrs, Volume= 0.200 af
Outflow = 2.15 cfs @ 12.17 hrs, Volume= 0.200 af, Atten= 0%, Lag= 0.0 min
Primary = 2.15 cfs @ 12.17 hrs, Volume= 0.200 af
Routed to Pond 110P : ci16a

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 16.33' @ 12.17 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	15.48'	**18.0" Round RCP_Round 18"** L= 40.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 15.48' / 15.38' S= 0.0025 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 1.77 sf

Primary OutFlow Max=2.12 cfs @ 12.17 hrs HW=16.32' (Free Discharge)
1=RCP_Round 18" (Barrel Controls 2.12 cfs @ 3.00 fps)

Pond 111P: ci25a



Summary for Pond 115P: ci14

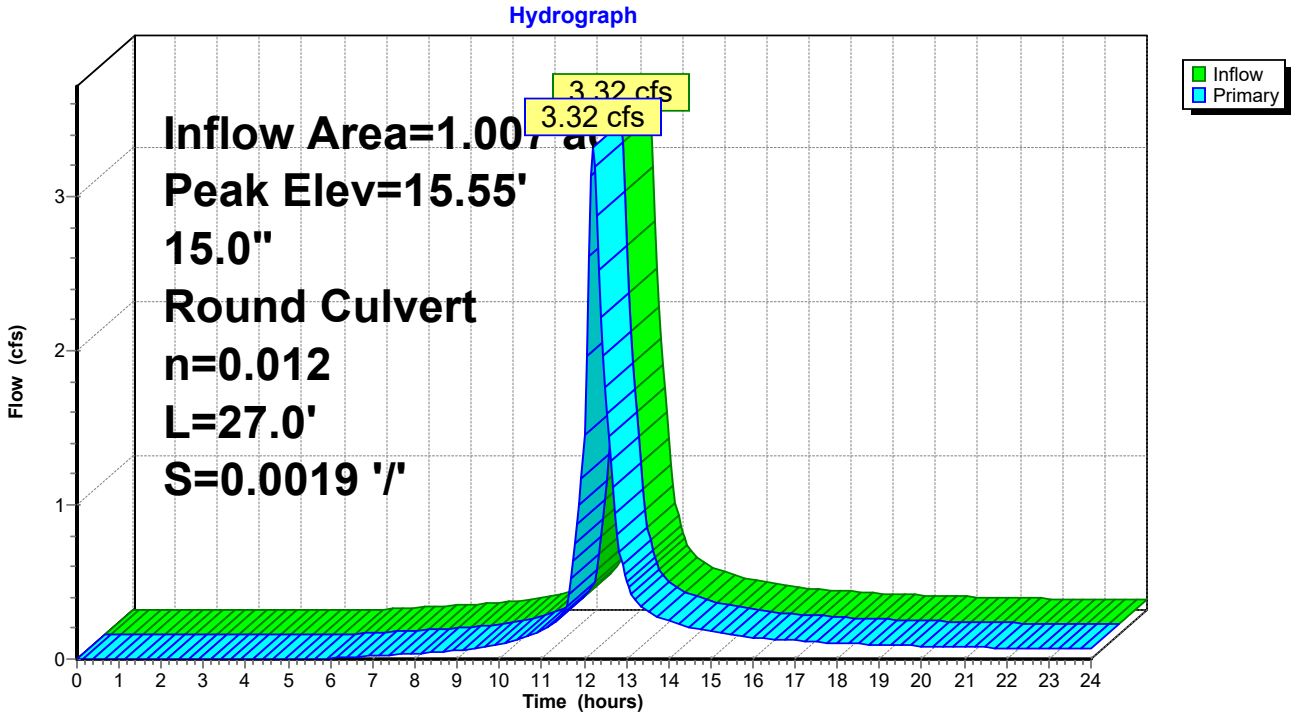
Inflow Area = 1.007 ac, 38.00% Impervious, Inflow Depth > 3.89" for 2-yr event
Inflow = 3.32 cfs @ 12.21 hrs, Volume= 0.326 af
Outflow = 3.32 cfs @ 12.21 hrs, Volume= 0.326 af, Atten= 0%, Lag= 0.0 min
Primary = 3.32 cfs @ 12.21 hrs, Volume= 0.326 af
Routed to Pond 116P : ci15

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 15.55' @ 12.21 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	14.33'	**15.0" Round RCP_Round 15"** L= 27.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 14.33' / 14.28' S= 0.0019 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 1.23 sf

Primary OutFlow Max=3.31 cfs @ 12.21 hrs HW=15.55' (Free Discharge)
1=RCP_Round 15" (Barrel Controls 3.31 cfs @ 3.45 fps)

Pond 115P: ci14



Summary for Pond 116P: ci15

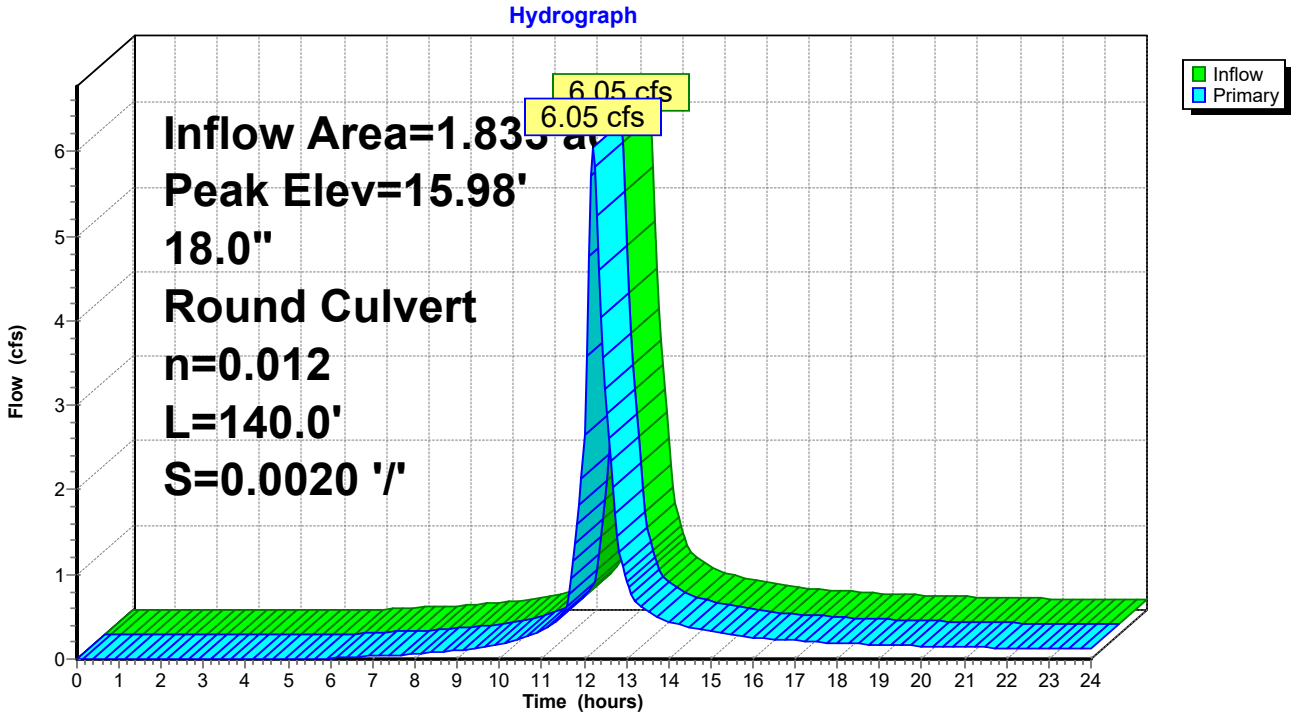
Inflow Area = 1.833 ac, 38.00% Impervious, Inflow Depth > 3.89" for 2-yr event
Inflow = 6.05 cfs @ 12.20 hrs, Volume= 0.594 af
Outflow = 6.05 cfs @ 12.20 hrs, Volume= 0.594 af, Atten= 0%, Lag= 0.0 min
Primary = 6.05 cfs @ 12.20 hrs, Volume= 0.594 af
Routed to Pond 99P : Detention Pond 57

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 15.98' @ 12.20 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	14.28'	**18.0" Round RCP_Round 18"** L= 140.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 14.28' / 14.00' S= 0.0020 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 1.77 sf

Primary OutFlow Max=6.03 cfs @ 12.20 hrs HW=15.98' (Free Discharge)
1=RCP_Round 18" (Barrel Controls 6.03 cfs @ 3.77 fps)

Pond 116P: ci15



Summary for Pond 119P: ci18

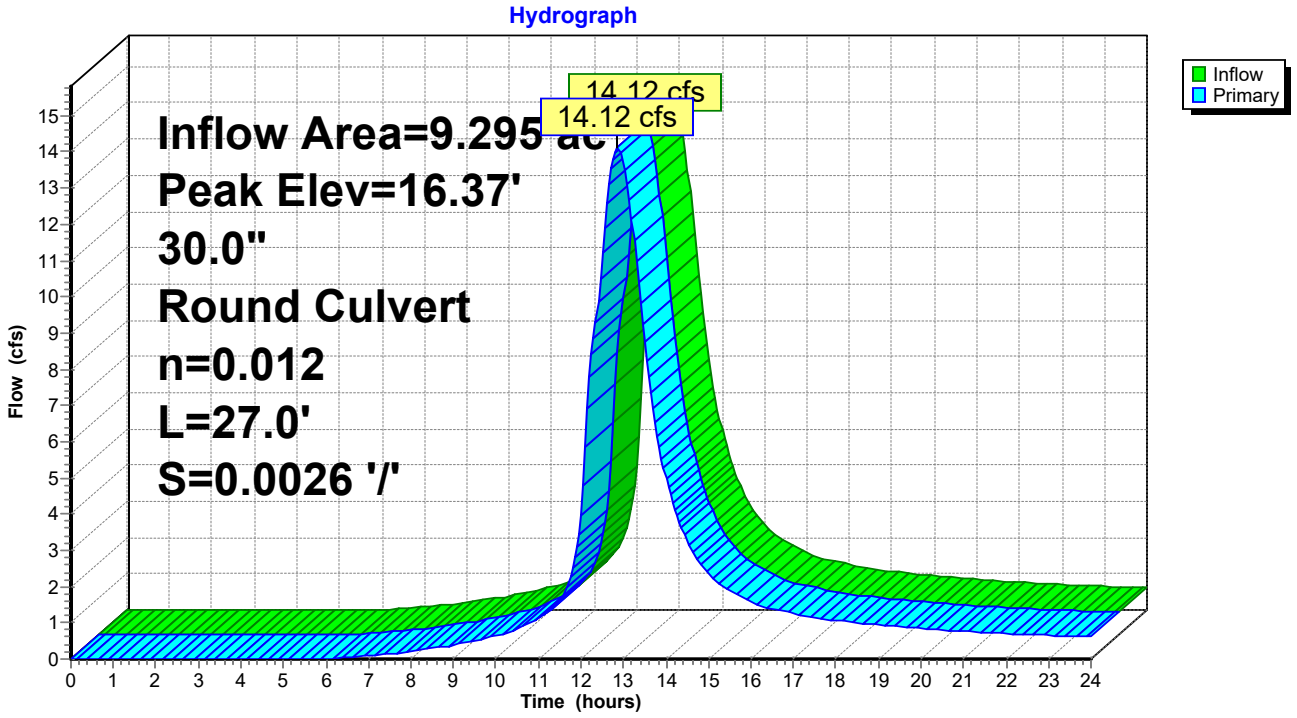
Inflow Area = 9.295 ac, 38.00% Impervious, Inflow Depth > 3.84" for 2-yr event
Inflow = 14.12 cfs @ 12.86 hrs, Volume= 2.978 af
Outflow = 14.12 cfs @ 12.86 hrs, Volume= 2.978 af, Atten= 0%, Lag= 0.0 min
Primary = 14.12 cfs @ 12.86 hrs, Volume= 2.978 af
Routed to Pond 120P : ci17

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 16.37' @ 12.86 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	14.39'	**30.0" Round RCP_Round 30"** L= 27.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 14.39' / 14.32' S= 0.0026 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 4.91 sf

Primary OutFlow Max=14.10 cfs @ 12.86 hrs HW=16.37' (Free Discharge)
1=RCP_Round 30" (Barrel Controls 14.10 cfs @ 4.64 fps)

Pond 119P: ci18



Summary for Pond 120P: ci17

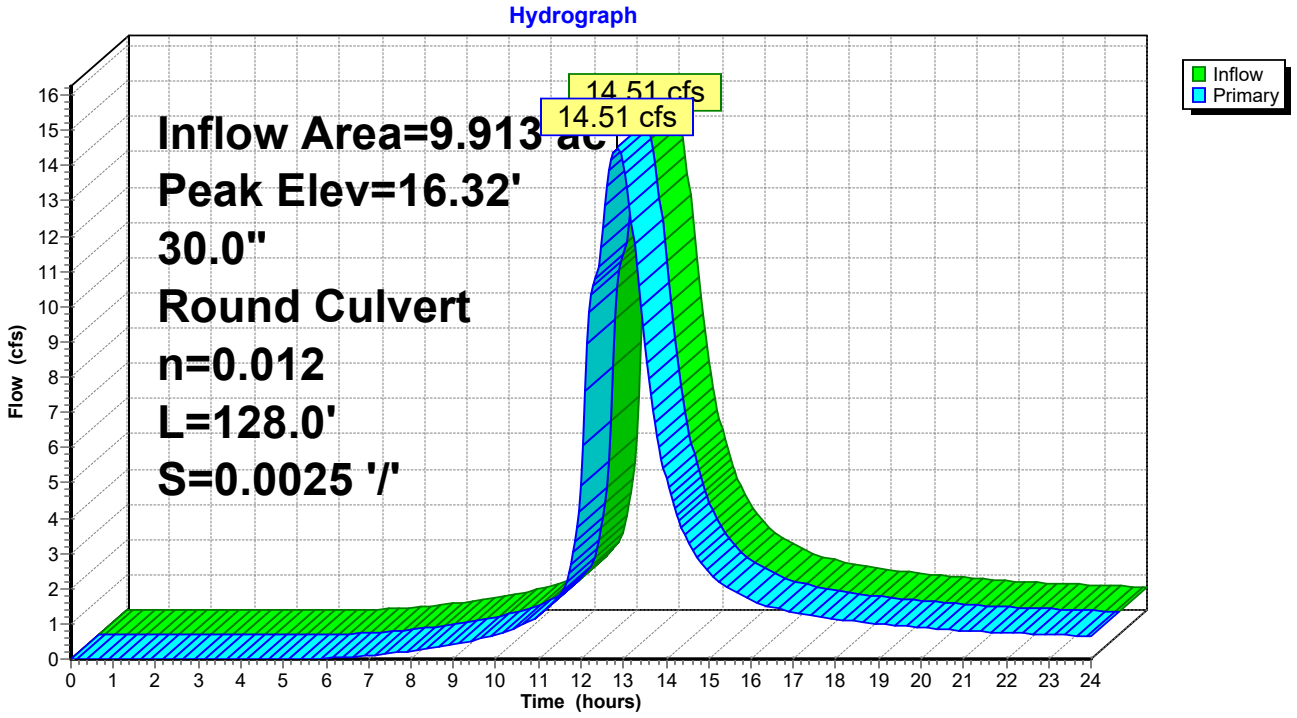
Inflow Area = 9.913 ac, 38.00% Impervious, Inflow Depth > 3.85" for 2-yr event
Inflow = 14.51 cfs @ 12.84 hrs, Volume= 3.178 af
Outflow = 14.51 cfs @ 12.84 hrs, Volume= 3.178 af, Atten= 0%, Lag= 0.0 min
Primary = 14.51 cfs @ 12.84 hrs, Volume= 3.178 af
Routed to Pond 99P : Detention Pond 57

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 16.32' @ 12.84 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	14.32'	**30.0" Round RCP_Round 30"** L= 128.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 14.32' / 14.00' S= 0.0025 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 4.91 sf

Primary OutFlow Max=14.51 cfs @ 12.84 hrs HW=16.32' (Free Discharge)
1=RCP_Round 30" (Barrel Controls 14.51 cfs @ 4.71 fps)

Pond 120P: ci17



Summary for Pond 123P: fes6

Inflow Area = 8.155 ac, 38.00% Impervious, Inflow Depth > 3.84" for 2-yr event
Inflow = 13.34 cfs @ 12.91 hrs, Volume= 2.608 af
Outflow = 13.34 cfs @ 12.91 hrs, Volume= 2.608 af, Atten= 0%, Lag= 0.0 min
Primary = 13.34 cfs @ 12.91 hrs, Volume= 2.608 af
Routed to Pond 119P : ci18

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 19.00' @ 12.91 hrs Surf.Area= 0.115 ac Storage= 0.001 af

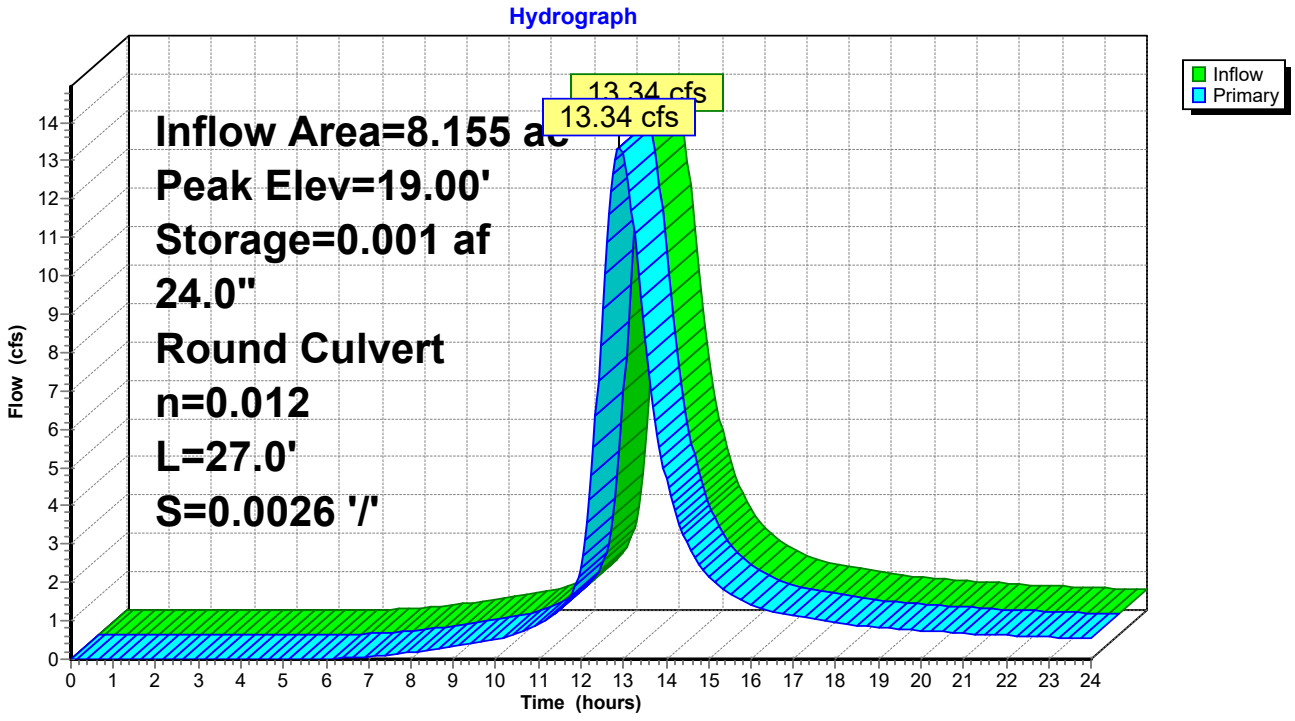
Plug-Flow detention time= 0.0 min calculated for 2.603 af (100% of inflow)
Center-of-Mass det. time= 0.0 min (862.7 - 862.7)

Volume	Invert	Avail.Storage	Storage Description
#1	19.00'	0.125 af	**50.00'W x 100.00'L x 1.00'H Prismatoid Z=3.0**

Device	Routing	Invert	Outlet Devices
#1	Primary	14.46'	**24.0" Round RCP_Round 24"** L= 27.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 14.46' / 14.39' S= 0.0026 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 3.14 sf

Primary OutFlow Max=28.48 cfs @ 12.91 hrs HW=19.00' (Free Discharge)
1=RCP_Round 24" (Inlet Controls 28.48 cfs @ 9.07 fps)

Pond 123P: fes6



Summary for Pond 125P: ci9

Inflow Area = 2.307 ac, 38.00% Impervious, Inflow Depth > 3.89" for 2-yr event
Inflow = 7.62 cfs @ 12.20 hrs, Volume= 0.748 af
Outflow = 7.62 cfs @ 12.20 hrs, Volume= 0.748 af, Atten= 0%, Lag= 0.0 min
Primary = 7.62 cfs @ 12.20 hrs, Volume= 0.748 af
Routed to Pond 99P : Detention Pond 57

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 16.02' @ 12.20 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	14.43'	**24.0" Round RCP_Round 24"** L= 215.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 14.43' / 14.00' S= 0.0020 '/' Cc= 0.900 n= 0.012 Concrete pipe, finished, Flow Area= 3.14 sf

Primary OutFlow Max=7.59 cfs @ 12.20 hrs HW=16.02' (Free Discharge)
1=RCP_Round 24" (Barrel Controls 7.59 cfs @ 3.90 fps)

Pond 125P: ci9