Bryant Development and Review Committee Meeting

Boswell Municipal Complex - City Hall Conference Room

210 SW 3rd Street

Date: October 29, 2026 - **Time:** 2:56 PM

Call to Order

Old Business

New Business

1. Peak State Recovery - 1904 Evans Lp - New Building Addition

Chris Dickie - Requesting Approval for New Building Addition.

- 1072-SVY-01.pdf
- 1072-PLN-01.pdf

2. Elite Medical Supplies - 8425 Hwy 5 - Site Plan

Hope Consulting - Requesting Site Plan Approval

- 1073-DRN-01.pdf
- 1073-PLN-01.pdf

3. Local Restaurant - Site Plan - 3424 Market Place Ave

Hope Consulting - Requesting Site Plan Approval

- 1074-PLN-01.pdf

4. Lot 2 Big Oak Addition - 302 Ethel Dr - Conditional Use Permit

Hope Consulting - Requesting Recommendation for approval of a CUP for a Duplex in R-M Zoning.

- 1075-APP-01.pdf

5. The Cottages of Bryant - PUD - Preliminary Plat

Hope Consulting - Requesting Recommendation for Approval of Preliminary Plat

- 1071-SMP-01.pdf
- 1071-SWP-01.pdf
- 1071-RSP-01.pdf
- 1071-DRN-02.pdf
- 1071-PLN-02.pdf

6. Springhill Crossing - Springhill Rd - Preliminary Plat

Holloway Engineering - Requesting Recommendation for Preliminary Plat

- 1063-PLT-02.pdf
- 1063-PLN-02.pdf

Staff Approved

Permit Report

Adjournments

Chris Dickie

07/29/2026 09:45:34 AM



DEEDED LEGAL DESCRIPTION:
Part of the Northwest Quarter of the Northwest Quarter, Section 27, To
1 South, Range 14 West, City of Bryant, From the Northeast corner of s
Northwest Quarter Northwest Quarter, run South along the East line the
680.00 feet to the North line of Evans Loop; thence North 35 deg. West
along North line of Evans Loop 301.5 feet to the Point of Beginning; t
North 35 deg. 05 min. West 126.00 feet; thence perpendicular to said N
line of Evans Loop (angle of 90 deg.) for 184.10 feet; thence South 22
56 min. West 223.1 feet to the North line of Evans Loop and the Point
Beginning, containing 0.27 acres, more or less.

SURVEYED LEGAL DESCRIPTION:
All that part of the Northwest Quarter of the Northwest Quarter, Sectio
Township 1 South, Range 14 West, Saline County, Arkansas, more particu
described as follows: Commencing at the Northeast corner of said North
Quarter Northwest Quarter; thence South 22 deg. 56 min. 00 sec. West a
the West line of Twin Oaks Subdivision Phase 2 a distance of 269.03 fe
to a rebar; thence continue South 22 deg. 56 min. 00 sec. West along sa
Subdivision a distance of 224.97 feet to a concrete monument and the No
line of Evans Loop; thence North 31 deg. 57 min. 23 sec. West along sa
Evans Loop a distance of 124.46 feet to a 1/2 inch pipe; thence North 5
deg. 30 min. 36 sec. East a distance of 184.10 feet to the Point of
Beginning, containing 0.26 acres, more or less

I hereby certify that the hereon plat and described survey was completed under my supervision to the best of my professional knowledge and ability.

Brian J. Watson
BRIAN J. WATSON
P.L.S. #1864

No investigation or other search was performed for easements or other records that an accurate and current title search may disclose

LICENSED PROFESSIONAL SURVEYOR
STATE OF ARKANSAS
No. 1864
Brian J. Watson
SIGNATURE
07-22-26
BRIAN J WATSON

CERTIFICATE OF AUTHORIZATION
WATSON SURVEYING LLC
No. 3955
ARKANSAS

N
W
S

BEARINGS BASED
LINE FROM ORIGIN
SCALE 1
0 60

STATE CODE: 500-01S-14W-0-27-440-62-186

Symbol	Description
⬟	FND METAL/CONCRETE
⊕	40 ACRE CORNER
■	FND. REBAR
●	FND 1/2IN PIPE
—x—	FENCE (X) LINE
—℄—	CENTER LINE
———	PROPERTY LINE

WATSON LAND SURV
501-524-1140
10700 HWY.

PROPERTY ADDRESS
904 EVANS LOOP
BRYANT AR 72022
DATE: 22 JULY 2026
JOB#21-111
SCALE: 1IN.=60FT.
DRAWN BY: RW

FOR THE USE AND BENEFIT OF
PEAK STATE RECOVERY LLC
AMERICAN ABSTRACT AND TITLE COMPANY
CHICAGO TITLE INSURANCE COMPANY


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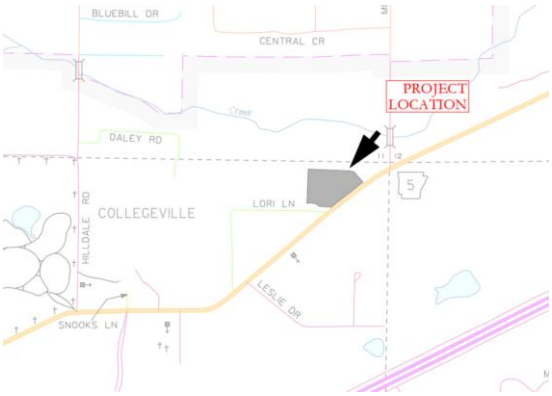
35'
15'
PROPOSED BUILDING
EXISTING BUILDING
EVANS LOOP RD

ELITE MEDICAL SUPPLIES

HWY 5, BRYANT, SALINE COUNTY, ARKANSAS

DRAINAGE REPORT

October 2026



Vicinity Map

Owner & Developer

TRC ELITE PROPERTIES LLC

By:

HOPE CONSULTING
ENGINEERS - SURVEYORS

129 N. Main Street
Benton, Arkansas 72015
PH. (501)315-2626
FAX (501) 315-0024
www.hopeconsulting.com

Table of Contents-

Drainage Summary

Pre Development Area & Calculation

Post Development Area & Calculation

Ditch Details

Hydrograph Summary Report

Precipitation Data of NOAA

DRAINAGE SUMMARY

PROJECT TITLE

ELITE MEDICAL SUPPLIES

PROJECT PROPERTY OWNER

TRC ELITE PROPERTIES LLC

PROJECT LOCATION

HWY 5, Bryant, Saline County, Arkansas

PROJECT DESCRIPTION

The proposed development is on Hwy 5. The total development site area is 1.8 acres.

DRAINAGE ANALYSIS

On Site Drainage- Rational method was used to determine the existing and proposed flows from proposed site. There will be One detention pond to detain water from this development. Detailed drainage calculations considering the future expected development have been conducted to determine the required detention volumes and outlet structures dimensions as required. Summary of the calculations are below:

North Detention Pond

- A detention pond has been proposed on the North side of the property.
- Pre-development area 0.93 acres.
- Post-development area 1.27 acres.
- Considering the existing condition, pre-development runoff coefficient 0.54.
- Post-development cumulative runoff coefficient 0.95.
- Bottom elevation of detention facility is 370.00'.

Peak flows for Pre and post development phase of onsite area have been tabulated below-

	Pre-development	Dev. Generated	Post-dev. After detention
	Peak Flow (cfs)	Peak Flow (cfs)	Peak Flow (cfs)
2-Year	2.15	7.37	1.41
5-Year	2.55	8.75	1.67
10- Year	2.87	9.83	1.89
25- Year	3.3	11.29	2.2
50- Year	3.62	12.43	2.44
100- Year	3.91	13.48	2.68

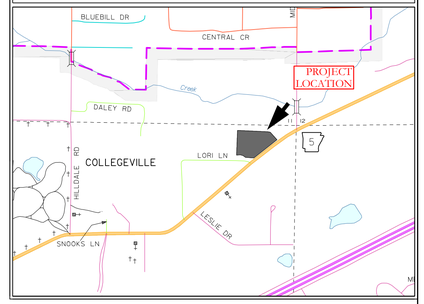
CONCLUSION

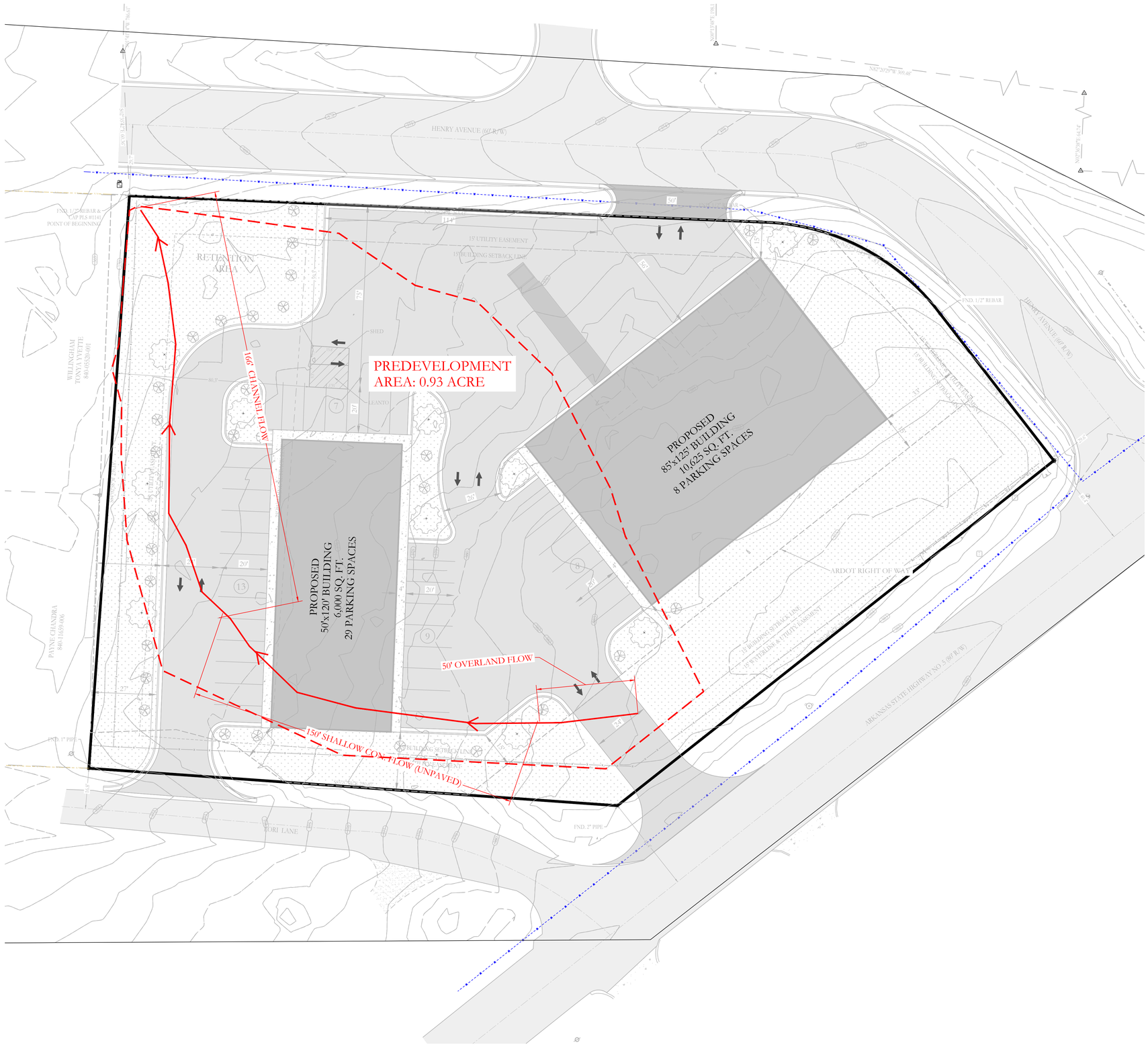
From the drainage calculation, it is seen that there is decrease in flow for all storm events due to the proposed detention pond.

Hydrograph Summary Report
NORTH DETENTION

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

VICINITY MAP:





PRE DEVELOPMENT AREA

Time of Concentration, tc (min)							
Area (ft2)	40425.0	Velocity	L (ft)	Height	S (ft/ft)	Coef, N	
Area (Acre)	*0.93*						
Total Flow Length, L (ft)	***366.0***						
Overland Flow Tc, $t_i = 0.83 \frac{(N L_i)^{0.467}}{S^{0.5}}$, (min)	*8.43*	-	50.0	2.2	*0.044*	0.60	
Shallow Concentrated Flow Tc, $t_{scs} = \frac{L_{scs}}{60\,V}$, (min) , unpaved *V=16.1345(S^0.5)*	*0.67*	*3.73*	150.0	8.0	*0.053*	-	
Channel Flow Tc, $t_{cs} = \frac{L_{cs}}{60\,V}$, (min) $V = \frac{1.49}{n} R^{\frac{2}{3}} S^{\frac{1}{2}}$ Channel Flow	*1.40*	*1.97*	166.0	3.8	*0.023*	Mannings n: 0.050	*Hydraulic Radius, R: 0.293*
Total time of concentration, tc (min)	10.50						
USE =	**10.50**						

PRE DEVELOPMENT AREA RUNOFF COEFFICIENT

	Area (ac)	100 year, C		**100 year**
Area (Undeveloped-Woodland)	0.93	0.49		0.45
Tot A =	0.93		Com. C =	**0.49**

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER NO. 20876 TAMZIDUL ISLAM

HOPE CONSULTING, INC. CERTIFICATE OF AUTHORIZATION No. 1931 ARKANSAS

BASIS OF BEARING: GRID NORTH, ARKANSAS COORDINATE SYSTEM SOUTH ZONE BY GPS OBSERVATION

20' 10' 0 20'

HOPE CONSULTING ENGINEERS - SURVEYORS
129 N. Main Street, Benton, Arkansas 72015
PH. (501)315-2626
FAX (501) 315-0024
www.hopeconsulting.com

FOR USE AND BENEFIT OF:
TRC ELITE PROPERTIES,LLC

ELITE MEDICAL SUPPLIES
PREDEVELOPMENT
HWY5, BRYANT, SALINE COUNTY, ARKANSAS

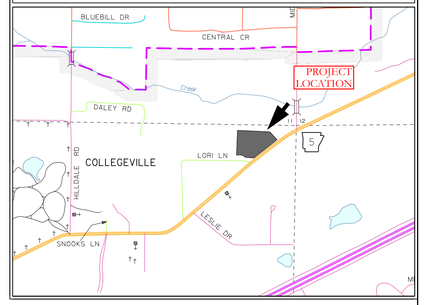
DATE:	10/22/2026	C.A.D. BY:	DRAWING NUMBER: 26-0791
REVISED:	##	CHECKED BY:	
SHEET:	C-9.0	SCALE: 1" = 20"	

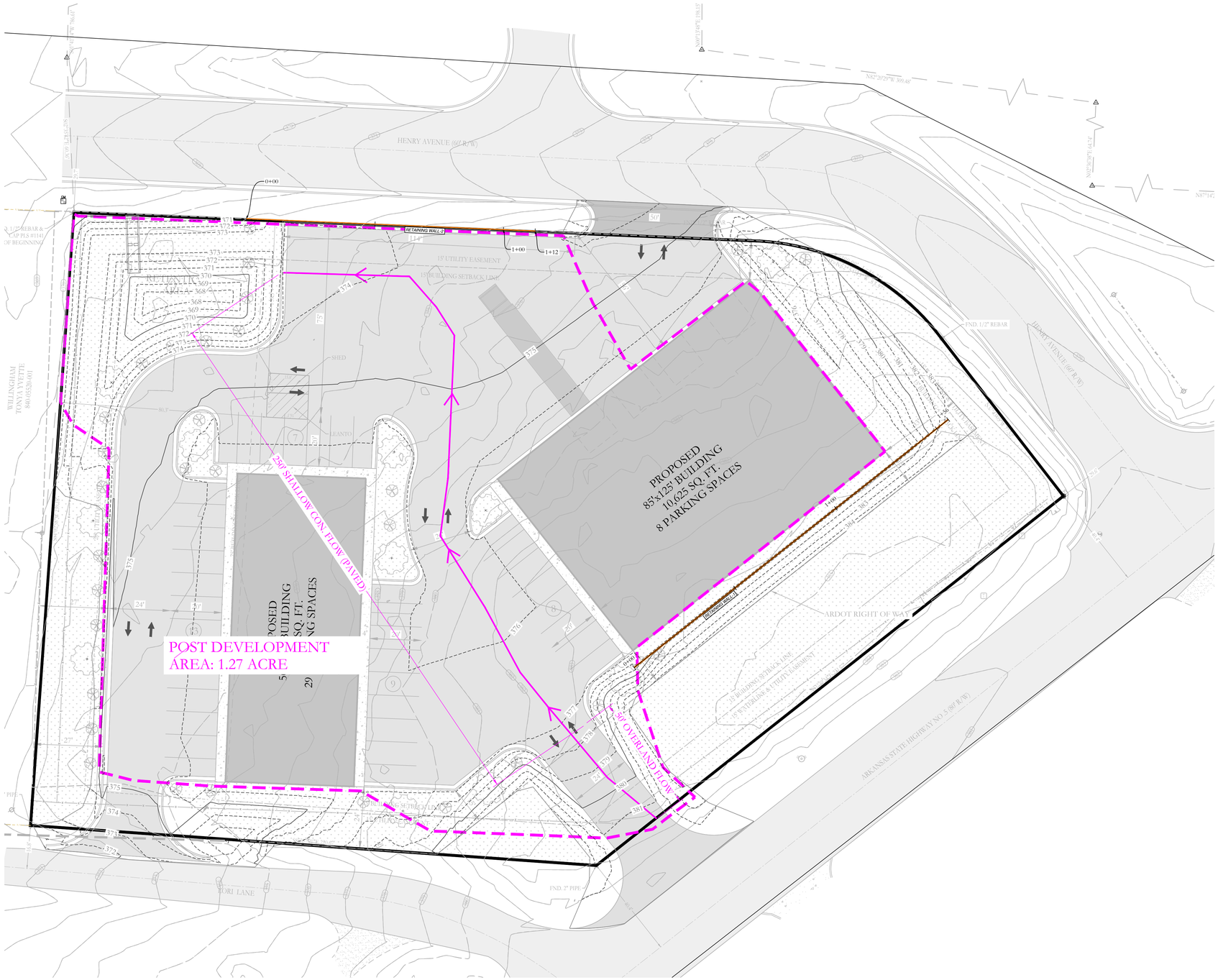
500	01S	14W	0	22	330	62	1664

THESE PLANS ARE THE PROPERTY OF HOPE CONSULTING ENGINEERS, SURVEYORS, PLANNERS AND SHALL NOT BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN CONSENT OF HOPE CONSULTING ENGINEERS, SURVEYORS, PLANNERS. © COPYRIGHT 2026

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

VICINITY MAP:





POST DEVELOPMENT

Time of Concentration, tc (min)						
Area (ft2)	55380.1	Velocity	L (ft)	Height	S (ft/ft)	Coef, N
Area (Acre)	*1.27*					
Total Flow Length, L (ft)	***300.0***					
Overland Flow Tc, $t_i = 0.83 \frac{(N L_i)^{0.467}}{S^{0.5}}$, (min)	*1.48*	-	50.0	4.2	*0.083*	0.02
Shallow Concentrated Flow Tc, $t_{scs} = \frac{L_{scs}}{60\,V}$, (min) , paved *V=20.3282(S^0.5)*	*1.62*	*2.57*	250.0	4.0	*0.016*	-
Total time of concentration, tc (min)	3.10					
USE =	**5.00**					

PRE DEVELOPMENT AREA RUNOFF COEFFICIENT

	Area (ac)	100 year, C		100 year
Area (Undeveloped-Woodland)	1.27	0.95		1.21
Tot A =	1.27		Com. C =	**0.95**

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
NO. 20076
KAZI TAMZIDUL ISLAM

HOPE CONSULTING, INC. CERTIFICATE OF AUTHORIZATION No. 1931 ARKANSAS

N

BASIS OF BEARING
GRID NORTH ARKANSAS
COORDINATE SYSTEM SOUTH ZONE
BY GPS OBSERVATION

20' 10' 0 20'

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FOR USE AND BENEFIT OF:
TRC ELITE PROPERTIES,LLC

ELITE MEDICAL SUPPLIES
POSTDEVELOPMENT
HWY5, BRYANT, SALINE COUNTY, ARKANSAS

DATE:	10/22/2026	C.A.D. BY:	DRAWING NUMBER:
REVISED:	##	CHECKED BY:	26-0791
SHEET:	C-9.1	SCALE: 1" = 20"	

500	01S	14W	0	22	330	62	1664

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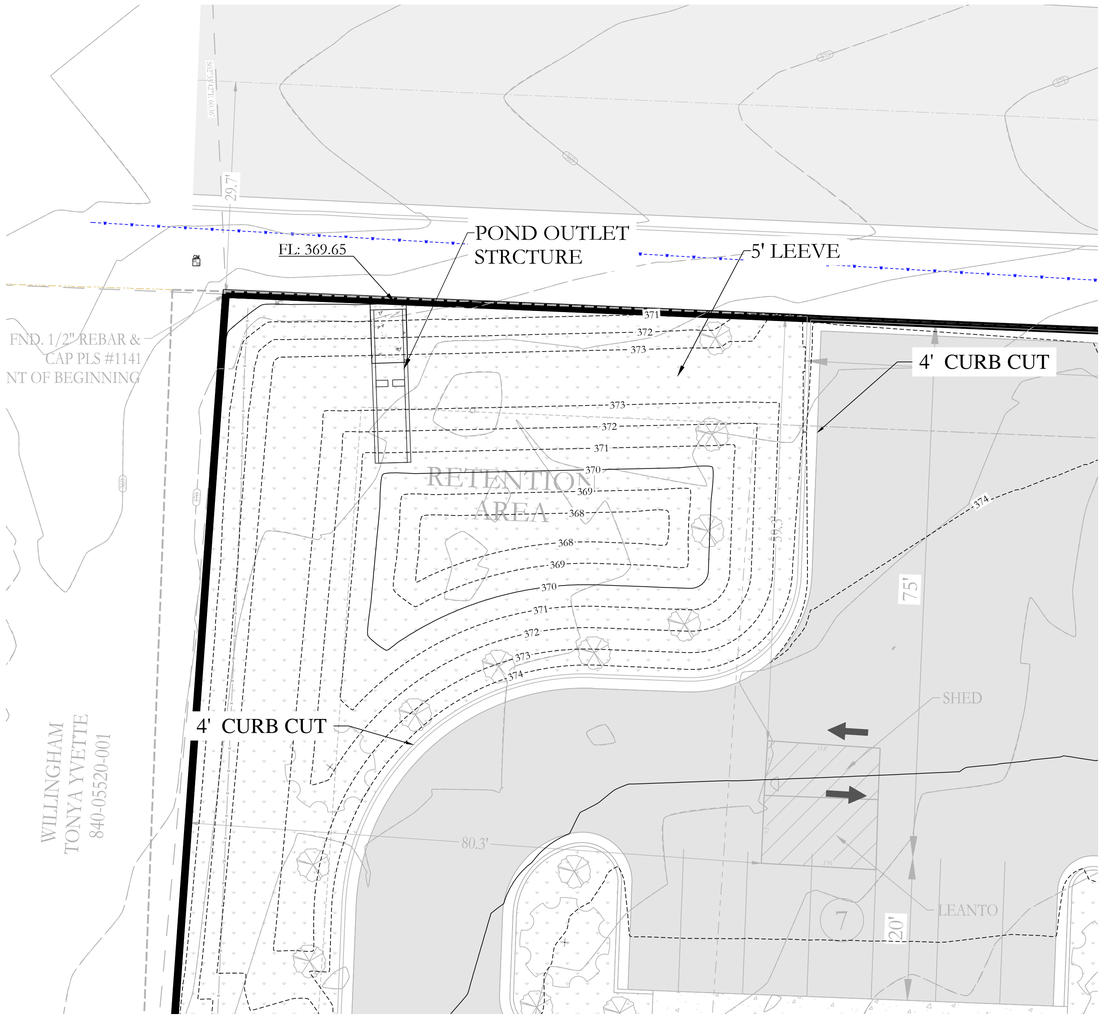

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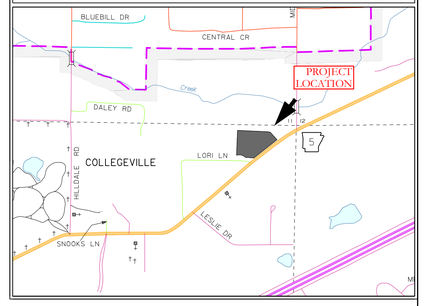
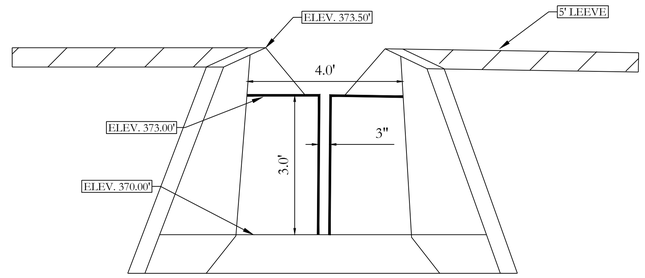
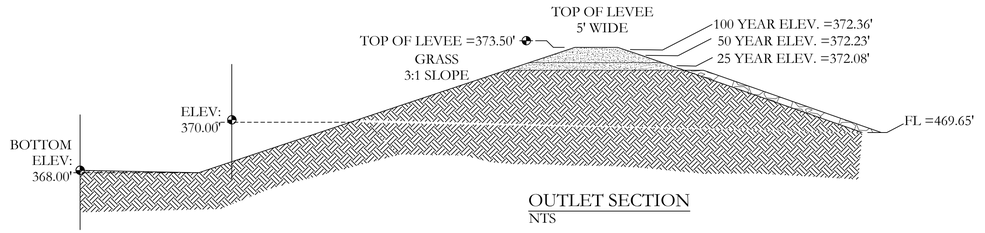




POND OUTLET STRUCTURE
SECTION VIEW



OUTLET SECTION
NTS

DETENTION POND MAINTENANCE PLAN

Background
The detention pond is located at the **North** of the subjected property. It is designed to temporarily detain stormwater to meet water quantity criteria before discharging off the property.

Routine Maintenance
Routine maintenance will include but not be limited to:
-Mowing of the bank slopes and area around the pond on a monthly basis during the growing season and as needed during the cooler months.

-The outlet pipe from the pond and other areas will be inspected monthly for debris which could inhibit the proper flow of discharge. Any debris will be removed immediately and disposed of or placed in a location to prevent future maintenance and to not cause impact up or downstream of the structure.

-Trash will be removed from around the pond to prevent entering the pond. Generally, the site should be kept free of loose trash which could be carried off site by wind or rain.

-Inspect the pond and outlet pipe for non-routine maintenance need.

Periodic or Non-Routine Maintenance
The routine inspection of the pond area and discharge pipe will identify needed repairs and non-routine maintenance. These items may include but not be limited to:

-Re-growth of trees on or around the pond bank. These should be cut and removed from the pond area.

-Sediment from the site may accumulate in the pond bottom and reduce the pond to below design volume requirements. The pond should be excavated if the pond bottom elevation reached a level that allows excessive aquatic growth or reduces the pond efficiency such, that the sediments are passing the discharge structure and release off site.

-Stabilization or re-grading of side slopes may be required periodically or after excessive rain events. Any disturbance of slopes should be reseeded or may require installation of erosion control materials until seeding can reestablish adequate grasses to prevent future erosion.

-Any other maintenance or repairs which would minimize other maintenance to the pond or outfall structures.

For questions or concerns about Tract "A", contact at 501-.

HOPE CONSULTING, INC. CERTIFICATE OF AUTHORIZATION No. 1931 ARKANSAS

N

BASIS OF BEARING
GRID NORTH, ARKANSAS
COORDINATE SYSTEM, SOUTH ZONE
BY GPS OBSERVATION

10' 5' 0 10'

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ELITE MEDICAL SUPPLIES
DETANTION PLAN
HWY5, BRYANT, SALINE COUNTY, ARKANSAS

DATE:	10/22/2026	C.A.D. BY:		DRAWING NUMBER:			
REVISED:	##	CHECKED BY:		26-0791			
SHEET:	C-6.0	SCALE:	1" = 10"				
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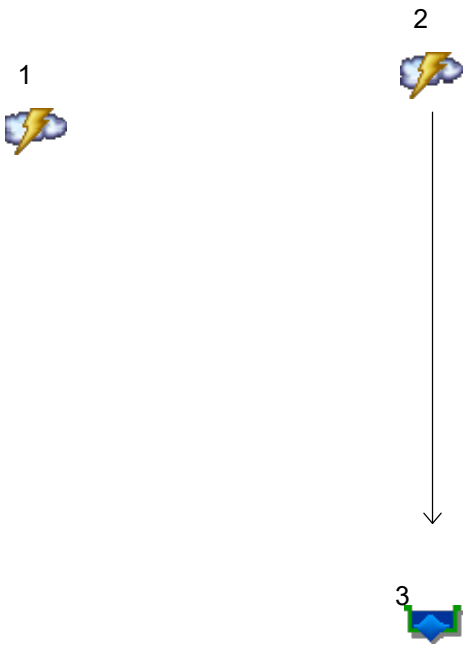
Hydrograph Summary Report
NORTH DETENTION

Watershed Model Schematic



Legend

Hyd.	Origin	Description
1	Rational	PRE DEV
2	Rational	POST DEV-A
3	Reservoir	RESERVOIR

Hydrograph Return Period Recap

Hyd. No.	Hydrograph type (origin)	Inflow hyd(s)	Peak Outflow (cfs)								Hydrograph Description
			1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr	
1	Rational	------	-------	2.151	-------	2.555	2.877	3.304	3.620	3.917	PRE DEV
2	Rational	------	-------	7.377	-------	8.755	9.837	11.29	12.43	13.48	POST DEV-A
3	Reservoir	2	-------	1.410	-------	1.674	1.893	2.200	2.449	2.688	RESERVOIR

Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	Rational	2.151	1	10	1,290	------	------	------	PRE DEV
2	Rational	7.377	1	5	2,213	------	------	------	POST DEV-A
3	Reservoir	1.410	1	9	2,112	2	371.52	1,846	RESERVOIR

Hydrograph Report

Hyd. No. 1

PRE DEV

Hydrograph type	=	Rational	Peak discharge	=	2.151 cfs
Storm frequency	=	2 yrs	Time to peak	=	10 min
Time interval	=	1 min	Hyd. volume	=	1,290 cuft
Drainage area	=	0.930 ac	Runoff coeff.	=	0.49
Intensity	=	4.719 in/hr	Tc by User	=	10.00 min
IDF Curve	=	26-0791 IDF.IDF	Asc/Rec limb fact	=	1/1

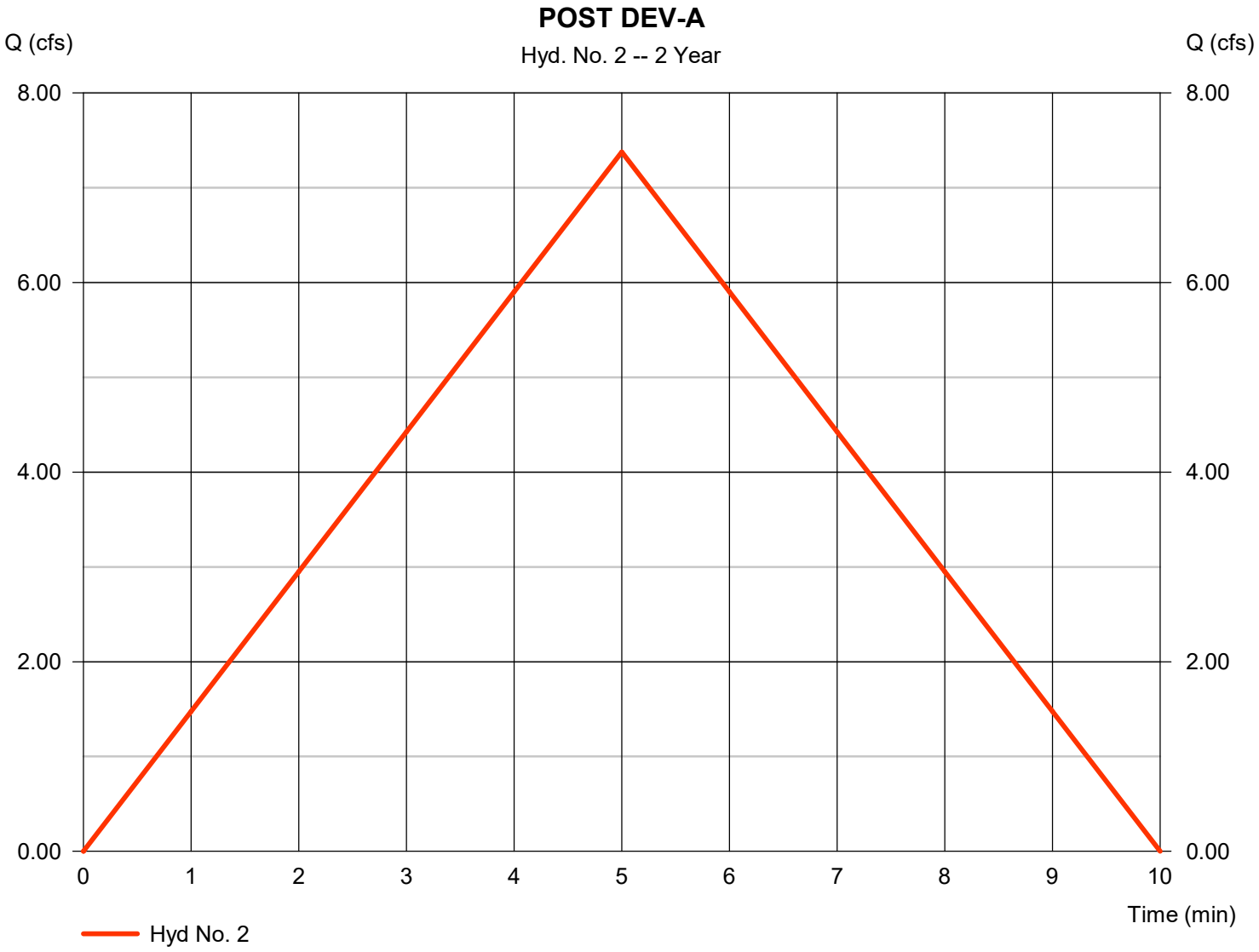


Hydrograph Report

Hyd. No. 2

POST DEV-A

Hydrograph type	=	Rational	Peak discharge	=	7.377 cfs
Storm frequency	=	2 yrs	Time to peak	=	5 min
Time interval	=	1 min	Hyd. volume	=	2,213 cuft
Drainage area	=	1.270 ac	Runoff coeff.	=	0.95
Intensity	=	6.115 in/hr	Tc by User	=	5.00 min
IDF Curve	=	26-0791 IDF.IDF	Asc/Rec limb fact	=	1/1



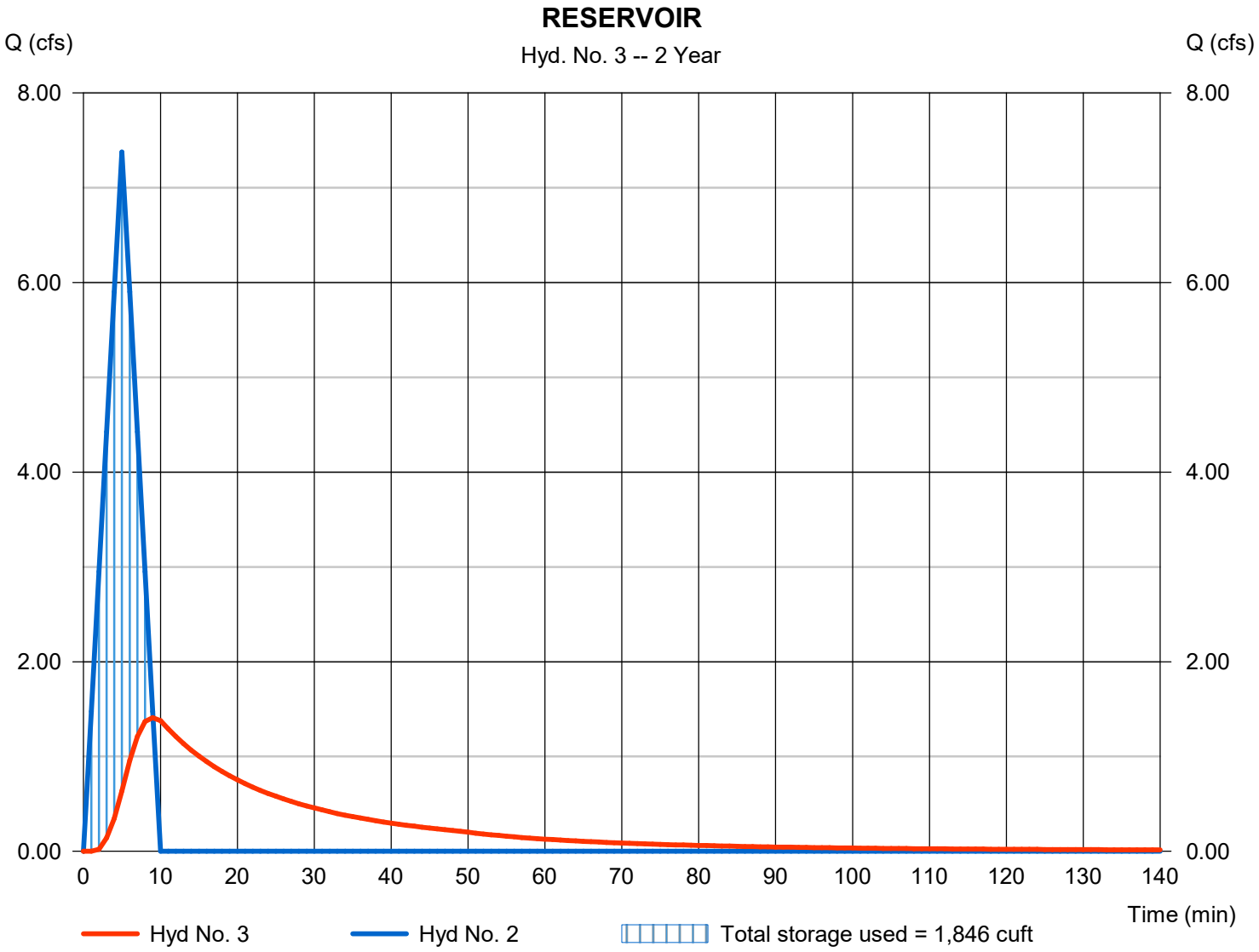
Hydrograph Report

Hyd. No. 3

RESERVOIR

Hydrograph type	=	Reservoir	Peak discharge	=	1.410 cfs
Storm frequency	=	2 yrs	Time to peak	=	9 min
Time interval	=	1 min	Hyd. volume	=	2,112 cuft
Inflow hyd. No.	=	2 - POST DEV-A	Max. Elevation	=	371.52 ft
Reservoir name	=	DETENTION	Max. Storage	=	1,846 cuft

Storage Indication method used.



Pond Report

Pond No. 1 - DETENTION

Pond Data

Contours -User-defined contour areas. Conic method used for volume calculation. Begining Elevation = 370.00 ft

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	370.00	850	0	0
0.50	370.50	1,080	481	481
1.50	371.50	1,587	1,325	1,807
2.50	372.50	2,250	1,909	3,715
3.50	373.50	3,045	2,637	6,352

Culvert / Orifice Structures

	[A]	[B]	[C]	[PrfRsr]
Rise (in)	Inactive	0.00	0.00	0.00
Span (in)	= 18.00	0.00	0.00	0.00
No. Barrels	= 1	0	0	0
Invert El. (ft)	= 368.00	0.00	0.00	0.00
Length (ft)	= 30.00	0.00	0.00	0.00
Slope (%)	= 1.00	0.00	0.00	n/a
N-Value	= .013	.013	.013	n/a
Orifice Coeff.	= 0.60	0.60	0.60	0.60
Multi-Stage	= n/a	No	No	No

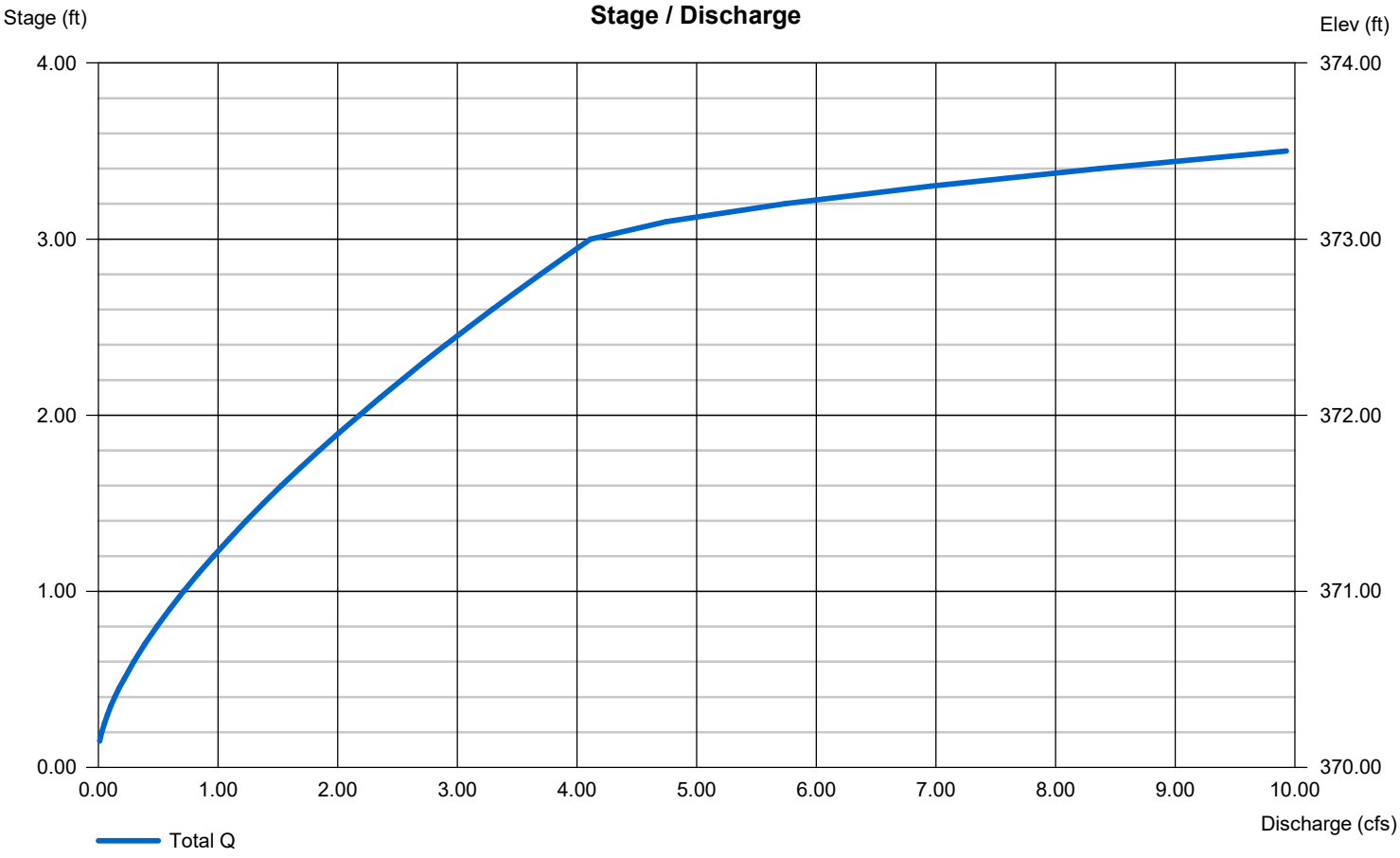
Weir Structures

	[A]	[B]	[C]	[D]
Crest Len (ft)	= 0.25	4.00	0.00	0.00
Crest El. (ft)	= 370.10	373.00	0.00	0.00
Weir Coeff.	= 3.33	3.33	3.33	3.33
Weir Type	= Rect	Rect	Rect	---
Multi-Stage	= No	No	No	No

Exfil.(in/hr) = 0.000 (by Contour)

TW Elev. (ft) = 0.00

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



Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025

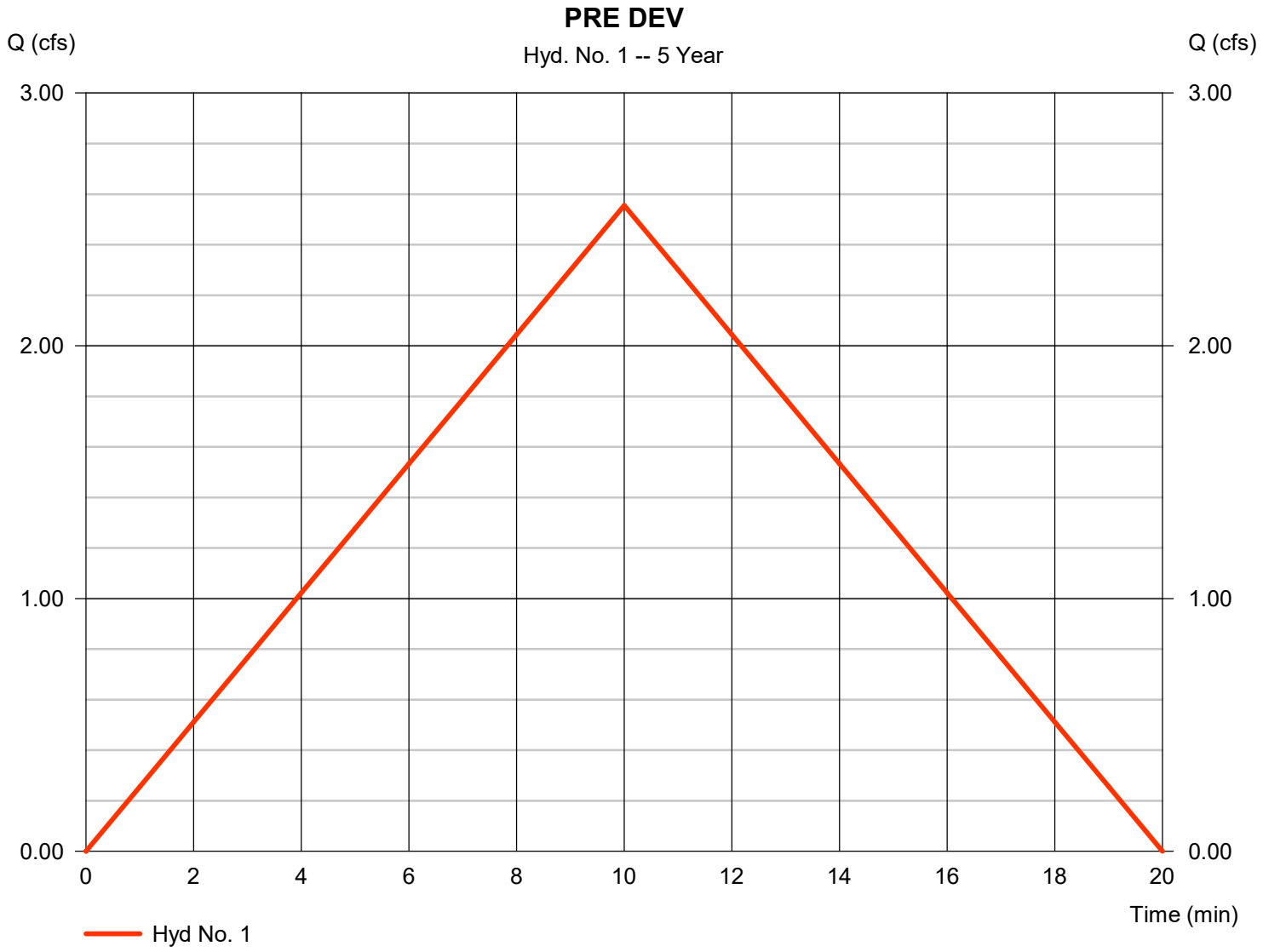
Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	Rational	2.555	1	10	1,533	------	------	------	PRE DEV
2	Rational	8.755	1	5	2,627	------	------	------	POST DEV-A
3	Reservoir	1.674	1	9	2,525	2	371.69	2,175	RESERVOIR

Hydrograph Report

Hyd. No. 1

PRE DEV

Hydrograph type	=	Rational	Peak discharge	=	2.555 cfs
Storm frequency	=	5 yrs	Time to peak	=	10 min
Time interval	=	1 min	Hyd. volume	=	1,533 cuft
Drainage area	=	0.930 ac	Runoff coeff.	=	0.49
Intensity	=	5.608 in/hr	Tc by User	=	10.00 min
IDF Curve	=	26-0791 IDF.IDF	Asc/Rec limb fact	=	1/1

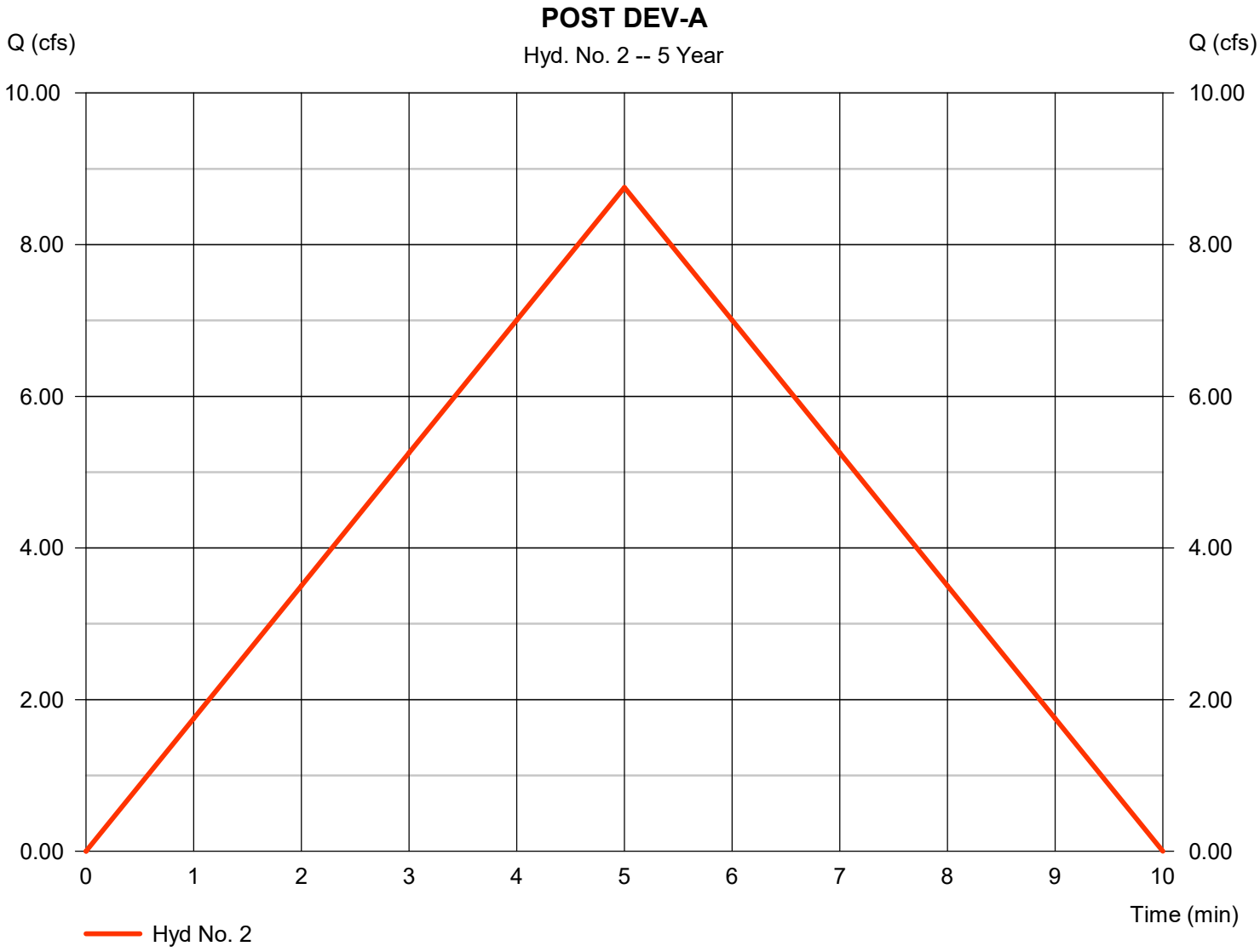


Hydrograph Report

Hyd. No. 2

POST DEV-A

Hydrograph type	=	Rational	Peak discharge	=	8.755 cfs
Storm frequency	=	5 yrs	Time to peak	=	5 min
Time interval	=	1 min	Hyd. volume	=	2,627 cuft
Drainage area	=	1.270 ac	Runoff coeff.	=	0.95
Intensity	=	7.257 in/hr	Tc by User	=	5.00 min
IDF Curve	=	26-0791 IDF.IDF	Asc/Rec limb fact	=	1/1



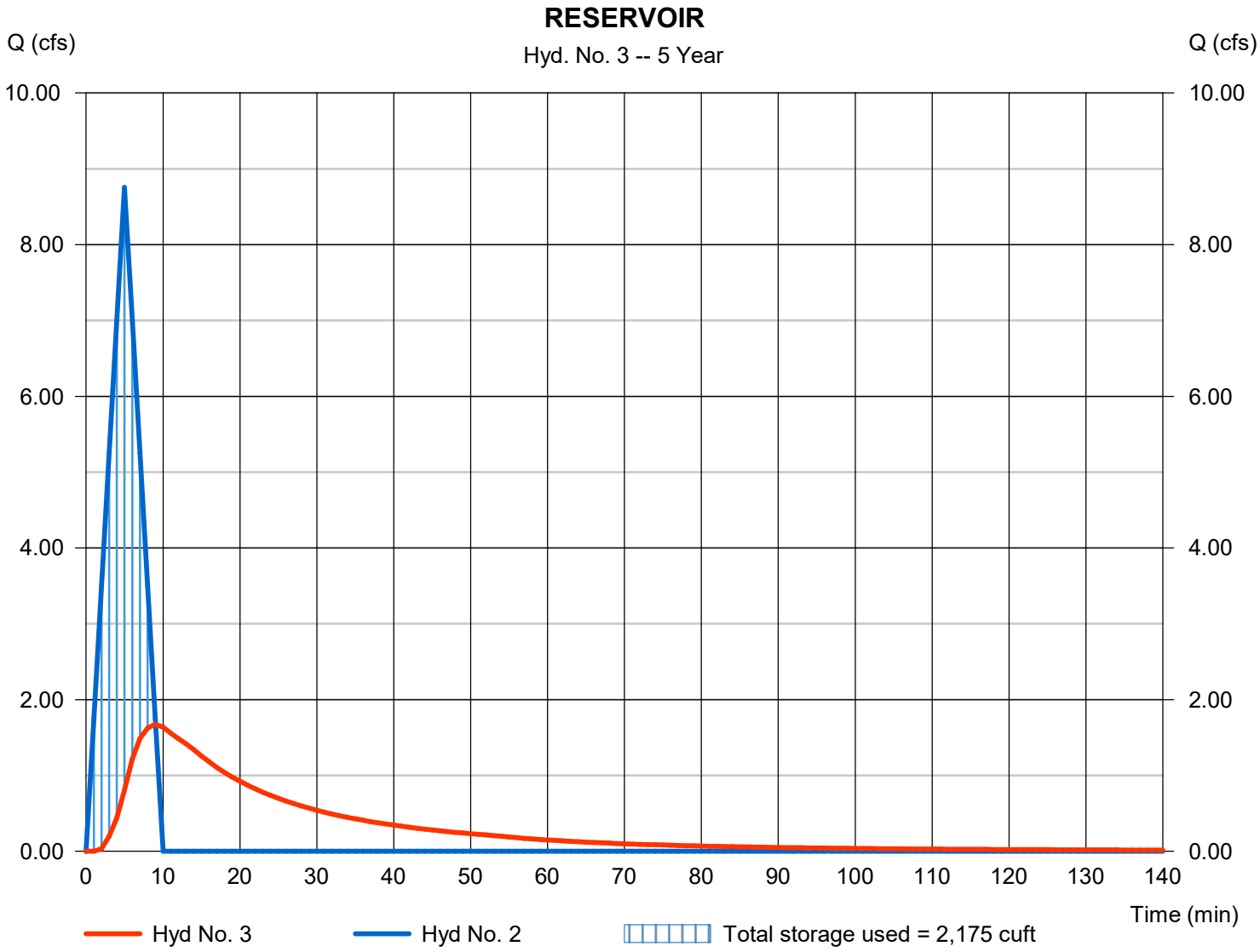
Hydrograph Report

Hyd. No. 3

RESERVOIR

Hydrograph type	=	Reservoir	Peak discharge	=	1.674 cfs
Storm frequency	=	5 yrs	Time to peak	=	9 min
Time interval	=	1 min	Hyd. volume	=	2,525 cuft
Inflow hyd. No.	=	2 - POST DEV-A	Max. Elevation	=	371.69 ft
Reservoir name	=	DETENTION	Max. Storage	=	2,175 cuft

Storage Indication method used.



Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025

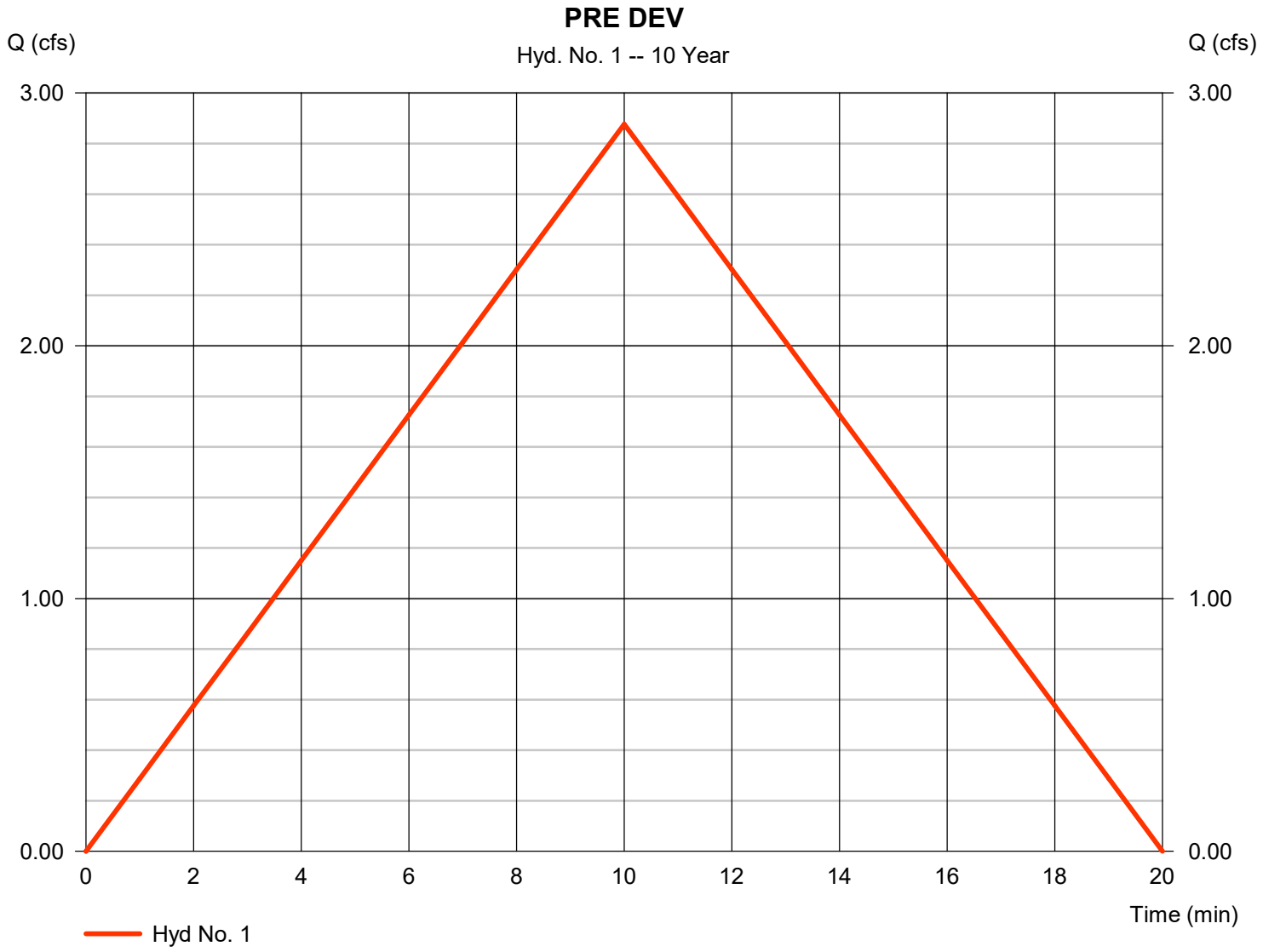
Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	Rational	2.877	1	10	1,726	------	------	------	PRE DEV
2	Rational	9.837	1	5	2,951	------	------	------	POST DEV-A
3	Reservoir	1.893	1	9	2,850	2	371.83	2,434	RESERVOIR

Hydrograph Report

Hyd. No. 1

PRE DEV

Hydrograph type	=	Rational	Peak discharge	=	2.877 cfs
Storm frequency	=	10 yrs	Time to peak	=	10 min
Time interval	=	1 min	Hyd. volume	=	1,726 cuft
Drainage area	=	0.930 ac	Runoff coeff.	=	0.49
Intensity	=	6.313 in/hr	Tc by User	=	10.00 min
IDF Curve	=	26-0791 IDF.IDF	Asc/Rec limb fact	=	1/1

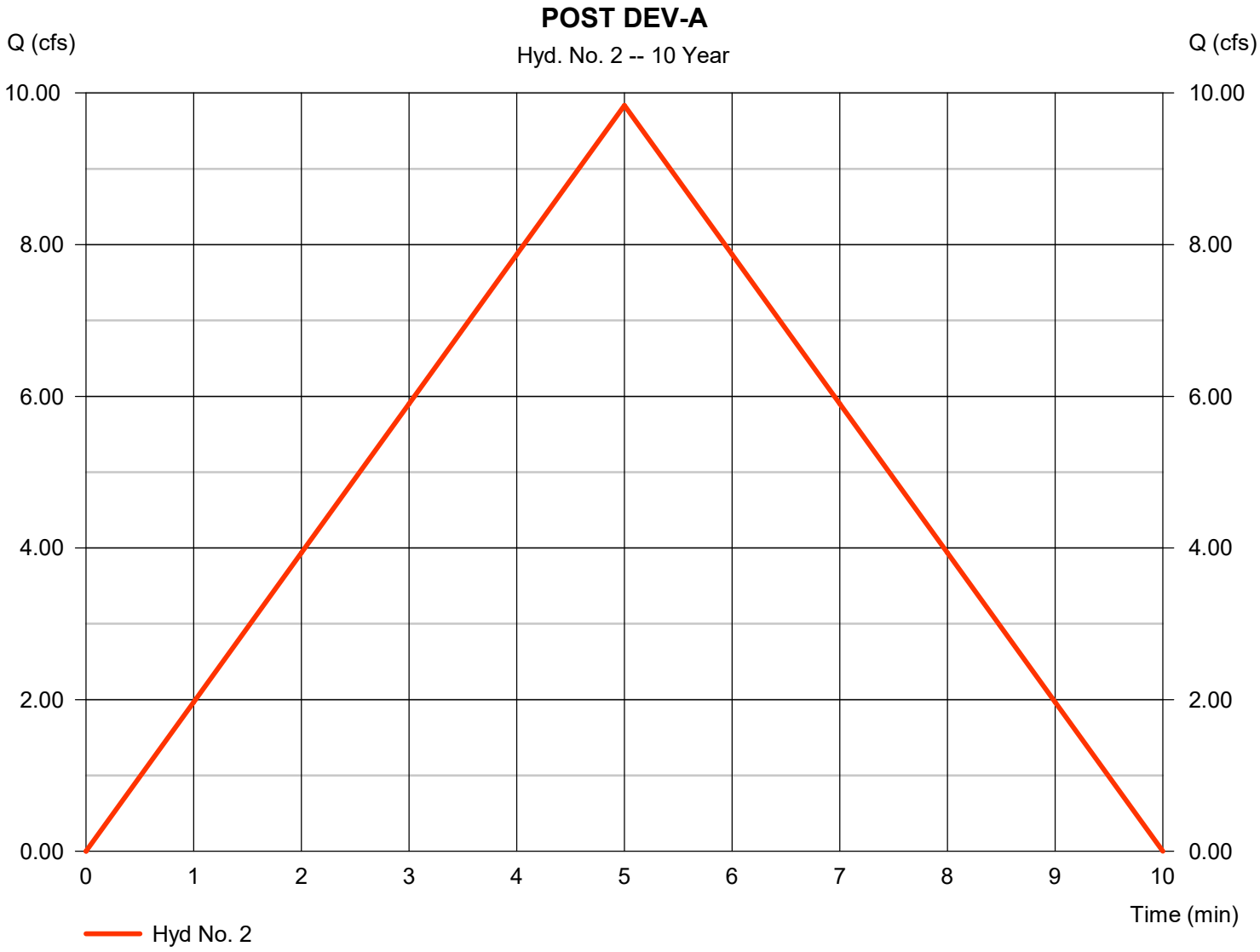


Hydrograph Report

Hyd. No. 2

POST DEV-A

Hydrograph type	=	Rational	Peak discharge	=	9.837 cfs
Storm frequency	=	10 yrs	Time to peak	=	5 min
Time interval	=	1 min	Hyd. volume	=	2,951 cuft
Drainage area	=	1.270 ac	Runoff coeff.	=	0.95
Intensity	=	8.153 in/hr	Tc by User	=	5.00 min
IDF Curve	=	26-0791 IDF.IDF	Asc/Rec limb fact	=	1/1



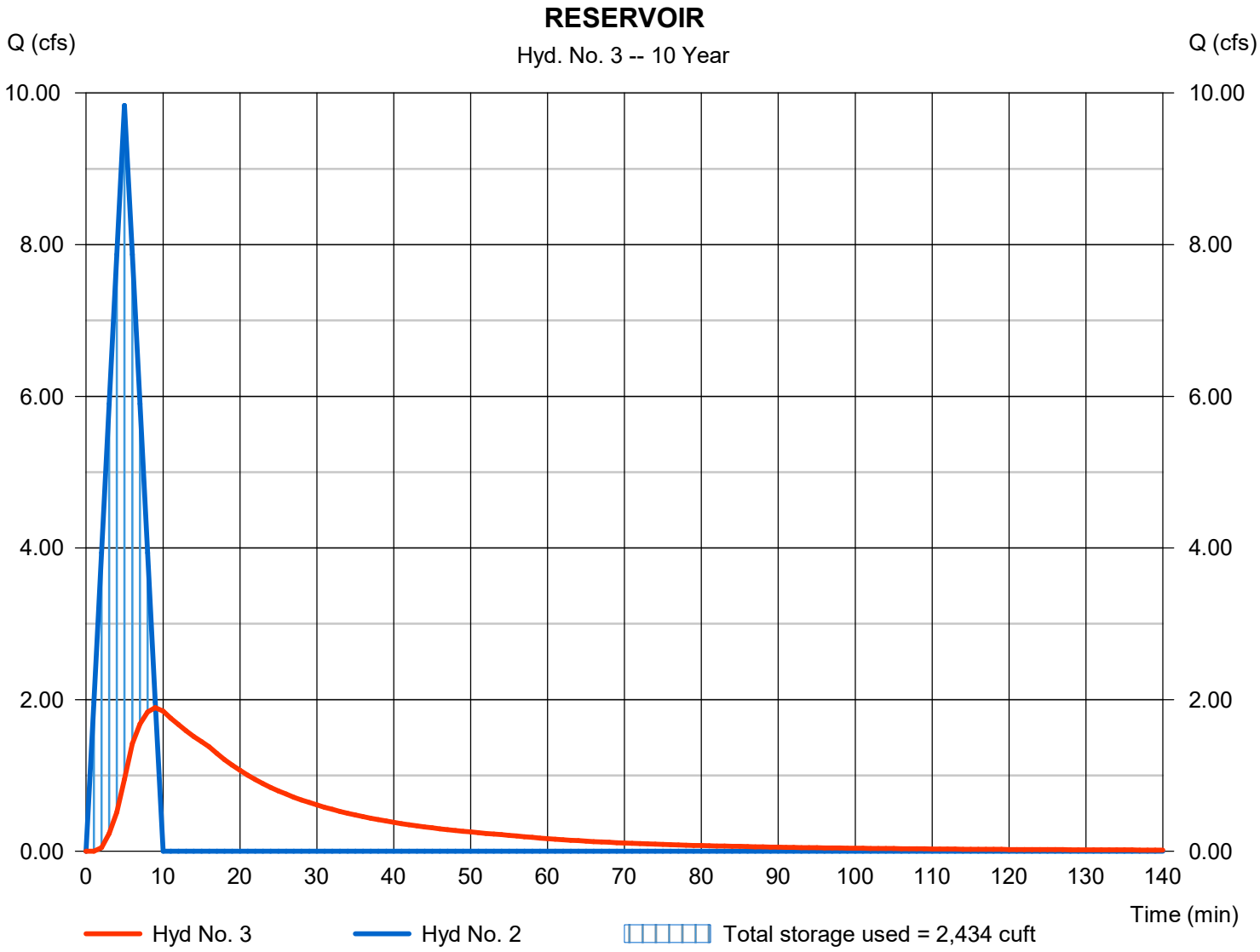
Hydrograph Report

Hyd. No. 3

RESERVOIR

Hydrograph type	=	Reservoir	Peak discharge	=	1.893 cfs
Storm frequency	=	10 yrs	Time to peak	=	9 min
Time interval	=	1 min	Hyd. volume	=	2,850 cuft
Inflow hyd. No.	=	2 - POST DEV-A	Max. Elevation	=	371.83 ft
Reservoir name	=	DETENTION	Max. Storage	=	2,434 cuft

Storage Indication method used.



Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025

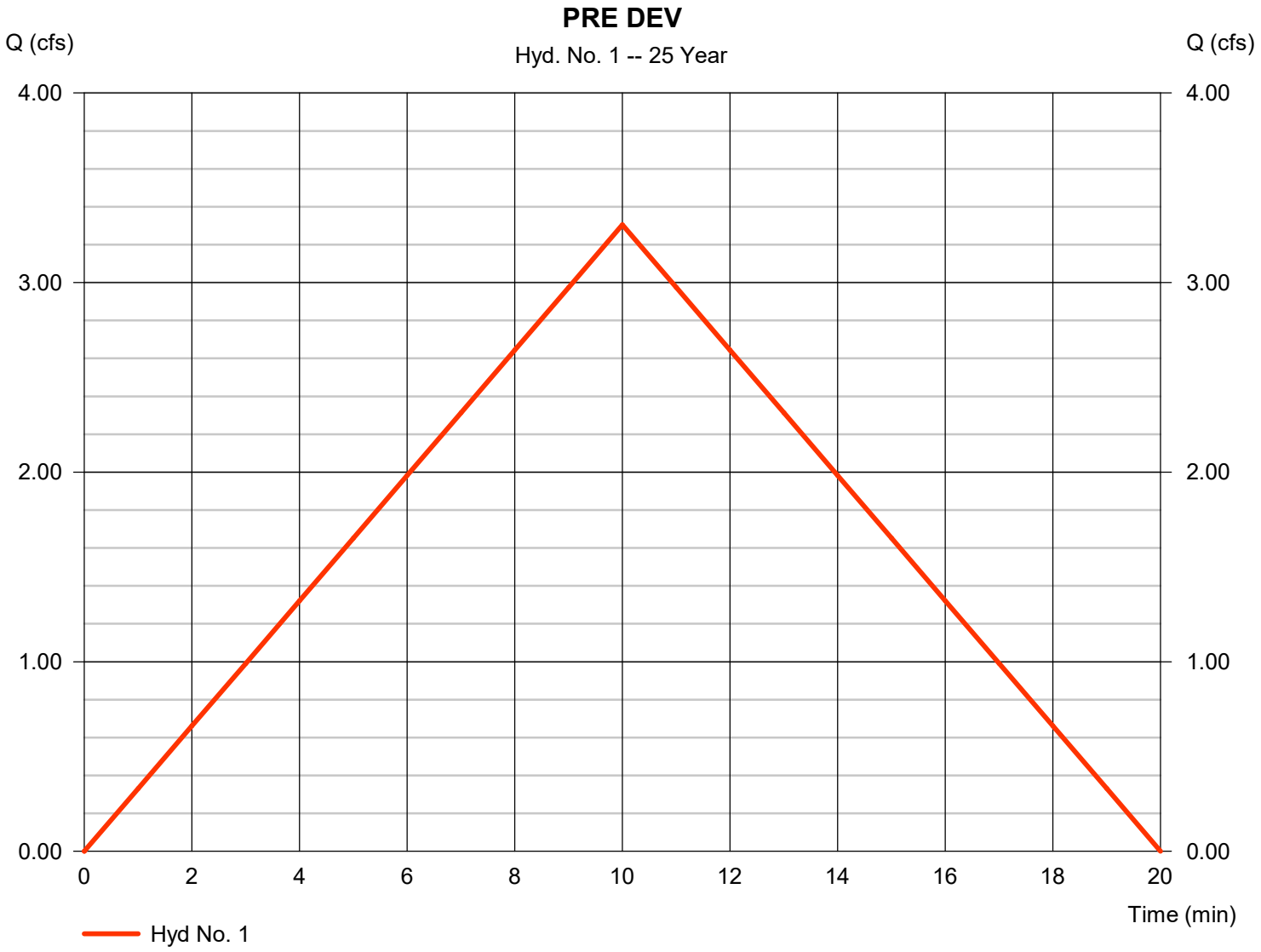
Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	Rational	3.304	1	10	1,983	------	------	------	PRE DEV
2	Rational	11.29	1	5	3,387	------	------	------	POST DEV-A
3	Reservoir	2.200	1	9	3,285	2	372.01	2,782	RESERVOIR

Hydrograph Report

Hyd. No. 1

PRE DEV

Hydrograph type	=	Rational	Peak discharge	=	3.304 cfs
Storm frequency	=	25 yrs	Time to peak	=	10 min
Time interval	=	1 min	Hyd. volume	=	1,983 cuft
Drainage area	=	0.930 ac	Runoff coeff.	=	0.49
Intensity	=	7.251 in/hr	Tc by User	=	10.00 min
IDF Curve	=	26-0791 IDF.IDF	Asc/Rec limb fact	=	1/1

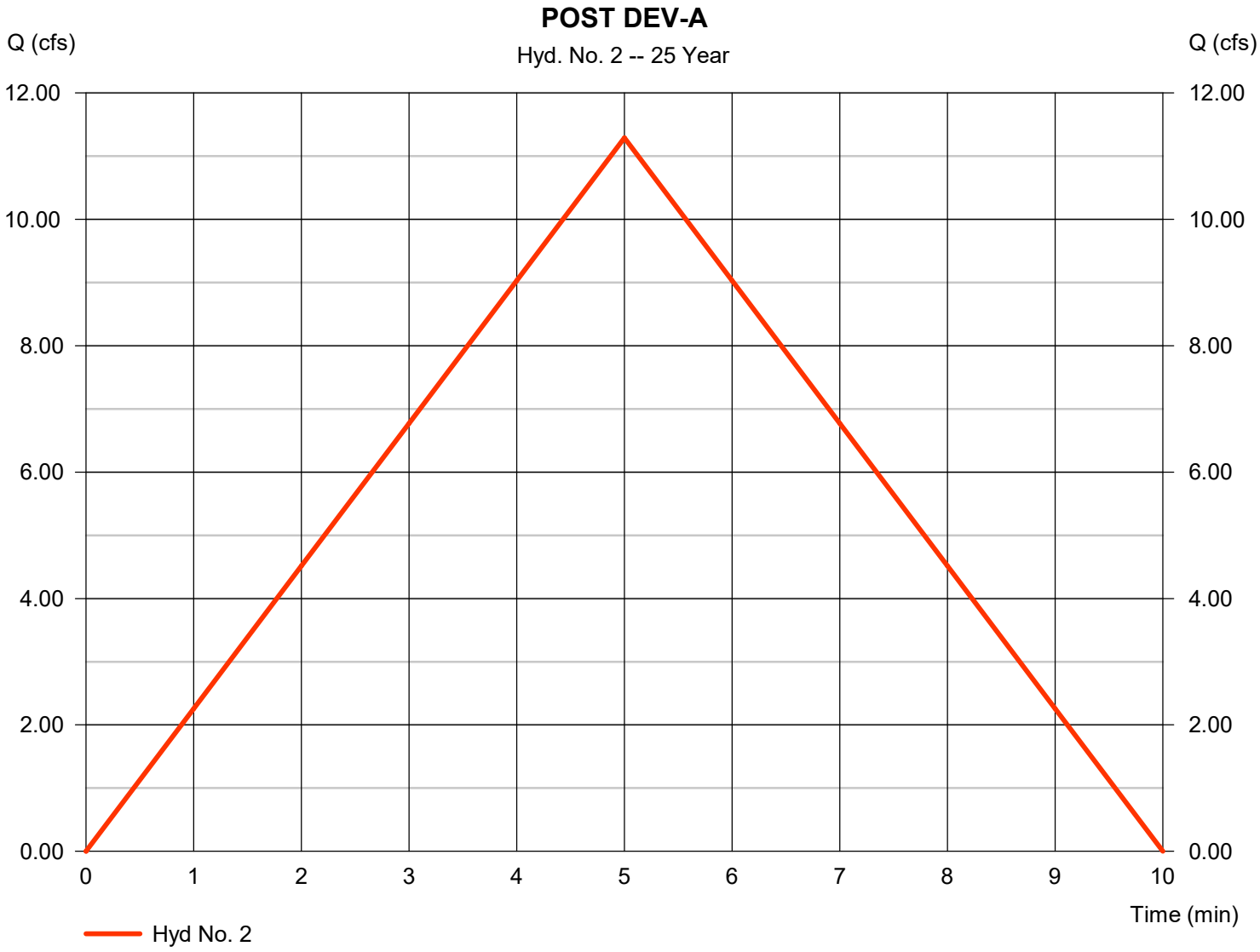


Hydrograph Report

Hyd. No. 2

POST DEV-A

Hydrograph type	=	Rational	Peak discharge	=	11.29 cfs
Storm frequency	=	25 yrs	Time to peak	=	5 min
Time interval	=	1 min	Hyd. volume	=	3,387 cuft
Drainage area	=	1.270 ac	Runoff coeff.	=	0.95
Intensity	=	9.356 in/hr	Tc by User	=	5.00 min
IDF Curve	=	26-0791 IDF.IDF	Asc/Rec limb fact	=	1/1



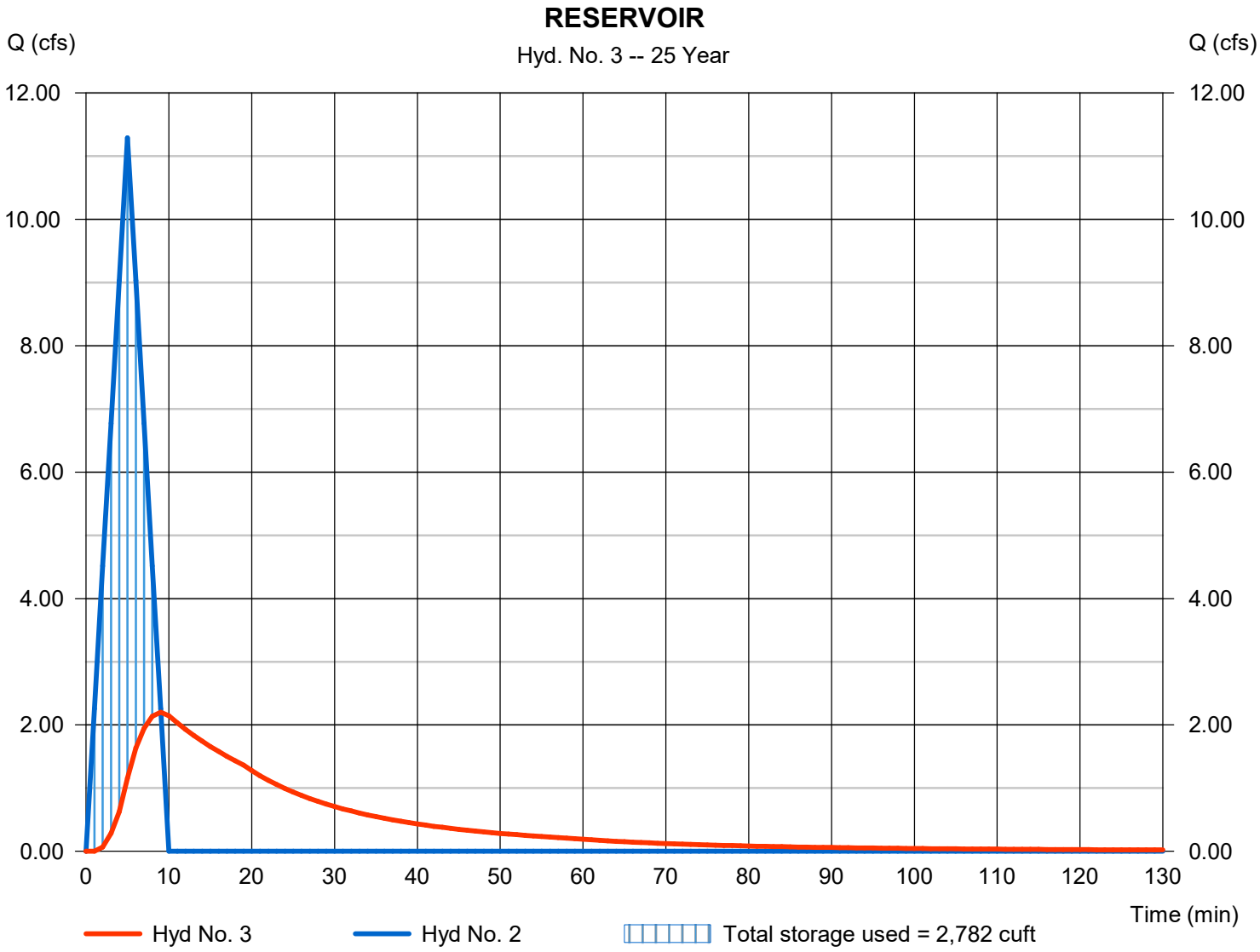
Hydrograph Report

Hyd. No. 3

RESERVOIR

Hydrograph type	=	Reservoir	Peak discharge	=	2.200 cfs
Storm frequency	=	25 yrs	Time to peak	=	9 min
Time interval	=	1 min	Hyd. volume	=	3,285 cuft
Inflow hyd. No.	=	2 - POST DEV-A	Max. Elevation	=	372.01 ft
Reservoir name	=	DETENTION	Max. Storage	=	2,782 cuft

Storage Indication method used.



Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025

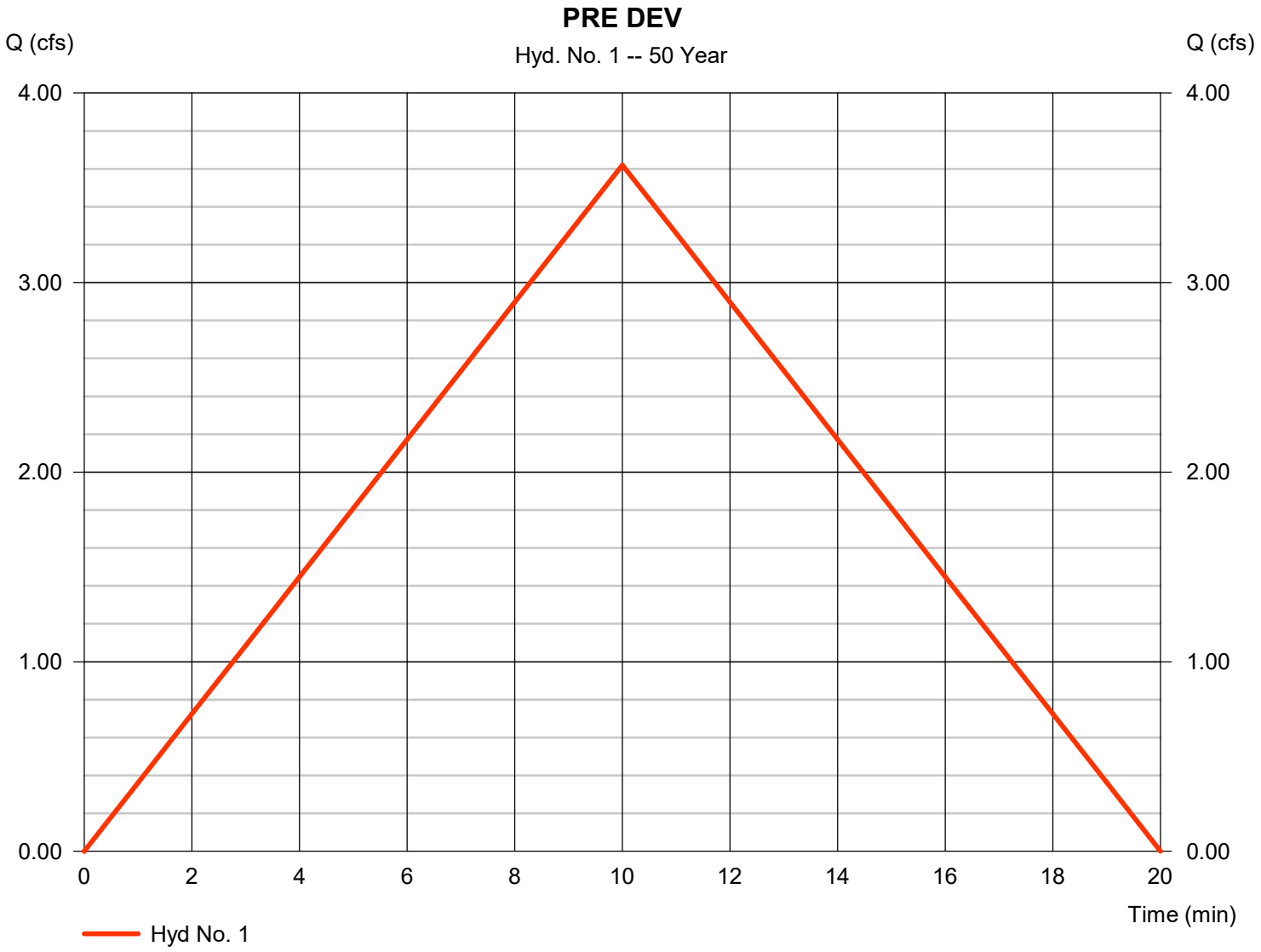
Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	Rational	3.620	1	10	2,172	------	------	------	PRE DEV
2	Rational	12.43	1	5	3,728	------	------	------	POST DEV-A
3	Reservoir	2.449	1	9	3,626	2	372.15	3,053	RESERVOIR

Hydrograph Report

Hyd. No. 1

PRE DEV

Hydrograph type	=	Rational	Peak discharge	=	3.620 cfs
Storm frequency	=	50 yrs	Time to peak	=	10 min
Time interval	=	1 min	Hyd. volume	=	2,172 cuft
Drainage area	=	0.930 ac	Runoff coeff.	=	0.49
Intensity	=	7.945 in/hr	Tc by User	=	10.00 min
IDF Curve	=	26-0791 IDF.IDF	Asc/Rec limb fact	=	1/1

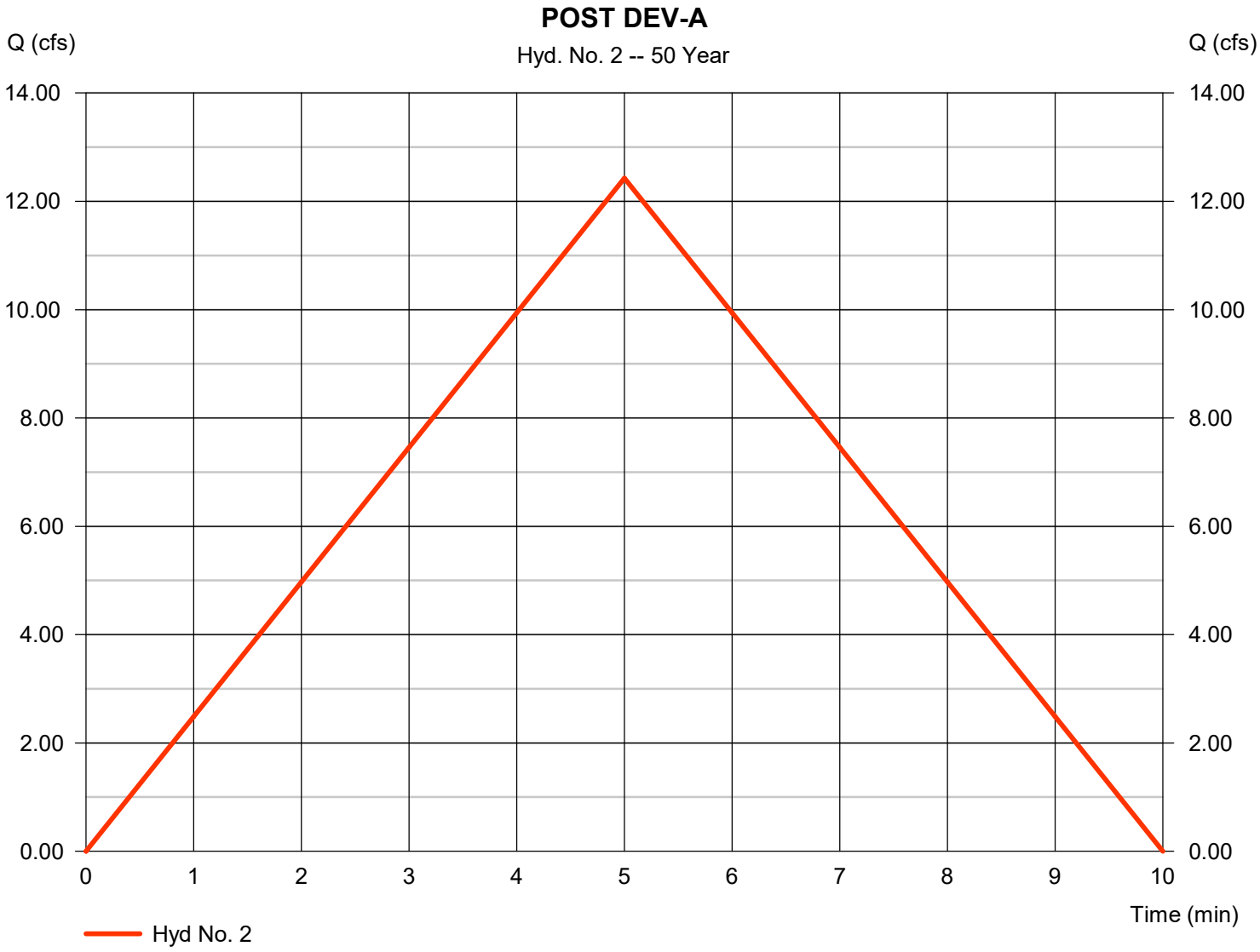


Hydrograph Report

Hyd. No. 2

POST DEV-A

Hydrograph type	=	Rational	Peak discharge	=	12.43 cfs
Storm frequency	=	50 yrs	Time to peak	=	5 min
Time interval	=	1 min	Hyd. volume	=	3,728 cuft
Drainage area	=	1.270 ac	Runoff coeff.	=	0.95
Intensity	=	10.300 in/hr	Tc by User	=	5.00 min
IDF Curve	=	26-0791 IDF.IDF	Asc/Rec limb fact	=	1/1



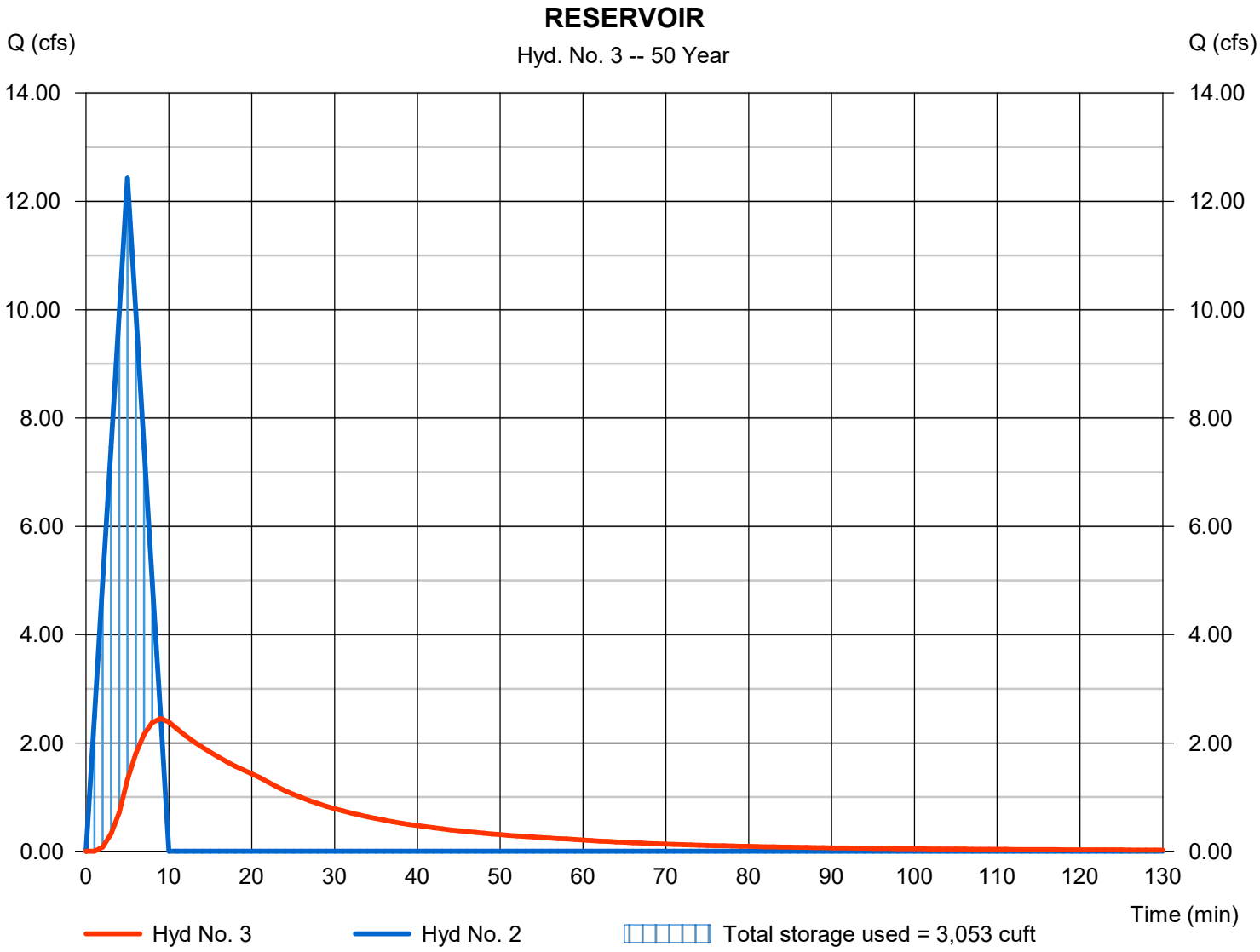
Hydrograph Report

Hyd. No. 3

RESERVOIR

Hydrograph type	=	Reservoir	Peak discharge	=	2.449 cfs
Storm frequency	=	50 yrs	Time to peak	=	9 min
Time interval	=	1 min	Hyd. volume	=	3,626 cuft
Inflow hyd. No.	=	2 - POST DEV-A	Max. Elevation	=	372.15 ft
Reservoir name	=	DETENTION	Max. Storage	=	3,053 cuft

Storage Indication method used.



Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025

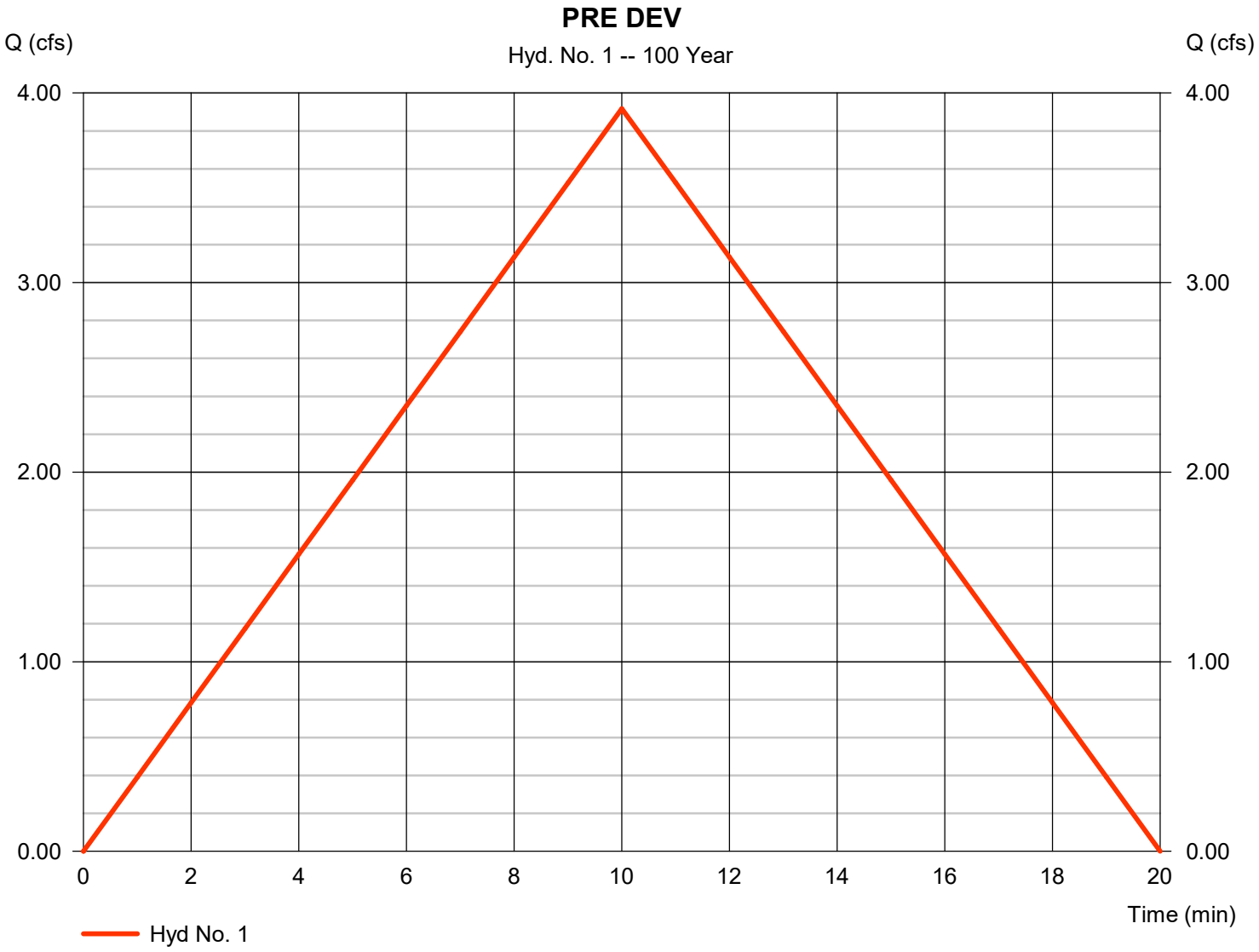
Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	Rational	3.917	1	10	2,350	------	------	------	PRE DEV
2	Rational	13.48	1	5	4,044	------	------	------	POST DEV-A
3	Reservoir	2.688	1	9	3,943	2	372.28	3,303	RESERVOIR

Hydrograph Report

Hyd. No. 1

PRE DEV

Hydrograph type	=	Rational	Peak discharge	=	3.917 cfs
Storm frequency	=	100 yrs	Time to peak	=	10 min
Time interval	=	1 min	Hyd. volume	=	2,350 cuft
Drainage area	=	0.930 ac	Runoff coeff.	=	0.49
Intensity	=	8.596 in/hr	Tc by User	=	10.00 min
IDF Curve	=	26-0791 IDF.IDF	Asc/Rec limb fact	=	1/1

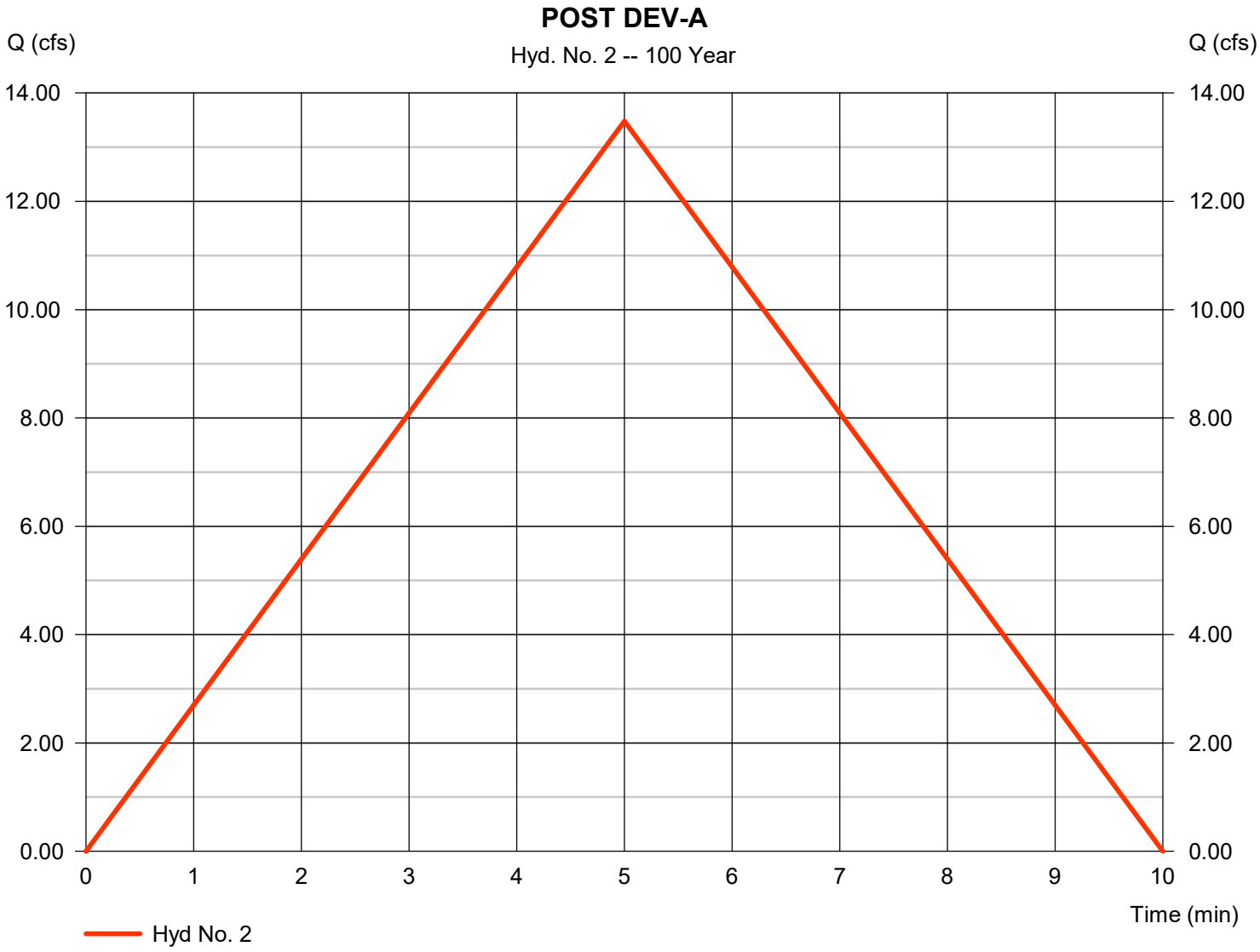


Hydrograph Report

Hyd. No. 2

POST DEV-A

Hydrograph type	=	Rational	Peak discharge	=	13.48 cfs
Storm frequency	=	100 yrs	Time to peak	=	5 min
Time interval	=	1 min	Hyd. volume	=	4,044 cuft
Drainage area	=	1.270 ac	Runoff coeff.	=	0.95
Intensity	=	11.174 in/hr	Tc by User	=	5.00 min
IDF Curve	=	26-0791 IDF.IDF	Asc/Rec limb fact	=	1/1



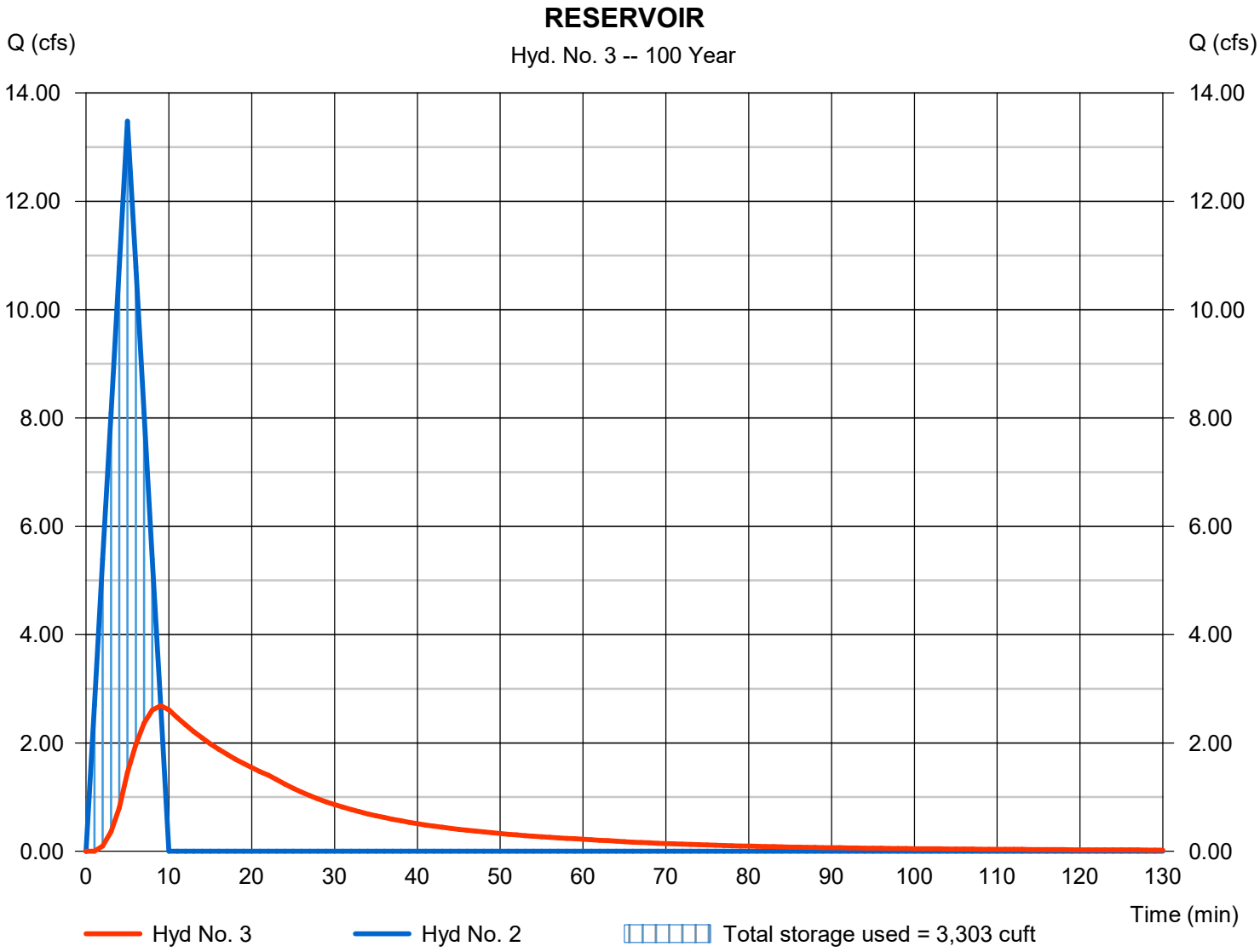
Hydrograph Report

Hyd. No. 3

RESERVOIR

Hydrograph type	=	Reservoir	Peak discharge	=	2.688 cfs
Storm frequency	=	100 yrs	Time to peak	=	9 min
Time interval	=	1 min	Hyd. volume	=	3,943 cuft
Inflow hyd. No.	=	2 - POST DEV-A	Max. Elevation	=	372.28 ft
Reservoir name	=	DETENTION	Max. Storage	=	3,303 cuft

Storage Indication method used.



Hydraflow Rainfall Report

Return Period (Yrs)	Intensity-Duration-Frequency Equation Coefficients (FHA)			
	B	D	E	(N/A)
1	23.7902	4.9000	0.6469	--------
2	29.2027	5.5000	0.6650	--------
3	0.0000	0.0000	0.0000	--------
5	34.4145	5.5000	0.6620	--------
10	39.6208	5.7000	0.6670	--------
25	45.2262	5.7000	0.6648	--------
50	46.6831	5.2000	0.6507	--------
100	47.7305	4.8000	0.6362	--------

File name: 26-0791 IDF.IDF

Intensity = B / (Tc + D)^E

Return Period (Yrs)	Intensity Values (in/hr)											
	5 min	10	15	20	25	30	35	40	45	50	55	60
1	5.40	4.14	3.44	2.97	2.64	2.39	2.19	2.03	1.90	1.78	1.69	1.60
2	6.11	4.72	3.92	3.39	3.01	2.72	2.49	2.31	2.15	2.02	1.91	1.81
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	7.26	5.61	4.66	4.03	3.58	3.24	2.97	2.75	2.57	2.41	2.28	2.16
10	8.15	6.31	5.25	4.54	4.04	3.65	3.34	3.10	2.89	2.71	2.56	2.43
25	9.36	7.25	6.03	5.23	4.64	4.20	3.85	3.56	3.33	3.12	2.95	2.80
50	10.30	7.94	6.60	5.72	5.08	4.60	4.22	3.91	3.65	3.43	3.24	3.08
100	11.17	8.60	7.14	6.19	5.51	4.99	4.58	4.25	3.97	3.74	3.54	3.36

Tc = time in minutes. Values may exceed 60.

Precip. file name: Sample.pcp

Storm Distribution	Rainfall Precipitation Table (in)							
	1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr
SCS 24-hour	0.00	2.20	0.00	3.30	4.25	5.77	6.80	7.95
SCS 6-Hr	0.00	1.80	0.00	0.00	2.60	0.00	0.00	4.00
Huff-1st	0.00	1.55	0.00	2.75	4.00	5.38	6.50	8.00
Huff-2nd	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Huff-3rd	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Huff-4th	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Huff-Indy	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Custom	0.00	1.75	0.00	2.80	3.90	5.25	6.00	7.10

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NOAA Atlas 14, Volume 9, Version 2
Location name: Alexander, Arkansas, USA*
Latitude: 34.6403°, Longitude: -92.4646°
Elevation: 382 ft**
* source: ESRI Maps
** source: USGS

POINT PRECIPITATION FREQUENCY ESTIMATES

Sanja Perica, Deborah Martin, Sandra Pavlovic, Ishani Roy, Michael St. Laurent, Carl Trypaluk, Dale Unruh, Michael Yekta, Geoffery Bonnin

NOAA, National Weather Service, Silver Spring, Maryland

PF_tabular | PF_graphical | Maps_&_aerials

PF tabular

PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches/hour)[1]

Duration	Average recurrence interval (years)									
	1	2	5	10	25	50	100	200	500	1000
5-min	5.40 (4.36-6.64)	6.12 (4.93-7.52)	7.26 (5.83-8.94)	8.17 (6.53-10.1)	9.38 (7.24-11.9)	10.3 (7.76-13.2)	11.2 (8.15-14.7)	12.0 (8.44-16.2)	13.1 (8.86-18.2)	13.9 (9.17-19.6)
10-min	3.95 (3.19-4.85)	4.48 (3.61-5.50)	5.31 (4.27-6.55)	5.98 (4.78-7.40)	6.88 (5.30-8.69)	7.54 (5.69-9.68)	8.17 (5.97-10.7)	8.80 (6.17-11.9)	9.59 (6.48-13.3)	10.2 (6.71-14.4)
15-min	3.21 (2.59-3.95)	3.64 (2.94-4.48)	4.32 (3.47-5.32)	4.86 (3.89-6.02)	5.59 (4.30-7.07)	6.12 (4.62-7.87)	6.64 (4.85-8.74)	7.15 (5.02-9.65)	7.80 (5.27-10.8)	8.26 (5.46-11.7)
30-min	2.39 (1.93-2.94)	2.72 (2.19-3.34)	3.24 (2.60-3.99)	3.65 (2.92-4.52)	4.20 (3.23-5.31)	4.60 (3.47-5.91)	4.99 (3.64-6.56)	5.37 (3.77-7.24)	5.84 (3.95-8.10)	6.18 (4.09-8.74)
60-min	1.60 (1.29-1.97)	1.81 (1.46-2.23)	2.16 (1.73-2.66)	2.43 (1.94-3.01)	2.80 (2.16-3.55)	3.08 (2.33-3.96)	3.36 (2.45-4.42)	3.63 (2.55-4.90)	3.98 (2.69-5.52)	4.23 (2.80-5.98)
2-hr	1.00 (0.816-1.22)	1.13 (0.922-1.38)	1.34 (1.09-1.64)	1.52 (1.22-1.86)	1.75 (1.36-2.21)	1.93 (1.47-2.47)	2.11 (1.55-2.76)	2.28 (1.62-3.07)	2.51 (1.71-3.47)	2.68 (1.79-3.77)
3-hr	0.752 (0.615-0.912)	0.849 (0.694-1.03)	1.01 (0.822-1.23)	1.14 (0.925-1.40)	1.33 (1.04-1.67)	1.47 (1.13-1.87)	1.61 (1.20-2.10)	1.76 (1.25-2.36)	1.95 (1.34-2.69)	2.10 (1.40-2.94)
6-hr	0.452 (0.373-0.544)	0.514 (0.423-0.619)	0.618 (0.507-0.746)	0.707 (0.577-0.857)	0.833 (0.660-1.04)	0.934 (0.722-1.19)	1.04 (0.776-1.35)	1.15 (0.822-1.53)	1.29 (0.893-1.77)	1.41 (0.946-1.96)
12-hr	0.265 (0.220-0.316)	0.305 (0.253-0.364)	0.373 (0.309-0.447)	0.433 (0.357-0.521)	0.520 (0.416-0.649)	0.590 (0.461-0.746)	0.664 (0.500-0.859)	0.741 (0.536-0.985)	0.848 (0.590-1.16)	0.933 (0.631-1.29)
24-hr	0.155 (0.130-0.184)	0.180 (0.151-0.214)	0.223 (0.186-0.265)	0.261 (0.217-0.311)	0.316 (0.255-0.393)	0.361 (0.284-0.454)	0.409 (0.311-0.527)	0.460 (0.335-0.608)	0.530 (0.371-0.720)	0.586 (0.399-0.805)
2-day	0.091 (0.077-0.107)	0.105 (0.088-0.123)	0.129 (0.109-0.152)	0.150 (0.126-0.178)	0.182 (0.148-0.224)	0.208 (0.165-0.259)	0.235 (0.180-0.301)	0.264 (0.194-0.347)	0.305 (0.215-0.411)	0.337 (0.231-0.460)
3-day	0.066 (0.056-0.077)	0.076 (0.065-0.089)	0.093 (0.079-0.109)	0.108 (0.091-0.128)	0.130 (0.106-0.160)	0.148 (0.118-0.184)	0.167 (0.128-0.212)	0.187 (0.138-0.244)	0.214 (0.152-0.288)	0.236 (0.163-0.321)
4-day	0.053 (0.045-0.062)	0.061 (0.052-0.071)	0.074 (0.063-0.087)	0.086 (0.072-0.101)	0.103 (0.084-0.125)	0.116 (0.093-0.144)	0.131 (0.101-0.166)	0.146 (0.108-0.190)	0.167 (0.118-0.223)	0.183 (0.126-0.248)
7-day	0.035 (0.030-0.040)	0.040 (0.034-0.046)	0.048 (0.041-0.056)	0.055 (0.047-0.064)	0.065 (0.054-0.079)	0.074 (0.059-0.090)	0.082 (0.063-0.103)	0.091 (0.067-0.117)	0.103 (0.073-0.137)	0.112 (0.078-0.151)
10-day	0.028 (0.024-0.032)	0.031 (0.027-0.036)	0.037 (0.032-0.043)	0.042 (0.036-0.049)	0.050 (0.041-0.060)	0.055 (0.045-0.067)	0.061 (0.048-0.077)	0.067 (0.050-0.087)	0.076 (0.054-0.100)	0.082 (0.057-0.110)
20-day	0.018 (0.016-0.021)	0.020 (0.018-0.023)	0.024 (0.020-0.027)	0.026 (0.023-0.030)	0.030 (0.025-0.036)	0.033 (0.027-0.040)	0.036 (0.028-0.044)	0.039 (0.029-0.049)	0.043 (0.031-0.056)	0.046 (0.032-0.061)
30-day	0.015 (0.013-0.017)	0.016 (0.014-0.019)	0.019 (0.016-0.021)	0.021 (0.018-0.024)	0.024 (0.020-0.028)	0.026 (0.021-0.031)	0.028 (0.022-0.034)	0.030 (0.022-0.038)	0.032 (0.023-0.042)	0.034 (0.024-0.046)
45-day	0.012 (0.010-0.014)	0.013 (0.012-0.015)	0.015 (0.013-0.017)	0.017 (0.015-0.019)	0.019 (0.016-0.023)	0.021 (0.017-0.025)	0.022 (0.018-0.028)	0.024 (0.018-0.030)	0.026 (0.019-0.034)	0.028 (0.019-0.037)
60-day	0.010 (0.009-0.011)	0.011 (0.010-0.013)	0.013 (0.012-0.015)	0.015 (0.013-0.017)	0.017 (0.014-0.020)	0.018 (0.015-0.022)	0.020 (0.016-0.024)	0.021 (0.016-0.027)	0.023 (0.017-0.030)	0.024 (0.017-0.032)

[1] Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS).

Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values.

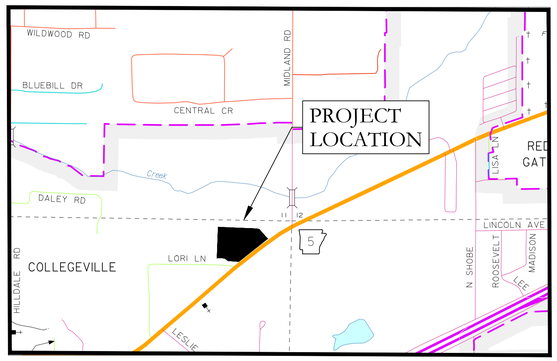
Please refer to NOAA Atlas 14 document for more information.

Back to Top

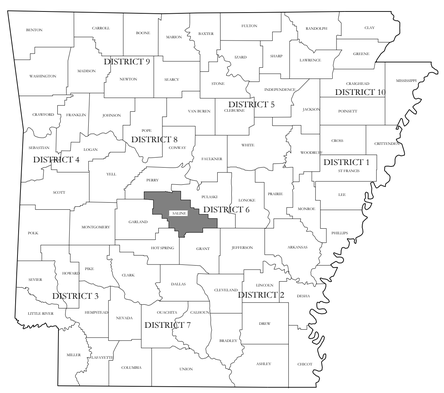
PF graphical

CONSTRUCTION PLANS
ELITE MEDICAL SUPPLIES

HWY5, BRYANT, SALINE COUNTY, ARKANSAS



VICINITY MAP



PREPARED BY:

HOPE CONSULTING
ENGINEERS - SURVEYORS

129 N. Main Street,
Benton, Arkansas 72015
PH. (501)315-2626
FAX (501) 315-0024
www.hopeconsulting.com

DRAWING INDEX

SHEET NO.	TITLE
C-0.0	SURVEY
C-1.0	SITE PLAN
C-2.0	GRADING PLAN
C-3.0	UTILITY PLAN & PROFILES
C-4.0	STORM DRAINAGE PLAN & PROFILE
C-5.0	UTILITY DETAILS
C-6.0	DETENTION PLAN
C-7.0-7.2	EROSION CONTROL PLAN

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
NO. 20078
SAAD TAMZIDUL ISLAM

CERTIFICATE OF AUTHORIZATION
HOPE CONSULTING, INC.
No. 1931
ARKANSAS

HOPE CONSULTING
ENGINEERS - SURVEYORS

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Benton, Arkansas 72015
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FAX (501) 315-0024
www.hopeconsulting.com

FOR USE AND BENEFIT OF:
TRC ELITE PROPERTIES, LLC

ELITE MEDICAL SUPPLIES
COVER SHEET
HWY5,BRYANT,SALINE COUNTY, ARKANSAS

DATE:	10/22/2026	C.A.D. BY:				DRAWING NUMBER:	
REVISED:		CHECKED BY:				26-0791	
SHEET:		SCALE:					
500	01S	14W	0	22	330	62	1664

E:\HOPE CONSULTING\0.0 OFFICE PROJECTS\ASSIGNED PROJECTS\26-0791\DWG\26-0791 WORKING 10_20_2026 - COPY.DWG

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

0 10' 20' 40'
SCALE: 1" = 20'

BEARINGS ARE BASED ON GRID NORTH AS ESTABLISHED BY GPS OBSERVATIONS, SOUTH ZONE (0502), PER ASMRN 08.

S89°34'40"W 492.74'

S01°41'14"W 786.64'

N00°13'48"E 198.15'

N82°20'29"W 309.48'

N02°56'38"E 64.74'

N87°14'28"W 150.15'

N88°00'31"W 40.00'

N07°59'29"E 80.28'

HENRY AVENUE (60' R/W)

S0°39'14"E 455.20'

FND. 1/2" REBAR & CAP PLS #1141 POINT OF BEGINNING

N87°36'24"W 263.43'

FND. 1/2" REBAR

15' UTILITY EASEMENT

15' BUILDING SETBACK LINE

CURVE TABLE
CURVE | LENGTH | RADIUS | CHORD BEARING | CHORD LENGTH
C1 | 86.14' | 100.00' | S27°06'47"W | 83.53'

FND. 1/2" REBAR

HENRY AVENUE (60' R/W)

15' WATERLINE & UTILITY EASEMENT
15' BUILDING SETBACK LINE

N37°06'47"E 70.00'

29.6'

POINT OF COMMENCEMENT
NORTHEAST CORNER OF THE NE1/4 NE1/4 OF SEC. 14, T-01-S, R-14-W

WILLINGHAM
TONYA YVETTE
840-05520-010

SHED

LEANTO

59.3'

80.3'

S00°05'56"W 459.98'

20' UTILITY EASEMENT

75' BUILDING SETBACK LINE

840-11659-003
PX2 PROPERTIES LLC
1.80 AC
78402.2 SF

PAYNE CHANDRA
840-11659-006

FND. 1" PIPE

15' BUILDING SETBACK LINE
15' UTILITY EASEMENT

S85°57'21"E 220.67'

FND. 2" PIPE

YORI LANE

15' BUILDING SETBACK LINE
15' WATERLINE & UTILITY EASEMENT

S37°06'47"W 70.00'

ARKANSAS STATE HIGHWAY NO. 5 (80' R/W)

RECORD PROPERTY DESCRIPTION
SALINE COUNTY INSTRUMENT WARRANTY DEED 2024-005386

PART OF THE NORTHEAST QUARTER OF NORTHEAST QUARTER, SECTION 14, TOWNSHIP 1 SOUTH, RANGE 14 WEST, SALINE COUNTY, ARKANSAS, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCING AT THE NORTHEAST CORNER OF SAID NE 1/4 NE 1/4 SECTION 14; THENCE NORTH 01 DEG. 59 MIN. 29 SEC. EAST 180.26 FEET; THENCE NORTH 88 DEG. 00 MIN. 31 SEC. WEST 40.00 FEET; THENCE NORTH 87 DEG. 14 MIN. 28 SEC. WEST 150.15 FEET; THENCE NORTH 02 DEG. 36 MIN. 38 SEC. EAST 64.74 FEET; THENCE NORTH 82 DEG. 20 MIN. 29 SEC. WEST 309.48 FEET; THENCE NORTH 00 DEG. 13 MIN. 48 SEC. EAST 198.15 FEET; THENCE SOUTH 89 DEG. 34 MIN. 49 SEC. WEST 492.74 FEET; THENCE SOUTH 01 DEG. 41 MIN. 14 SEC. WEST 786.61 FEET TO THE NORTH RIGHT OF WAY OF HENRY AVE.; THENCE SOUTH 02 DEG. 35 MIN. 42 SEC. EAST 60.36 FEET TO THE SOUTH RIGHT OF WAY LINE OF HENRY AVE. AND THE POINT OF BEGINNING; THENCE SOUTH 05 DEG. 17 MIN. 47 SEC. WEST 239.80 FEET TO THE NORTH RIGHT OF WAY OF LORI LN.; THENCE ALONG SAID RIGHT OF WAY SOUTH 85 DEG. 56 MIN. 39 SEC. EAST 220.70 FEET TO THE NORTH RIGHT OF WAY OF ARKANSAS STATE HIGHWAY #5; THENCE NORTH 51 DEG. 38 MIN. 51 SEC. EAST 231.85 FEET TO THE SOUTH RIGHT OF WAY OF HENRY AVE.; THENCE ALONG SAID RIGHT OF WAY THE FOLLOWING 3 COURSES; NORTH 37 DEG. 43 MIN. 05 SEC. WEST 77.52 FEET; THENCE ALONG A CURVE TO THE LEFT WITH A LENGTH OF 86.14 FEET, RADIUS OF 100.00 FEET; CHORD BEARING AND DISTANCE OF NORTH 62 DEG. 50 MIN. 12 SEC. WEST 83.50 FEET; THENCE NORTH 87 DEG. 32 MIN. 34 SEC. WEST 258.35 FEET TO THE POINT OF BEGINNING CONTAINING 1.79 ACRES (77,870.68 S.F.) MORE OR LESS.

SURVEY DETAILS AND NOTES

OWNER OF RECORD:	PX2 PROPERTIES LLC
PHYSICAL ADDRESS:	BRYANT, AR, 72022
COUNTY PARCEL TAX ID:	840-11659-003

ALL DIMENSIONS LISTED ARE AS MEASURED BY THIS SURVEYOR UNLESS OTHERWISE NOTED. FOR RECORD DIMENSIONS SEE DOCUMENTS OF RECORD.

OWNERSHIP INFORMATION, IF SHOWN, IS LISTED AS PUBLISHED BY THE LOCAL COUNTY TAX ASSESSOR AND IS LISTED FOR REFERENCE ONLY. NO STATEMENTS OF OWNERSHIP, RIGHTS, OR INTERESTS ARE MADE.

THIS SURVEY IS BASED ON PUBLIC RECORDS AND/OR TITLE INVESTIGATIONS FURNISHED BY THIRD PARTIES. NO INDEPENDENT SEARCH OR INVESTIGATION HAS BEEN MADE BY THIS FIRM FOR ANY RECORDS, PUBLIC OR PRIVATE. LISTED REFERENCE DOCUMENTS HEREON WERE USED AND CONSIDERED AS A PART OF THIS SURVEY; HOWEVER OTHER RECORDS, IF ANY, COULD FURTHER AFFECT THIS SURVEY. NO STATEMENT OR GUARANTEES OF OWNERSHIP, RIGHTS, OR OTHER INTERESTS ARE MADE BY THIS SURVEY PLAT.

CERTIFICATE OF AUTHORIZATION
HOPE CONSULTING, INC.
No. 1931
ARKANSAS

STATE OF ARKANSAS
No. 1573
REGISTERED PROFESSIONAL LAND SURVEYOR
SIGNATURE
09/15/2026
DATE

FLOOD ZONE INFORMATION
NOPORTION OF THE PROPERTY DESCRIBED HEREON LIES WITHIN A SPECIAL FLOOD HAZARD AREA, ACCORDING TO THE FEMA FLOOD INSURANCE RATE MAP LISTED BELOW: PANEL #05125C0240E; DATED 06/05/2020 .

REFERENCE DOCUMENTS CITED
RECORDED SURVEY PLATS BY:
KINGS CROSSING, PHASE 1, REVISED FINAL PLAT (PS #1091), FOR CAD, LLC, DATED 01/06/2009

LEGEND

- PLSS Aliquot Corner	- Clean Out
- Fnd. Corner Monument	- Water Meter
- Set 1/2" Rebar/Cap (1664)	- Power Pole
- Computed Point	- Sewer Manhole
(M)- As Measured	- Light Pole
(P) - Per Deed or Plat Records	- Telephone Pedestal
ESMT - Easement	- Drainage Manhole
B.S.L. - Building Setback Lines	- Gas Meter
- Fence	
- Overhead Power	
- Sewer Line	
- Water Line	
- Telephone Line	
- Electric Line	
- Gas Line	

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ENGINEERS - SURVEYORS
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www.hopeconsulting.com

FOR USE AND BENEFIT OF:
TRC ELITE PROPERTIES,LLC

ELITE MEDICAL SUPPLIES
SURVEY
HWY5, BRYANT, SALINE COUNTY, ARKANSAS

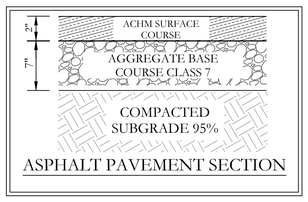
DATE:	09/15/2026	C.A.D. BY:	DRAWING NUMBER:
REVISED:	##	CHECKED BY:	26-0791
SHEET:	C-0.0	SCALE: 1' = 20"	

500	01S	14W	0	22	330	62	1664

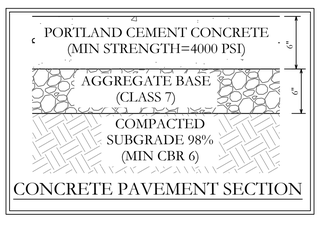
E:\HOPE CONSULTING\(0)FILE PROJECTS\ASSIGNED PROJECTS\26-0791\DWG\26-0791 HWY 5 AND HENRY AVENUE - 082726.DWG

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



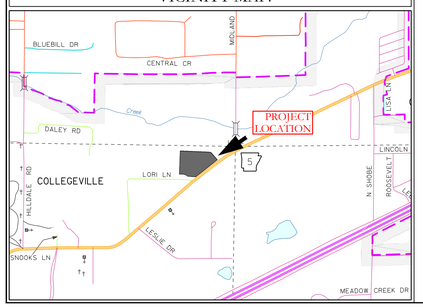


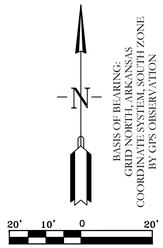
ASPHALT PAVEMENT SECTION



CONCRETE PAVEMENT SECTION

VICINITY MAP:





BASIS OF BEARING: GRID NORTH AS ASSUMED COORDINATE SYSTEM SOUTH ZONE BY GPS OBSERVATION

OWNER:
Name: TRC ELITE PROPERTIES, LLC
Address: _____
Phone: _____
Email: _____

DEVELOPER:
Name: TRC ELITE PROPERTIES, LLC
Address: _____
Phone: _____
Email: _____

LEGEND

- PLSS Aliquot Corner
- Fnd. Corner Monument
- Set 1/2" Rebar/Cap (1664)
- Computed Point
(M)- As Measured
(P)- Per Deed or Plat Records
ESMT - Easement
B.S.L. - Building Setback Lines
- Clean Out
- Water Meter
- Power Pole
- Sewer Manhole
- Light Pole
- Telephone Pedestal
- Drainage Manhole
- Gas Meter
- Fence
- Overhead Power
- Sewer Line
- Water Line
- Telephone Line
- Electric Line
- Gas Line
- Existing Access Agreement
- Public Right-of-Way Dedication

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FOR USE AND BENEFIT OF:
TRC ELITE PROPERTIES, LLC

ELITE MEDICAL SUPPLIES
SITE PLAN
HWY 5, BRYANT, SALINE COUNTY, ARKANSAS

DATE:	10/21/2026	C.A.D. BY:	DRAWING NUMBER:
REVISED:	--	CHECKED BY:	26-0791
SHEET:	C-1.0	SCALE: 1" = 20"	

500	01S	14W	0	22	330	62	1664

E:\HOPE CONSULTING\0.OFFICE\ PROJECTS\ASSIGNED PROJECTS\26-0791\DWG\26-0791 SITE PLAN-10-21-26.DWG

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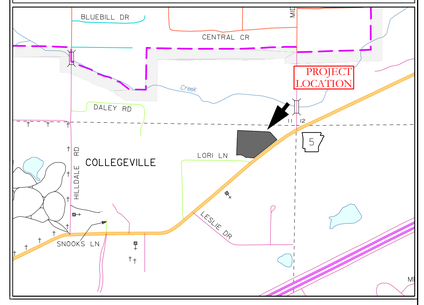
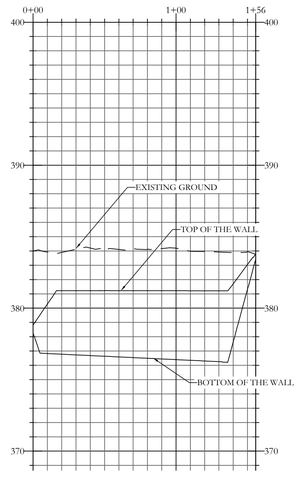
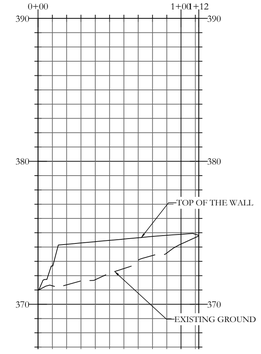




RETAINING WALL-1 PROFILE

VERTICAL SCALE 1" = 5'
HORIZONTAL SCALE 1" = 50'



RETAINING WALL-2 PROFILE

VERTICAL SCALE 1" = 5'
HORIZONTAL SCALE 1" = 50'

GRADING PLAN NOTES

1. DESIGN CONTOURS SHOWN ARE FINISHED GRADE.
2. SPOT ELEVATIONS SHOWN ARE FINISHED ASPHALT, GROUND OR CONCRETE ELEVATIONS.
3. CLEAR AND GRUB AREAS OF THE SITE WHERE CUT OR FILL IS TO OCCUR.
4. FILL SHALL BE COMPACTED AT LEAST 98% OF THE MATERIALS MAXIMUM STANDARD PROCTOR DRY DENSITY.
5. THE MOISTURE CONTENT OF 1% BELOW TO 3% ABOVE THE OPTIMUM MOISTURE CONTENT.
6. SUB-GRADES SHALL BE PROOF-ROLLED WITH A LOADED DUMP TRUCK TO DETECT ZONES OF UNSUITABLE AND/OR EXCESSIVELY WET SOILS. IF PUMPING BEGINS, COMPACTION SHALL BE STOPPED IMMEDIATELY AND RESUMED ONLY WHEN THE MATERIAL IS SUFFICIENTLY DRY THAT PUMPING DOES NOT OCCUR.
7. ALL UNUSABLE SOILS SHALL BE USED ON SITE FOR FILL PURPOSES OUTSIDE THE AREAS OF BUILDING AND PAVEMENT CONSTRUCTION.
8. PROPER DRAINAGE SHALL BE MAINTAINED THROUGHOUT THE PROJECT SITE TO PREVENT THE INCREASE OF THE IN-SITU SOILS MOISTURE CONTENT.

FG = FINISHED GRADE
TOC = TOP OF CURB
BOW= BOTTOM OF WALL
TOW= TOP OF WALL

N

BASIS OF BEARING:
GRID NORTH, ARKANSAS
COORDINATE SYSTEM SOUTH ZONE
BY GPS OBSERVATION

20' 10' 0 20'

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
NO. 20876
KAYE TAMZIDUL ISLAM

CERTIFICATE OF AUTHORIZATION
HOPE CONSULTING, INC.
No. 1931
ARKANSAS

HOPE CONSULTING
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FOR USE AND BENEFIT OF:
TRC ELITE PROPERTIES,LLC

ELITE MEDICAL SUPPLIES
GRADING PLAN
HWY5, BRYANT, SALINE COUNTY, ARKANSAS

DATE:	10/22/2026	C.A.D. BY:	DRAWING NUMBER:
REVISED:	##	CHECKED BY:	26-0791
SHEET:	C-2.0	SCALE: 1" = 20"	

500	01S	14W	0	22	330	62	1664

I:\HOPE CONSULTING\2026\26-0791\DWG\26-0791 GRADING.dwg, 10/22/2026 2:26:36 PM, Tamzidul Islam, DWG To PDF.pc3

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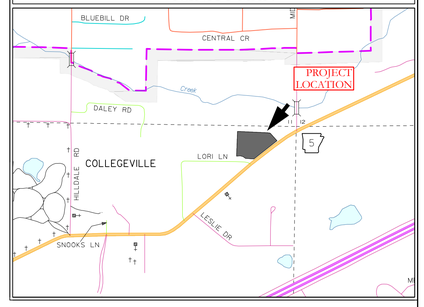
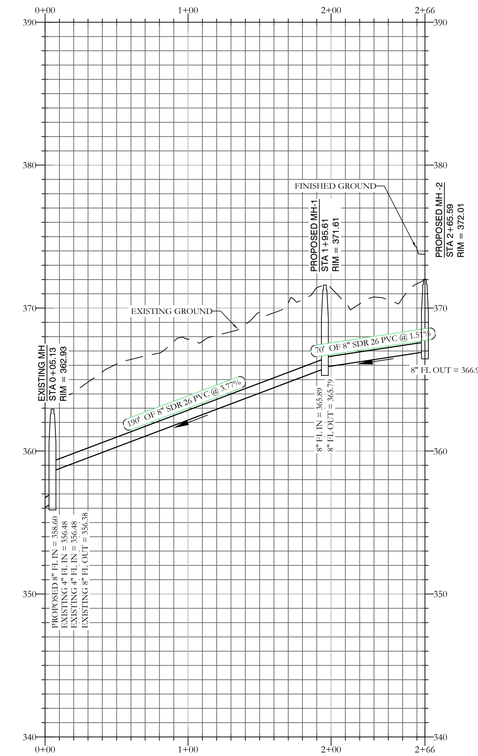
VICINITY MAP:







OFFSITE SEWER PROFILE

VERTICAL SCALE 1" = 5'
HORIZONTAL SCALE 1" = 50'

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
NO. 20870
KAZI TAMZIDUL ISLAM

CERTIFICATE OF AUTHORIZATION
HOPE CONSULTING, INC.
No. 1931
ARKANSAS

N

BASIS OF BEARING:
GRID NORTH ARKANSAS
STATE PLANE SOUTH ZONE
COORDINATE SYSTEM
BY GPS OBSERVATION

30' 15' 0 30'

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ENGINEERS - SURVEYORS
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Benton, Arkansas 72015
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FAX (501) 315-0024
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FOR USE AND BENEFIT OF:
TRC ELITE PROPERTIES,LLC

ELITE MEDICAL SUPPLIES
UTILITY PLAN & PROFILES
HWY5, BRYANT, SALINE COUNTY, ARKANSAS

DATE:	10/22/2026	C.A.D. BY:	DRAWING NUMBER:
REVISED:	##	CHECKED BY:	26-0791
SHEET:	C-3.0	SCALE:	1" = 30"

500	01S	14W	0	22	330	62	1664

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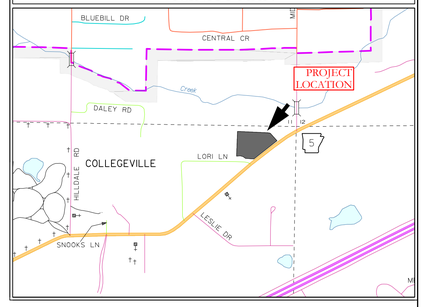
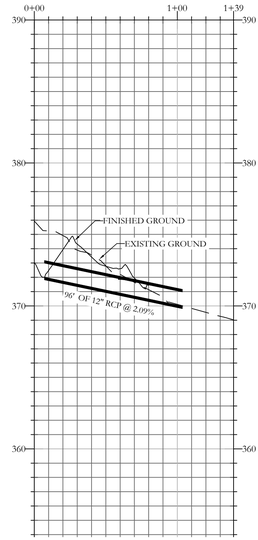
BASIS OF BEARING:
GRID NORTH, ARKANSAS
COORDINATE SYSTEM, SOUTH ZONE
BY GPS OBSERVATION

20' 10' 0 20'

VICINITY MAP:





CULVERT-1 PROFILE

VERTICAL SCALE 1" = 5'
HORIZONTAL SCALE 1" = 50'

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
NO. 20876
KAZI TAMZIDUL ISLAM

CERTIFICATE OF AUTHORIZATION
HOPE CONSULTING, INC.
No. 1931
ARKANSAS

HOPE CONSULTING
ENGINEERS - SURVEYORS
129 N. Main Street,
Benton, Arkansas 72015
PH. (501)315-2626
FAX (501) 315-0024
www.hopeconsulting.com

FOR USE AND BENEFIT OF:
TRC ELITE PROPERTIES,LLC

ELITE MEDICAL SUPPLIES
STORM PLAN & PROFILES
HWY5, BRYANT, SALINE COUNTY, ARKANSAS

DATE:	10/22/2026	C.A.D. BY:	DRAWING NUMBER:
REVISED:	##	CHECKED BY:	26-0791
SHEET:	C-4.0	SCALE: 1" = 20"	

500	01S	14W	0	22	330	62	1664

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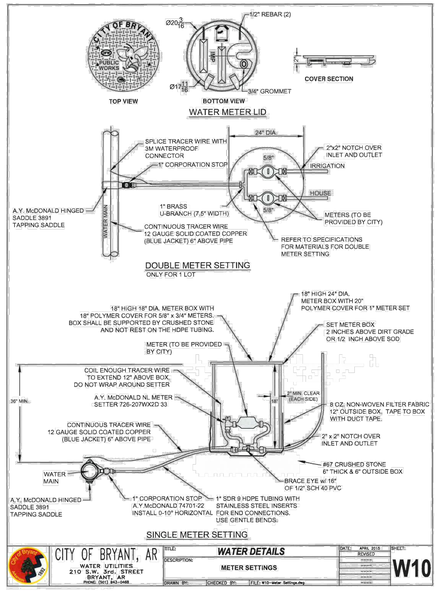

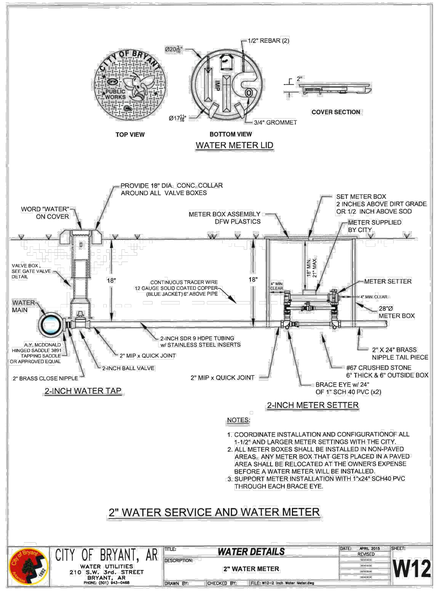

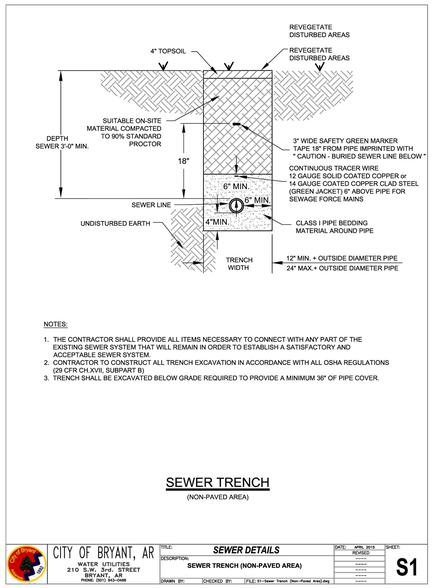

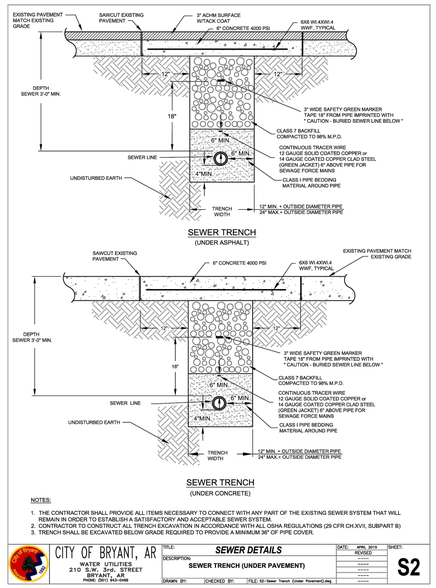

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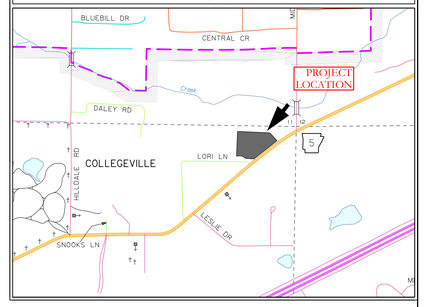
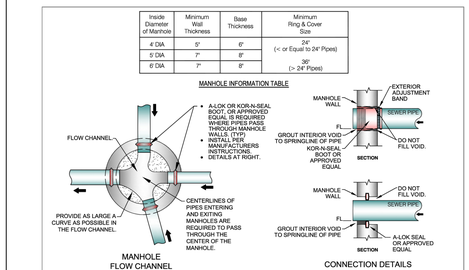
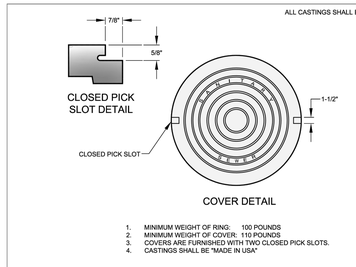
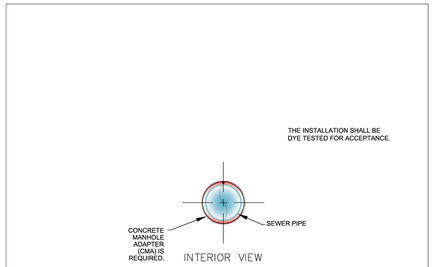
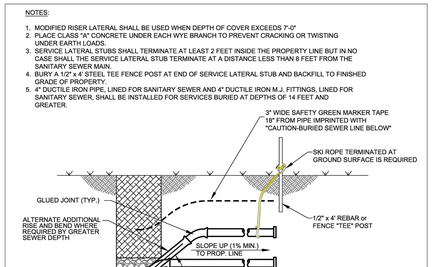




Inside Diameter of Manhole	Minimum Wall Thickness	Base Thickness	Minimum Ring & Cover Size
4' DIA	5"	6"	24" (< or Equal to 24" Pipes)
5' DIA	7"	8"	36" (> 24" Pipes)
6' DIA	7"	8"	







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UTILITY DETAILS
HWY5, BRYANT, SALINE COUNTY, ARKANSAS

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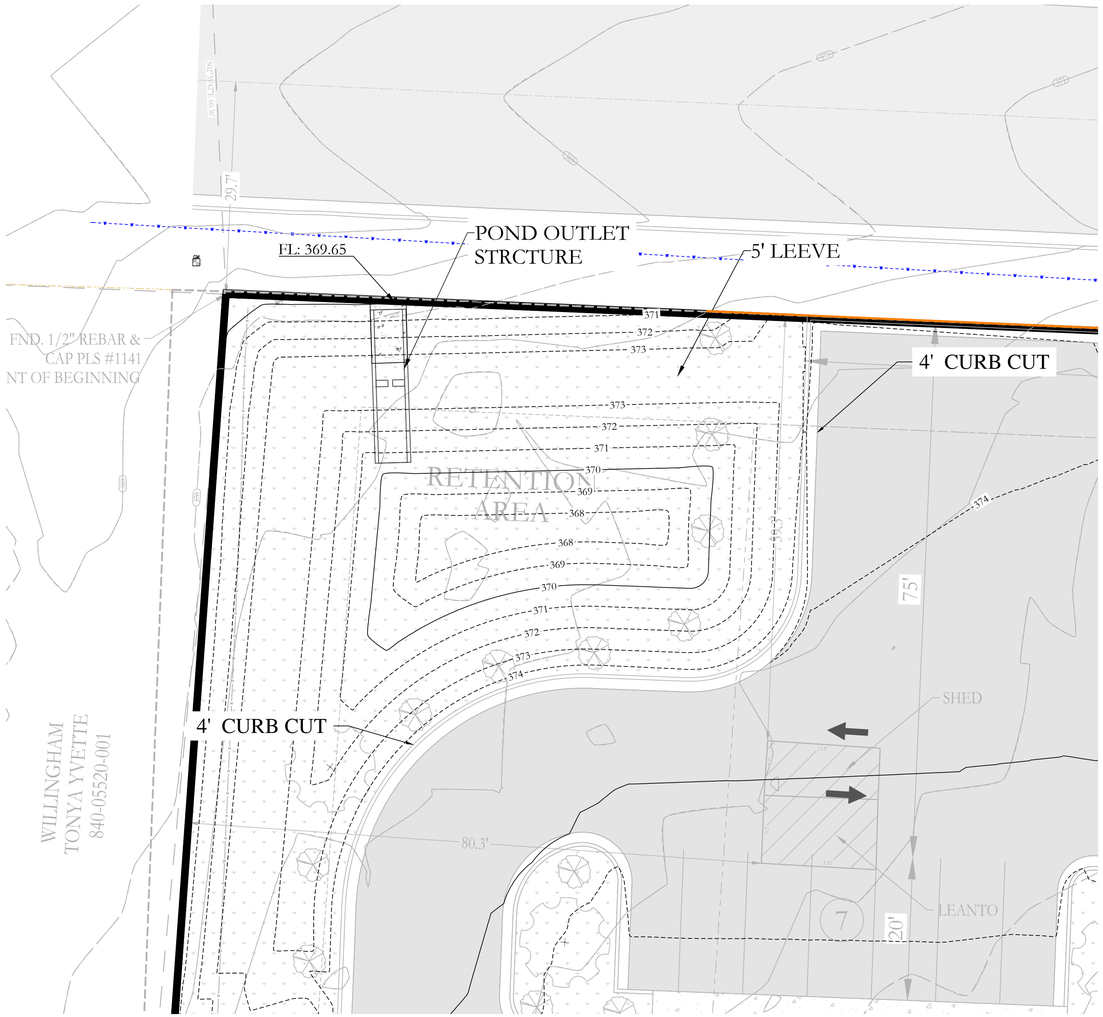

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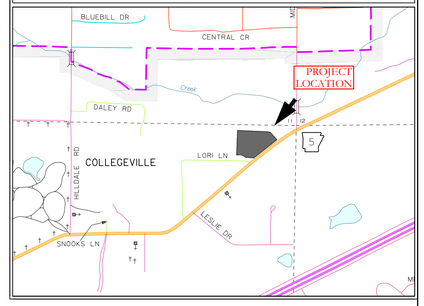
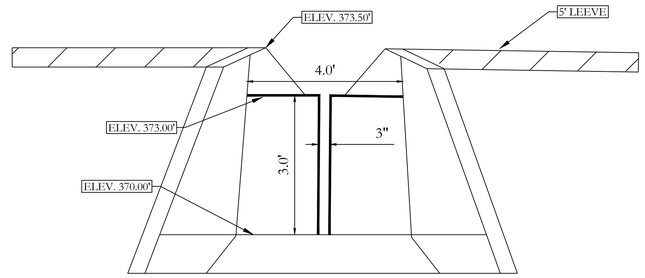
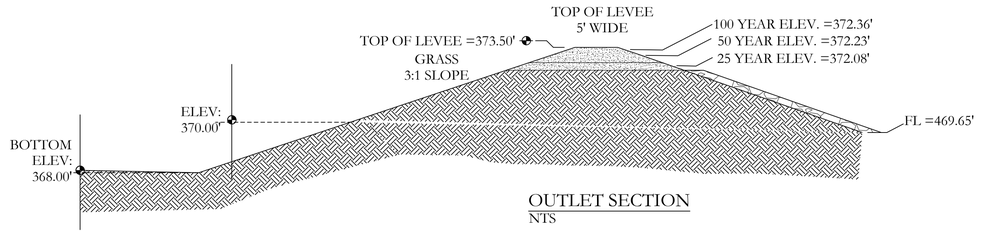




POND OUTLET STRUCTURE
SECTION VIEW



OUTLET SECTION
NTS

DETENTION POND MAINTENANCE PLAN

Background
The detention pond is located at the **North** of the subjected property. It is designed to temporarily detain stormwater to meet water quantity criteria before discharging off the property.

Routine Maintenance
Routine maintenance will include but not be limited to:
-Mowing of the bank slopes and area around the pond on a monthly basis during the growing season and as needed during the cooler months.

-The outlet pipe from the pond and other areas will be inspected monthly for debris which could inhibit the proper flow of discharge. Any debris will be removed immediately and disposed of or placed in a location to prevent future maintenance and to not cause impact up or downstream of the structure.

-Trash will be removed from around the pond to prevent entering the pond. Generally, the site should be kept free of loose trash which could be carried off site by wind or rain.

-Inspect the pond and outlet pipe for non-routine maintenance need.

Periodic or Non-Routine Maintenance
The routine inspection of the pond area and discharge pipe will identify needed repairs and non-routine maintenance. These items may include but not be limited to:

-Re-growth of trees on or around the pond bank. These should be cut and removed from the pond area.

-Sediment from the site may accumulate in the pond bottom and reduce the pond to below design volume requirements. The pond should be excavated if the pond bottom elevation reached a level that allows excessive aquatic growth or reduces the pond efficiency such, that the sediments are passing the discharge structure and release off site.

-Stabilization or re-grading of side slopes may be required periodically or after excessive rain events. Any disturbance of slopes should be reseeded or may require installation of erosion control materials until seeding can reestablish adequate grasses to prevent future erosion.

-Any other maintenance or repairs which would minimize other maintenance to the pond or outfall structures.

For questions or concerns about Tract "A", contact at 501-.

CERTIFICATE OF AUTHORIZATION
HOPE CONSULTING, INC.
No. 1931
ARKANSAS

N

BASIS OF BEARING
GRID NORTH, ARKANSAS
COORDINATE SYSTEM, SOUTH ZONE
BY GPS OBSERVATION

10' 5' 0 10'

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ENGINEERS - SURVEYORS
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FOR USE AND BENEFIT OF:
TRC ELITE PROPERTIES,LLC

ELITE MEDICAL SUPPLIES
DETANTION PLAN
HWY5, BRYANT, SALINE COUNTY, ARKANSAS

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ERC LEGEND

SITE POSTING

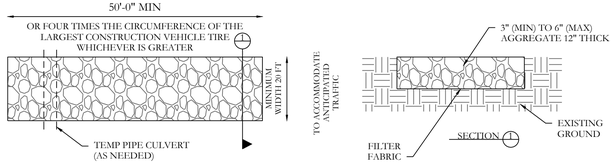
CONC. WASHOUT

SILT FENCE

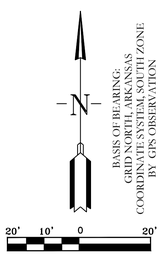
RIP RAP CHECK DAM

CONSTRUCTION ENTRANCE

FLOW ARROW



STABILIZED CONSTRUCTION ENTRANCE
N.T.S



SWPPP SPECIFIC NOTES

1. ALL DEVELOPMENT SHALL COMPLY WITH ADEQ ARR150000 STORMWATER PERMIT REQUIREMENTS.

2. INSTALL SILT FENCE AS SHOWN ON THE PLANS; ADD ADDITIONAL FENCING WHERE HEAVY RUNOFF MAY OCCUR. CONTRACTOR SHALL INSPECT AND INSTALL SUPPLEMENTAL MEASURES AS NEEDED TO CONTAIN RUNOFF.

3. CONSTRUCT RIP-RAP CHECK DAMS PER ADEQ REQUIREMENTS. LOCATIONS SHOWN ARE APPROXIMATE; ADD ADDITIONAL CHECK DAMS AS SITE CONDITIONS REQUIRE.

4. MAINTAIN CONSTRUCTION ENTRANCES/EXITS TO PREVENT TRACKING OF MUD ONTO PUBLIC RIGHTS-OF-WAY.

5. IMPLEMENT ADDITIONAL EROSION-CONTROL MEASURES AS NECESSARY BASED ON SITE CONDITIONS.

6. CONTRACTOR SHALL UTILIZE ACCEPTED BEST MANAGEMENT PRACTICES (BMPS) FOR ALL SEDIMENT AND RUNOFF CONTROL MEASURES.

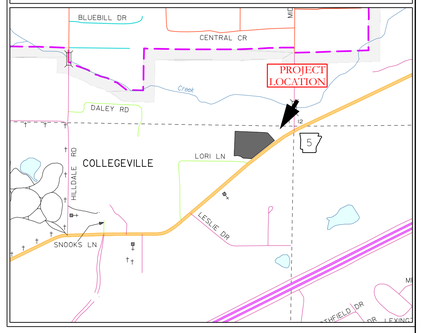
INSPECTION AND MAINTENANCE PLAN

QUALIFIED PERSONNEL MUST INSPECT ALL DISTURBED AREAS AT LEAST ONCE EVERY 7 DAYS, AND ALSO WITHIN 24 HOURS AFTER ANY STORM OF ≥ 0.5 IN.

DESCRIBE PROCEDURES TO KEEP THE FOLLOWING IN GOOD AND EFFECTIVE OPERATING CONDITION:

- VEGETATION
- EROSION & SEDIMENT CONTROL MEASURES
- ANY OTHER PROTECTIVE MEASURES LISTED IN THE SITE PLAN

VICINITY MAP:



EROSION CONTROL CONSTRUCTION PHASES

PRE-CONSTRUCTION:

1. INSTALL SILT FENCES ALONG GRADING LIMITS OF DISTURBANCE,AS SHOWN ON PLAN.
2. ESTABLISH A CONSTRUCTION ENTRANCE TO CONTROL SITE ACCESS AND MINIMIZE DISTURBANCE.
3. MAINTAIN EXISTING DRAINAGE SWALES.

CONSTRUCTION:

1. INSTALL CONCRETE WASHOUT AREAS.
2. CONSTRUCT RIP-RAP CHECK DAMS FOR EROSION CONTROL.
3. MAINTAIN SILT FENCES THROUGHOUT CONSTRUCTION.

POST-CONSTRUCTION:

1. SEED OR SOD AND MULCH DISTURBED AREAS TO STABILIZE SOIL.
2. MAINTAIN SILT FENCES UNTIL VEGETATION IS FULLY ESTABLISHED.
3. REPAIR OR REPLACE DAMAGED BMPS WITHIN 3 BUSINESS DAYS OR BEFORE THE NEXT RAIN EVENT.

SILT FENCE MATERIAL: IT SHALL BE GEOTEXTILE FABRIC (ASTM D4632), MINIMUM 3 FT HEIGHT, HAVING 10 FT MAXIMUM SPACING WITH STEEL WIRE SUPPORT FENCE.

SILT FENCE NOTE:

1.) INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.

2.) REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

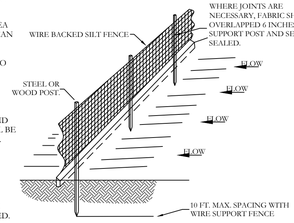
3.) SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.

4.) USE ONLY WIRE BACKED SILT FENCE.

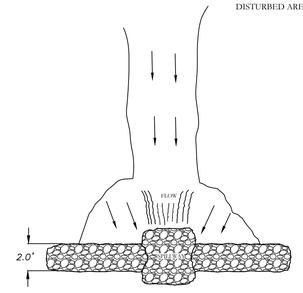
5.) IF THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER SHALL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.

6.) ALL SILT FENCES SHALL BE PLACED AS CLOSE TO THE EXISTING CONTOUR AS POSSIBLE TO PREVENT CONCENTRATED FLOWS.

7.) SILT FENCES SHALL BE REMOVED AFTER THEY HAVE SERVED THEIR PURPOSE, AND ONLY AFTER ALL UPSLOPE DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.



SILT FENCE



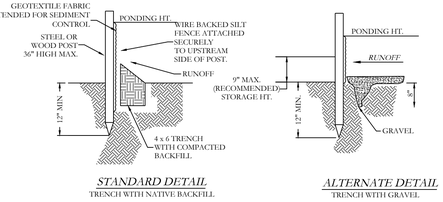
PLAN



VIEW LOOKING UPSTREAM

NOTES:
1.) POINT 'A' MUST BE HIGHER THAN POINT 'B' (SPILLWAY HEIGHT)
2.) PLACE RIP-RAP BARRIER PERPENDICULAR TO THE FLOW WITH TIGHT GROUPING. USE STRAW, ROCKS, OR FILTER FABRIC TO FILL ANY GAPS AND TAMP BACKFILL MATERIAL TO PREVENT EROSION OR FLOW AROUND THE DAM.
3.) SPILLWAY HEIGHT SHALL NOT EXEED 08"-26"
4.) INSPECT AFTER EACH SIGNIFICANT STORM, MAINTAIN AND REPAIR PROMPTLY.

RIP-RAP CHECK DAM



STANDARD DETAIL
TRENCH WITH NATIVE BACKFILL

ALTERNATE DETAIL
TRENCH WITH GRAVEL

SEQUENCE OF CONSTRUCTION PLAN

Step	Activity	ESC/Control Measures	Notes
1	Install temporary ESC	Silt fence, construction entrance, riprap	Must be installed before any land disturbing activity
2	Site Clearing	Maintain temporary ESC, protect sensitive areas	Limit disturbance to only necessary areas
3	Final Grading / Slope Stabilization	Temporary ESC still in place	Install permanent measures where needed
4	Permanent Control Installation	Permanent pond structures, spillway, riprap, ditches	Remove temporary ESC only after permanent controls installed and stabilized
5	Vegetation / Stabilization	Permanent seeding / sod	Stabilize slopes and disturbed areas as soon as possible
6	Monitoring & Maintenance	Weekly inspections, repair damaged ESC measures	Follow SWPPP inspection schedule (every 7 days or after rain ≥0.5")
7	Site Final Stabilization	Confirm 80% vegetative cover or equivalent permanent measures	Required before filing Notice of Termination (NOT)
8	Project Completion / Termination	Remove temporary measures, submit NOT	Only after full stabilization

EROSION CONTROL NOTES

- ALL EXPOSED SOIL AREAS MUST ACHIEVE A UNIFORM 80% VEGETATIVE COVER OR EQUIVALENT PERMANENT STABILIZATION BEFORE THE PROJECT CAN BE CONSIDERED COMPLETE.
- TEMPORARY BMPS (E.G., SILT FENCES, STRAW BALES, SEDIMENT BASINS) MUST BE REMOVED ONLY AFTER UPSTREAM AREAS ARE PERMANENTLY STABILIZED.
- ANY AREAS DISTURBED DURING THE REMOVAL OF TEMPORARY CONTROL MEASURES MUST BE RE-GRADED, SEEDED, AND STABILIZED IMMEDIATELY.
- ALL PERMANENT DRAINAGE CHANNELS, DITCHES, AND CONVEYANCE SYSTEMS MUST BE COMPLETED AND STABILIZED (VEGETATED OR ARMORED) TO PREVENT POST-CONSTRUCTION EROSION.
- INLET PROTECTION SHOULD REMAIN IN PLACE UNTIL SURROUNDING DRAINAGE AREAS ACHIEVE FINAL STABILIZATION AND NO LONGER CONTRIBUTE SEDIMENT.
- INSPECTIONS MUST CONTINUE UNTIL THE NOTICE OF TERMINATION (NOT) IS APPROVED. INSPECT MONTHLY OR AFTER MAJOR STORM EVENTS TO VERIFY STABILIZATION EFFECTIVENESS.
- ANY ACCUMULATED SEDIMENT IN STORMWATER PONDS, SWALES, OR CHANNELS MUST BE REMOVED TO RESTORE DESIGN CAPACITY.
- STREAM BUFFERS, CHANNELS, AND WETLANDS MUST BE RESTORED TO PRE-CONSTRUCTION CONDITION AND PROTECTED FROM FUTURE EROSION.

STATE OF ARKANSAS — LICENSED PROFESSIONAL ENGINEER — NO. 23076 — SAJJAD TAMZIDUL ISLAM

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ELITE MEDICAL SUPPLIES
EROSION CONTROL PLAN PHASE-1 (PRE CON.)
HWY5, BRYANT, SALINE COUNTY, ARKANSAS

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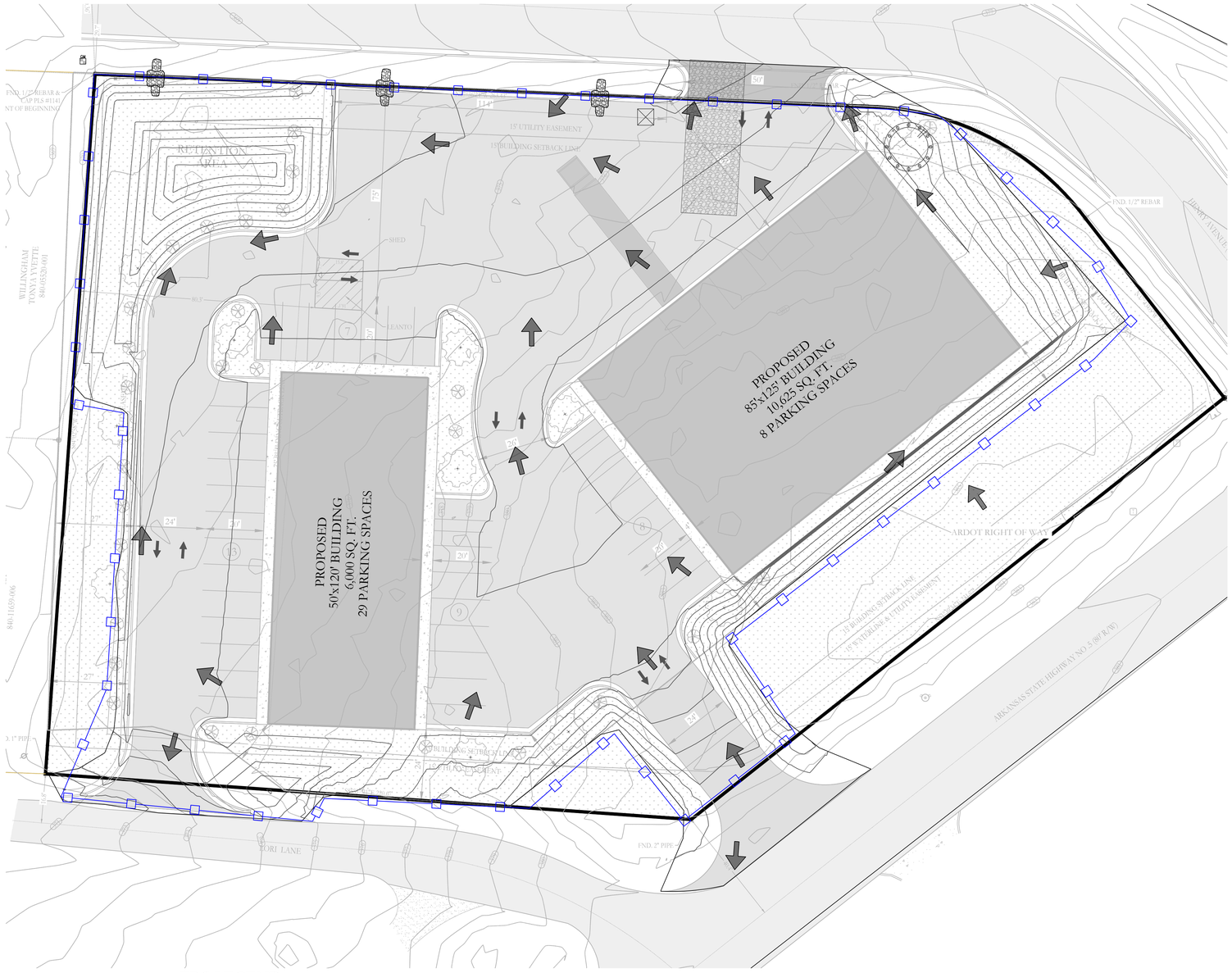

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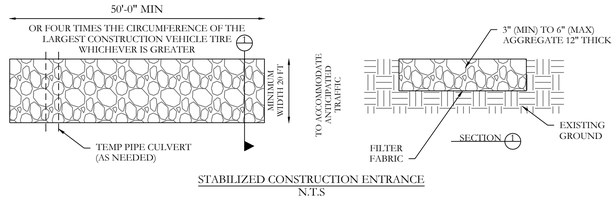

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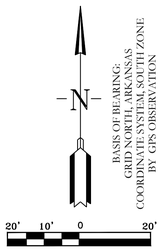

BASIS OF BEARING:
GRID NORTH, ARKANSAS
COORDINATE SYSTEM, SOUTH ZONE
BY GPS OBSERVATION

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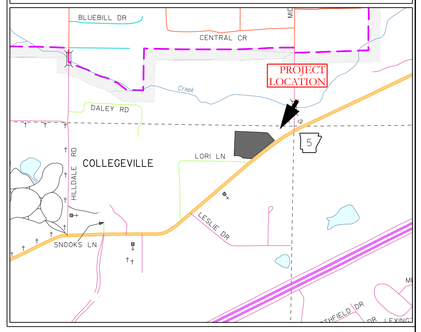

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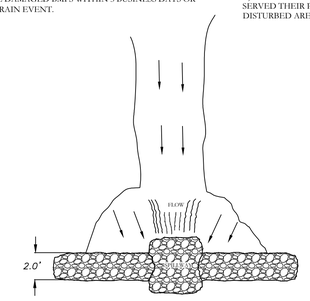
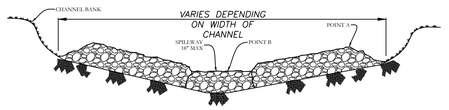


PLAN



VIEW LOOKING UPSTREAM

NOTES:
1.) POINT 'A' MUST BE HIGHER THAN POINT 'B' (SPILLWAY HEIGHT).
2.) PLACE RIP-RAP BARRIER PERPENDICULAR TO THE FLOW WITH TIGHT GROUPING. USE STRAW, ROCKS, OR FILTER FABRIC TO FILL ANY GAPS. AND TAMP BACKFILL MATERIAL TO PREVENT EROSION OR FLOW AROUND THE DAM.
3.) SPILLWAY HEIGHT SHALL NOT EXEED 18" 24".
4.) INSPECT AFTER EACH SIGNIFICANT STORM, MAINTAIN, AND REPAIR PROMPTLY.

RIP-RAP CHECK DAM

SILT FENCE MATERIAL: IT SHALL BE GEOTEXTILE FABRIC (ASTM D4632), MINIMUM 3 FT HEIGHT, HAVING 10 FT MAXIMUM SPACING WITH STEEL WIRE SUPPORT FENCE.

SILT FENCE NOTE:

1.) INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.

2.) REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

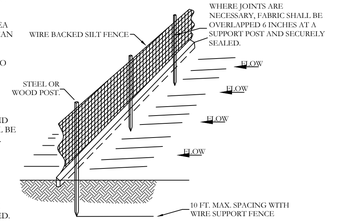
3.) SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.

4.) USE ONLY WIRE BACKED SILT FENCE.

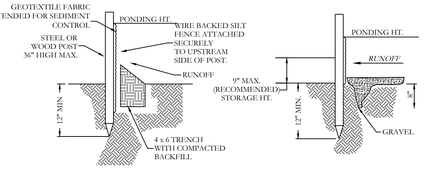
5.) IF THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER SHALL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.

6.) ALL SILT FENCES SHALL BE PLACED AS CLOSE TO THE EXISTING CONTOUR AS POSSIBLE TO PREVENT CONCENTRATED FLOWS.

7.) SILT FENCES SHALL BE REMOVED AFTER THEY HAVE SERVED THEIR PURPOSE, AND ONLY AFTER ALL UPSLOPE DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.



SILT FENCE



STANDARD DETAIL
TRENCH WITH NATIVE BACKFILL

ALTERNATE DETAIL
TRENCH WITH GRAVEL

EROSION CONTROL NOTES

- ALL EXPOSED SOIL AREAS MUST ACHIEVE A UNIFORM 80% VEGETATIVE COVER OR EQUIVALENT PERMANENT STABILIZATION BEFORE THE PROJECT CAN BE CONSIDERED COMPLETE.
- TEMPORARY BMPS (E.G., SILT FENCES, STRAW BALES, SEDIMENT BASINS) MUST BE REMOVED ONLY AFTER UPSTREAM AREAS ARE PERMANENTLY STABILIZED.
- ANY AREAS DISTURBED DURING THE REMOVAL OF TEMPORARY CONTROL MEASURES MUST BE RE-GRADED, SEEDED, AND STABILIZED IMMEDIATELY.
- ALL PERMANENT DRAINAGE CHANNELS, DITCHES, AND CONVEYANCE SYSTEMS MUST BE COMPLETED AND STABILIZED (VEGETATED OR ARMORED) TO PREVENT POST-CONSTRUCTION EROSION.
- INLET PROTECTION SHOULD REMAIN IN PLACE UNTIL SURROUNDING DRAINAGE AREAS ACHIEVE FINAL STABILIZATION AND NO LONGER CONTRIBUTE SEDIMENT.
- INSPECTIONS MUST CONTINUE UNTIL THE NOTICE OF TERMINATION (NOT) IS APPROVED. INSPECT MONTHLY OR AFTER MAJOR STORM EVENTS TO VERIFY STABILIZATION EFFECTIVENESS.
- ANY ACCUMULATED SEDIMENT IN STORMWATER PONDS, SWALES, OR CHANNELS MUST BE REMOVED TO RESTORE DESIGN CAPACITY.
- STREAM BUFFERS, CHANNELS, AND WETLANDS MUST BE RESTORED TO PRE-CONSTRUCTION CONDITION AND PROTECTED FROM FUTURE EROSION.

SEQUENCE OF CONSTRUCTION PLAN

Step	Activity	ESC/Control Measures	Notes
1	Install temporary ESC	Silt fence, construction entrance, riprap	Must be installed before any land disturbing activity
2	Site Clearing	Maintain temporary ESC, protect sensitive areas	Limit disturbance to only necessary areas
3	Final Grading / Slope Stabilization	Temporary ESC still in place	Install permanent measures where needed
4	Permanent Control Installation	Permanent pond structures/ spillway/ riprap/ ditches	Remove temporary ESC only after permanent controls installed and stabilized
5	Vegetation / Stabilization	Permanent seeding / sod	Stabilize slopes and disturbed areas as soon as possible
6	Monitoring & Maintenance	Weekly inspections, repair damaged ESC measures	Follow SWPPP inspection schedule (every 7 days or after rain ≥0.5")
7	Site Final Stabilization	Confirm 80% vegetative cover or equivalent permanent measures	Required before filing Notice of Termination (NOT)
8	Project Completion / Termination	Remove temporary measures, submit NOT	Only after full stablization

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
NO. 20876
SAZZAD TAMZIDUL ISLAM

HOPE CONSULTING, INC.
No. 1931
CERTIFICATE OF AUTHORIZATION
ARKANSAS

HOPE CONSULTING
ENGINEERS - SURVEYORS
129 N. Main Street,
Benton, Arkansas 72015
PH. (501)315-2626
FAX (501) 315-0024
www.hopeconsulting.com

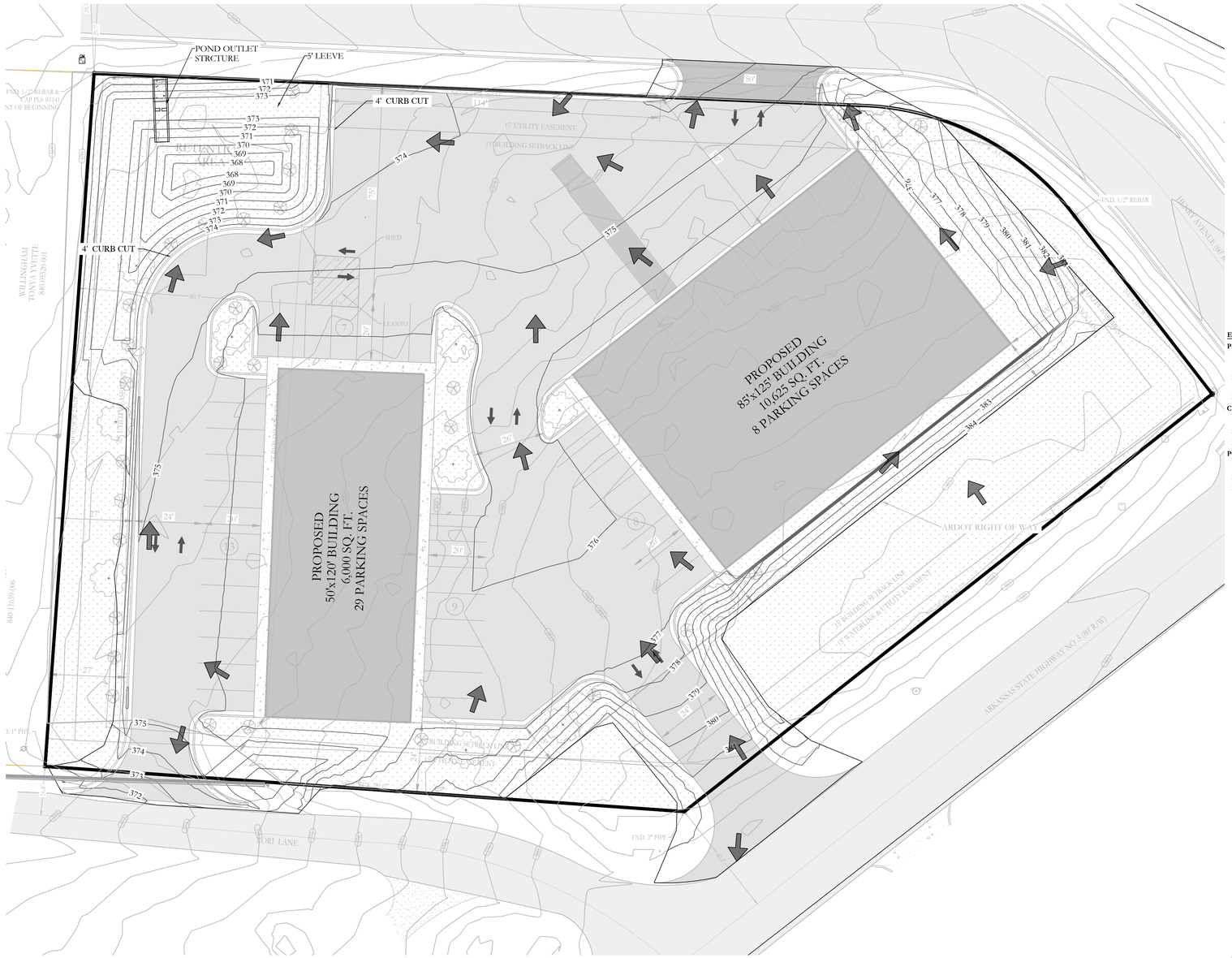
FOR USE AND BENEFIT OF:
TRC ELITE PROPERTIES,LLC

ELITE MEDICAL SUPPLIES
EROSION CONTROL PLAN PHASE-2 (CON.)

HWY5, BRYANT, SALINE COUNTY, ARKANSAS

DATE:	10/22/2026	C.A.D. BY:	DRAWING NUMBER:
REVISED:	##	CHECKED BY:	26-0791
SHEET:	C-7.1	SCALE: 1"=20'	

500	01S	14W	0	22	330	62	1664



SWPPP SPECIFIC NOTES

1. ALL DEVELOPMENT SHALL COMPLY WITH ADEQ ARR150000 STORMWATER PERMIT REQUIREMENTS.

2. INSTALL SILT FENCE AS SHOWN ON THE PLANS; ADD ADDITIONAL FENCING WHERE HEAVY RUNOFF MAY OCCUR. CONTRACTOR SHALL INSPECT AND INSTALL SUPPLEMENTAL MEASURES AS NEEDED TO CONTAIN RUNOFF.

3. CONSTRUCT RIP-RAP CHECK DAMS PER ADEQ REQUIREMENTS. LOCATIONS SHOWN ARE APPROXIMATE; ADD ADDITIONAL CHECK DAMS AS SITE CONDITIONS REQUIRE.

4. MAINTAIN CONSTRUCTION ENTRANCES/EXITS TO PREVENT TRACKING OF MUD ONTO PUBLIC RIGHTS-OF-WAY.

5. IMPLEMENT ADDITIONAL EROSION-CONTROL MEASURES AS NECESSARY BASED ON SITE CONDITIONS.

6. CONTRACTOR SHALL UTILIZE ACCEPTED BEST MANAGEMENT PRACTICES (BMPS) FOR ALL SEDIMENT AND RUNOFF CONTROL MEASURES.

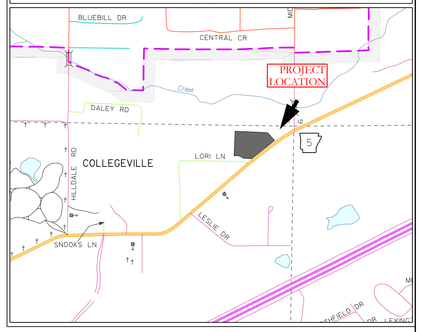
INSPECTION AND MAINTENANCE PLAN

QUALIFIED PERSONNEL MUST INSPECT ALL DISTURBED AREAS AT LEAST ONCE EVERY 7 DAYS, AND ALSO WITHIN 24 HOURS AFTER ANY STORM OF ≥ 0.5 IN.

DESCRIBE PROCEDURES TO KEEP THE FOLLOWING IN GOOD AND EFFECTIVE OPERATING CONDITION:

- VEGETATION
- EROSION & SEDIMENT CONTROL MEASURES
- ANY OTHER PROTECTIVE MEASURES LISTED IN THE SITE PLAN

VICINITY MAP:



EROSION CONTROL CONSTRUCTION PHASES

PRE-CONSTRUCTION:

1. INSTALL SILT FENCES ALONG GRADING LIMITS OF DISTURBANCE,AS SHOWN ON PLAN.
2. ESTABLISH A CONSTRUCTION ENTRANCE TO CONTROL SITE ACCESS AND MINIMIZE DISTURBANCE.
3. MAINTAIN EXISTING DRAINAGE SWALES.

CONSTRUCTION:

1. INSTALL CONCRETE WASHOUT AREAS.
2. CONSTRUCT RIP-RAP CHECK DAMS FOR EROSION CONTROL.
3. MAINTAIN SILT FENCES THROUGHOUT CONSTRUCTION.

POST-CONSTRUCTION:

1. SEED OR SOD AND MULCH DISTURBED AREAS TO STABILIZE SOIL.
2. MAINTAIN SILT FENCES UNTIL VEGETATION IS FULLY ESTABLISHED.
3. REPAIR OR REPLACE DAMAGED BMPS WITHIN 3 BUSINESS DAYS OR BEFORE THE NEXT RAIN EVENT.

SILT FENCE MATERIAL: IT SHALL BE GEOTEXTILE FABRIC (ASTM D4632), MINIMUM 3 FT HEIGHT, HAVING 10 FT MAXIMUM SPACING WITH STEEL WIRE SUPPORT FENCE.

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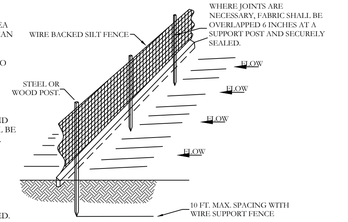
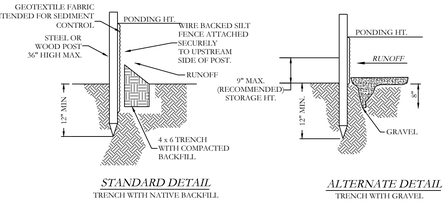


SILT FENCE



STANDARD DETAIL
TRENCH WITH NATIVE BACKFILL

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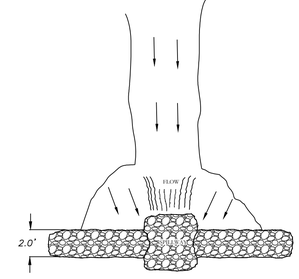

PLAN



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ERC LEGEND

SITE POSTING

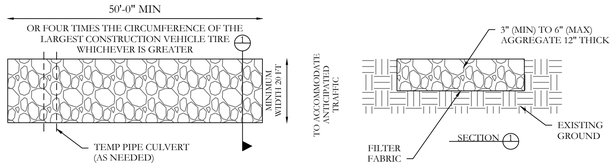
CONC. WASHOUT

SILT FENCE

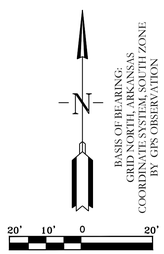
RIP RAP CHECK DAM

CONSTRUCTION ENTRANCE

FLOW ARROW



STABILIZED CONSTRUCTION ENTRANCE
N.T.S



BASIS OF BEARING:
GRID NORTH, ARKANSAS
COORDINATE SYSTEM, SOUTH ZONE
BY GPS OBSERVATION

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
NO. 20876
SAZZAD TAMZIDUL ISLAM

CERTIFICATE OF AUTHORIZATION
HOPE CONSULTING, INC.
No. 1931
ARKANSAS

HOPE CONSULTING
ENGINEERS - SURVEYORS
129 N. Main Street,
Benton, Arkansas 72015
PH. (501)315-2626
FAX (501) 315-0024
www.hopeconsulting.com

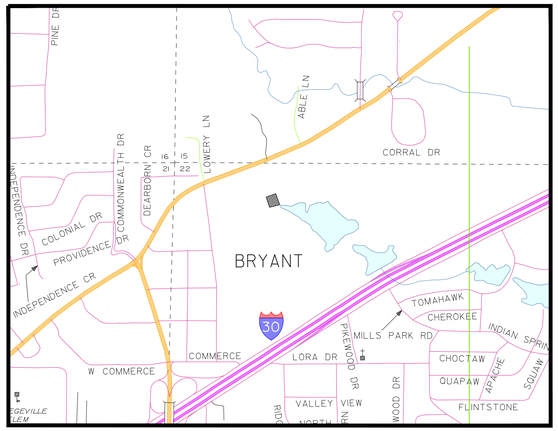
FOR USE AND BENEFIT OF:
TRC ELITE PROPERTIES,LLC

ELITE MEDICAL SUPPLIES
EROSION CONTROL PLAN PHASE-3 (POST CON.)
HWY5, BRYANT, SALINE COUNTY, ARKANSAS

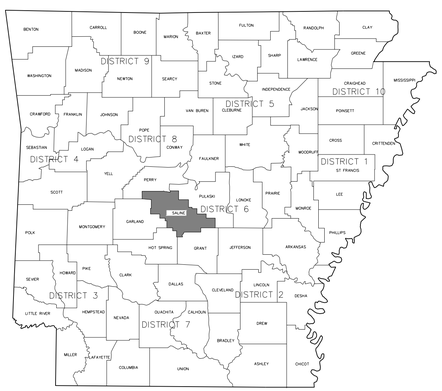
DATE:	10/22/2026	C.A.D. BY:	DRAWING NUMBER:
REVISED:	##	CHECKED BY:	26-0791
SHEET:	C-7.2	SCALE: 1"=20'	

500	01S	14W	0	22	330	62	1664

CONSTRUCTION PLANS
CONSOLIDATED RESTAURANT OPERATIONS
MARKET PLACE, BRYANT, AR



VICINITY MAP



PREPARED BY:

HOPE CONSULTING
ENGINEERS - SURVEYORS

129 N. Main Street,
Benton, Arkansas 72015
PH. (501)315-2626
FAX (501) 315-0024
www.hopeconsulting.com

DRAWING INDEX

SHEET NO.	TITLE
C-1.0	SURVEY PLAN
C-2.0	SITE PLAN
C-3.0	UTILITY PLAN
C-4.1-4.2	BRYANT WATER SPECIFICATIONS
C-4.3	BRYANT SEWER SPECIFICATIONS
C-5.0	DRAINAGE PLAN
C-5.1	DRAINAGE PLAN & PROFILES
C-6.0	GRADING PLAN
C-7.0-7.2	EROSION CONTROL PLAN
C-8.0	LANDSCAPE PLAN

OWNER:

Name: CONSOLIDATED RESTAURANT OPERATIONS
Address: 12200 N Stemmons Fwy #100
Dallas, TX 75234
Email/ Phone: mflippo@croinc.com
318-469-4243

DEVELOPER:

Name: CONSOLIDATED RESTAURANT OPERATIONS
Address: 12200 N Stemmons Fwy #100
Dallas, TX 75234
Email/Phone: mflippo@croinc.com
318-469-4243

CIVIL ENGINEER
HOPE CONSULTING INC
129 N. MAIN STREET
BENTON, AR 72015

HOPE CONSULTING
ENGINEERS - SURVEYORS
129 N. Main Street,
Benton, Arkansas
72015
PH. (501)315-2626
FAX (501) 315-0024
www.hopeconsulting.com

FOR USE AND BENEFIT OF:
CONSOLIDATED RESTAURANT OPERATIONS

LOCAL RESTAURANT
INDEX OF SHEETS
A SUBDIVISION IN SALINE COUNTY, ARKANSAS

DATE: 10/27/2026		C.A.D. BY:	DRAWING NUMBER:
REVISED:	##	CHECKED BY:	26-0351
SHEET:		SCALE:	

500 | 02S | 15W | 0 | 33 | 400 | 62 | 1573

H:\STARR\HOPECONSULTING\LAND PROJECTS 2000\CONSOLIDATED\2026\26-0351\CIVIL\DWG\VOID\26-0351 DESIGN 9-29-2026_REGOVER.DWG

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

FRED BRINER
PROPERTIES, LLC
2019-004456
0.64 ACRES

BASIS OF BEARINGS:
GRID BEARINGS ARE BASED ON ARKANSAS STATE PLANE COORDINATE SYSTEM, NORTH ZONE (1301), FIPS ZONE 0301.

SCALE: 1" = 20'

PROGRESS WAY (PRIVATE)

MARKETPLACE AVE. (60' R/W)

12" WATER LINE

30' PRIVATE INGRESS / EGRESS STORM & UTILITY EASEMENT

50' SETBACK

15' SETBACK

10' EASEMENT

RIM 431.63 SSMH
SSMH RIM 431.20
DOESN'T CONNECT TO SSMH 2005

SDMH RIM 426.93
FULL OF WATER

RIM 427.65 SDMH

RIM 427.77 SSMH

RIM 426.44 SDMH

RIM 426.90 SDMH

RIM 428.25 SSMH

FND. PK NAIL

N70° 00' 00"E 290.57

S12° 00' 29"E 230.69

230.75

0+00

1+00

SDMH RIM 426.12
INV. IN W (36" HDPE) 421.65
INV. OUT SE (36" HDPE) 421.65

RIM 426.75 SDMH

R=594.65' L=143.74'
CH=S8° 59' 56"W 143.31'

SSMH RIM 428.16
INV. IN W (8" PVC) 419.95
INV. IN N (10" PVC) 419.93
INV. IN S FROM SALINE MEMORIAL MEDICAL CENTER (10" PVC) 419.93
INV. OUT W (10" PVC) 419.80

840-05786-602
BRYANT REALTY COMPANY, LLC
LOT 2
1.35 AC
58902.9 SF

LOT 2
1.35 ACRES
58912 Sq. Ft.

SDMH RIM 435.41
INV. OUT S (18" RCP) 421.64

SDMH RIM 434.53
INV. IN SW (18" RCP) 420.79
INV. OUT S (18" RCP) 420.29

33' L.F. OF 18" RCP @ 1.00%

C4

2+00

3+00

59.83'

CI-2-1
STA:0+00.00
RIM:425.74
INV IN:421.17 18" Reinforced Concrete Pipe

S50°33'43"E 306.19'
S0° 39' 02"E 306.19'

15' EASEMENT

SSMH-B1
STA:2+51.09
RIM:424.31
INV OUT:417.80 8" PVC

SSMH RIM 424.35
INV. IN NW (10" PVC) 417.31
INV. OUT E (10" PVC) 417.27

FND. 1/2" REBAR WITH PLAS. CAP #1573

S19° 51' 00"E
30.74'

2+51

S50°33'43"E 18.84'

INV. 18" RCP FES 421.74

INV. 36" HDPE 419.56

FND. 1/2" REBAR WITH PLAS. CAP #1141

S73°31'05"W 237.85'
237.67'

840-05786-603
BRYANT REALTY COMPANY, LLC
LOT 1

840-12216-010
HCH-3412 MARKET PLACE AVENUE, LLC

FND. PK NAIL

RECORD PROPERTY DESCRIPTION
SALINE COUNTY INSTRUMENT SPECIAL WARRANTY DEED 2000-27387

LOT 2, MARKETPLACE EAST, PHASE 1, CITY OF BRYANT, SALINE COUNTY, ARKANSAS.

REFERENCE DOCUMENTS CITED
RECORDED SURVEY PLATS BY:
FINAL PLAT MARKETPLACE EAST PHASE 1 BY GARNAT ENGINEERING, LLC (PS #1573), FOR BRYANT REALTY COMPANY, LLC, DATED 07/16/2025

SURVEY DETAILS AND NOTES
OWNER OF RECORD: BRYANT REALTY COMPANY, LLC
PHYSICAL ADDRESS: 3424 MARKETPLACE AVENUE, BRYANT, ARKANSAS 72022
COUNTY PARCEL TAX ID: 840-05786-602

ALL DIMENSIONS LISTED ARE AS MEASURED BY THIS SURVEYOR UNLESS OTHERWISE NOTED. FOR RECORD DIMENSIONS SEE DOCUMENTS OF RECORD.

OWNERSHIP INFORMATION, IF SHOWN, IS LISTED AS PUBLISHED BY THE LOCAL COUNTY TAX ASSESSOR AND IS LISTED FOR REFERENCE ONLY. NO STATEMENTS OF OWNERSHIP, RIGHTS, OR INTERESTS ARE MADE.

THIS SURVEY IS BASED ON PUBLIC RECORDS AND/OR TITLE INVESTIGATIONS FURNISHED BY THIRD PARTIES. NO INDEPENDENT SEARCH OR INVESTIGATION HAS BEEN MADE BY THIS FIRM FOR ANY RECORDS, PUBLIC OR PRIVATE. LISTED REFERENCE DOCUMENTS HEREON WERE USED AND CONSIDERED AS A PART OF THIS SURVEY; HOWEVER OTHER RECORDS, IF ANY, COULD FURTHER AFFECT THIS SURVEY. NO STATEMENT OR GUARANTEES OF OWNERSHIP, RIGHTS, OR OTHER INTERESTS ARE MADE BY THIS SURVEY PLAT.

CERTIFICATE OF AUTHORIZATION
HOPE CONSULTING, INC.
No. 931
ARKANSAS

REGISTERED
STATE OF ARKANSAS
No. 1573
SIGNATURE
07/27/2026
DATE
GARNAT P. HOOPER
PROFESSIONAL LAND SURVEYOR

FLOOD ZONE INFORMATION
NO PORTION OF THE PROPERTY DESCRIBED HEREON LIES WITHIN A SPECIAL FLOOD HAZARD AREA, ACCORDING TO THE FEMA FLOOD INSURANCE RATE MAP LISTED BELOW: PANEL # 05125C0240E___, DATED: 06/05/2020___ .

LEGEND

- ⊕ - PLSS Aliquot Corner
- ● - Fnd. Corner Monument
- ⊙ - Set 1/2" Rebar/Cap (1664)
- △ - Computed Point
- (M)- As Measured
- (P) - Per Deed or Plat Records
- ESMT - Easement
- B.S.L. - Building Setback Lines
- CO - Clean Out
- WM - Water Meter
- PP - Power Pole
- SMH - Sewer Manhole
- LP - Light Pole
- TP - Telephone Pedestal
- DMH - Drainage Manhole
- GM - Gas Meter
- x—x—x - Fence
- OHP - Overhead Power
- SS - Sewer Line
- W - Water Line
- UGT - Telephone Line
- UGE - Electric Line
- G - Gas Line

HOPE CONSULTING
ENGINEERS - SURVEYORS
129 North Main Street
Benton, Arkansas 72015
Office: (501) 315-2626 | Fax: (501) 315-0024
www.HopeConsulting.com

BOUNDARY & TOPO SURVEY
3424 MARKETPLACE AVENUE
BRYANT, ARKANSAS 72022

FOR USE AND BENEFIT OF:
LOCAL RESTAURANT

DATE: 07/27/2026	CAD BY: GPW	PROJECT NUMBER:
REVISED:	CHECKED BY:	26-0351
SHEET: 1 OF 1	SCALE: 1" = 20'	
AR STATE LAND SURVEY FILING CODE: 500 - 01S - 14W - 0 - 22 - 400 - 62 - 1573		

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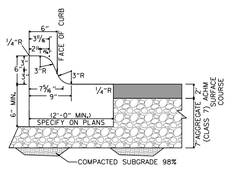
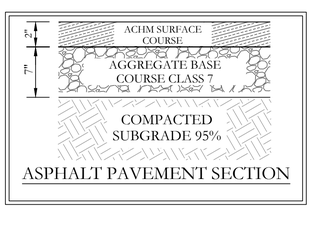
811 Know what's below. Call before you dig.

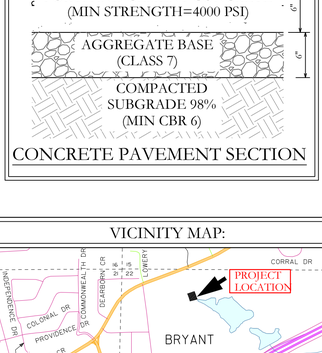




CURB DETAILS (TYPE A)

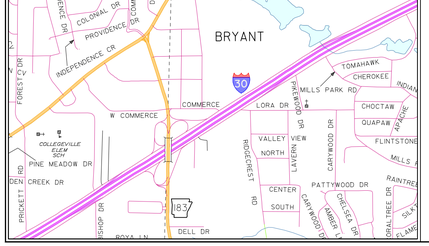


ASPHALT PAVEMENT SECTION



CONCRETE PAVEMENT SECTION

VICINITY MAP:





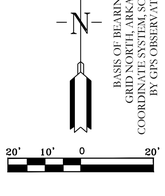
USE DIMENSIONS ABOVE UNLESS OTHERWISE NOTED

PARKING STALL & SIDEWALK DETAIL

NOT TO SCALE

10' FOR END STALLS

SITE DATA	
TOTAL SITE AREA	*1.53 ACRES*
TOTAL DEVELOPMENT AREA	*1.53 ACRES*
GROSS BUILDING AREA	*7,347 SQ. FT.*
BUILDING SETBACKS	*FRONT SETBACK LINE: 50' SIDE SETBACK LINE: AS SHOWN REAR SETBACK LINE: 15' FRONT LANDSCAPE BUFFER: 10'*
BUILDING HEIGHTS	*1 STORY*
BUSINESS TYPE	*RESTURANT*
PARKING CALCULATION (PROVIDED)	*PROVIDED PARKING SPACES 66 FOR BUILDING (4 ADA SPACES)*



OWNER:
Name: CONSOLIDATED RESTAURANT OPERATIONS
Address:
Phone:
Email:

DEVELOPER:
Name: CONSOLIDATED RESTAURANT OPERATIONS
Address:
Phone:
Email:

LEGEND

- ⊕ - PLSS Aliquot Corner
- ● - Fnd. Corner Monument
- ⊙ - Set 1/2" Rebar/Cap (1664)
- △ - Computed Point
- (M)- As Measured
- (P) - Per Deed or Plat Records
- ESMT - Easement
- B.S.L. - Building Setback Lines
- ⓒ - Clean Out
- ⓦ - Water Meter
- ⌀ - Power Pole
- Ⓢ - Sewer Manhole
- ⌀ - Light Pole
- Ⓣ - Telephone Pedestal
- Ⓓ - Drainage Manhole
- ⛽ - Gas Meter
- x——x—— - Fence
- OHP —— - Overhead Power
- SS —— - Sewer Line
- W —— - Water Line
- UGT —— - Telephone Line
- UGE —— - Electric Line
- GAS —— - Gas Line
- Existing Access Agreement
- Public Right-of-Way Dedication

HOPE CONSULTING ENGINEERS - SURVEYORS
129 N. Main Street,
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PH. (501)315-2626
FAX (501) 315-0024
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FOR USE AND BENEFIT OF:
CONSOLIDATED RESTAURANT OPERATIONS

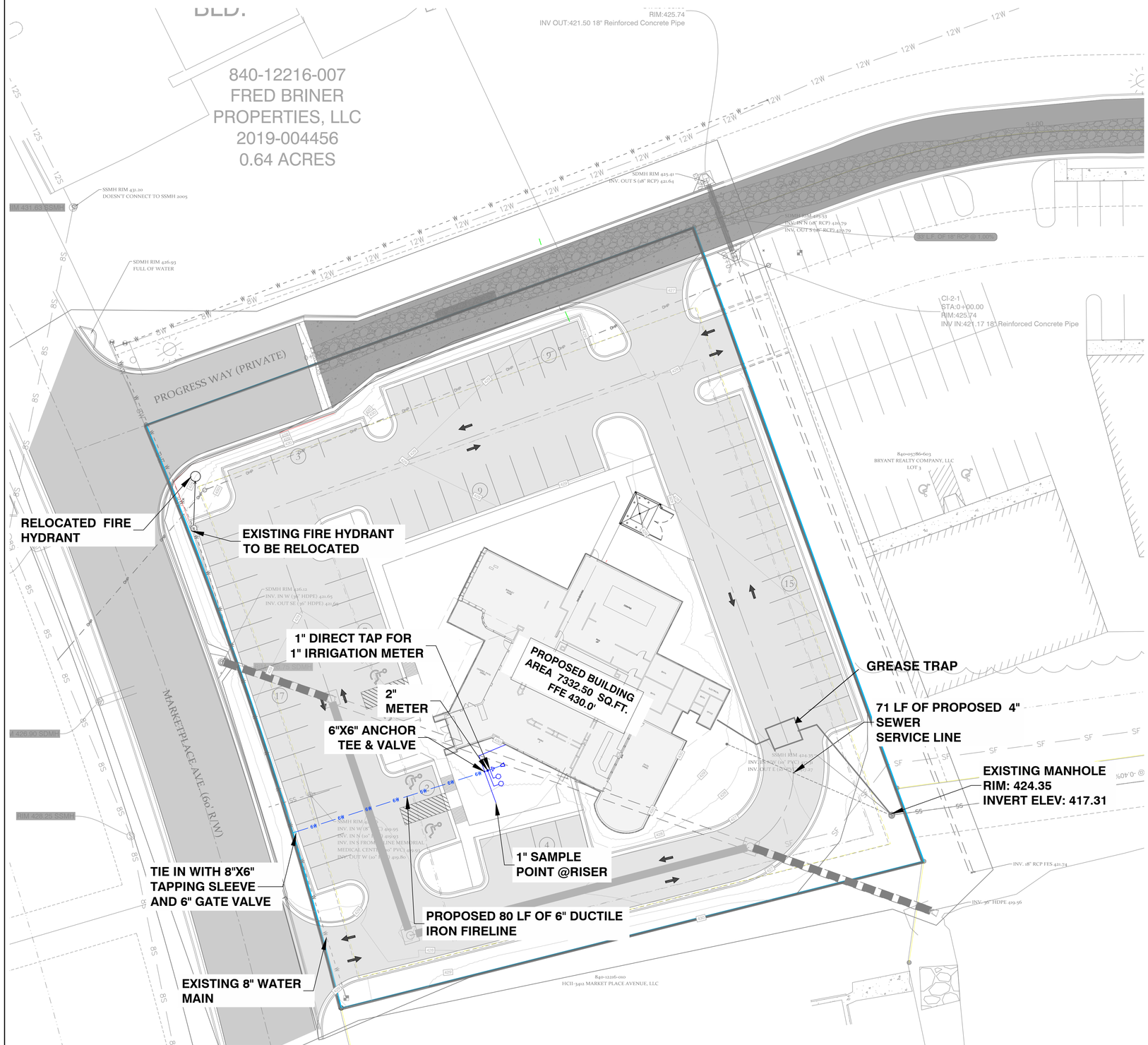
LOCAL RESTAURANT
SITE PLAN
MARKET PLACE, BRYANT, SALINE COUNTY, ARKANSAS

DATE:	10/21/2026	C.A.D. BY:	DRAWING NUMBER:
REVISED:	--	CHECKED BY:	26-0351
SHEET:	C-2.0	SCALE: 1" = 30"	

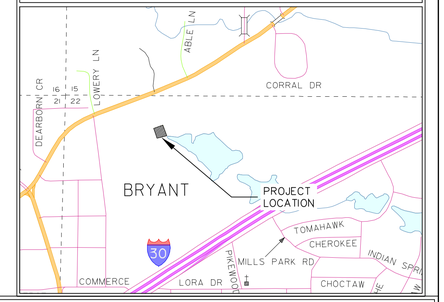
500	01S	14W	0	22	330	62	1664

I:\SURVEY\HOPE\CONSULTING\LAND PROJECTS 2000\COMMERCIAL\2026\26-0351\CIVIL\DWG\VOID\26-0351-SITE PLAN-10-15-2026.DWG

CONSOLIDATED RESTAURANT OPERATIONS
UTILITY PLAN



VICINITY MAP:



SEWER CONSTRUCTION NOTES:

1. ALL SEWER CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH CITY OF BRYANT "STANDARD SPECIFICATIONS FOR DESIGN AND CONSTRUCTION FOR WATER LINES AND SEWER LINES" 2015 EDITION.

WATER CONSTRUCTION NOTES:

1. ALL WATER INSTALLATION SHALL BE DONE IN ACCORDANCE WITH CITY OF BRYANT "STANDARD SPECIFICATIONS FOR DESIGN AND CONSTRUCTION FOR WATER LINES AND SEWER LINES" 2015 EDITION.

ADH NOTES:

ADH RULES PERTAINING TO PUBLIC WATER SYSTEMS, SECTION XIV . DISTRIBUTION SYSTEM, PART A SANITARY AND SAFETY HAZARDS. A MINIMUM HORIZONTAL DISTANCE OF TEN FEET SHOULD BE MAINTAINED BETWEEN WATER LINES AND SEWER LINES OR OTHER SOURCES OF CONTAMINATION. WATER LINES AND SEWERS SHALL NOT BE LAID IN THE SAME TRENCH EXCEPT ON THE WRITTEN APPROVAL OF THE ARKANSAS DEPARTMENT OF HEALTH. WATER MAINS NECESSARILY IN CLOSE PROXIMITY TO SEWERS MUST BE PLACED SO THAT THE BOTTOM OF THE WATER LINE WILL BE AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER LINE AT ITS HIGHEST POINT. IF THIS DISTANCE MUST UNAVOIDABLY BE REDUCED, THE WATER LINE OR THE SEWER LINE MUST BE ENCASED IN WATERTIGHT PIPE WITH SEALED WATERTIGHT ENDS.

EXTENDING AT LEAST TEN FEET EITHER SIDE OF THE CROSSING. ANY JOINT IN THE ENCASEMENT PIPE IS TO BE MECHANICALLY RESTRAINED. THE ENCASEMENT PIPE MAY BE VENTED TO THE SURFACE IF CARRYING WATER OR SEWER UNDER PRESSURE. WHERE A WATER LINE MUST UNAVOIDABLY PASS BENEATH THE SEWER LINE, AT LEAST 18 INCHES OF SEPARATION MUST BE MAINTAINED BETWEEN THE OUTSIDE OF THE TWO PIPES IN ADDITION TO THE PRECEDING ENCASEMENT REQUIREMENT.

A MINIMUM HORIZONTAL DISTANCE OF THREE FEET SHALL BE MAINTAINED BETWEEN WATER LINES AND OTHER UNDERGROUND UTILITIES OF A NON SANITARY NATURE (GAS, ELECTRIC, ETC.).

WATER LEGEND:

- DUAL WATER METERS
- SINGLE WATER METER
- GATE VALVE
- 45° FITTING
- 90° FITTING
- TEE FITTING
- CROSS FITTING
- FH — FIRE HYDRANT

SEWER LEGEND:

SEWER SERVICE

SEWER MAIN — S — SEWER MANHOLE

NOTE:
USE SDR-26 PVC SEWER PIPE EXCEPT WHERE DUCTILE IRON PIPE REQUIRED FOR COVER. USE DUCTILE IRON PIPE WHERE 3' MINIMUM COVE CANNOT BE MAINTAINED.

CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL BURIED UTILITIES PRIOR TO CONSTRUCTION.

CERTIFICATE OF AUTHORIZATION
HOPE CONSULTING, INC.
No. 1931
ARKANSAS

HDPE

RCP

HOPE CONSULTING
ENGINEERS - SURVEYORS
129 N. Main Street,
Benton, Arkansas
72015
PH. (501)315-2626
FAX (501) 315-0024
www.hopeconsulting.com

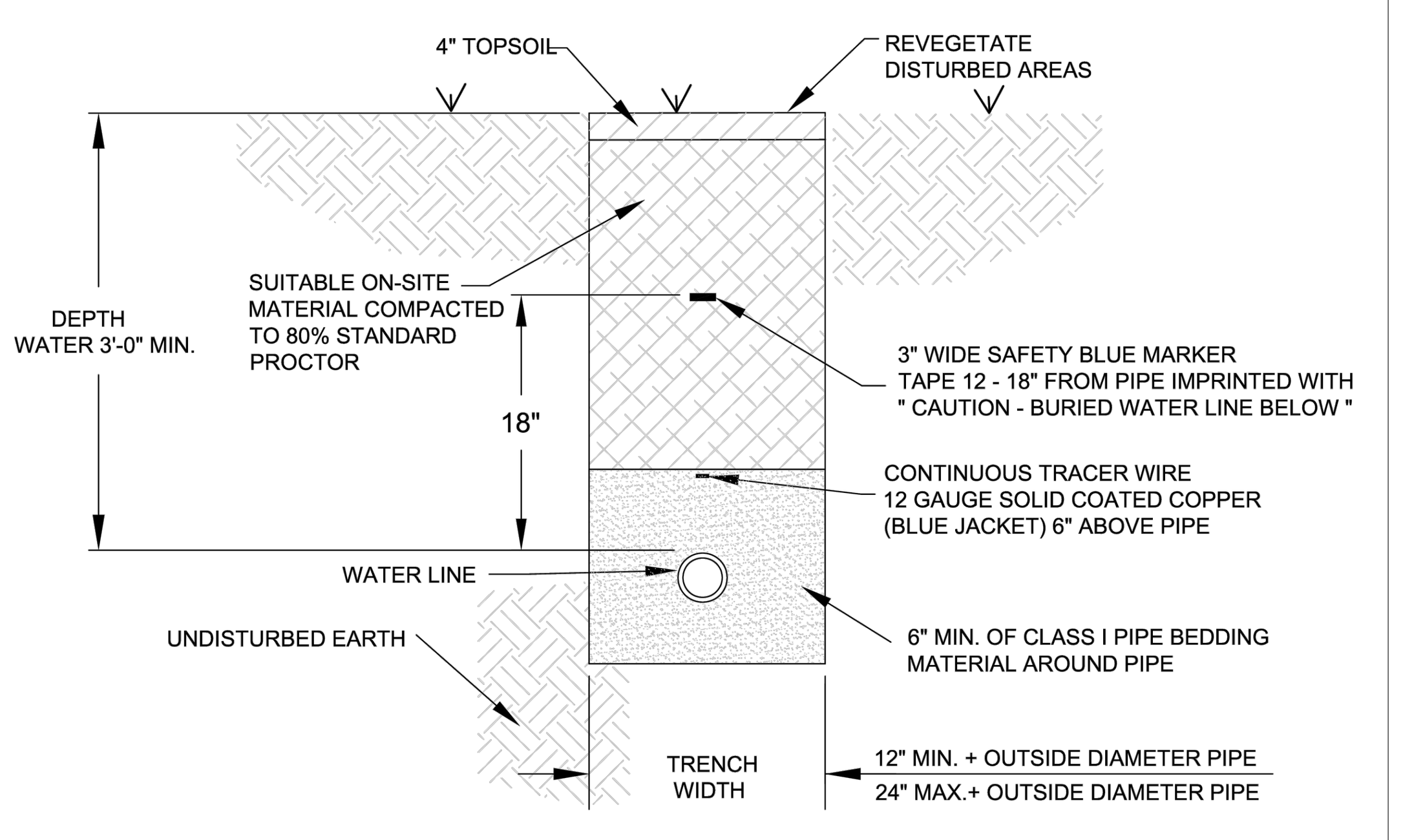
FOR USE AND BENEFIT OF:
CONSOLIDATED RESTAURANT OPERATIONS

LOCAL RESTAURANT
UTILITY PLAN
A SUBDIVISION IN SALINE COUNTY, ARKANSAS

DATE:	10/21/2026	C.A.D. BY:	DRAWING NUMBER:
REVISED:	##	CHECKED BY:	26-0351
SHEET:	C-3.0	SCALE: 1" = 20"	

500	01S	14W	0	22	400	62	1573

H:\SHARED\HOPECONSULTING\CLIENT PROJECTS\2026\26-0351\CIVIL\DWG\VOID\26-0352-DESIGN-9-29-2026_RECOVER.DWG



NOTES:

1. ALL VALVES, BENDS, ETC. SHALL BE RESTRAINED.
2. THE CONTRACTOR SHALL PROVIDE ALL ITEMS NECESSARY TO CONNECT WITH ANY PART OF THE EXISTING WATER SYSTEM THAT WILL REMAIN IN ORDER TO ESTABLISH A SATISFACTORY AND ACCEPTABLE WATER SYSTEM.
3. CONTRACTOR TO CONSTRUCT ALL TRENCH EXCAVATION IN ACCORDANCE WITH ALL OSHA REGULATIONS (29 CFR CH.XVII, SUBPART B)
4. TRENCH SHALL BE EXCAVATED BELOW GRADE REQUIRED TO PROVIDE A MINIMUM 36" OF PIPE COVER.
5. MAXIMUM PIPE COVER SHALL BE 60" UNDER NORMAL CONDITIONS. COVER GREATER THAN 60" MAY BE ALLOWED FOR SHORT DISTANCES WHERE REQUIRED BY FIELD CONDITIONS. NO HYDRANT SHALL BE ALLOWED WHERE LINES ARE GREATER THAN 60" DEEP.

WATER MAIN TRENCH

(NON-PAVED AREA)

CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0468

TITLE: WATER DETAILS	DATE: APRIL 2015	SHEET:
DESCRIPTION: WATER MAIN TRENCH (NON-PAVED AREA)	REVISED ----	W1
DRAWN BY: / CHECKED BY: / FILE: W1-Water Trench (Non-Paved Area).dwg	----	

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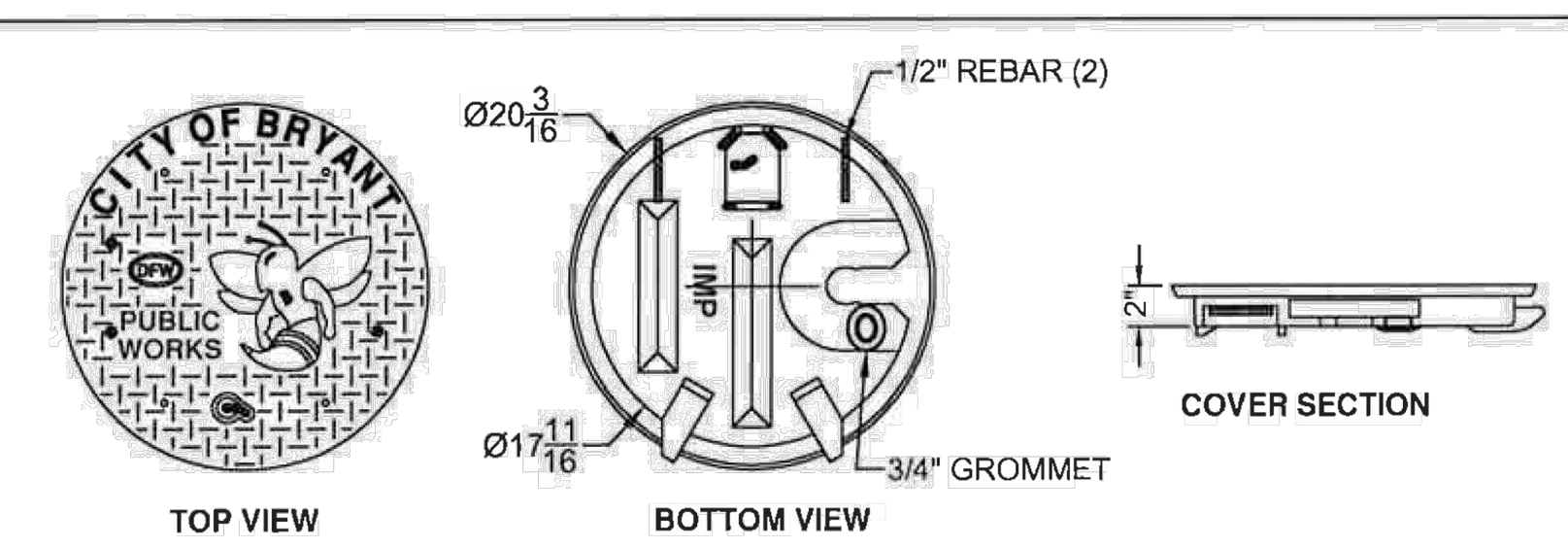
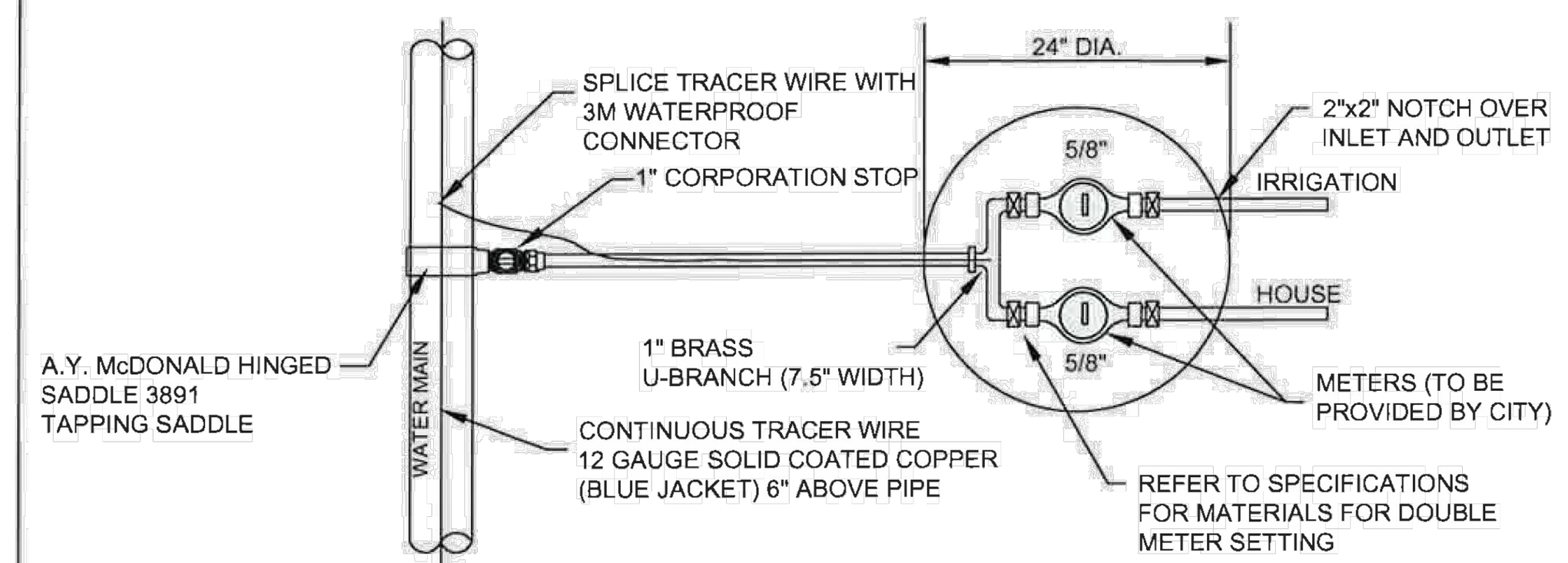
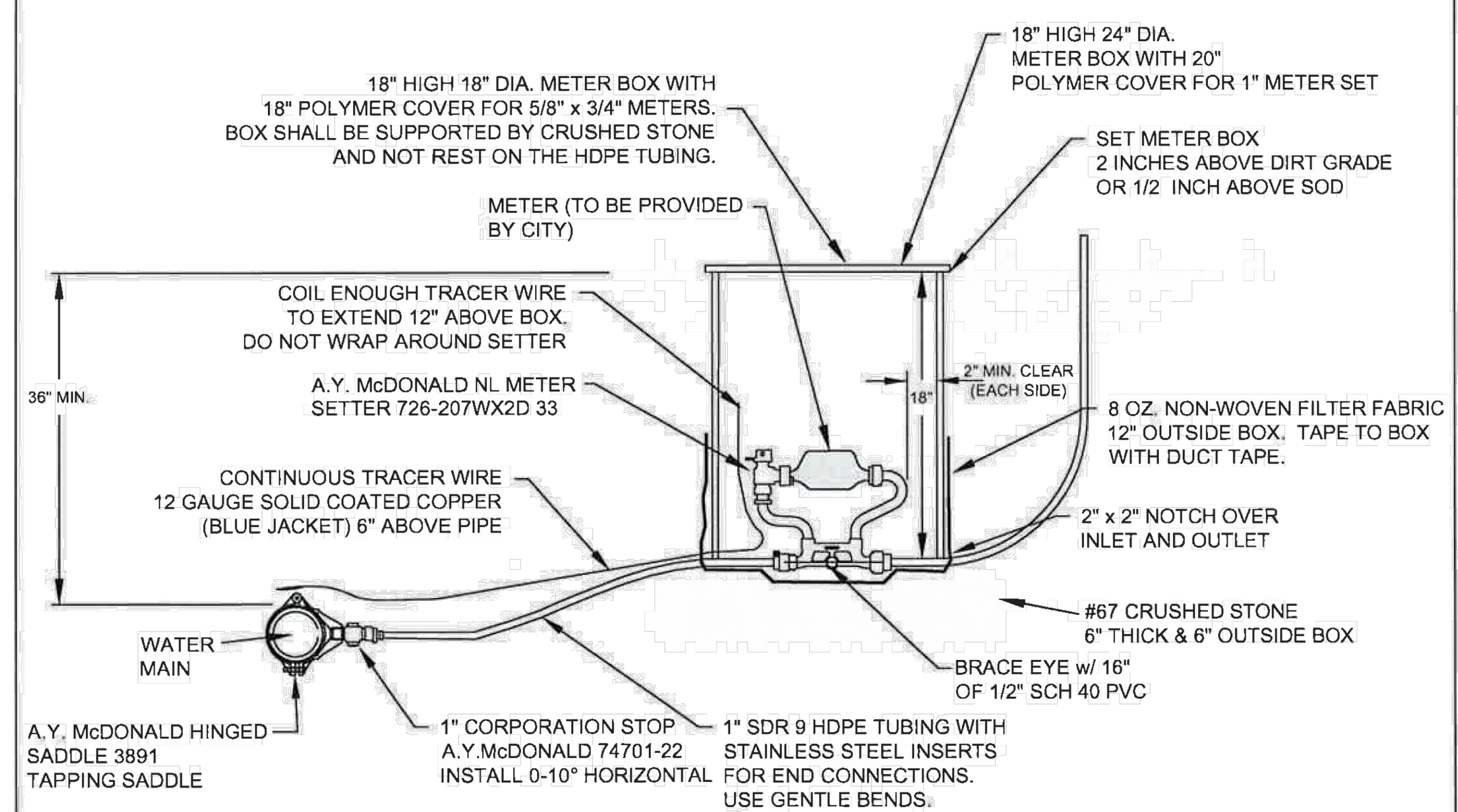


WATER METER LID



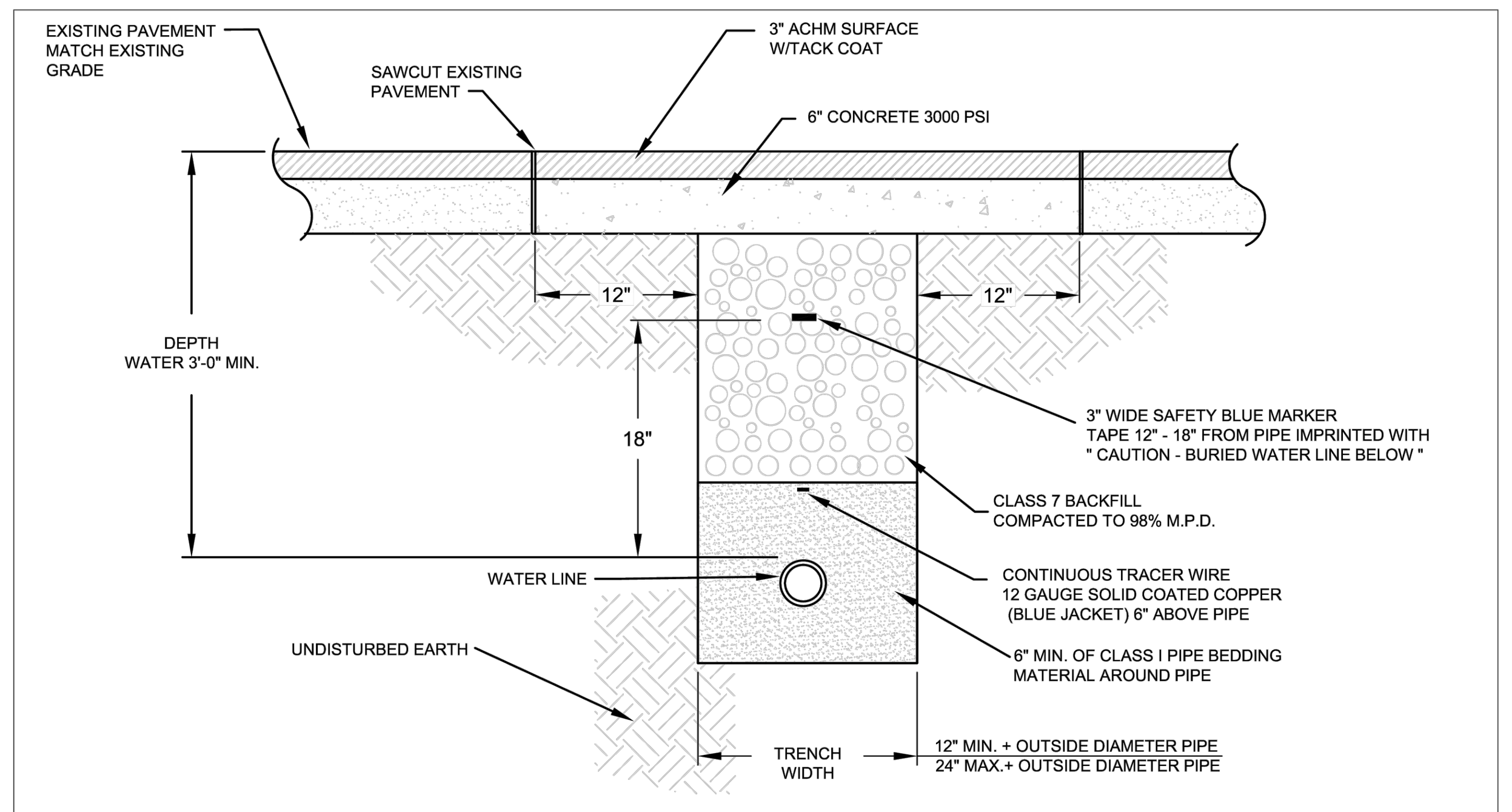
DOUBLE METER SETTING
ONLY FOR 1 LOT



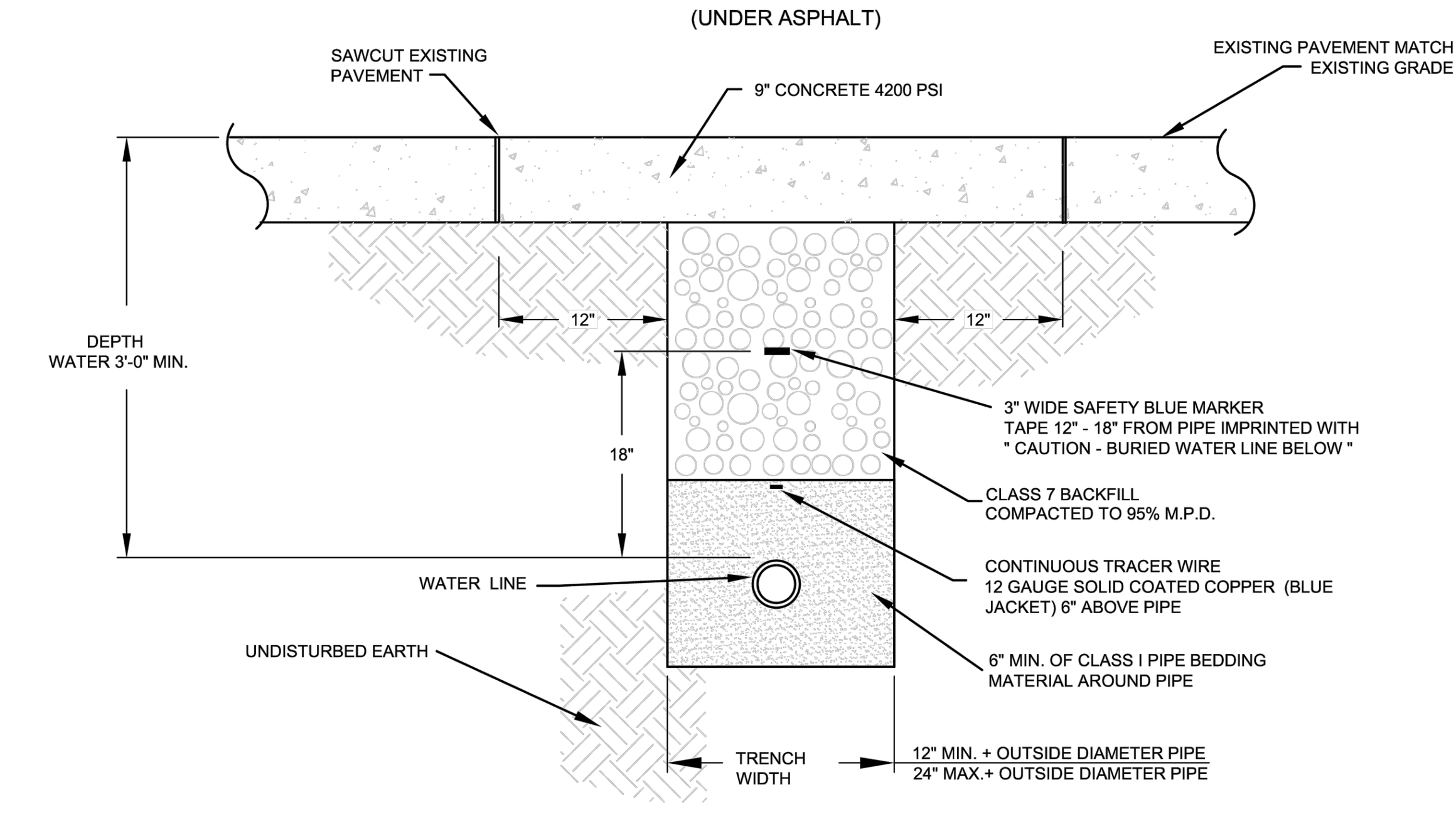
SINGLE METER SETTING

CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0468

TITLE: WATER DETAILS	DATE: APRIL 2015	SHEET:
DESCRIPTION: METER SETTINGS	REVISED ----	W10
DRAWN BY: / CHECKED BY: / FILE: W10-Meter Settings.dwg	----	



WATER MAIN TRENCH
(UNDER ASPHALT)



WATER MAIN TRENCH
(UNDER CONCRETE)

NOTES:

1. ALL VALVES, BENDS, ETC. SHALL BE RESTRAINED.
2. THE CONTRACTOR SHALL PROVIDE ALL ITEMS NECESSARY TO CONNECT WITH ANY PART OF THE EXISTING WATER SYSTEM THAT WILL REMAIN IN ORDER TO ESTABLISH A SATISFACTORY AND ACCEPTABLE WATER SYSTEM.
3. CONTRACTOR TO CONSTRUCT ALL TRENCH EXCAVATION IN ACCORDANCE WITH ALL OSHA REGULATIONS (29 CFR CH.XVII, SUBPART B)
4. TRENCH SHALL BE EXCAVATED BELOW GRADE REQUIRED TO PROVIDE A MINIMUM 36" OF PIPE COVER.
5. MAXIMUM PIPE COVER SHALL BE 60" UNDER NORMAL CONDITIONS. COVER GREATER THAN 60" MAY BE ALLOWED FOR SHORT DISTANCES WHERE REQUIRED BY FIELD CONDITIONS. NO HYDRANT SHALL BE ALLOWED WHERE LINES ARE GREATER THAN 60" DEEP.

CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0468

TITLE: WATER DETAILS	DATE: APRIL 2015	SHEET:
DESCRIPTION: WATER MAIN TRENCH (UNDER PAVEMENT)	REVISED ----	W2
DRAWN BY: / CHECKED BY: / FILE: W2-Water Trench (Under Pavement).dwg	----	

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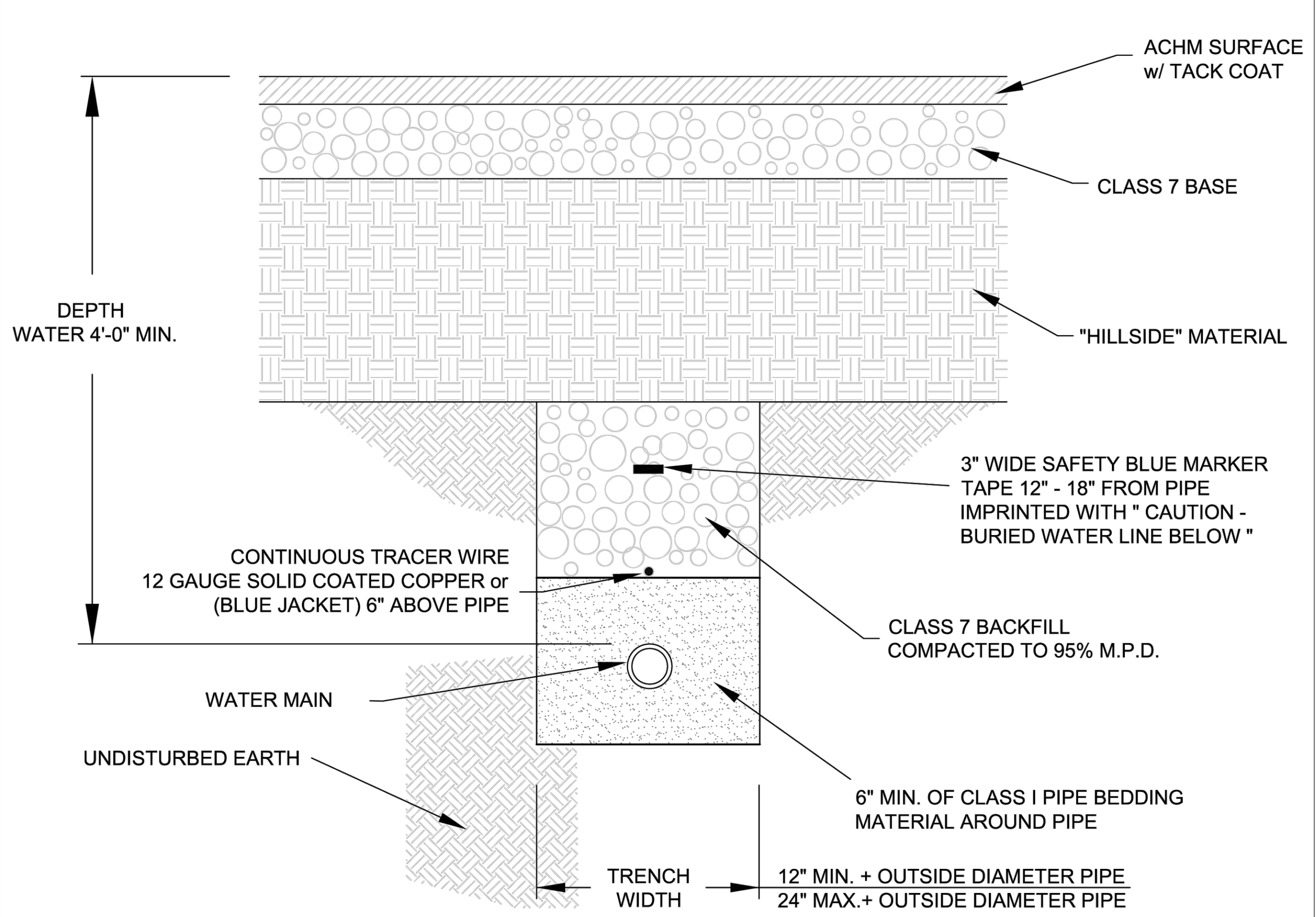


WATER MAIN INSTALLATION
PRIOR TO ROADWAY CONSTRUCTION

NOTES:

1. ALL VALVES, BENDS, ETC. SHALL BE RESTRAINED.
2. THE CONTRACTOR SHALL PROVIDE ALL ITEMS NECESSARY TO CONNECT WITH ANY PART OF THE EXISTING WATER SYSTEM THAT WILL REMAIN IN ORDER TO ESTABLISH A SATISFACTORY AND ACCEPTABLE WATER SYSTEM.
3. CONTRACTOR TO CONSTRUCT ALL TRENCH EXCAVATION IN ACCORDANCE WITH ALL OSHA REGULATIONS (29 CFR CH.XVII, SUBPART B)
4. TRENCH SHALL BE EXCAVATED BELOW GRADE REQUIRED TO PROVIDE A MINIMUM 36" OF PIPE COVER.
5. MAXIMUM PIPE COVER SHALL BE 60" UNDER NORMAL CONDITIONS. COVER GREATER THAN 60" MAY BE ALLOWED FOR SHORT DISTANCES WHERE REQUIRED BY FIELD CONDITIONS. NO HYDRANT SHALL BE ALLOWED WHERE LINES ARE GREATER THAN 60" DEEP.

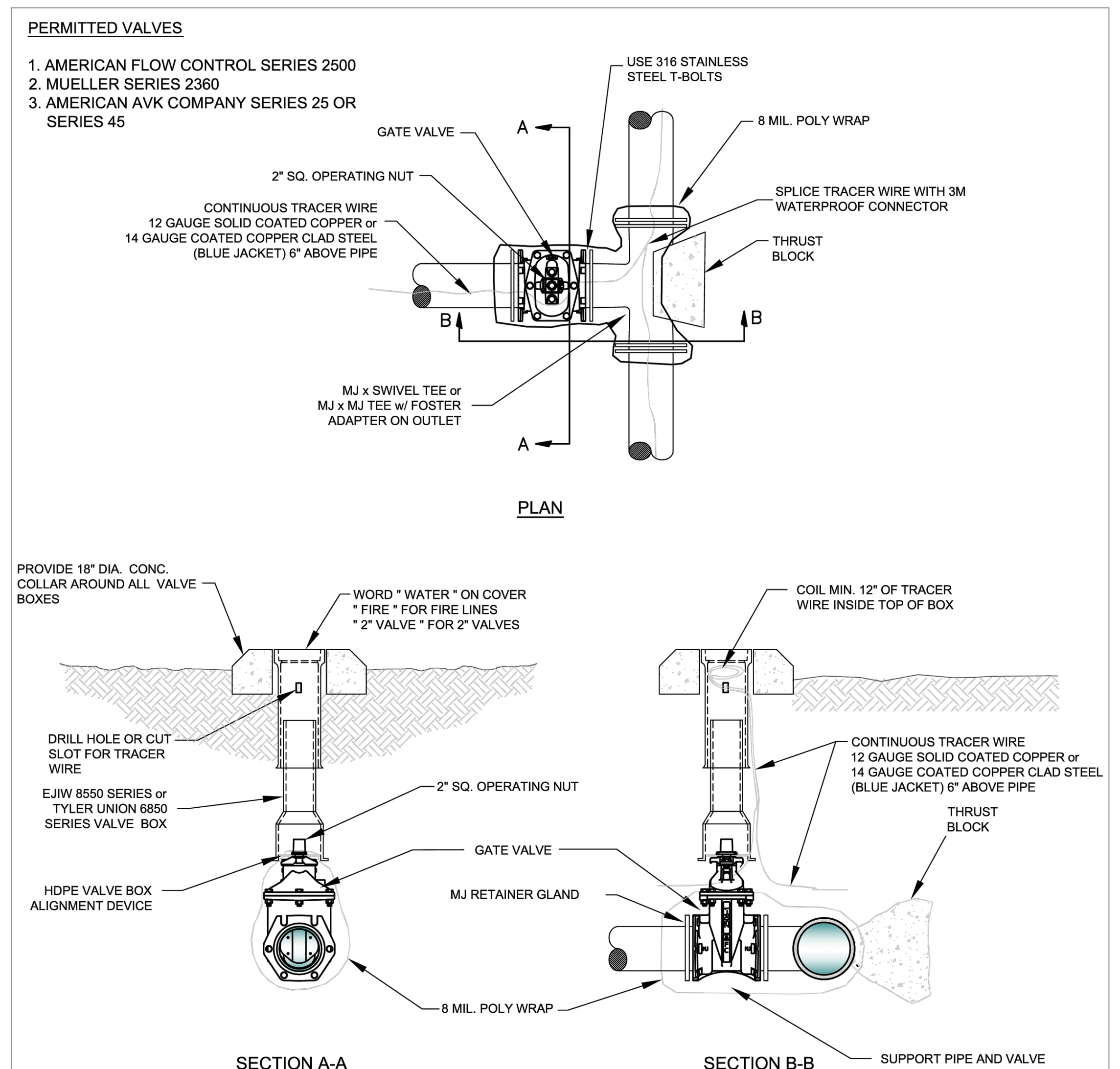
CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0468

TITLE: WATER DETAILS	DATE: APRIL 2015	SHEET:
DESCRIPTION: WATER MAIN INSTALLATION PRIOR TO ROADWAY CONSTRUCTION	REVISED ----	W3
DRAWN BY: / CHECKED BY: / FILE: W3-Water Main Installation Prior to Roadway Const.dwg	----	

4/16/2015 11:45:26 AM

PERMITTED VALVES

1. AMERICAN FLOW CONTROL SERIES 2500
2. MUELLER SERIES 2360
3. AMERICAN AVK COMPANY SERIES 25 OR SERIES 45



NOTES:

1. ALL VALVES SHALL BE SECURELY ANCHORED TO THE TEE.
2. ALL HARDWARE SHALL BE 316 STAINLESS STEEL.
3. IF DEPTH OF BURY EXCEEDS 4 FT., A VALVE STEM EXTENSION SHALL BE REQUIRED. THE VALVE STEM EXTENSION NUT SHALL BE WITHIN 24-INCHES TO 12-INCHES OF THE FINISHED SURFACE.

GATE VALVE DETAIL
2" - 12"

CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0468

TITLE: WATER DETAILS	DATE: APRIL 2015	SHEET:
DESCRIPTION: GATE VALVE	REVISED ----	W4
DRAWN BY: / CHECKED BY: / FILE: W4-Gate Valve.dwg	----	

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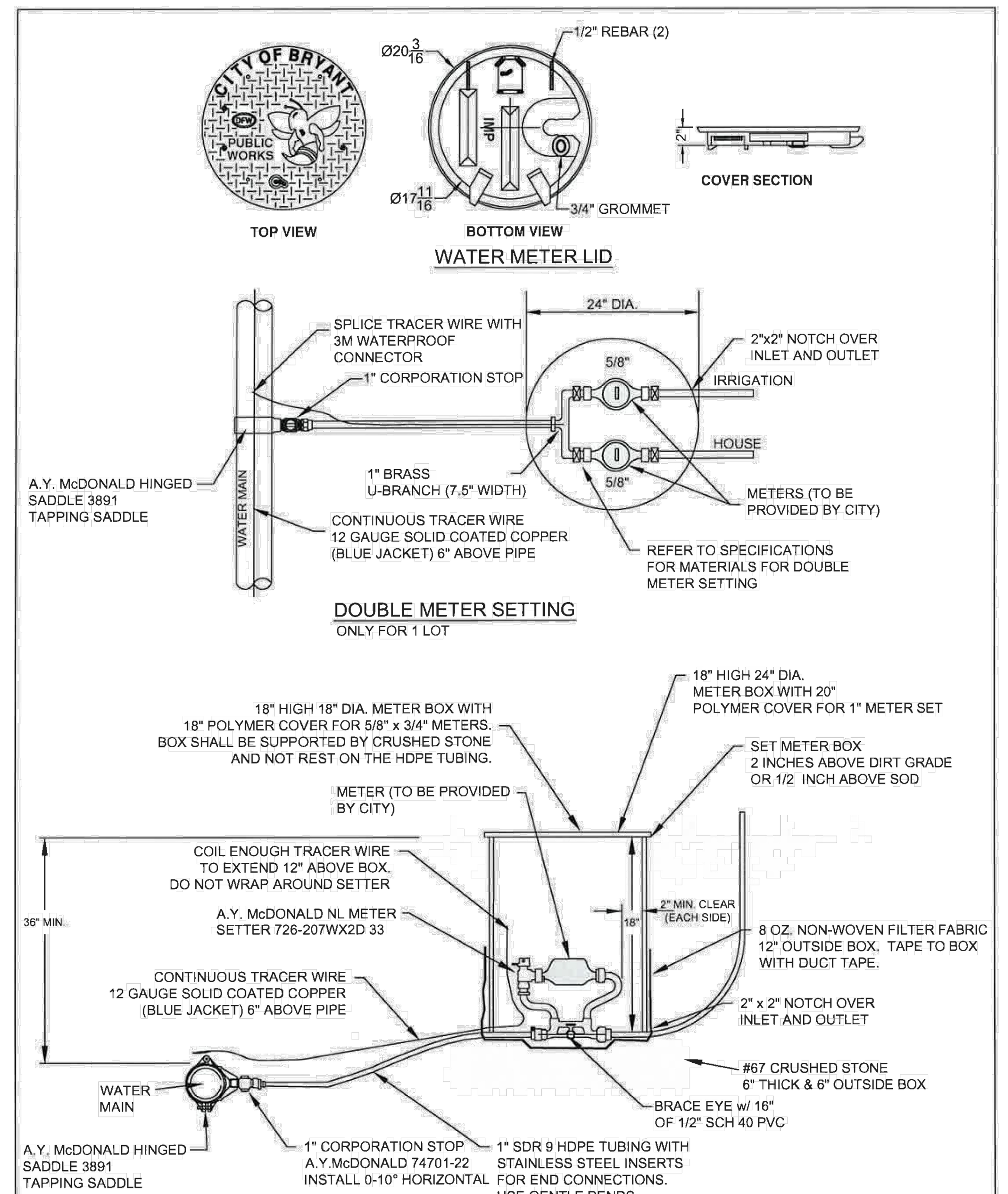


CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0468

TITLE: WATER DETAILS	DATE: APRIL 2015	SHEET:
DESCRIPTION: METER SETTINGS	REVISED ----	W10
DRAWN BY: / CHECKED BY: / FILE: W10-Meter Settings.dwg	----	

CERTIFICATE OF AUTHORIZATION
HOPE CONSULTING, INC.
No. 1931
ARKANSAS

HOPE CONSULTING
ENGINEERS - SURVEYORS
129 N. Main Street,
Benton, Arkansas
72015
PH. (501)315-2626
FAX (501) 315-0024
www.hopeconsulting.com

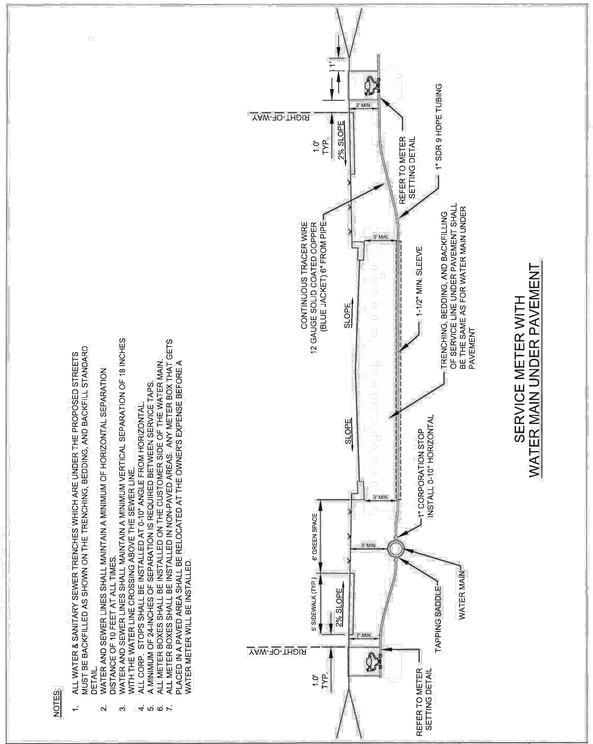
FOR USE AND BENEFIT OF:
CONSOLIDATED RESTAURANT OPERATIONS

LOCAL RESTAURANT
BRYANT WATER SPECIFICATIONS
A SUBDIVISION IN SALINE COUNTY, ARKANSAS

DATE:	10/21/2026	C.A.D. BY:	DRAWING NUMBER:
REVISED:	##	CHECKED BY:	26-0351
SHEET:	C-4.1	SCALE:	

500	01S	14W	0	22	400	62	1573

H:\SHARED\HOPECONSULTING\LAND PROJECTS 2004\COMMERCIAL\2026\26-0351\CIVIL\DWG\VOID\26-0352-DESIGN-9-29-2026_RECOVER.DWG



SERVICE METER WITH
WATER MAIN UNDER PAVEMENT

NOTES:

1. ALL WATER & SANITARY SEWER TRENCHES WHICH ARE UNDER THE PROPOSED STREETS MUST BE BACKFILLED AS SHOWN ON THE TRENCHING, BEDDING, AND BACKFILL STANDARD DETAIL.
2. WATER AND SEWER LINES SHALL MAINTAIN A MINIMUM OF HORIZONTAL SEPARATION DISTANCE OF 10 FEET AT ALL TIMES.
3. WATER AND SEWER LINES SHALL MAINTAIN A MINIMUM VERTICAL SEPARATION OF 18 INCHES WITH THE WATER LINE CROSSING ABOVE THE SEWER LINE.
4. ALL CORP. STOPS SHALL BE INSTALLED AT 0-10° ANGLE FROM HORIZONTAL.
5. A MINIMUM OF 24-INCHES OF SEPARATION IS REQUIRED BETWEEN SERVICE TAPS.
6. ALL METER BOXES SHALL BE INSTALLED IN THE CROSS SECTION OF THE WATER MAIN.
7. ALL METER BOXES SHALL BE INSTALLED IN NON-PAVED AREAS. ANY METER BOX THAT GETS PLACED IN A PAVED AREA SHALL BE RELOCATED AT THE OWNER'S EXPENSE BEFORE A WATER METER WILL BE INSTALLED.

CITY OF BRYANT, AR WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0468	TITLE: **WATER DETAILS**	DATE: APRIL 2015 REVISED	SHEET: **W11**
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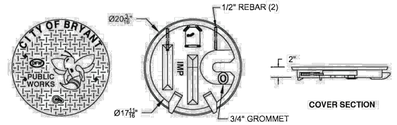
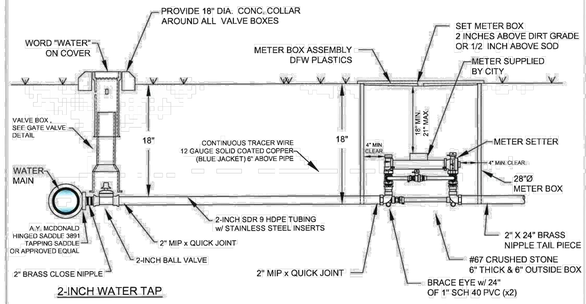
	DRAWN BY: CHECKED BY: FILE: W11-Water Service Line Under Pavement.dwg		



WATER METER LID



2-INCH WATER TAP

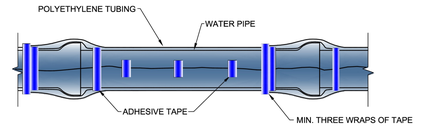
2-INCH METER SETTER

NOTES:

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

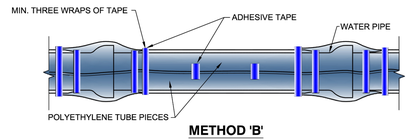
2" WATER SERVICE AND WATER METER

CITY OF BRYANT, AR WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0468	TITLE: **WATER DETAILS**	DATE: APRIL 2015 REVISED	SHEET: **W12**
	DESCRIPTION: 2" WATER METER		
	DRAWN BY: CHECKED BY: FILE: W12-2 Inch Water Meter.dwg		



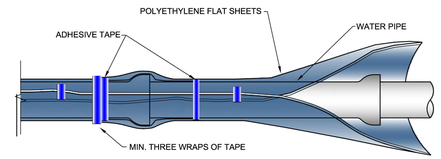
METHOD 'A'

METHOD 'A' USES ONE LENGTH OF POLYETHYLENE TUBE, OVERLAPPED AT THE JOINTS A MINIMUM OF 2 FEET.



METHOD 'B'

METHOD 'B' USES SEPARATE PIECES OF POLYETHYLENE TUBE FOR THE BARREL OF THE PIPE AND THE JOINTS. SHORT PIECES SHALL BE APPROXIMATELY 6' LONG AND OVERLAP BARREL SECTION BY A MINIMUM OF 2 FEET.



METHOD 'C'

METHOD 'C' - USED FOR PIPE-SHAPED AND ODD- SHAPED APPURTENANCES SUCH AS BENDS, REDUCERS, OFFSETS, VALVES, TEES, ETC.

ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE POLY WRAPPED.

THE ANSI/AWWA C105/A21.5 STANDARD OUTLINES THREE METHODS OF INSTALLING POLYETHYLENE ENCASEMENT/ SLEEVING.

CITY OF BRYANT, AR WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0468	TITLE: **WATER DETAILS**	DATE: APRIL 2015 REVISED	SHEET: **W14**
	DESCRIPTION: POLYETHYLENE PROTECTION MATERIAL		
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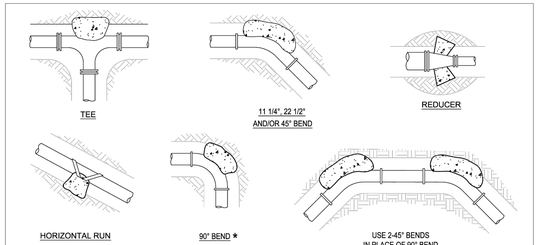
4/16/2015 11:46:29 AM



THRUST BLOCK SCHEDULE

(2000 PSF SOIL, 200 PSI WATER PRESSURE, 100 PSI WATER HAMMER)

FITTING SIZE	BEARING AREA OF THRUST BLOCKS IN SQ. FT. (HORIZONTAL BENDS) PLUG TEE OR CAP	BEND ANGLE 90° *	45°	22 1/2°	11 1/4°	FITTING SIZE	VOLUME OF THRUST BLOCK IN CU. FEET (VERTICAL BENDS) BEND ANGLE 90° *	45°	22 1/2°	11 1/4°	ROD DIAM.	EMBEDMENT
2, 3, & 4	1.9	2.7	1.4	0.7	0.4	2, 3, & 4	35.5	19.2	9.8	4.9	.50"	30"
6	5.6	7.9	4.3	2.2	1.1	6	105.8	57.2	29.2	14.7	.75"	30"
8	9.6	13.8	7.4	3.8	1.9	8	181.9	98.5	50.2	25.2	.75"	30"
12	20.5	29.0	15.7	8.0	4.0	12	387.1	209.5	106.8	53.7	1.0"	30"
16	35.7	50.4	27.3	13.9	7.0	16	672.8	364.0	185.6	93.2	1.0"	36"
18	44.8	63.4	34.3	17.5	18.8	18	844.7	457.2	233.1	117.1	1.0"	36"
24	78.4	110.8	60.0	30.6	15.4	24	1478.7	800.3	408.0	205.0	1.5"	36"

* 90 DEGREE BENDS SHALL ONLY BE USED ON A BY-EXCEPTION BASIS, AND MUST EACH BE SPECIFICALLY APPROVED BY CITY.

THRUST BLOCK NOTES:

1. CONCRETE FOR THRUST BLOCKS - CLASS A CONCRETE SHALL DEVELOP NOT LESS THAN 3000 P.S.I. COMPRESSIVE STRENGTH AT 28 DAYS AND BE PLACED AGAINST UNDISTURBED SOIL.
2. ALL BENDS, BOTH HORIZONTAL AND VERTICAL, SHALL BE BACKED WITH CONCRETE. VERTICAL BENDS SHALL BE PLACED ON CONCRETE PADS WHERE BENDS TURN UP, OR LOADED WHERE BENDS TURN DOWN.
3. WRAP PIPE JOINTS IN .8 MIL "POLYETHLENE" BEFORE PLACING CONCRETE.
4. BEARING AREA SHOWN IN TABLE, IS BASED UPON A 2000 LB/SF. SOIL BEARING, AND UPON A PIPELINE PRESSURE OF 200 psi. PLUS 100 psi. WATER HAMMER. AREAS SHOWN SHALL BE ADJUSTED, SHOULD FIELD CONDITIONS VARY.
5. MJ RESTRAINTS ARE REQUIRED FOR ALL FITTINGS.
6. USE LONG-RADIUS FITTINGS WHEREVER POSSIBLE.
7. ALL BOLTS FOR FITTINGS SHALL BE 316 STAINLESS STEEL.
8. ALL DUCTILE IRON FITTINGS SHALL BE FUSION-BONDED EPOXY COATED INSIDE AND OUTSIDE IN ACCORDANCE WITH ANSI/AWWA C116/A21.16.
9. UNIT WEIGHT OF CONCRETE FOR VERTICAL THRUST BLOCKS IS 150 LBS/CU. FT.

THRUST BLOCKING

CITY OF BRYANT, AR WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0468	TITLE: **WATER DETAILS**	DATE: APRIL 2015 REVISED	SHEET: **W16**
	DESCRIPTION: THRUST BLOCKING		
	DRAWN BY: CHECKED BY: FILE: W16-Thrust Blocking.dwg		

4/24/2015 11:46:57 AM

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LOCAL RESTAURANT
BRYANT WATER SPECIFICATIONS
A SUBDIVISION IN SALINE COUNTY, ARKANSAS

DATE:	10/21/2026	C.A.D. BY:	DRAWING NUMBER:
REVISED:	##	CHECKED BY:	26-0351
SHEET:	C-4.2	SCALE:	

500	01S	14W	0	22	400	62	1573

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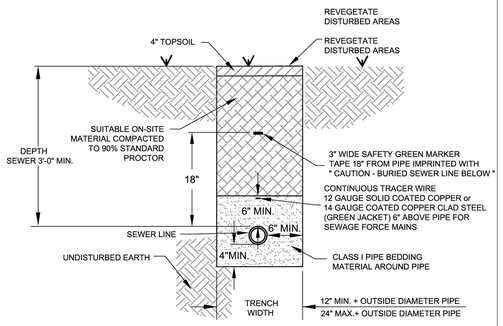
G:\CAD\PROJECTS\2026\26-0351\DWG\26-0351 BRYANT WATER.DWG



SEWER TRENCH

(NON-PAVED AREA)

NOTES:

1. THE CONTRACTOR SHALL PROVIDE ALL ITEMS NECESSARY TO CONNECT WITH ANY PART OF THE EXISTING SEWER SYSTEM THAT WILL REMAIN IN ORDER TO ESTABLISH A SATISFACTORY AND ACCEPTABLE SEWER SYSTEM.
2. CONTRACTOR TO CONSTRUCT ALL TRENCH EXCAVATION IN ACCORDANCE WITH ALL OSHA REGULATIONS (29 CFR CH.XVII, SUBPART B)
3. TRENCH SHALL BE EXCAVATED BELOW GRADE REQUIRED TO PROVIDE A MINIMUM 36" OF PIPE COVER.

CITY OF BRYANT, AR	TITLE:	SEWER DETAILS	DATE: APRIL 2015	SHEET:
WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0488	DESCRIPTION:	SEWER TRENCH (NON-PAVED AREA)	REVISED ===== ===== ===== =====	S1
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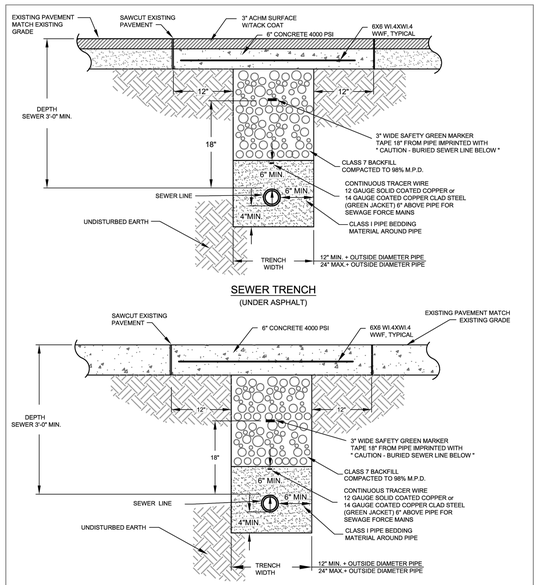

SEWER TRENCH

(UNDER ASPHALT)

SEWER TRENCH

(UNDER CONCRETE)

NOTES:

1. THE CONTRACTOR SHALL PROVIDE ALL ITEMS NECESSARY TO CONNECT WITH ANY PART OF THE EXISTING SEWER SYSTEM THAT WILL REMAIN IN ORDER TO ESTABLISH A SATISFACTORY AND ACCEPTABLE SEWER SYSTEM.
2. CONTRACTOR TO CONSTRUCT ALL TRENCH EXCAVATION IN ACCORDANCE WITH ALL OSHA REGULATIONS (29 CFR CH.XVII, SUBPART B)
3. TRENCH SHALL BE EXCAVATED BELOW GRADE REQUIRED TO PROVIDE A MINIMUM 36" OF PIPE COVER.

CITY OF BRYANT, AR	TITLE:	SEWER DETAILS	DATE: APRIL 2015	SHEET:
WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0488	DESCRIPTION:	SEWER TRENCH (UNDER PAVEMENT)	REVISED ===== ===== ===== =====	S2
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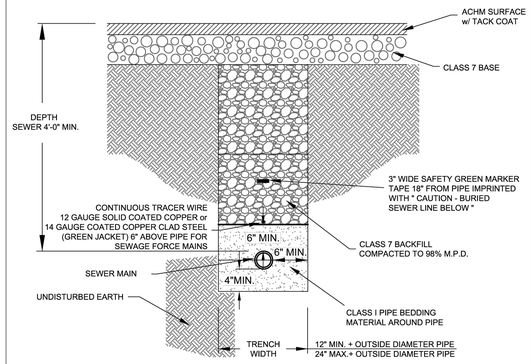

SEWER MAIN INSTALLATION
PRIOR TO ROADWAY CONSTRUCTION

NOTES:

1. THE CONTRACTOR SHALL PROVIDE ALL ITEMS NECESSARY TO CONNECT WITH ANY PART OF THE EXISTING SEWER SYSTEM THAT WILL REMAIN IN ORDER TO ESTABLISH A SATISFACTORY AND ACCEPTABLE SEWER SYSTEM.
2. CONTRACTOR TO CONSTRUCT ALL TRENCH EXCAVATION IN ACCORDANCE WITH ALL OSHA REGULATIONS (29 CFR CH.XVII, SUBPART B)
3. TRENCH SHALL BE EXCAVATED BELOW GRADE REQUIRED TO PROVIDE A MINIMUM 36" OF PIPE COVER.

CITY OF BRYANT, AR	TITLE:	SEWER DETAILS	DATE: APRIL 2015	SHEET:
WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0488	DESCRIPTION:	SEWER MAIN INSTALLATION PRIOR TO ROADWAY CONSTRUCTION	REVISED ===== ===== ===== =====	S3
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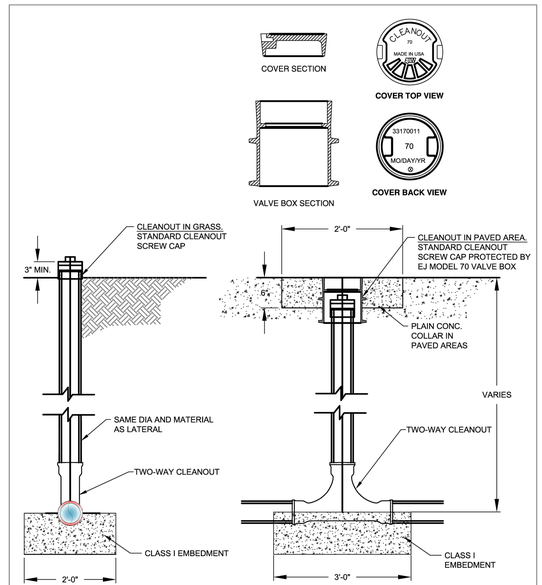

TYPICAL CLEANOUT

CITY OF BRYANT, AR	TITLE:	SEWER DETAILS	DATE: APRIL 2015	SHEET:
WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0488	DESCRIPTION:	SEWER SERVICE CLEANOUT	REVISED ===== ===== ===== =====	S16
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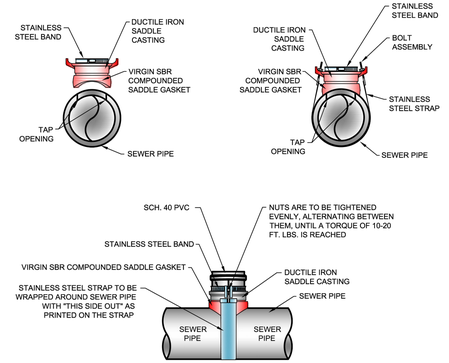

SEWER SERVICE SADDLE

CITY OF BRYANT, AR	TITLE:	SEWER DETAILS	DATE: APRIL 2015	SHEET:
WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0488	DESCRIPTION:	SEWER SERVICE SADDLE	REVISED ===== ===== ===== =====	S17
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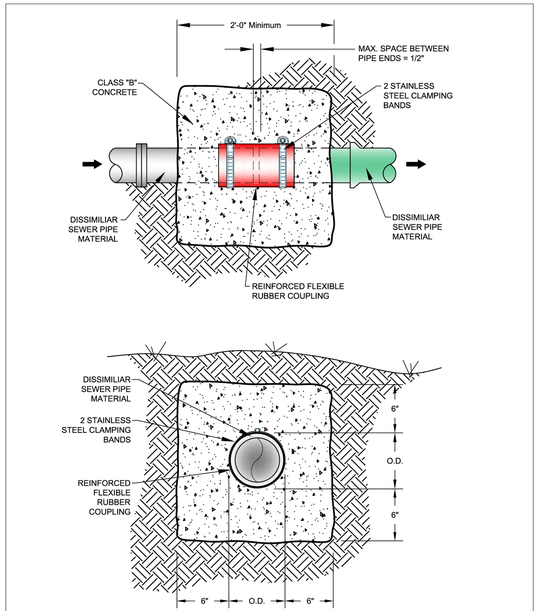

REINFORCE FLEXIBLE COUPLING

CITY OF BRYANT, AR	TITLE:	SEWER DETAILS	DATE: APRIL 2015	SHEET:
WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0488	DESCRIPTION:	REINFORCED FLEXIBLE COUPLING	REVISED ===== ===== ===== =====	S18
	DRAWN BY:	CHECKED BY:	FILE: S18-Reinforced Flexible Coupling.dwg	

4/16/2015 10:58:34 AM

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DATE: 10/21/2026	C.A.D. BY:		DRAWING NUMBER: 26-0351				
REVISED: ##	CHECKED BY:						
SHEET: C-4.3	SCALE:						
500	01S	14W	0	22	400	62	1573

I:\HARRIS\HOPE\CONSULTING\1573 PROJECTS 500\COMMERCIAL\CIVIL\DWG\1573-26-0351\CIVIL\DWG\1573-26-0351-DESIGN-N-X-29-2026_REV.COVER.DWG

CONSOLIDATED RESTAURANT OPERATIONS
DRAINAGE PLAN

840-12216-007
FRED BRINER
PROPERTIES, LLC
2019-004456
0.64 ACRES

PROGRESS WAY (PRIVATE)

MARKETPLACE AVE. (60' PUBLIC)

SDMH RIM 426.93
FULL OF WATER

SDMH RIM 425.41
INV. OUT S (48" RCP) 421.64

SDMH RIM 425.53
INV. IN N (48" RCP) 420.79
INV. OUT S (48" RCP) 420.79

33 L.F. OF 18" RCP @ 1.00%

CI-2-1
STA:0+00.00
RIM:425.74
INV IN:421.17 18 Reinforced Concrete Pipe

840-05786-603
BRYANT REALTY COMPANY, LLC
LOT 3

EXISTING CB
0+00.08 STORM PROFILE
RIM:426.12
INV OUT:421.65 E

45 LF OF EXISTING
36" HDPE @ 0.70%

PROPOSED BUILDING
AREA 7332.50 SQ.FT.
FFE 430.0'

99' OF 36" RCP @ 0.21%

CB - 1
0+44.76 STORM PROFILE
RIM:428.66
INV IN:421.34 W
INV OUT:421.24 S

139' OF 36" RCP @ 0.50%

76 LF OF EXISTING 36" HDPE @ 0.70%

FL OUT :419.512

CB - 2
1+43.55 STORM PROFILE
RIM:426.69
INV IN:420.74 N
INV OUT:420.74 E

CB - 3
2+82.62 STORM PROFILE
RIM:424.90
INV IN:420.04 W
INV OUT:420.04 E

251.09' OF 8" SDR-26 PVC @ .0.40%

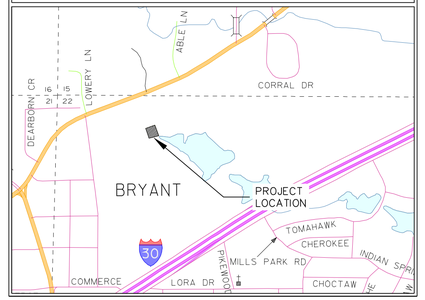
INV. 48" RCP FES 422.74

INV. 36" HDPE 419.96

BASIS OF BEARING:
GRID NORTH, ARKANSAS
COORDINATE SYSTEM, SOUTH ZONE BY
GPS OBSERVATION

20 10 20
BAR SCALE: 1"=20'

VICINITY MAP:



HDPE
RCP

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DRAINAGE PLAN
A SUBDIVISION IN SALINE COUNTY, ARKANSAS

DATE:	10/21/2026	C.A.D. BY:	DRAWING NUMBER:
REVISED:	##	CHECKED BY:	26-0351
SHEET:	C-5.0	SCALE: 1" = 20"	

500	01S	14W	0	22	400	62	1573

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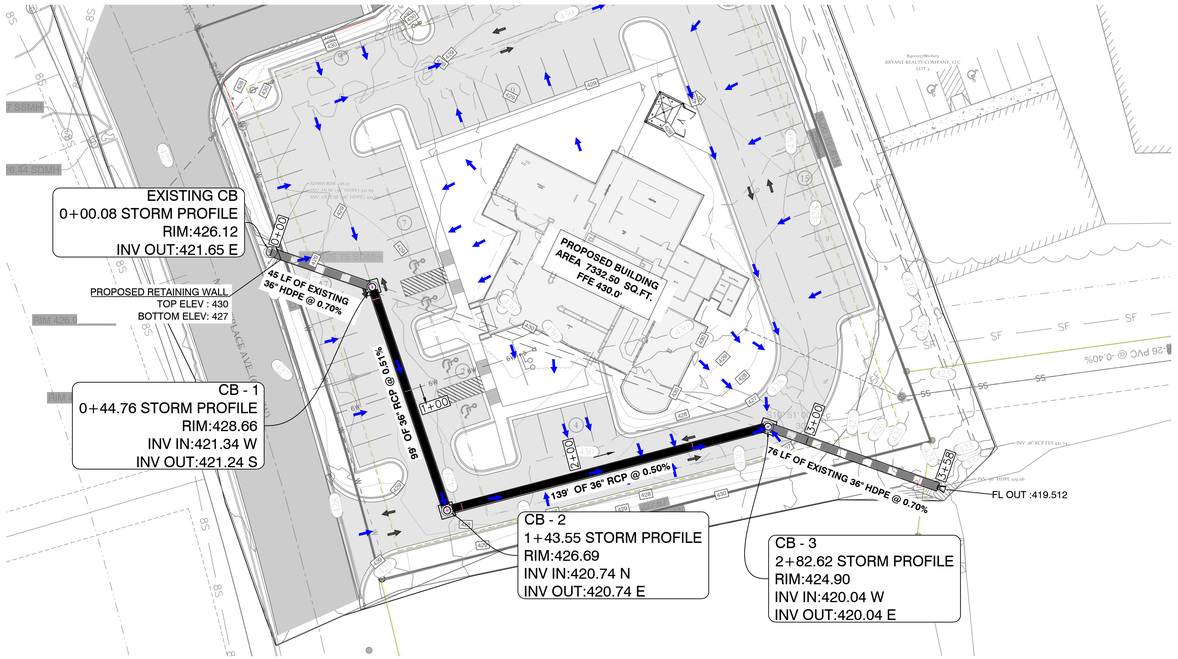
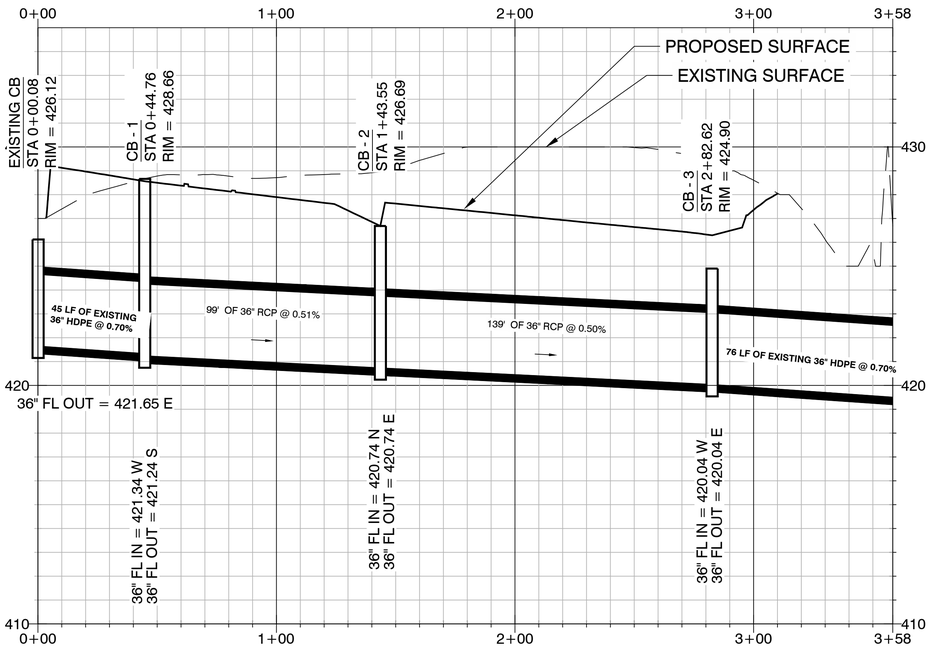
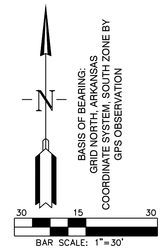
CONSOLIDATED RESTAURANT OPERATIONS
DRAINAGE PLAN



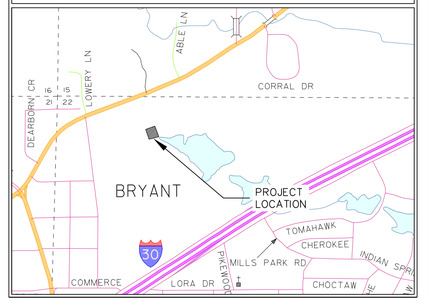


STORM PTOFILE

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



VICINITY MAP:



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LOCAL RESTAURANT
DRAINAGE PLAN & PROFILES
A SUBDIVISION IN SALINE COUNTY, ARKANSAS

DATE:	10/21/2026	C.A.D. BY:				DRAWING NUMBER:	
REVISED:	##	CHECKED BY:				26-0351	
SHEET:	C-5.1	SCALE:	1" = 30"				
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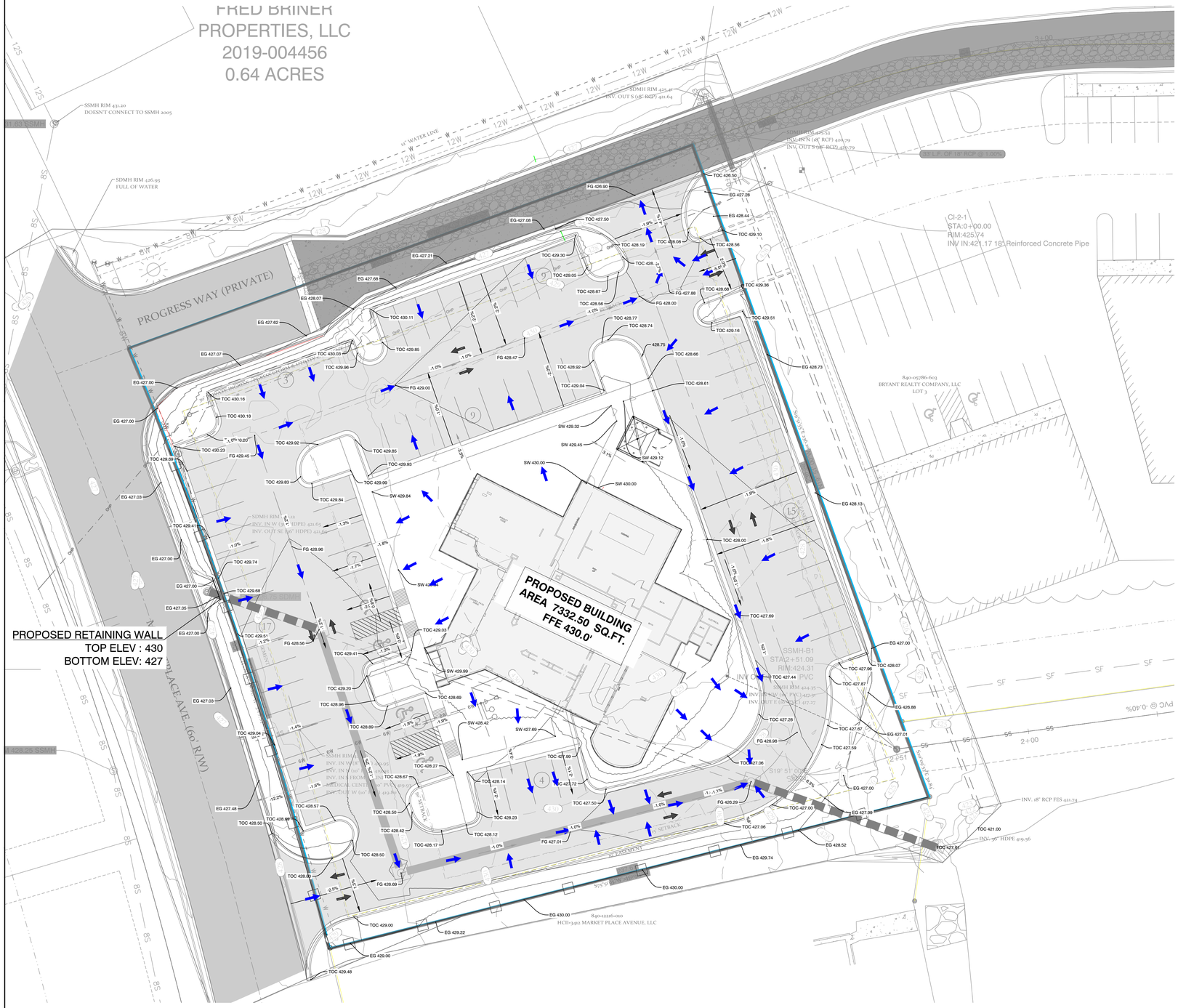
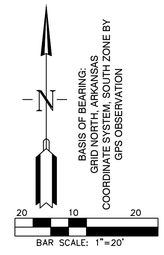
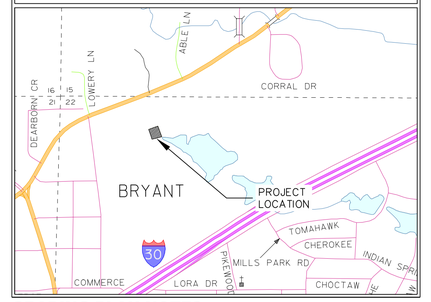
CONSOLIDATED RESTAURANT OPERATIONS
DRADING PLAN





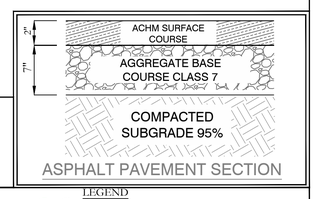
VICINITY MAP:



GRADING PLAN NOTES

1. DESIGN CONTOURS SHOWN ARE FINISHED GRADE.
2. SPOT ELEVATIONS SHOWN ARE FINISHED GROUND,SIDEWALK ELEVATIONS, EXISTING GROUND.
3. CLEAR AND GRUB AREAS OF THE SITE WHERE CUT OR FILL IS TO OCCUR.
4. FILL SHALL BE COMPACTED TO AT LEAST 98% OF THE MATERIAL'S MAXIMUM STANDARD PROCTOR DRY DENSITY.
5. THE MOISTURE CONTENT OF FILL MATERIAL SHALL BE WITHIN THE RANGE OF 1% BELOW TO 3% ABOVE THE OPTIMUM MOISTURE CONTENT.
6. SUBGRADES SHALL BE PROOF-ROLLED WITH A LOADED DUMP TRUCK TO DETECT ZONES OF UNSUITABLE AND/OR EXCESSIVELY WET SOILS. IF PUMPING BEGINS, COMPACTION SHALL BE STOPPED IMMEDIATELY AND RESUMED ONLY WHEN THE MATERIAL IS SUFFICIENTLY DRY THAT PUMPING DOES NOT OCCUR.
7. ALL UNUSABLE SOILS SHALL BE USED ON SITE FOR FILL PURPOSES OUTSIDE THE AREAS OF BUILDING AND PAVEMENT CONSTRUCTION.
8. OWNER IS RECOMMENDED TO HAVE FENCE AROUND DETENTION POND.

LEGEND
TOC = TOP OF CURB
FG = FINISH GRADE
EG = EXISTING GRADE
SW = TOP OF SIDEWALK



LEGEND

- PLSS Aliquot Corner	- Clean Out	x x - Fence
- Fnd. Corner Monument	- Water Meter	OHP - Overhead Power
- Set 1/2" Rebar/Cap (1664)	- Power Pole	SS - Sewer Line
- Computed Point	- Sewer Manhole	W - Water Line
(M) - As Measured	- Light Pole	UGT - Telephone Line
(P) - Per Deed or Plat Records	- Telephone Pedestal	UGE - Electric Line
ESMT - Easement	- Drainage Manhole	GAS - Gas Line
B.S.L. - Building Setback Lines	- Gas Meter	

HDPE
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LOCAL RESTAURANT
GRADING PLAN
A SUBDIVISION IN SALINE COUNTY, ARKANSAS

DATE:	10/21/2026	C.A.D. BY:	DRAWING NUMBER:
REVISED:	##	CHECKED BY:	26-0351
SHEET:	C-6.0	SCALE: 1" = 20"	

500	01S	14W	0	22	400	62	1573

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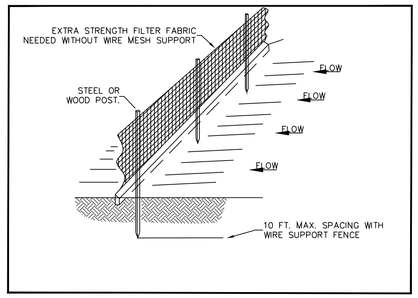
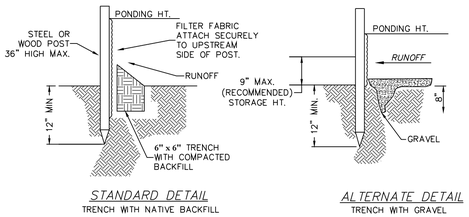
EROSION CONTROL PLAN
PHASE-1 PLAN A







STANDARD DETAIL
TRENCH WITH NATIVE BACKFILL

ALTERNATE DETAIL
TRENCH WITH GRAVEL

SILT FENCE MATERIAL: IT SHALL BE EXTRA STRENGTH SYNTHETIC FABRIC WITH WIRE BACK.
NOTE:
1.) INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.

2.) REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

3.) SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.

4.) IF THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER SHALL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.

5.) THE MAXIMUM ALLOWABLE SLOPE LENGTH IS LESS THAN 2% PER 100 FT ALLOWABLE LENGTH.

6.) THE MAXIMUM DRAINAGE AREA CONTRIBUTING FLOW TO A SILT FENCE DID NOT EXCEED 0.5 ACRES PER 100-FT OF FENCE.

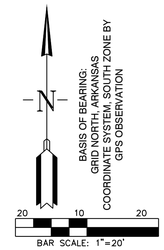
7.) SILT FENCES ARE PLACED BELOW THE TOE OF EXPOSED AND ERODIBLE SLOPES.

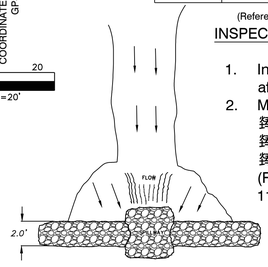
8.)NO STOCKPILES ARE PLANNED.

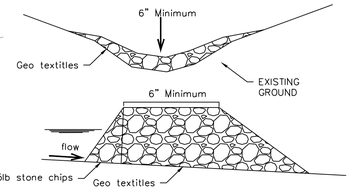
9.)SILT FENCE INSTALLATION AND MAINTENANCE SHALL COMPLY WITH SECTION 1100.5 (BRYANT), INCLUDING TRENCHING, BACKFILL, POST SPACING, AND INSPECTION REQUIREMENTS.

10.)INSPECT WEEKLY AND AFTER 0.5"RAINFALL. REPLACE DAMAGED/FAILED FENCE WITHIN 24-48 HRS. REPLACE FABRIC WHEN TORN/DETERIORATED. REMOVE SEDIMENT AT ½ HEIGHT. MAINTAIN UNTIL FINAL STABILIZATION.

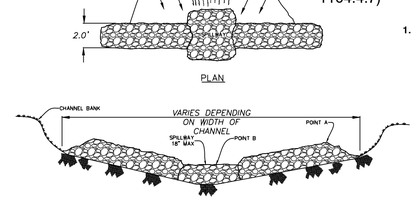
SILT FENCE







NOTES:
1. FOR USE IN SMALL CHANNELS WITH DRAINAGE AREAS OF 50 ACRES OR LESS
2. MUST BE USED IN CONJUNCTION WITH OTHER APPROPRIATE SEDIMENT CONTROL MEASURES.
3. USE BELOW CULVERT INSTALLATIONS, DAM CONSTRUCTION, OR ANY PROJECT THAT MAY INVOLVE GRADING ACTIVITY DIRECTLY IN A STREAM.
4. NOT INTENDED TO SUBSTANTIALLY IMPOUND WATER.
5. USE AT THE UPSTREAM END OF PONDS OR LAKES.
6. EDGES SHOULD NOT BE HIGHER THAN THE CHANNEL BANKS.
7. CENTER SHOULD BE AT LEAST 6 INCHES LOWER THAN THE OUTER EDGES OF THE DAM AT THE CHANNEL BANKS.
8. HEIGHT SHOULD NOT EXCEED ELEVATION OF UPSTREAM PROPERTY LINES.
9. SIDE SLOPES SHOULD BE 2:1 OR FLATTER.
10. TOP WIDTH SHOULD BE GREATER THAN 6 FEET.
11. EXTEND COMPLETELY ACROSS THE CHANNEL AND SECURELY TIE INTO BOTH CHANNEL BANKS.
12. REQUIRES PERIODIC INSPECTION AND MAINTENANCE.
13. SEDIMENT REMOVED WHEN IT REACHES ONE-HALF OF THE ORIGINAL DAM HEIGHT.



VIEW LOOKING UPSTREAM

NOTES:
1.) POINT 'A' MUST BE HIGHER THAN POINT 'B' (SPILLWAY HEIGHT)
2.)CHECK DAM MUST BE CONSTRUCTED USING WELL GRADED GRADATION STONE.
3.) USE 2" TO 3" RIP- RAP BLEND FOR CHECK DAM TO HAVE SMALL TO LARGE GROUPING. USE STRAW, ROCKS, OR FILTER FABRIC TO FILL ANY GAPS AND TAMP BACKFILL MATERIAL TO PREVENT EROSION OR FLOW AROUND THE DAM.
4.) SPILLWAY HEIGHT SHALL NOT EXEED 18"-24"
4.) INSPECT AFTER EACH SIGNIFICANT STORM, MAINTAIN AND REPAIR PROMPTLY.

RIP-RAP
CHECK DAM

MATERIAL SPECIFICATION: RIP-RAP; CLASS 1 STONE PER ARDOT 401. FILTER FABRIC: NON-WOVEN GEOTEXTILE (AASHTO M288 CLASS 2). BEDDING: 2-6 IN STONE OR NO.57/67 AGGREGATE. PLACE RIP-RAP TO FORM STABLE, INTERLOCKED DAM

EROSION CONTROL NOTES

SOD OR NO SEED DETENTION AREA POST-CONSTRUCTION (IF APPLICABLE)

MAXIMUM SLOPE OF 3H:1V ON DETENTION POND LEVEES

CONTRACTOR MUST HAVE INLET PROTECTION MEASURES INSTALLED IMMEDIATELY AFTER CONSTRUCTION OF DRAINAGE INLETS/STRUCTURES IS COMPLETE. SEDIMENT BARRIERS SHALL BE MAINTAINED THROUGHOUT AND INSPECTED THROUGHOUT CONSTRUCTION PROCESS UNTIL PROJECT IS COMPLETE

RIP RAP SEDIMENT BARRIERS SHALL BE USED AT ALL STORMWATER DISCHARGE POINTS SHOWN ON PLANS ASAP

CONTRACTOR SHOULD WORK WITH ENGINEER TO ESTABLISH EFFECTIVE AND EFFICIENT PLAN TO PREVENT SEDIMENT RUNOFF BY DETERMINING WHERE SILT FENCING OR OTHER TYPES OF CONTROLS ARE NECESSARY

SOME EROSION CONTROL MEASURES, SILT FENCING, OR CHECK DAMS MAY NOT BE NECESSARY DURING INITIAL ROW CLEARING BUT MAY BE NEEDED ONCE LOT CLEARING AND HOME BUILDING BEGINS

EXISTING VEGETATION THAT IS ESTABLISHED WILL BE PRESERVED.

AREAS INACTIVE >14 DAYS SHALL BE TEMPORARILY STABILIZED WITH TEMPORARY SEED, STRAW MULCH, HYDROMULCH, OR EROSION CONTROL BLANKET PER BRYANT SECTION 1100.

THE ECP IS SUBJECT TO CHANGE BASED UP ON CURRENT SITE CONDITIONS. ADDITIONAL MEASURE MAY BE NEEDED TO MITIGATE ILLICIT DISCHARGES OF SEDIMENT AND/OR DEBRIS FROM THE SITE.

ERC LEGEND

SITE POSTING

DISTURBED AREA

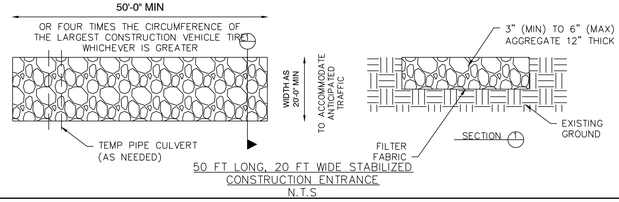
CONC. WASHOUT DETENTION AREA

WATER FLOW

SILT FENCE

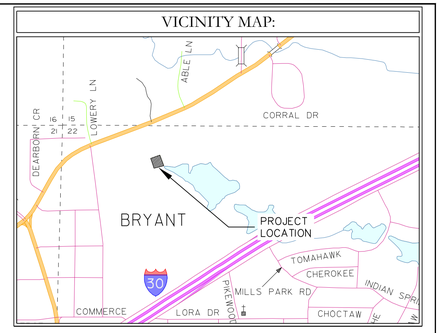
RIP RAP CHECK DAM

CONSTRUCTION ENTRANCE



50 FT LONG, 20 FT WIDE STABILIZED CONSTRUCTION ENTRANCE
N.T.S

VICINITY MAP:



SEQUENCE OF CONSTRUCTION PLAN

Step	Activity	ESC / Control Measures	Notes
1.	Install temporary ESC	Silt fence, construction entrance, riprap	Silt fence must be inspected weekly and after 0.5" rainfall. Damaged/failed fence will be replaced within 24-48 hrs. Fabric will be replaced when torn/deteriorated. Sediment will be removed at ½ height and maintained until final Stabilization.Additional silt fencing may be needed, or silt fencing may need to be relocated once the rough grading has been completed on the site (prior to the final grading.
2.	Site Clearing	Maintain temporary ESC, protect sensitive areas	Limit disturbance to only necessary areas
3.	Pond Construction	Temporary ESC continues	Cover disturbed areas not immediately worked
4.	Final Grading / Slope Stabilization	Temporary ESC still in place	Install permanent measures where needed
5.	Permanent Control Installation	Permanent pond structures, spillway, riprap, ditches	Remove temporary ESC only after permanent controls installed and stabilized
6.	Vegetation / Stabilization	Permanent seeding / sod	Stabilize slopes and disturbed areas as soon as possible
7.	Monitoring & Maintenance	Weekly inspections, repair damaged ESC measures	Follow SWPPP inspection schedule (every 7 days or after rain ≥0.5")
8.	Site Final Stabilization	Confirm 80% vegetative cover or equivalent permanent measures	Required before filing Notice of Termination (NOT)
9.	Project Completion / Termination	Remove temporary measures, submit NOT	Only after full stabilization

(Reference: Bryant Stormwater Management Manual,Sections 1104.4.1-1104.4.7)

INSPECTION & MAINTENANCE PLAN

1. Inspect all disturbed areas weekly and within 24 hours after any storm ≥0.5 inches.
2. Maintain in effective condition:
   - Vegetation
   - Erosion & sediment control measures
   - Other protective measures shown on the plan

(Ref: Bryant Stormwater Management Manual, Section 1104.4.7)

1. **PHASE 1 PLAN A:**

*INSTALL SILT FENCE AROUND PROJECT
*INSTALL CONSTRUCTION ENTRANCE
*MAINTAIN EXISTING DRAINAGE SWALE DURING INITIAL PHASE OF CONSTRUCTION

PHASE 2 PLAN B:

*INSTALL CONCRETE WASHOUT LOCATION
*INSTALL SILT FENCE AROUND CATCH BASINS
*INSTALL ROCK CHECK DAM AT PIPE OUTFALL
*MAINTAIN SILT FENCE AROUND PROJECT

PHASE 3 PLAN C:

*INSTALL SILT BARRIERS AROUND CATCH BASINS ON SITE
*SEED AND DISTURBED AREAS ON THE PROJECT ARE MAINTAINED BY SILT FENCE AROUND PROJECT UNTIL VEGETATION IS COMPLETELY ESTABLISHED.
*ANY DAMAGED BMP MEASURES SHALL BE REPLACED OR REPAIRED BEFORE THE NEXT RAIN EVENT, BUT NO LONGER THAN 3 BUSINESS DAYS FROM DATE OF DAMAGE.

HOPE CONSULTING
ENGINEERS - SURVEYORS
129 N. Main Street,
Benton, Arkansas
72015
PH. (501)315-2626
FAX (501) 315-0024
www.hopeconsulting.com

FOR USE AND BENEFIT OF:
CONSOLIDATED RESTAURANT OPERATIONS

LOCAL RESTAURANT
EROSION CONTROL PLAN: PHASE-1 PLAN A
A SUBDIVISION IN SALINE COUNTY, ARKANSAS

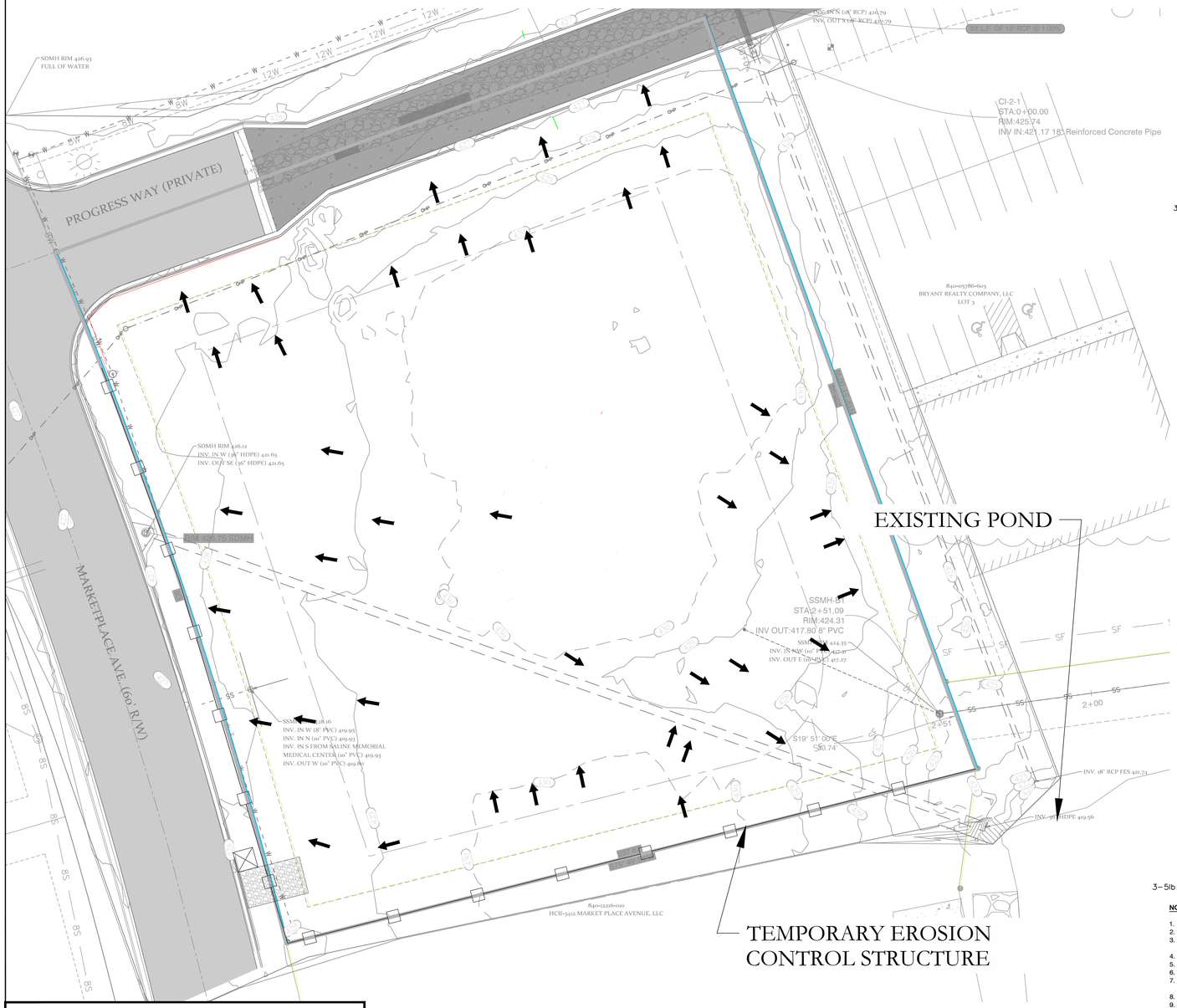
DATE:	10/21/2026	C.A.D. BY:	DRAWING NUMBER:
REVISED:	##	CHECKED BY:	26-0351
SHEET:	C-7.0	SCALE: 1" = 20"	

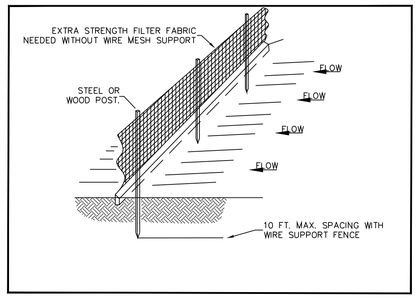
500	01S	14W	0	22	400	62	1573

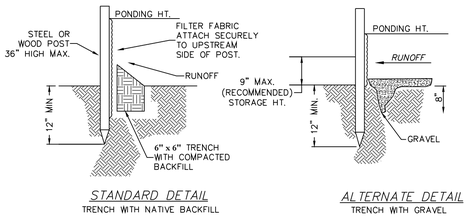
HDPE
RCP
HOPE CONSULTING, INC.
No. 1931
CERTIFICATE OF AUTHORIZATION
ARKANSAS

H:\SHARED\HOPECONSULTING\LAND PROJECTS 2026\COMMERCIAL\2026-26-0351\CIVIL\DWG\[YOUD-26-0352-DESIGN-9-29-2026_RECOVER.DWG

EROSION CONTROL PLAN
PHASE-2 PLAN B







STANDARD DETAIL
TRENCH WITH NATIVE BACKFILL

ALTERNATE DETAIL
TRENCH WITH GRAVEL

SILT FENCE MATERIAL: IT SHALL BE EXTRA STRENGTH SYNTHETIC FABRIC WITH WIRE BACK.
NOTE:
1.) INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.

2.) REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

3.) SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.

4.) IF THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER SHALL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.

5.) THE MAXIMUM ALLOWABLE SLOPE LENGTH IS LESS THAN 2% PER 100 FT ALLOWABLE LENGTH.

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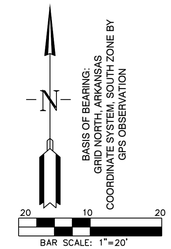
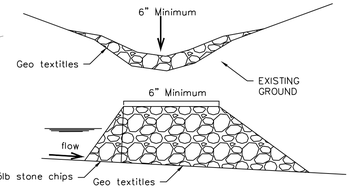
SILT FENCE





NOTES:
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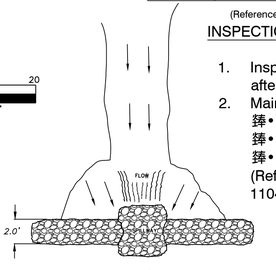
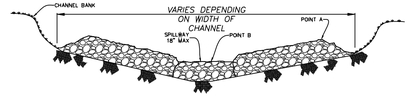


PLAN

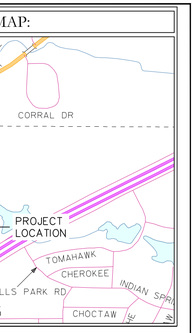


VIEW LOOKING UPSTREAM

NOTES:
1.) POINT 'A' MUST BE HIGHER THAN POINT 'B' (SPILLWAY HEIGHT)
2.)CHECK DAM MUST BE CONSTRUCTED USING WELL GRADED GRADATION STONE.
3.) USE STONE RIP- RAP BLENDED FROM LARGE TO SMALL FOR GOOD INTERLOCKING. USE STRAW, ROCKS, OR FILTER FABRIC TO FILL ANY GAPS AND TAMP BACKFILL MATERIAL TO PREVENT EROSION OR FLOW AROUND THE DAM.
3.) SPILLWAY HEIGHT SHALL NOT EXEED 18"-24".
4.) INSPECT AFTER EACH SIGNIFICANT STORM, MAINTAIN AND REPAIR PROMPTLY.

RIP-RAP CHECK DAM

MATERIAL SPECIFICATION: RIP-RAP; CLASS 1 STONE PER ARDOT 401. FILTER FABRIC: NON-WOVEN GEOTEXTILE (AASHTO M288 CLASS 2). BEDDING: 2-6 IN STONE OR NO.57/67 AGGREGATE. PLACE RIP-RAP TO FORM STABLE, INTERLOCKED DAM



SEQUENCE OF CONSTRUCTION PLAN

Step	Activity	ESC / Control Measures	Notes
1.	Install temporary ESC	Silt fence, construction entrance, riprap	Silt fence must be inspected weekly and after 0.5" rainfall. Damaged/failed fence will be replaced within 24-48 hrs. Fabric will be replaced when torn/deteriorated. Sediment will be removed at ½ height and maintained until final Stabilization.Additional silt fencing may be needed, or silt fencing may need to be relocated once the rough grading has been completed on the site (prior to the final grading.
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3.	Pond Construction	Temporary ESC continues	Cover disturbed areas not immediately worked
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(Reference: Bryant Stormwater Management Manual,Sections 1104.4.1-1104.4.7)

INSPECTION & MAINTENANCE PLAN

1. Inspect all disturbed areas weekly and within 24 hours after any storm ≥0.5 inches.
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   - Other protective measures shown on the plan

(Ref: Bryant Stormwater Management Manual, Section 1104.4.7)

1. **PHASE 1 PLAN A:**

*INSTALL SILT FENCE AROUND PROJECT
*INSTALL CONSTRUCTION ENTRANCE
*MAINTAIN EXISTING DRAINAGE SWALE DURING INITIAL PHASE OF CONSTRUCTION

PHASE 2 PLAN B:

*INSTALL CONCRETE WASHOUT LOCATION
*INSTALL SILT FENCE AROUND CATCH BASINS
*INSTALL ROCK CHECK DAM AT PIPE OUTFALL
*MAINTAIN SILT FENCE AROUND PROJECT

PHASE 3 PLAN C:

*INSTALL SILT BARRIERS AROUND CATCH BASINS ON SITE
*SEED AND DISTURBED AREAS ON THE PROJECT ARE MAINTAINED BY SILT FENCE AROUND PROJECT UNTIL VEGETATION IS COMPLETELY ESTABLISHED.
*ANY DAMAGED BMP MEASURES SHALL BE REPLACED OR REPAIRED BEFORE THE NEW RAIN EVENT, BUT NO LONGER THAN 3 BUSINESS DAYS FROM DATE OF DAMAGE.

EROSION CONTROL NOTES

SOD OR NO SEED DETENTION AREA POST-CONSTRUCTION (IF APPLICABLE)

MAXIMUM SLOPE OF 3H:1V ON DETENTION POND LEVEES

CONTRACTOR MUST HAVE INLET PROTECTION MEASURES INSTALLED IMMEDIATELY AFTER CONSTRUCTION OF DRAINAGE INLETS/STRUCTURES IS COMPLETE. SEDIMENT BARRIERS SHALL BE MAINTAINED THROUGHOUT AND INSPECTED THROUGHOUT CONSTRUCTION PROCESS UNTIL PROJECT IS COMPLETE

RIP RAP SEDIMENT BARRIERS SHALL BE USED AT ALL STORMWATER DISCHARGE POINTS SHOWN ON PLANS ASAP

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THE ECP IS SUBJECT TO CHANGE BASED UP ON CURRENT SITE CONDITIONS. ADDITIONAL MEASURE MAY BE NEEDED TO MITIGATE ILLICIT DISCHARGES OF SEDIMENT AND/OR DEBRIS FROM THE SITE.

ERC LEGEND

SITE POSTING

DISTURBED AREA

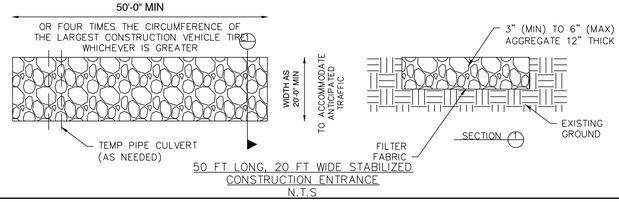
CONC. WASHOUT DETENTION AREA

WATER FLOW

SILT FENCE

RIP RAP CHECK DAM

CONSTRUCTION ENTRANCE



50 FT LONG, 20 FT WIDE STABILIZED CONSTRUCTION ENTRANCE
N.T.S

CERTIFICATE OF AUTHORIZATION — HOPE CONSULTING, INC. — No. 1931 — ARKANSAS

HOPE CONSULTING
ENGINEERS - SURVEYORS
129 N. Main Street,
Benton, Arkansas
72015
PH. (501)315-2626
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FOR USE AND BENEFIT OF:
CONSOLIDATED RESTAURANT OPERATIONS

LOCAL RESTAURANT
EROSION CONTROL PLAN: PHASE-2 PLAN B
A SUBDIVISION IN SALINE COUNTY, ARKANSAS

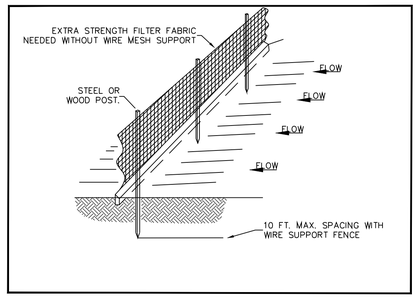
DATE:	10/21/2026	C.A.D. BY:	DRAWING NUMBER: 26-0351
REVISED:	##	CHECKED BY:	
SHEET:	C-7.1	SCALE: 1" = 20"	

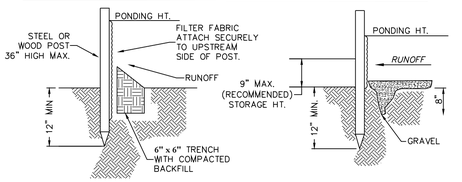
500	01S	14W	0	22	400	62	1573

H:\SHARED\HOPECONSULTING\LAND PROJECTS 2026\COMMERCIAL\2026-26-0351\CIVIL\DWG\VOID-26-0352-DESIGN-9-29-2026_RECOVER.DWG

EROSION CONTROL PLAN
PHASE-1 PLAN A







SILT FENCE MATERIAL: IT SHALL BE EXTRA STRENGTH SYNTHETIC FABRIC WITH WIRE BACK.
NOTE:
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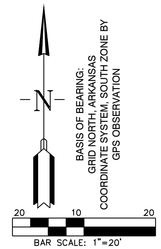
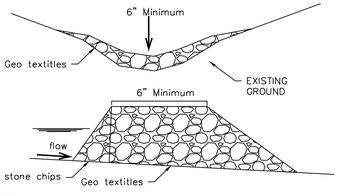
8.)NO STOCKPILES ARE PLANNED.

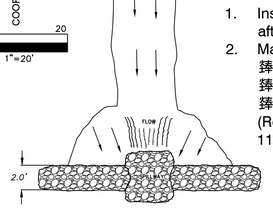
9.)SILT FENCE INSTALLATION AND MAINTENANCE SHALL COMPLY WITH SECTION 1100.5 (BRYANT), INCLUDING TRENCHING, BACKFILL, POST SPACING, AND INSPECTION REQUIREMENTS.

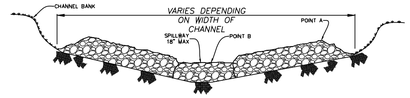
10.)INSPECT WEEKLY AND AFTER 0.5"RAINFALL. REPLACE DAMAGED/FAILED FENCE WITHIN 24-48 HRS. REPLACE FABRIC WHEN TORN/DETERIORATED. REMOVE SEDIMENT AT ½ HEIGHT. MAINTAIN UNTIL FINAL STABILIZATION.

SILT FENCE









NOTES:
1. FOR USE IN SMALL CHANNELS WITH DRAINAGE AREAS OF 50 ACRES OR LESS
2. MUST BE USED IN CONJUNCTION WITH OTHER APPROPRIATE SEDIMENT CONTROL MEASURES.
3. USE BELOW CULVERT INSTALLATIONS, DAM CONSTRUCTION, OR ANY PROJECT THAT MAY INVOLVE GRADING ACTIVITY DIRECTLY IN A STREAM.
4. NOT INTENDED TO SUBSTANTIALLY IMPOUND WATER.
5. USE AT THE UPSTREAM END OF PONDS OR LAKES.
6. EDGES SHOULD NOT BE HIGHER THAN THE CHANNEL BANKS.
7. CENTER SHOULD BE AT LEAST 6 INCHES LOWER THAN THE OUTER EDGES OF THE DAM AT THE CHANNEL BANKS.
8. HEIGHT SHOULD NOT EXCEED ELEVATION OF UPSTREAM PROPERTY LINES.
9. SIDE SLOPES SHOULD BE 2:1 OR FLATTER.
10. TOP WIDTH SHOULD BE GREATER THAN 6 FEET.
11. EXTEND COMPLETELY ACROSS THE CHANNEL AND SECURELY TIE INTO BOTH CHANNEL BANKS.
12. REQUIRES PERIODIC INSPECTION AND MAINTENANCE.
13. SEDIMENT REMOVED WHEN IT REACHES ONE-HALF OF THE ORIGINAL DAM HEIGHT.

NOTES:
1.) POINT 'A' MUST BE HIGHER THAN POINT 'B' (SPILLWAY HEIGHT)
2.)CHECK DAM MAY BE CONSTRUCTED USING RIP-RAP, SMALLER GRADATION STONE, OR SANDBAGS. RIP- RAP SHOULD BE USED FOR LARGER CHANNELS OF THIS GRADE. USE STRAW, ROCKS, OR FILTER FABRIC TO FILL ANY GAPS AND TAMP BACKFILL MATERIAL TO PREVENT EROSION OR FLOW AROUND THE DAM.
3.) SPILLWAY HEIGHT SHALL NOT EXCEED 18"-24".
4.) INSPECT AFTER EACH SIGNIFICANT STORM, MAINTAIN AND REPAIR PROMPTLY.

RIP-RAP CHECK DAM

MATERIAL SPECIFICATION: RIP-RAP; CLASS 1 STONE PER ARDOT 401. FILTER FABRIC: NON-WOVEN GEOTEXTILE (AASHTO M288 CLASS 2). BEDDING: 2-6 IN STONE OR NO.57/67 AGGREGATE. PLACE RIP-RAP TO FORM STABLE, INTERLOCKED DAM

EROSION CONTROL NOTES

SOD OR NO SEED DETENTION AREA POST-CONSTRUCTION (IF APPLICABLE)

MAXIMUM SLOPE OF 3H:1V ON DETENTION POND LEVEES

CONTRACTOR MUST HAVE INLET PROTECTION MEASURES INSTALLED IMMEDIATELY AFTER CONSTRUCTION OF DRAINAGE INLETS/STRUCTURES IS COMPLETE. SEDIMENT BARRIERS SHALL BE MAINTAINED THROUGHOUT AND INSPECTED THROUGHOUT CONSTRUCTION PROCESS UNTIL PROJECT IS COMPLETE

RIP RAP SEDIMENT BARRIERS SHALL BE USED AT ALL STORMWATER DISCHARGE POINTS SHOWN ON PLANS ASAP

CONTRACTOR SHOULD WORK WITH ENGINEER TO ESTABLISH EFFECTIVE AND EFFICIENT PLAN TO PREVENT SEDIMENT RUNOFF BY DETERMINING WHERE SILT FENCING OR OTHER TYPES OF CONTROLS ARE NECESSARY

SOME EROSION CONTROL MEASURES, SILT FENCING, OR CHECK DAMS MAY NOT BE NECESSARY DURING INITIAL ROW CLEARING BUT MAY BE NEEDED ONCE LOT CLEARING AND HOME BUILDING BEGINS

EXISTING VEGETATION THAT IS ESTABLISHED WILL BE PRESERVED.

AREAS INACTIVE >14 DAYS SHALL BE TEMPORARILY STABILIZED WITH TEMPORARY SEED, STRAW MULCH, HYDROMULCH, OR EROSION CONTROL BLANKET PER BRYANT SECTION 1100.

THE ECP IS SUBJECT TO CHANGE BASED UP ON CURRENT SITE CONDITIONS. ADDITIONAL MEASURE MAY BE NEEDED TO MITIGATE ILLICIT DISCHARGES OF SEDIMENT AND/OR DEBRIS FROM THE SITE.

ERC LEGEND

SITE POSTING

DISTURBED AREA

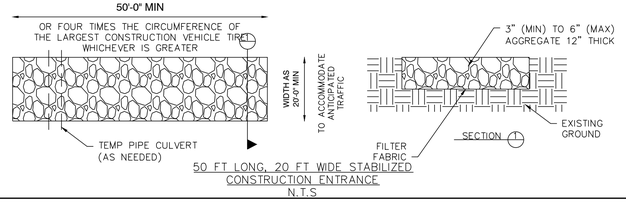
CONC. WASHOUT DETENTION AREA

WATER FLOW

SILT FENCE

RIP RAP CHECK DAM

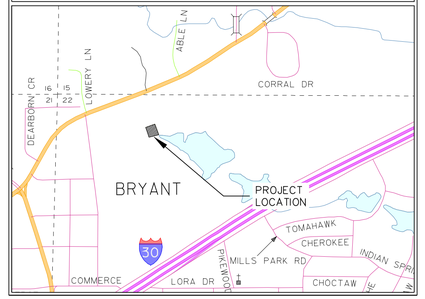
CONSTRUCTION ENTRANCE



HDPE

RCP

VICINITY MAP:



SEQUENCE OF CONSTRUCTION PLAN

Step	Activity	ESC / Control Measures	Notes
1.	Install temporary ESC	Silt fence, construction entrance, riprap	Silt fence must be inspected weekly and after 0.5" rainfall. Damaged/failed fence will be replaced within 24-48 hrs. Fabric will be replaced when torn/deteriorated. Sediment will be removed at ½ height and maintained until final Stabilization.Additional silt fencing may be needed, or silt fencing may need to be relocated once the rough grading has been completed on the site (prior to the final grading.
2.	Site Clearing	Maintain temporary ESC, protect sensitive areas	Limit disturbance to only necessary areas
3.	Pond Construction	Temporary ESC continues	Cover disturbed areas not immediately worked
4.	Final Grading / Slope Stabilization	Temporary ESC still in place	Install permanent measures where needed
5.	Permanent Control Installation	Permanent pond structures, spillway, riprap, ditches	Remove temporary ESC only after permanent controls installed and stabilized
6.	Vegetation / Stabilization	Permanent seeding / sod	Stabilize slopes and disturbed areas as soon as possible
7.	Monitoring & Maintenance	Weekly inspections, repair damaged ESC measures	Follow SWPPP inspection schedule (every 7 days or after rain ≥0.5")
8.	Site Final Stabilization	Confirm 80% vegetative cover or equivalent permanent measures	Required before filing Notice of Termination (NOT)
9.	Project Completion / Termination	Remove temporary measures, submit NOT	Only after full stabilization

(Reference: Bryant Stormwater Management Manual,Sections 1104.4.1-1104.4.7)

INSPECTION & MAINTENANCE PLAN

1. Inspect all disturbed areas weekly and within 24 hours after any storm ≥0.5 inches.
2. Maintain in effective condition:
   - Vegetation
   - Erosion & sediment control measures
   - Other protective measures shown on the plan

(Ref: Bryant Stormwater Management Manual, Section 1104.4.7)

1. **PHASE 1 PLAN A:**

*INSTALL SILT FENCE AROUND PROJECT
*INSTALL CONSTRUCTION ENTRANCE
*MAINTAIN EXISTING DRAINAGE SWALE DURING INITIAL PHASE OF CONSTRUCTION

PHASE 2 PLAN B:

*INSTALL CONCRETE WASHOUT LOCATION
*INSTALL SILT FENCE AROUND CATCH BASINS
*INSTALL ROCK CHECK DAM AT PIPE OUTFALL
*MAINTAIN SILT FENCE AROUND PROJECT

PHASE 3 PLAN C:

*INSTALL SILT BARRIERS AROUND CATCH BASINS ON SITE
*SEED AND DISTURBED AREAS ON THE PROJECT ARE MAINTAINED BY SILT FENCE AROUND PROJECT UNTIL VEGETATION IS COMPLETELY ESTABLISHED.
*ANY DAMAGED BMP MEASURES SHALL BE REPLACED OR REPAIRED BEFORE THE NEXT RAIN EVENT, BUT NO LONGER THAN 3 BUSINESS DAYS FROM DATE OF DAMAGE.

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FOR USE AND BENEFIT OF:
CONSOLIDATED RESTAURANT OPERATIONS

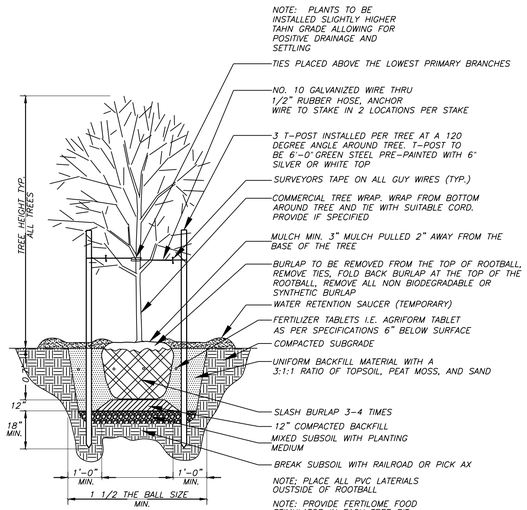
LOCAL RESTAURANT
EROSION CONTROL PLAN: PHASE-3 PLAN C
A SUBDIVISION IN SALINE COUNTY, ARKANSAS

DATE:	10/21/2026	C.A.D. BY:	DRAWING NUMBER:
REVISED:	##	CHECKED BY:	26-0351
SHEET:	C-7.2	SCALE: 1" = 20"	

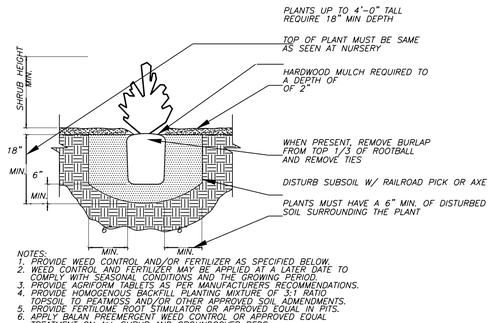
500	01S	14W	0	22	400	62	1573

CERTIFICATE OF AUTHORIZATION — HOPE CONSULTING, INC. — No. 1931 — ARKANSAS

H:\SHARED\HOPECONSULTING\LAND PROJECTS 2026\COMMERCIAL\2026-26-0351\CIVIL\DWG\VOID-26-0352-DESIGN-9-29-2026_RECOVER.DWG



1 TREE PLANTING DETAIL
No Scale



NOTES:
1. PROVIDE WEED CONTROL AND/OR FERTILIZER AS SPECIFIED BELOW.
2. WEED CONTROL AND FERTILIZER MAY BE APPLIED AT A LATER DATE TO COMPLY WITH SEASONAL CONDITIONS AND THE GROWING PERIOD.
3. PROVIDE AGRIFORM TABLETS AS PER MANUFACTURERS RECOMMENDATIONS.
4. PROVIDE HOMOGENOUS BACKFILL PLANTING MIXTURE OF 3:1 RATIO TOPSOIL TO PEATMOSS AND/OR OTHER APPROVED SOIL ADMENDMENTS.
5. PROVIDE FERTILOME ROOT STIMULATOR OR APPROVED EQUAL IN PITS.
6. APPLY BALAN PREEMERGENT WEED CONTROL OR APPROVED EQUAL TREATMENT ON ALL SHRUB AND GROUNDCOVER BEDS.

2 SHRUB PLANTING DETAIL
NTS

GENERAL NOTES:

NO PLANTING WITHIN 5 FEET OF A FIRE HYDRANT.

SPACING WILL BE 40' BETWEEN TREES.

TREE MUST BE A MINIMUM 3" IN DIAMETER @ THE BASE AND 12'+ TALL.

EXISTING TREES MEETING THE MINIMUM SIZE CAN BE COUNTED TO MEET THE CRITERIA.

NO TREES CAN BE PLANTED WITHIN THIRTY-FOOT (30') OF A PROPERTY COMER OR DRIVEWAY.

SHRUBS ALONG STREET FIGHT-OF-WAY LINES CANNOT EXCEED THIRTY INCHES (30") IN HEIGHT.

SEPARATIONS NOTED IN THE ZONING REGULATIONS MUST BE BERMED OR SCREENED WITH LANDSCAPING AND GROUND COVER OR GRASS.

MAINTENANCE:

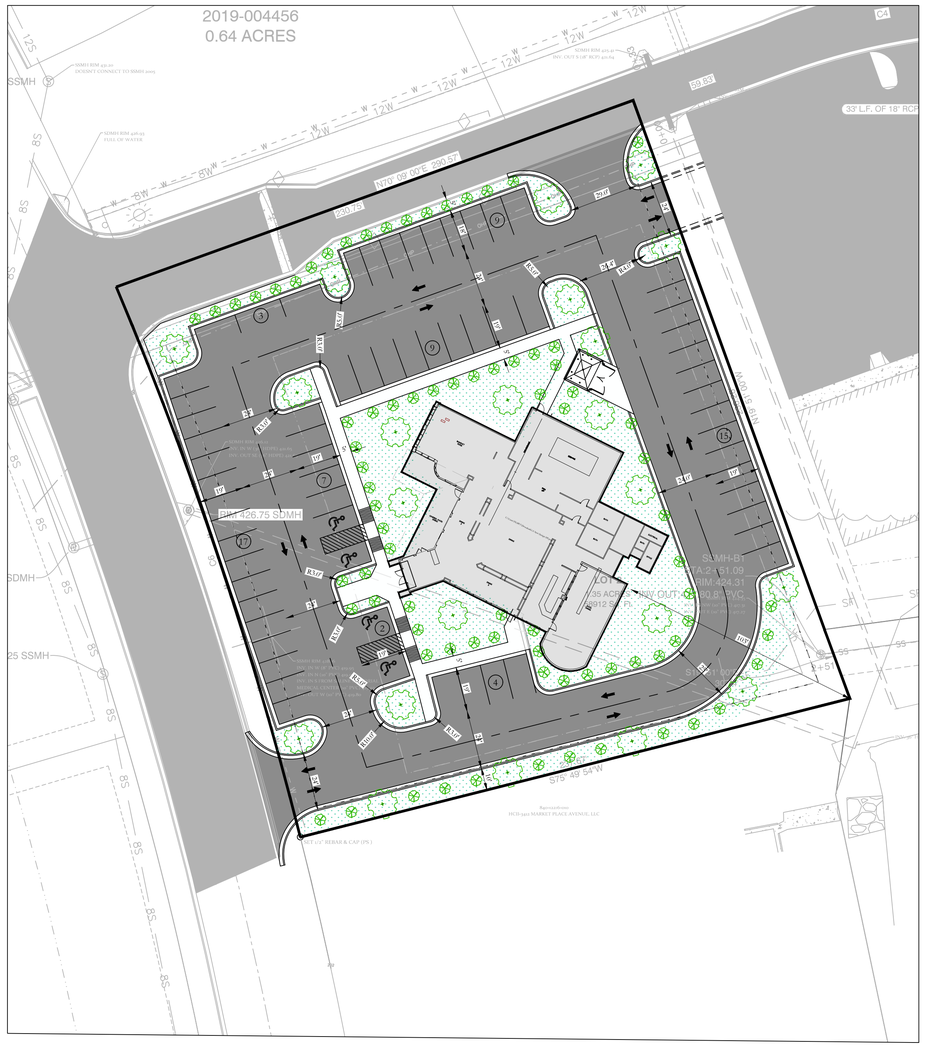
THE DEVELOPER, HIS SUCCESSOR AND THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR REGULAR WEEDING, IRRIGATING, FERTILIZING, PRUNING AND OTHER MAINTENANCE OF ALL PLANTING ON PRIVATE PROPERTY OF A DEVELOPMENT. PLANT MATERIALS WHICH ARE INSTALLED FOR COMPLIANCE WITH THIS ORDINANCE, BOTH ON PRIVATE PROPERTY AND THE PUBLIC RIGHT-OF-WAY, WHICH EXHIBIT EVIDENCE OF INSECT PESTS, DISEASE AND/OR DAMAGE, SHALL BE APPROPRIATELY TREATED AND DEAD PLANT MATERIALS SHALL BEREPLACED.

THE OWNER OF LAND ABUTTING A CONSTRUCTED PUBLIC RIGHT-OF-WAY SHALL BE RESPONSIBLE FOR THE TREE PLANTING STRIP LYING BETWEEN THE PRIVATE PROPERTY LINE AND THE CURBLINE OR BACKSLOPE LINE AND SHALL BE REQUIRED TO REGULARLY WEED, MOW, PRUNE AND MAINTAIN PLANTINGS IN COMPLIANCE WITH GOOD HORTICULTURAL PRACTICES.

IF THE OWNER OF LAND THUS SITUATED AS IN ABOVE, NEGLECTS OR REFUSES TO MAINTAIN THE AREAS AS PROSCRIBED, AFTER HAVING BEEN GIVEN TEN (10) DAYS NOTICE IN WRITING TO MAINTAIN BY THE CITY, THE OWNER SHALL BE GUILTY OF A MISDEMEANOR.

THE CITY OF BRYANT PLANNING COMMISSION WILL REVIEW AND ACT ON ALL LANDSCAPING PROPOSALS AT THE TIME BUILDING PLANS ARE SUBMITTED AND IN THE CASE OF SUBDIVISION AT THE PRELIMINARY PLAT SUBMITTAL.

A CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED FOR A COMMERCIAL ESTABLISHMENT NOR WILL THE FINAL SUBDIVISION PLAT BE APPROVED UNTIL LANDSCAPING REQUIREMENTS ARE SATISFIED.



TREE LEGENDS

TREE TYPES:	TREE SPECIES:	HEIGHT AT PLANTING:	QTY.:
SHURBS			
EVERGREEN HOLLIES –	ILEX SPECIES		35
NANDINA –	NANDINA DOMESTICA		35
TREES			
AMERICAN HOLLY –	ILEX OPACA	12'-0"	07
SOUTHERN MAGNOLIA –	MONGNOLIA GRANDIFLORA	12'-0"	22
SOD (INCLUDES MULCH BEDS)	BERMUDA		
MULCH BEDS (OPTIONAL)	PLANTER/FLOWER BED		
P.L.S.	PLANTER/FLOWER BED		

LANDSCAPE CALCULATION:	
GREEN SPACE	TOTAL DEVELOPMENT AREA: 55,309 SF GREEN SPACE: 12,570 SF (12,570 / 55,309 = 0.2272=22.72%)
LANDSCAPE (REQUIRED)	TREE REQUIRED FOR EACH ½ ACRE (55,309 SF OR 1.27 AC/0.5 = 2.54=3) SHRUB REQUIRED FOR EACH 2,000 SF OF TOTAL LAND AREA FOR DEVELOPMENT (55,309 SF /2000 SF =27.65 =28)
LANDSCAPE (PROVIDED)	TREE PROVIDED = 22 TREES. SHRUB PROVIDED = 77

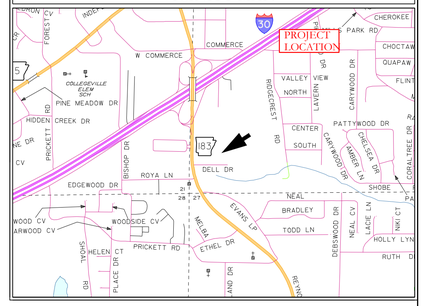
STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
NO. 20876
KAZI TAMZIDUL ISLAM

CERTIFICATE OF AUTHORIZATION
HOPE CONSULTING, INC.
No. 1931
ARKANSAS

BASIS OF BEARING:
GRID NORTH, ARKANSAS
COORDINATE SYSTEM, SOUTH ZONE
BY GPS OBSERVATION

30' 15' 0 30'

VICINITY MAP:



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

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FOR USE AND BENEFIT OF:
CONSOLIDATED RESTAURANT OPERATIONS

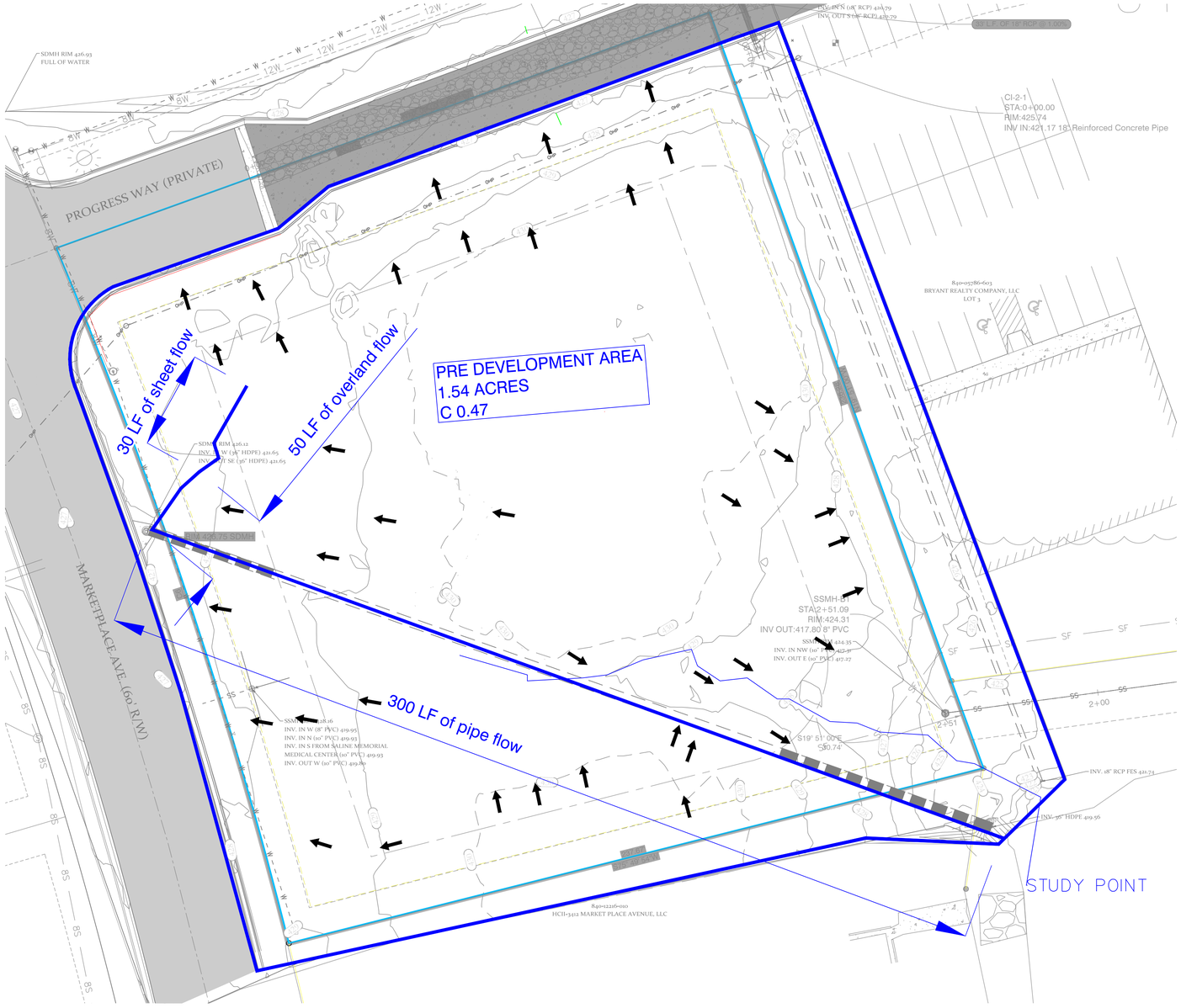
LOCAL RESTAURANT
LANDSCAPE PLAN
MARKET PLACE, BRYANT, SALINE COUNTY, ARKANSAS

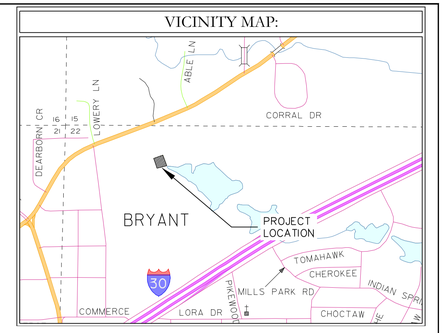
DATE:	10/26/2026	C.A.D. BY:	DRAWING NUMBER:
REVISED:	--	CHECKED BY:	26-0351
SHEET:	C-8.0	SCALE:	1" = 30"

500	01S	14W	0	22	330	62	1664

H:\SHARED\HOPECONSULTING\LAND PROJECTS 2026\COMMERCIAL\2026\26-0351\CIVIL\DWG\[VOID-26-0351-SITE PLAN-10-15-2026.DWG]

PRE DEVELOPMENT DRAINAGE AREA





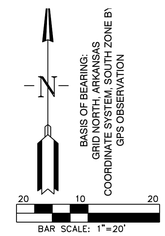
PRE DEVELOPMENT TOC:

Time of Concentration, tc (min)

Area (ft2)	67285.2						
Area (Acre)	*1.54*						
Total Length, L (ft)	***380.0***						
Change in Elevation (ft)	5						
Slope, S (ft/ft)	*0.013*						
N (Coeff. Of roughness, Table 400-3)	0.200						
L_i (overland/sheet flow, ft)	30.0						
L_{scs}(shallow concentrated, ft)	50.0	Velocity, V (ft/sec)	Length, L (ft)	Height, h (ft)	Slope, S (ft/ft)	Mannings, n	Hydraulic Radius, R
L_{cs} (channel , ft)	300.0						
$t_i = 0.83\frac{(N\,L_i)^{0.467}}{S^{0.5}}$, (min)	*4.99*		30.0	0.5	*0.017*		
$t_{scs} = \frac{L_{scs}}{60\,V}$, (min) , paved							
V=20.3282(S^0.5)	*0.29*	*2.87*	50.0	1.0	*0.020*		
$t_{cs} = \frac{L_{cs}}{60\,V}$, (min)							
$V = \frac{1.49}{n} R^{\frac{2}{3}} S^{\frac{1}{2}}$ Channel flow-1	*0.72*	*6.90*	300.0	8.0	*0.027*	0.015	*0.278*
Total time of concentration, tc (min)	**6.00**						
USE	**6**						

PRE DEVELOPMENT RUNOFF COEFFICIENT

	Area (acer)	C 100 year	Corrected C 100 year
PRE DEV. AREA-1	1.54	0.47	0.73
PRE DEV. AREA-2	0	0.00	0
Tot =	1.54		0.47



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FOR USE AND BENEFIT OF:
CONSOLIDATED RESTAURANT OPERATIONS

LOCAL RESTAURANT
PRE DEVELOPMENT DRAINAGE AREA
A SUBDIVISION IN SALINE COUNTY, ARKANSAS

DATE:	10/21/2026	C.A.D. BY:				DRAWING NUMBER:	
REVISED:	##	CHECKED BY:				26-0351	
SHEET:	C-9.0	SCALE:	1" = 20"				
500	01S	14W	0	22	400	62	1573

CERTIFICATE OF AUTHORIZATION
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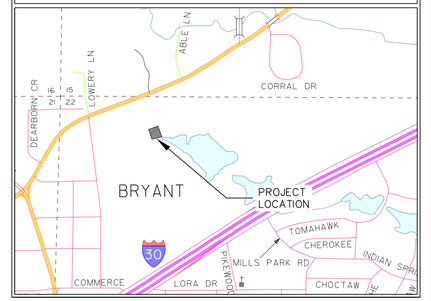
ARKANSAS

H:\SHARED\HOPECONSULTING\LAND PROJECTS 2026\COMMERCIAL\2026-26-0351\CIVIL\DWG\VOID 26-0352 DESIGN-9-29-2026_RECOVERED.DWG

POST DEVELOPMENT AREA



VICINITY MAP:



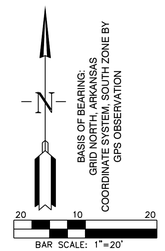
POST DEVELOPMENT TOC:

Time of Concentration, tc (min)

Area (ft2)	67285.2						
Area (Acre)-Total	*1.54*						
Total Length, L (ft)	***437.0***						
Change in Elevation (ft)	5						
Slope, S (ft/ft)	*0.011*						
N (Coeff. Of roughness, Table 400-3)	0.100						
L_i (overland/sheet flow, ft)	*20.0*						
L_{scs}(shallow concentrated, ft)	*50.0*	Velocity, V	Length,	Height,	Slope,	Mannings,	Hydraulic
L_{cs} (channel , ft)	367.0	(ft/sec)	L (ft)	h (ft)	S (ft/ft)	n	Radius, R
$t_i = 0.83\frac{(N\,L_i)^{0.467}}{S^{0.5}}$, (min)	*2.71*		20.0	0.5	*0.025*		
$t_{scs} = \frac{L_{scs}}{60\,V}$, (min) , paved							
V=20.3282(S^0.5)	*0.41*	*2.03*	50.0	0.5	*0.010*		
$t_{cs} = \frac{L_{cs}}{60\,V}$, (min)							
$V = \frac{1.49}{n} R^{\frac{2}{3}} S^{\frac{1}{2}}$ Pipe flow	*1.52*	*4.02*	367.0	3.0	*0.008*	0.015	*0.300*
Total time of concentration, tc (min)	**4.64**						
USE	**5**						

POST DEVELOPMENT RUNOFF COEFFICIENT

	Area (acer)	C 100 year	Corrected C 100 year
POST DEV. AREA-1	1.26	0.9	1.14
POST DEV. AREA-2	0.28	0.47	0.13
Tot =	1.54		0.82



HDPE

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FOR USE AND BENEFIT OF:
CONSOLIDATED RESTAURANT OPERATIONS

LOCAL RESTAURANT
POST DEVELOPMENT AREA
A SUBDIVISION IN SALINE COUNTY, ARKANSAS

DATE:	10/21/2026	C.A.D. BY:		DRAWING NUMBER:	26-0351
REVISED:	##	CHECKED BY:			
SHEET:	C-9.1	SCALE:	1" = 20"		

500	01S	14W	0	22	400	62	1573

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Pipe Capacity Check fpr 36"

Composite Runoff Coefficient				
	Area (ac)	100 year, C		**100 year**
	0.00	0		0.00
	0.00	0		0.00
WATERSHED A	24.25	0.9		21.83
Tot A =	1.25		Com. C =	**17.46**

TIME OF CONCENTRATION (min) 5.00

Design Peak Flow				
Period of Time	Intensity, I (in/hr)	Composite Runoff	Toal Area, A (ac)	**Discharge, Q = CIA (cfs)**
2 yr	5.50	**0.82**	**1.25**	**5.64**
5 yr	7.30			**7.48**
10yr	8.30			**8.51**
25 yr	9.50			**9.74**
50 yr	10.40			**10.66**
100 yr	11.30			**11.58**

Pipe Capacity Check

Pipe Dia (in) ***36*** ADEQUATE
Total Length, L (ft) ***100.0***
Total Change in Elevation (ft) 5.0
Slope, S (ft/ft) *0.0500*
Target Discharge, Q (ft^3/s) ***11.6***

$$Q = V\,A$$

$$V = \frac{1.49}{n} R^{\frac{2}{3}} S^{\frac{1}{2}}$$

		Pipe Dimenstion									
	Discharge Capacity, Q (cfs)	Velocity, V (ft/sec)	Pipe Dia, (ft)	Area, A (ft^2)	Flow Depth, y (ft)	Length, L (ft)	Elevation, h (ft)	Slope, S (ft/ft)	Mannings, n	Wetted Perimeter, P	Hydraulic Radius, R
100%	*216.01*	*30.56*	**3.00**	*7.07*	*3.00*	100.0	5.0	*0.0500*	0.009	9.425	*0.750*
75%	*196.97*	*34.64*		*5.69*	*2.25*					6.283	*0.905*
50%	*108.00*	*30.56*		*3.53*	*1.50*					4.712	*0.750*
25%	*29.59*	*21.41*		*1.38*	*0.75*					3.142	*0.440*

Planning & Development
210 SW 3rd Street, Bryant, AR 72022
501-943-0943 | comdev@cityofbryant.com

Conditional Use Permit Application

Applicants are advised to read the Conditional Use Permit section of Bryant Zoning Code prior to completing and signing this form. The Zoning Code is available at www.BryantAR.gov under the Planning and Development tab.

Date: 10/22/24

Project Location:

Property Address: 302 Ethel Drive, Bryant, AR 72022 (Lot 2, Big Oaks Addition)

Parcel Number(s): 840-01251-000 Zoning Classification: R-M

Applicant or Designee:

Name: Jonathan Hope - Hope Consulting, Inc.

Address: 129 N. Main St, Benton, AR 72015

Phone: 501-860-0467 Email Address: jonathan@hopeconsulting.com

Property Owner (If different from Applicant):

Name: John & Danita Hunter

Address: 726 Woody Drive, Alexander, AR 72002

Phone: _____ Email Address: _____

Additional Information:

Subdivision Lot and Block Number or Legal Description (Attach description if necessary)

Lot 2, Big Oaks Addition

Current Use of Property Vacant Land

Description of Conditional Use Request / Proposed Use of Property (Attach any necessary drawings or images)

Proposed Duplex

Application Checklist

Requirements for Submission

- ☐ Completed Conditional Use Application (Not required if submitting through online portal.)
- ☐ Letter stating request of Conditional Use and reasoning for request
- ☐ Submit Conditional Use Permit Application Fee ($125)
- ☐ Submit Copy of completed Public Notice [Attachment 1]
- ☐ Submit one (1) copy of the Development Plan (Site Plan) showing:
  - Location, size, and use of buildings/signs/land or improvements
  - Location, size, and arrangement of driveways and parking. Ingress/Egress
  - Existing topography and proposed grading
  - Proposed and existing lighting
  - Proposed landscaping and screening
  - Use of adjacent properties
  - Scale, North Arrow, Vicinity Map
  - Additional information that may be requested by the administrative official due to unique conditions of the site.
- ☐ Public Notice Requirements: **NOTE: Failure to provide notice in the following manners shall require delay of the public hearing until notice has been properly made.**
  - Publication: Public Notice shall be published at least one (1) time **fifteen (15) days prior to the public hearing** at which the conditional use request will be heard. A copy of the public notice is provided with the application. [Attachment 1] Once published, the proof of publication must be provided to the Planning and Development office.
  - Posting of Property: The city shall provide a sign to post on the property involved for the **fifteen (15) consecutive days leading up to the public hearing.** One (1) sign is required for every two hundred (200) feet of street frontage.

Once the application is received, the material will be reviewed to make sure all the required information is provided. The applicant will be notified if additional information is required. The application will then go before the Development and Review Committee (DRC) for a recommendation to the Planning Commission. A public hearing will be held at this meeting for comments on the Conditional Use. After the public hearing, the Planning Commission will make a decision on the use.

READ CAREFULLY BEFORE SIGNING

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

NOTICE

Notice is hereby given that a hearing will be held by the Planning Commission of the City of Bryant, AR on the 16th day of November at 6:00 pm. This is located at Boswell Municipal Complex – Bryant City Hall at 210 SW Third Street, Bryant, AR 72022. This will be for the petition of RJ Hawk for a Conditional Use Permit for the property described below:

302 Ethel Drive, Bryant, AR 72022

LEGAL DESCRIPTION:

Lot 2, Big Oaks Addition, Saline County, Arkansas

Please contact Hope Consulting, Inc., 129 N. Main Street, City of Benton, Saline County, Arkansas. 501-315-2626 with questions.

HOPE CONSULTING

129 North Main Street, Benton, Arkansas 72015
(t) 501-315-2626 (e) www.HopeConsulting.com

September 9, 2026

Colton Leonard
Planning & Development
210 SW Third Street
Bryant, AR 72022

Re: Conditional Use Permit Application — 302 Ethel Drive, Bryant, AR 72022 (Lot 2, Big Oaks Addition)

Dear Mr. Leonard:

On behalf of RJ Hawk, who is under contract to purchase the property located at 302 Ethel Drive (Lot 2, Big Oaks Addition) from its current owners, John and Danita Hunter, Hope Consulting respectfully requests approval of a Conditional Use Permit to allow a two-family dwelling (duplex) on the property. The property is zoned R-M, which by right permits single-family dwellings and manufactured homes. Under Section 5.2 of the City of Bryant zoning ordinance, however, a two-family dwelling in the R-M district is permitted only as a conditional use. A Conditional Use Permit is therefore required before construction can proceed.

Enclosed for the City's review are the completed Conditional Use Permit application, the filing fee, and the required site plan. We respectfully request that this matter be placed on the agenda for the DRC meeting being held on November 16, 2026 and we are happy to provide any additional information the City may need.

Thank you for your consideration.

Sincerely,

Jonathan Hope

Order Receipt

Saline Courier

321 N. Market St.
Benton, AR 72015

Phone: 501-315-8228

URL: https://www.bentoncourier.com/

Melanie Gentry
Hope Consulting, Inc (28)
129 N. Main Street
Benton, AR 72015

Acct #: 01119461
Phone: (501)315-2626
Date: 10/16/2026
Ad #: 00206978
Salesperson: SCL Ad Taker: SC5

Class: 101

Sort Line: NOTICE Notice is hereby given

Ad Notes:

Description	Amount
AVDT LEGAL AFFIDAVIT	4.50
28 Saline Courier 2026-10-20	46.80

Ad Text:

NOTICE
Notice is hereby given that a hearing will be held by the Planning Commission of the City of Bryant, AR on the 16th day of November at 6:00 pm. This is located at Boswell Municipal Complex – Bryant City Hall at 210 SW Third Street, Bryant, AR 72022. This will be for the petition of RJ Hawk for a Conditional Use Permit for the property described below:

302 Ethel Drive, Bryant, AR 72022

LEGAL DESCRIPTION:
Lot 2, Big Oaks Addition, Saline County, Arkansas

Payment Reference:

Total:	51.30
Tax:	0.00
Net:	51.30
Prepaid:	0.00
Total Due	**51.30**

HOPE CONSULTING
129 North Main Street, Benton, Arkansas 72015
70 N. College Avenue, Fayetteville, Arkansas 72701
(t) 501-315-2626 (w) www.HopeConsulting.com

Stormwater Infrastructure Maintenance Plan Agreement

The Cottages of Bryant

A subdivision in the City of Bryant, Saline County, Arkansas

Responsible party	The Cottages of Bryant Property Owners Association (POA)
Developer / Grantor	Heritage Homes, LLC 12585 Samples Road, Alexander, AR 72002 Will deed Tract A (detention area) and Tracts B and C (common areas) to the POA
Project location	Prickett Road, Bryant, Arkansas (Section 28, T-1-S, R-14-W)
Engineer of record	Hope Consulting, Inc., 129 N. Main Street, Benton, AR 72015 Kazi Tamzidul Islam, P.E. No. 20876
Hope job number	26-0288

This plan covers the detention pond (dry pond) in Tract A and the private storm sewer system that serve The Cottages of Bryant, a 20-lot residential Planned Unit Development. The Cottages of Bryant Property Owners Association (the POA) accepts the maintenance obligations below, and Heritage Homes, LLC, as owner and developer, will deed the detention area and common areas to the POA. This plan contains or upholds, without limitation, the following provisions:

(1) Property description and easements. The Cottages of Bryant is a part of Section 28, Township 1 South, Range 14 West, Saline County, Arkansas, containing 5.85 acres, more or less, as shown on The Cottages of Bryant plat (Hope Consulting Job No. 26-0288). The stormwater detention facility is located in Tract A (Detention Area / Dry Pond) at the northwest corner of the subdivision, north of Lot 20 and west of Cottage Drive. Runoff reaches the pond through the platted utility and drainage easements and the storm sewer in Cottage Drive, a private 50-foot right-of-way whose storm sewer is maintained by the POA. Tract A is platted as a detention area/dry pond and utility easement, and Tracts B and C as common green space, all maintained by the POA. Heritage Homes, LLC will convey Tracts A, B and C to the POA by deed, and the POA will own and maintain them, together with the private storm sewer system, from the date of conveyance.

(2) Size and configuration. The facility is one open earthen detention pond (dry pond) in Tract A, 0.35 acre (15,041 sq. ft.). Pond bottom is elevation 392.00 with a 3-foot-wide concrete trickle channel; top of berm is elevation 394.50 with a 5-foot-wide grassed levee and 3:1 maximum slopes. Storage is approximately 27,282 cu. ft. at top of berm; the 100-year storm peaks at elevation 393.32 (13,509 cu. ft.) and the 25-year at 393.19. The outlet is a rectangular weir structure with openings 0.5 foot wide at elevation 392.00, 4.5 feet wide at elevation 393.00 and 10.0 feet wide at elevation 393.50, discharging over a grouted rip-rap apron. The storm sewer consists of five structures (ST-1 through ST-5) and approximately 324 linear feet of concrete horizontal elliptical arch pipe (22 x 14 inch and 30 x 19 inch), entering the pond through a flared end section at flowline 392.00. The 100-year peak release is 5.17 cfs versus 21.44 cfs pre-development. Design details are as shown in the approved construction plans (Sheets C-4.1 and C-6.0) and drainage report dated September 2026, which are kept with the as-built drawings.

(3) Access rights. Properties served by the facilities are granted the right to construct, use, reconstruct, repair and maintain access to the facilities.

(4) Responsibility of lot owners. Each lot served by the facilities is responsible for repairs and maintenance of the facilities and for any unpaid ad valorem taxes, public assessments for improvements, and unsafe building and public nuisance abatement liens charged against the facilities, including all interest charges together with attorney fees, costs and expenses of collection. These responsibilities are delegated to the POA. Membership in the POA is mandatory for each parcel served by the facilities and for any successive buyer. The POA has the power to levy assessments for these obligations, and all unpaid assessments become a lien on the individual parcel.

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(5) Design and access. The facilities are designed to minimize the need for maintenance, to provide easy vehicle and personal access for maintenance, and to be structurally sound. The applicant is responsible for obtaining any easements or other property interests needed to allow access to the facilities for inspection or maintenance.

(6) General upkeep. The detention pond, levee and earthen slopes, storm structures ST-1 through ST-5, storm pipe, flared end section, concrete trickle channel, outlet weir, grouted rip-rap apron and any fencing are regularly inspected, maintained and repaired so that they operate properly and do not create hazards or nuisances.

(7) Sediment and surveys. Major deposits of sediment are removed from the pond annually, after any extreme storm event, and whenever sediment reduces design volume or begins to pass the outlet weir. Excavated material is disposed of off-site. Every five years the pond is surveyed to confirm the as-constructed contours, including pond bottom, top of berm and weir elevations.

(8) Piping and outlets. Every three months, storm structures ST-1 through ST-5 and the storm pipe are inspected and cleared of accumulated debris. The flared end section, trickle channel and outlet weir openings are inspected monthly and after rainfall events exceeding 1 inch in 24 hours. Debris that could restrict flow is removed immediately.

(9) Erosion. Erosion of the pond slopes, levee and drainage easements is promptly repaired, re-graded where needed, and stabilized with solid sod or seed per the City of Bryant Stormwater Management Manual, with erosion control matting or other Best Management Practices (BMPs) until grass is re-established. Damaged rip-rap or grout at the outlet apron is repaired.

(10) Mowing and vegetation. The pond and surrounding area are mowed monthly during the growing season, May through September, to keep turf height at 6 inches or less, and as needed during the cooler months. Brush or trees growing in the pond bottom, slopes or levee are cut and removed.

(11) Litter. Litter and foreign material are removed from the pond and its surroundings weekly. Large or noxious items are removed immediately. The pond and outlet are inspected visually after rainfall events exceeding 1 inch in 24 hours.

(12) Monthly inspections. The detention pond and its components are inspected monthly and conditions are noted on an inspection form. Any remedial action required is noted and corrected.

(13) Records. All inspection forms are retained on-site, together with the as-built drawings and photographs of the improvements in their original condition.

(14) Items 1 through 13 are listed on this Stormwater Infrastructure Maintenance Plan Agreement.

(15) Inspection forms for the stormwater infrastructure components are required. An inspection form is attached.

Agreed and accepted:

_____ _____

The Cottages of Bryant POA – authorized officer Date

_____ _____

Heritage Homes, LLC (Developer / Grantor) Date

HOPE CONSULTING

129 North Main Street, Benton, Arkansas 72015
70 N. College Avenue, Fayetteville, Arkansas 72701
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Attachment A – Stormwater Infrastructure Inspection Form

The Cottages of Bryant (Job No. 26-0288) | Retain on-site with the as-built drawings

Inspector: _____ Date: _____ Time: _____ Weather: _____ Rain in last 24 hrs (in.): _____

Component	Frequency	Condition OK (Y/N)	Action needed	Date corrected
Structures ST-1 to ST-5	Monthly			
Storm pipe – debris cleared	Every 3 months			
Outlet weir openings clear	Monthly			
Flared end and trickle channel	Monthly			
Levee – settlement, seepage, erosion	Monthly			
Pond bottom and slopes – erosion	Monthly			
Sediment depth / deposits	Annually and after extreme storm			
Turf height 6 in. or less (May–Sept.); brush and trees removed	Monthly			
Litter and foreign material removed	Weekly; after rain over 1 in.			
Rip-rap apron; fencing (if any)	Monthly			
Access and drainage easements clear	Monthly			
Five-year as-built contour survey	Every 5 years			

Remedial action taken / notes: _____

Attach dated photographs. Inspector signature: _____

Stormwater Pollution Prevention Plan (SWPPP) for Construction Activity for Large Construction Sites

National Pollutant Discharge Elimination System (NPDES)

General Permit # ARR150000

Prepared for:

HERITAGE HOMES, LLC

Date:

10/21/2026

Prepared by:

HOPE CONSULTING

Revised date: 10/20/2016

Project Name and Location: **The Cottages of Bryant Subdivision, Prickett Road, Bryant, AR 72022**

Property Parcel Number (*Optional*):

Operator Name and Address: **HERITAGE HOMES, LLC**, 12585 SAMPLES ROAD, ALEXANDER, AR 72002

A. Site Description

a. Project description, intended use after NOI is filed: **20-LOT RESIDENTIAL PLANNED UNIT DEVELOPMENT (DUPLEX HOMES) WITH PRIVATE STREET (COTTAGE DRIVE), UTILITIES, STORM SEWER AND DETENTION POND**

b. Sequence of major activities which disturb soils: **PERIMETER SILT FENCE, CONSTRUCTION ENTRANCE, RIP-RAP CHECK DAMS, SITE CLEARING, ROUGH GRADING, DETENTION POND EXCAVATION, TRENCHING FOR WATER, SEWER AND STORM SEWER, INLET PROTECTION, STREET CONSTRUCTION, FINAL GRADING, POND OUTLET WEIR AND RIP-RAP, SEEDING/SODDING, LOT CLEARING, HOME CONSTRUCTION. (SEE SEQUENCE OF CONSTRUCTION AND EROSION CONTROL PLANS.)**

c. Total Area[1]: **5.85 Ac** Disturbed Area[2]: **5.85 Ac**

d. Soils Information:

i. Runoff Coefficient Pre-Construction (See Appendix A) : 0.49

ii. Runoff Coefficient Post-Construction (See Appendix A) : 0.80

iii. Describe the soil or the quality of any discharge from the site: **NATIVE SOILS PER NRCS WEB SOIL SURVEY (MAP UNIT TO BE CONFIRMED). DISCHARGE EXPECTED TO CARRY SEDIMENT ONLY; NO KNOWN CONTAMINATION ON SITE.**

B. Responsible Parties

Be sure to assign all SWPPP related activities to an individual or position; even if the specific individual is not yet known (i.e. contractor has not been chosen).

Individual/Company	Phone Number	Service Provided for SWPPP (i.e., Inspector, SWPPP revisions, Stabilization Activities, BMP Maintenance, etc.)
Hope Consulting	501-315-2626	SWPPP Revisions

Heritage Homes, LLC		Owner / Operator
Site Contractor (TBD)		Inspector, BMP Maintenance, Stabilization Activities

C. Receiving Waters

a. The following waterbody (or waterbodies) receives stormwater from this construction site: **_UNNAMED TRIBUTARY OF CROOKED CREEK, THENCE CROOKED CREEK, THENCE FOURCHE CREEK, THENCE ARKANSAS RIVER_____**

b. Is the project located within the jurisdiction of an MS4? ☒Yes ☐No

i. If yes, Name of MS4: **__Bryant, AR__**

c. Ultimate Receiving Water:

☐Red River ☐White River

☐Ouachita River ☐St. Francis River

☒Arkansas River ☐Mississippi River

[1]Increases in total acreage require an additional acreage request, an updated SWPPP and a $200 modification fee to be submitted to ADEQ.

[2]Increases in only disturbed acreage require an additional acreage request and an updated SWPPP to be submitted to ADEQ.

D. Documentation of Permit Eligibility Related to the 303(d) list and Total Maximum Daily Loads (TMDL) (https://www.adeq.state.ar.us/water/planning/)

a. Does the storm water enter a waterbody on the 303(d) list or with an approved TMDL? ☒Yes ☐No

b. If yes:

i. Waterbody identified on 303(d) list: **_FOURCHE CREEK_____**

ii. Pollutant addressed on 303(d) list or TMDL: **_TURBIDITY (FOURCHE CREEK IS ALSO LISTED FOR COPPER, TEMPERATURE AND DISSOLVED OXYGEN)_____**

iii. This specific project ,or generally construction activity i.e. surface erosion, is identified on 303(d) list or associated assumptions and allocations identified in the TMDL for the discharge: ☒Yes ☐No

iv. Additional controls implemented: **WIRE-BACKED PERIMETER SILT FENCE AND STABILIZED CONSTRUCTION ENTRANCE INSTALLED BEFORE ANY DISTURBANCE, RIP-RAP CHECK DAMS, STORM DRAIN INLET PROTECTION, TEMPORARY STABILIZATION OF AREAS IDLE 14 DAYS OR MORE, AND INSPECTIONS EVERY 7 DAYS AND WITHIN 24 HOURS OF A 0.5-INCH RAIN**

E. Attainment of Water Quality Standards After Authorization

a. The permittee must select, install, implement, and maintain BMPs at the construction site that minimize pollutants in the discharge as necessary to meet applicable water quality standards. In general, except in situations explained below, the SWPPP developed, implemented, and updated to be considered as stringent as necessary to ensure that the discharges do not cause or contribute to an excursion above any applicable water quality standard.

b. At any time after authorization, the Department may determine that the storm water discharges may cause, have reasonable potential to cause, or contribute to an excursion above any applicable water quality standard. If such a determination is made, the Department will require the permittee to:

i. Develop a supplemental BMP action plan describing SWPPP modifications to address adequately the identified water quality concerns and submit valid and verifiable data and information that are representative of ambient conditions and indicate that the receiving water is attaining water quality standards; or

ii. Cease discharges of pollutants from construction activity and submit an individual permit application.

I understand and agree to follow the above text regarding the attainment of water quality standards after authorization. ☒Yes ☐No

F. Site Map Requirements (Attach Site Map):

a. Pre-construction topographic view;

b. Direction of storm water flow (i.e., use arrows to show which direction storm water will flow) and approximate slopes anticipated after grading activities;

c. Delineate on the site map areas of soil disturbance and areas that will not be disturbed under the coverage of this permit;

d. Location of major structural and nonstructural controls identified in the plan;

e. Location of main construction entrance and exit;

f. Location where stabilization practices are expected to occur;

g. Locations of off-site materials, waste, borrow area, or equipment storage area;

h. Location of areas used for concrete wash-out;

i. Location of all surface water bodies (including wetlands) with associated natural buffer boundary lines. Identify floodplain and flood way boundaries, if available;

j. Locations where storm water is discharged to a surface water and/or municipal separate storm sewer system if applicable,

k. Locations where storm water is discharged off-site (should be continuously updated);

l. Areas where final stabilization has been accomplished and no further construction phase permit requirements apply;

m. A legend that identifies any erosion and sediment control measure symbols/labels used in the site map and/or detail sheet; and

n. Locations of any storm drain inlets on the site and in the immediate vicinity of the site.

G. Storm water Controls

a. Initial Site Stabilization, Erosion and Sediment Controls, and Best Management Practices:

i. Initial Site Stabilization: **EXISTING VEGETATION PRESERVED OUTSIDE THE LIMITS OF GRADING. WIRE-BACKED SILT FENCE AROUND THE PROJECT PERIMETER AND A STABILIZED CONSTRUCTION ENTRANCE WILL BE INSTALLED BEFORE ANY LAND DISTURBANCE. EXISTING DRAINAGE SWALES WILL BE MAINTAINED**.

ii. Erosion and Sediment Controls: **RIP-RAP CHECK DAMS, STABILIZED CONSTRUCTION ENTRANCE, STORM DRAIN INLET PROTECTION AT**

STRUCTURES ST-1 THROUGH ST-5, CONCRETE WASHOUT, ADDITIONAL SILT FENCING (AS NEEDED)

iii. If periodic inspections or other information indicates a control has been used inappropriately or incorrectly, the operator will replace or modify the control for site situations: ☒Yes ☐No

If No, explain: _____

iv. Off-site accumulations of sediment will be removed at a frequency sufficient to minimize off-site impacts: ☒Yes ☐No

If No, explain: _____

_____

v. Sediment will be removed from sediment traps or sedimentation ponds when design capacity has been reduced by 50%: ☒Yes ☐No

If No, explain: _____

vi. Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges: ☒Yes ☐No

If No, explain: _____

vii. Off-site material storage areas used solely by the permitted project are being covered by this SWPPP: ☐Yes ☒No

If Yes, explain additional BMPs implemented at off-site material storage area: _____

b. Stabilization Practices

i. Description and Schedule: Disturbed areas idle for 14 days or more will be temporarily seeded and mulched; slopes steeper than 3:1 will receive erosion control blankets. Final stabilization will be pavement, concrete, rip-rap, sod/seed and landscaping, with the detention pond slopes solid sodded or seeded. Permit will be closed when all exposed areas are 100% covered with 80% density.

ii. Are buffer areas required? ☐Yes ☒No

If Yes, are buffer areas being used? ☐Yes ☐No

If Yes, describe natural buffer areas: **N/A**

If No, explain why not: NO STREAMS, WETLANDS OR OTHER SURFACE WATERS ARE LOCATED ON OR ADJACENT TO THE SITE. RUNOFF LEAVES THE SITE THROUGH THE DETENTION POND OUTLET.

iii. A record of the dates when grading activities occur, when construction activities temporarily or permanently cease on a portion of the site, and when stabilization measures are initiated shall be included with the plan.

☒Yes ☐No

If No, explain: _____

_____

iv. Deadlines for stabilization:

1. Stabilization procedures will be initiated 14 days after construction activity temporarily ceases on a portion of the site.

2. Stabilization procedures will be initiated immediately in portions of the site where construction activities have permanently ceased.

c. Structural Practices

i. Describe any structural practices to divert flows from exposed soils, store flows, or otherwise limit runoff and the discharge of pollutants from exposed areas of the site: **WIRE-BACKED SILT FENCE, RIP-RAP CHECK DAMS, STORM DRAIN INLET PROTECTION, DETENTION POND WITH WEIR OUTLET STRUCTURE**

ii. Describe Velocity Dissipation Devices: **RIP-RAP CHECK DAMS AS NEEDED; GROUTED RIP-RAP APRON AT THE DETENTION POND WEIR OUTLET**
Sediment Basins:

Are 10 or more acres draining to a common point? ☐Yes ☒No

Is a sediment basin included in the project? ☐Yes ☒No

If Yes, what is the designed capacity for the storage?

☐3600 cubic feet per acre = : _____

or

☐ 10 year, 24 hour storm = :_____

☐ Other criteria were used to design basin: _____

_____

If No, explain why no sedimentation basin was included and describe required natural buffer areas and other controls implemented instead: LESS THAN 10 ACRES DRAIN TO A COMMON POINT (APPROX. 6.0 AC, INCLUDING 1.58 AC OFF-SITE, DRAINS TO THE DETENTION POND). PERIMETER SILT FENCE, RIP-RAP CHECK DAMS AND INLET PROTECTION ARE PROVIDED INSTEAD; NO NATURAL BUFFERS ARE REQUIRED.

H. Other Controls

a. Solid materials, including building materials, shall be prevented from being discharged to Waters of the State: ☒ Yes ☐ No

b. Off-site vehicle tracking of sediments and the generation of dust shall be minimized through the use of:

☒ A stabilized construction entrance and exit

☐ Vehicle tire washing

☒ Other controls, describe: **_ADJACENT PUBLIC STREETS WILL BE SWEPT AS NEEDED; UNPAVED SURFACES WATERED OR COVERED AS NEEDED TO CONTROL DUST**

_____

c. Temporary Sanitary Facilities: **_CONTRACTOR TO PROVIDE AND MAINTAIN FACILITIES.**

d. Concrete Waste Area Provided:

☒Yes

☐No. Concrete is used on the site, but no concrete washout is provided.

Explain why: _____

☐N/A, no concrete will be used with this project

e. Fuel Storage Areas, Hazardous Waste Storage, and Truck Wash Areas: **NO HAZARDOUS WASTE WILL BE PRODUCED AS A RESULT OF THIS PROJECT. FUEL STORAGE AREAS WILL NOT BE USED AND TRUCK WASH AREAS WILL NOT BE NEEDED**.

I. Non-Stormwater Discharges

a. The following allowable non-stormwater discharges comingled with stormwater are present or anticipated at the site:
   ☐Fire-fighting activities;
   ☒Fire hydrant flushings;
   ☐Water used to wash vehicles (where detergents or other chemicals are not used) or control dust in accordance with Part II.A.4.H.2;
   ☒Potable water sources including uncontaminated waterline flushings;
   ☒Landscape Irrigation;
   ☐Routine external building wash down which does not use detergents or other chemicals;
   ☐Pavement wash waters where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled materials have been removed) and where detergents or other chemicals are not used;
   ☐Uncontaminated air conditioning, compressor condensate (See Part I.B.13.C of the permit);
   ☐Uncontaminated springs, excavation dewatering and groundwater (See Part I.B.13.C of the permit);
   ☐Foundation or footing drains where flows are not contaminated with process materials such as solvents (See Part I.B.13.C of the permit);

b. Describe any controls associated with non-stormwater discharges present at the site: **There are no non stormwater discharges that warrant extra controls. The activities which will be non storm water discharges will be not regularly occurring and will be monitored**.

J. Permanent Controls for Post-Construction Stormwater Management:

Describe measures installed during the construction process to control pollutants in stormwater discharges that will occur after construction operations have been completed: **Detention pond (Tract A) with weir outlet structure and grouted rip-rap**

apron, and storm sewer system (ST-1 through ST-5), owned and maintained by the POA under the Stormwater Infrastructure Maintenance Plan Agreement. Project area will be stabilized before SWPPP is terminated. Yards will be sodded/seeded and/or landscaped. Permit won't be closed until obtaining 100% coverage and 80% density.

K. Applicable State or Local Programs: The SWPPP will be updated as necessary to reflect any revisions to applicable federal, state, or local requirements that affect the stormwater controls implemented at the site. ☒Yes ☐No

L. Inspections

a. Inspection frequency:

☒ Every 7 calendar days

or

☐ At least once every 14 calendar days and within 24 hours of the end of a storm even 0.25 inches or greater (a rain gauge must be maintained on-site)

b. Inspections:

Completed inspection forms will be kept with the SWPPP.

☒ ADEQ's inspection form will be used (See Appendix B)

or

☐ A form other than ADEQ's inspection form will be used and is attached (See inspection form requirements Part II.A.4.L.2)

c. Inspection records will be retained as part of the SWPPP for at least 3 years from the date of termination.

d. It is understood that the following sections describe waivers of site inspection requirements. All applicable documentation requirements will be followed in accordance with the referenced sections.

i. Winter Conditions (Part II.A.4.L.4)

ii. Adverse Weather Conditions (Part II.A.4.L.5)

M. Maintenance:

The following procedures to maintain vegetation, erosion and sediment control measures and other protective measures in good, effective operating condition will

be followed: **Silt fence, rip-rap check dams, inlet protection, construction entrance and concrete washout will be inspected and repaired as needed; sediment will be removed from silt fence and check dams before it reaches one-half of their height and deposited where it can be permanently stabilized. Damaged or decomposed silt fence fabric will be replaced promptly. As homes are completed, lots will be sodded, seeded, and/or landscaped; contractors will be responsible for keeping individual lots during home construction.**

Any necessary repairs will be completed, when practicable, before the next storm event, but not to exceed a period of 3 business days of discovery, or as otherwise directed by state or local officials.

N. Employee Training:

The following is a description of the training plan for personnel (including contractors and subcontractors) on this project: **The operator is well trained and familiar with erosion control practices. Workers who are under the operator will be briefed and trained on erosion control practices and the SWPPP contents.**
**Note, Formal training classes given by Universities or other third-party organizations are not required, but recommended for qualified trainers; the permittee is responsible for the content of the training being adequate for personnel to implement the requirements of the permit.

Certification

"I certify under penalty of law that this document and all attachments such as Inspection Form were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate 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."

Signature of Responsible or Cognizant Official: _____

Title: _____ Date: _____

Total Site Area =	5.85 Acres	[A]

Existing Site Conditions

Impervious Site Area [1] =	0 Acres	[B]
Impervious Site Area Runoff Coefficient [2, 4] =	0.95	[C]
Pervious Site Area [3] =	5.85 Acres	[D]
Pervious Site Area Runoff Coefficient [4] =	0.49	[E]

Pre-Construction Runoff Coefficient

$$\frac{[B \times C] + [D \times E]}{[A]} = 0.49$$

Proposed Site Conditions (after construction)

Impervious Site Area [1] =	3.94 Acres	[F]
Impervious Site Area Runoff Coefficient [2, 4] =	0.95	[G]
Pervious Site Area [3] =	1.91 Acres	[H]
Pervious Site Area Runoff Coefficient [4] =	0.49	[I]

Post-Construction Runoff Coefficient

$$\frac{[F \times G] + [H \times I]}{[A]} = 0.80$$

1. Includes paved areas, areas covered by buildings, and other impervious surfaces.
2. Use 0.95 unless lower or higher runoff coefficient can be verified.
3. Includes areas of vegetation, most unpaved or uncovered soil surfaces, and other pervious areas.
4. Refer to local Hydrology Manual for typical C values.

Note: The impervious and pervious surfaces should equal the total area.

ARR150000 Inspection Form Appendix B

Inspector Name: _____ Date of Inspection: _____

Inspector Title: _____

Date of Rainfall:_____ Duration of Rainfall: _____

Days Since Last Rain Event: _____ days Rainfall Since Last Rain Event: _____ inches

Description of any Discharges During Inspection: _____

Location of Discharges of Sediment/Other Pollutant (specify pollutant & location): _____

_____

Locations in Need of Additional BMPs: _____

Information on Location of Construction Activities

Location	Activity Begin Date	Activity Occuring Now (y/n)?	Activity Ceased Date	Stabilization Initiated Date	Stabilization Complete Date

Information on BMPs in Need of Maintenance

Location	In Working Order?	Maintenance Scheduled Date	Maintenance Completed Date	Maintenance to be Performed By

Changes required to the SWPPP: _____ Reasons for changes: _____

_____ _____

_____ _____

SWPPP changes completed (date): _____

ARR150000 Inspection Form

Appendix B

"I certify under penalty of law that this document and all attachments such as Inspection Form were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate 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."

Signature of Responsible or Cognizant Official: _____ Date: _____

Title: _____

BMP Consideration Checklist

Appendix C

The BMPs listed here should be considered for every project. Those BMPs that are not included in the SWPPP should be checked as "Not Used" with a brief statement describing why it is not being used.

Note: Appendix C and D do not have to be submitted with the SWPPP. These attachments are for use during the development of the SWPPP.

EROSION CONTROL BMPs				
BMP	**BMP Considered for project**	**BMP Used**	**BMP Not Used**	**If not used, state reason**
EC-1 Scheduling	☐	☐	☐	
EC-2 Preservation of Existing Vegetation	☐	☐	☐	
EC-3 Hydraulic Mulch	☐	☐	☐	
EC-4 Hydroseeding	☐	☐	☐	
EC-5 Soil Binders	☐	☐	☐	
EC-6 Straw Mulch	☐	☐	☐	
EC-7 Geotextiles & Mats	☐	☐	☐	
EC-8 Wood Mulching	☐	☐	☐	
EC-9 Earth Dikes & Drainage Swales	☐	☐	☐	
EC-10 Velocity Dissipation Devices	☐	☐	☐	
EC-11 Slope Drains	☐	☐	☐	
EC-12 Stream bank Stabilization	☐	☐	☐	
SEDIMENT CONTROL BMPs				
BMP	**BMP Considered for project**	**BMP Used**	**BMP Not Used**	**If not used, state reason**
SE-1 Silt Fence	☐	☐	☐	
SE-2 Sediment Basin	☐	☐	☐	
SE-3 Sediment Trap	☐	☐	☐	
SE-4 Check Dam	☐	☐	☐	
SE-5 Fiber Rolls	☐	☐	☐	
SE-6 Gravel Bag Berm	☐	☐	☐	
SE-7 Street Sweeping and Vacuuming	☐	☐	☐	
SE-8 Sand Bag Barrier	☐	☐	☐	
SE-9 Straw Bale Barrier	☐	☐	☐	
SE-10 Storm Drain Inlet Protection	☐	☐	☐	
SE-11 Chemical Treatment	☐	☐	☐	
WIND EROSION CONTROL BMPs				
BMP	**BMP Considered**	**BMP Used**	**BMP Not Used**	**If not used, state reason**

	for project			
WE-1 Wind Erosion Control	☐	☐	☐	

BMP Consideration Checklist

Appendix C

TRACKING CONTROL BMPs				
BMP	**BMP Considered for project**	**BMP Used**	**BMP Not Used**	**If not used, state reason**
TR-1 Stabilized Construction Entrance/Exit	☐	☐	☐	
TR-2 Stabilized Construction Roadway	☐	☐	☐	
TR-3 Entrance/Outlet Tire Wash	☐	☐	☐	
NON-STORM WATER MANAGEMENT BMPs				
BMP	**BMP Considered for project**	**BMP Used**	**BMP Not Used**	**If not used, state reason**
NS-1 Water Conservation Practices	☐	☐	☐	
NS-2 Dewatering Operations	☐	☐	☐	
NS-3 Paving and Grinding Operations	☐	☐	☐	
NS-4 Temporary Stream Crossing	☐	☐	☐	
NS-5 Clear Water Diversion	☐	☐	☐	
NS-6 Illicit Connection/ Discharge	☐	☐	☐	
NS-7 Potable Water/Irrigation	☐	☐	☐	
NS-8 Vehicle and Equipment Cleaning	☐	☐	☐	
NS-9 Vehicle and Equipment Fueling	☐	☐	☐	
NS-10 Vehicle and Equipment Maintenance	☐	☐	☐	
NS-11 Pile Driving Operations	☐	☐	☐	
NS-12 Concrete Curing	☐	☐	☐	
NS-13 Concrete Finishing	☐	☐	☐	
NS-14 Material and Equipment Use Over Water	☐	☐	☐	
NS-15 Demolition Adjacent to Water	☐	☐	☐	
NS-16 Temporary Batch Plants	☐	☐	☐	
WASTE MANAGEMENT AND MATERIALS POLLUTION CONTROL BMPs				
BMP	**BMP Considered for project**	**BMP Used**	**BMP Not Used**	**If not used, state reason**
WM-1 Material Delivery and Storage	☐	☐	☐	
WM-2 Material Use	☐	☐	☐	
WM-3 Stockpile Management	☐	☐	☐	
WM-4 Spill Prevention and Control	☐	☐	☐	
WM-5 Solid Waste Management	☐	☐	☐	
WM-6 Hazardous Waste Management	☐	☐	☐	
WM-7 Contaminated Soil Management	☐	☐	☐	
WM-8 Concrete Waste Management	☐	☐	☐	
WM-9 Sanitary/Septic Waste Management	☐	☐	☐	
WM-10 Liquid Waste Management	☐	☐	☐	

SWPPP Completion Checklist

Appendix D

Yes = Complete
No = Incomplete/Deficient
N/A = Not applicable to project

Yes	No	N/A		Permit Section Citation
			A. A site description, including:	
			1. Project description, intended use after NOT	Part II.A.4.A.1
			2. Sequence of major activities	Part II.A.4.A.2
			3. Total & disturbed acreage	Part II.A.4.A.3
			4. Pre- and post-construction runoff coefficient OR soil/discharge data	Part II.A.4.A.4
			B. Responsible Parties: All parties dealing with the SWPPP and the areas they are responsible for on-site.	Part II.A.4.B
			C. Receiving Water.	Part II.A.4.C
			-MS4 Name	Part II.A.4.C
			-Ultimate Receiving Water	Part II.A.4.C
			D. Documentation of permit eligibility related to Impaired Water Bodies and Total Maximum Daily Loads (TMDLs	
			1. Identify pollutant on 303(d) list or TMDL	Part II.A.4.D.1
			2. Is construction activity or the specific site listed as cause?	Part II.A.4.D.2
			3. Measures taken to reduce pollutants from the site.	Part II.A.4.D.3
			E. Attainment of Water Quality Standards After Authorization.	Part II.A.4.E
			F. Site Map --- See End of Evaluation Form	Part II.A.4.F
			G. Description of Controls:	
			1. Erosion and sediment controls, including:	
			a. Initial site stabilization	Part II.A.4.G.1.a
			b. Erosion and sediment controls	Part II.A.4.G.1.b
			c. Replacement of inadequate controls	Part II.A.4.G.1.c
			d. Removal of off-site accumulations	Part II.A.4.G.1.d
			e. Maintenance of sediment traps/basins @ 50% capacity	Part II.A.4.G.1.e
			f. Litter, construction debris and chemicals properly handled	Part II.A.4.G.1.f
			g. Off-site storage areas and controls	Part II.A.4.G.1.g
			2. Stabilization practices:	
			a. Description and schedule for stabilization	Part II.A.4.G.2.a
			b. Description of buffer areas	Part II.A.4.G.2.b
			c. Records of stabilization	Part II.A.4.G.2.c
			d. Deadlines for stabilization	Part II.A.4.G.2.d
			3. Structural Practices:	
			-Describe structural practices to divert flows, store flows, or otherwise limit runoff	Part II.A.4.G.3
			a. Sediment basins	Part II.A.4.G.3.a.1
			-Are more than 10 acres draining to a common point? If so, are sediment basins included?	Part II.A.4.G.3.a.1
			-Sediment basin dimensions and capacity description and calculations	Part II.A.4.G.3.a.1
			-If a basin wasn't practicable, are other controls sufficient?	Part II.A.4.G.3.a.1
			b. Velocity dissipation devices concentrated flow from 2 or more acres	Part II.A.4.G.3.b
			H. Other controls including:	
			1. Solid waste control measures	Part II.A.4.H.1
			2. Vehicle off-site tracking controls	Part II.A.4.H.2
			3. Compliance with sanitary waste disposal	Part II.A.4.H.4
			4. Does the site have a concrete washout area controls?	Part II.A.4.H.5
			5. Does the site have fuel storage areas, hazardous waste storage and/or truck wash areas controls?	Part II.A.4.H.6

SWPPP Completion Checklist

Appendix D

Yes	No	N/A		Permit Section Citation
			I. Identification of allowable non-storm water discharges	Part II.A.4.I
			-Appropriate controls for dewatering, if present	Part I.B.12.C
			J. Post construction stormwater management.	Part II.A.4.J
			K. State or local requirements incorporated into the plan.	Part II.A.4.K
			L. Inspections	
			1. Inspection frequency listed?	Part II.A.4.L.1
			2. Inspection form	Part II.A.4.L.2
			Ours.	
			If not ours, does it contain the following items:	
			a. Inspector name and title	Part II.A.4.L.2.a
			b. Date of inspection.	Part II.A.4.L.2.b
			c. Amount of rainfall and days since last rain event (14 day only)	Part II.A.4.L.2.c
			d. Approx beginning and duration of storm event	Part II.A.4.L.2.d
			e. Description of any discharges during inspection	Part II.A.4.L.2.e
			f. Locations of discharges of sediment/other pollutants	Part II.A.4.L.2.f
			g. BMPs in need of maintenance	Part II.A.4.L.2.g
			h. BMPs in working order, if maintenance needed (scheduled and completed)	Part II.A.4.L.2.h
			i. Locations that are in need of additional controls	Part II.A.4.L.2.i
			j. Location and dates when major construction activities begin, occur or cease	Part II.A.4.L.2.j
			k. Signature of responsible/cognizant official	Part II.A.4.L.2.k
			3. Inspection Records	Part II.A.4.L.3
			4. Winter Conditions	Part II.A.4.L.4
			5. Adverse Weather Conditions	Part II.A.4.L.5
			M. Maintenance Procedures	Part II.A.4.M
			N. Employee Training	Part II.A.4.N
			Signed Plan Certification	Part II.A.5. and Part II.B.10
			F. Site Map showing:	
			1. Pre-construction topographic view	Part II.A.4.F.1
			2. Drainage flow	Part II.A.4.F.2
			3. Approximate slopes after grading activities	Part II.A.4.F.2
			4. Areas of soil disturbance and areas not disturbed	Part II.A.4.F.3
			5. Location of major structural and non-structural controls.	Part II.A.4.F.4
			6. Location of main construction entrance and exit.	Part II.A.4.F.5
			7. Areas where stabilization practices are expected to occur.	Part II.A.4.F.6
			8. Locations of off-site materials, waste, borrow area or storage area.	Part II.A.4.F.7
			9. Locations of areas used for concrete wash-out.	Part II.A.4.F.8
			10. Locations of surface waters on site.	Part II.A.4.F.9
			11. Locations where water is discharged to a surface water or MS4.	Part II.A.4.F.10
			12. Storm water discharge locations.	Part II.A.4.F.11
			13. Areas where final stabilization has been accomplished.	Part II.A.4.F.12
			14. Legend for symbols/labels used	Part II.A.4.F.13
			15. Location of storm drain inlets on site or in immediate vicinity	Part II.A.4.F.14

Comments Response Letter

Utilities

Construction Drawings

1. Water

a. Waterlines to fire hydrants must be a minimum of an 8-inch (section 1100-2-1.05.B)

-The comment has been addressed.

b. We need to discuss the water tie-in to the 2-inch on Reynolds Road. To obtain satisfactory fire flows the project might need to tie to the 8-inch on the east side of Reynolds Road.

- We can make sure the proposed main will have required fire flow from a hydraulic analysis. We are required to have the existing pressure and flow data from city.

c. Make sure to maintain minimum clearance from the existing sewer line.

-Minimum clearance from the existing sewer line has been maintained

d. Show a note on the drawing that the Engineer of record to provide inspections on construction activities for water lines.

-The note has been added to the updated plans.

e. Show encasement for water line where it crosses under the storm drain at the pond.

-The encasement has been provided under storm drainage.

f. Add a note that states "ALL WATER LINES CROSSING UNDER ANY STORM DRAIN, SHALL BE STEEL ENCASED A MINIMUM OF 5 FEET EITHER SIDE OF THE STORM DRAIN."

-The note has been added to the plans.

2. Sanitary Sewer

a. Provide a detail

-Details have been added. See Sewer detail sheet (C-3.3)

b. Correct Note #6 to replace " ... any other parallel utilities or structures." with " ... any other parallel utilities (except for potable water lines, see note 8) or related structures."

-The note has been corrected.

c. On Manhole A-1 provide details for the connection and show how flows are going to be directed to the north. Details need to meet City of Bryant specifications.

-Manhole A-1 will be a doghouse manhole on the existing sewer line.

d. Show a note on the drawing that the Engineer of record to provide inspections on construction activities for sewer lines.

- The note has been added.

Streets

1.On the inlets show the length of the opening in the notes for the curb inlets.

- The note has been added.

2. Show a note on the drawing that the Engineer of record to provide inspections on construction activities for streets and storm drainage.

- The note has been added.

3. Show flared end section on the profile.

-The flared end section has been shown on the profile.

4. Add general notes to the Drainage Plan & Profile drawing to indicate compliance with Bryant's standard specifications and also the Bryant Stormwater Manual.

- The note has been added.

StormWater

1. Add general notes to the Drainage Plan & Profile drawing to indicate compliance with Bryant's standard specifications and also the Bryant Stormwater Manual.
   - The note has been added.

2. Provide a stormwater management plan
   - Stormwater Management Plan has been provided.

3. Provide a SWPPP

   -A SWPPP will be provided

Engineering General Comments

1. Submit engineering review fee.
   - Fee will be provided

2. Drawings are mis-numbered, correct and re-submit

   -The comment has been addressed

Preliminary Plat

1. Show fire hydrants
   -Fire Hydrants have been shown on the plat.

2. Show tie ins for sidewalks on Reynolds Road

   -The comment has been addressed

3. Show finished floor elevations for those lots closest to the pond. See note 1 in Engineering comments.

   - The elevations have been shown in the updated plat

Construction Drawings

1. A minimum of two (2) feet of freeboard is required from the design water surface elevation of the detention basin to the Finished Floor Elevation of any adjacent structure. (1000.5.4)
   The comment has been addressed

2. Provide typical detail for curb and gutter.
   The detail has been provided. See sheet C-3.3

3. Provide typical detail for curb inlet.
   The detail has been provided.See sheet C-3.3

4. Drawing C1. 1
   a. Show detailed grading elevations in the detention basin
      -The elevations have been shown in the updated grading plan.
   b. Show elevations of the trickle channel
   - The elevations of the trickle channel have been shown
   c. Show elevations of the corners and drainage slopes towards the trickle channel.
      - The comment has been addressed.
   d. Show layout information for detention pond
      - The comment has been addressed.

5. Drawings C6.1 thru 6.3 - Erosion Control Plan

a. If using proposed detention basin as sedimentation basin during construction, provide details.

- The comment has been addressed.

6. C-6.0

a. Show layout information for the detention pond. Show dimensions to the location of the weir.

-The information has been provided.

b. Provide horizontal and vertical control information on the pond.

- USGS Type-C gauge will be provided at the pond outlet structure.

c. Provide typical cross section for concrete trickle channel.

- A typical section has been added for the concrete trickle channel: a 3'-0" wide by 6" deep V-ditch with 3:1 side slopes, 6" minimum thickness of 3,000 psi concrete

d. Show longitudinal slope for concrete trickle channel and demonstrate how a minimum flow velocity of 2 fps will be achieved.

-The trickle channel runs 135' from the FES invert (393.12') to the weir (392.50') at a longitudinal slope of 0.46%. Using Manning's equation (n = 0.013, 6" deep V-ditch with 3:1 side slopes), the velocity reaches 2.0 fps at a flow depth of 0.28' (Q = 0.46 cfs) and 3.0 fps at full depth.

e. Show flowline elevations and grades on the trickle channel.

- The comment has been addressed.

f. Add a curve to the trickle channel where the point of intersection shows a sharp turn.

- The curve has been added to the channel

g. Show slopes on the berm for the detention pond

-The slopes have been shown in the updated plan

h. Top of embankment shall generally be at least 2 feet above the top of the outlet structure. (1000.2.1)

- We have maintained required free board.

i. Show 4.5' width in weir structure. (based upon width shown in calculations)

- The comment has been addressed.

j.Add comment to address safety features/fencing around detention basin when completed. (1000.7)

-The comment has been addressed.

k. Add details for fencing

-The details have been provided. See sheet C-3.3

l. Provide construction details of the proposed weir, including the reinforcement, toe downs for scour protection, footers, wingwalls. The elevation and plan views shown does not reflect the elevations shown for the pond. Show full extension to the toe of the pond on both sides of the berm.

-The details have been provided.See sheet C-3.3

m. Clarify what the bottom of the detention pond is supposed to be graded at.

-The pond bottom will be gradually graded to 392.5’

n. Provide grade elevations on the bottom of the detention pond.

-The comment has been addressed.

o. Add a note that states that the Engineer of record is responsible for inspections.

-The note has been added.

p. Show construction staging schedule for the detention basin. Detention basins cannot be used as a sedimentation basin during construction.

-The comment has been addressed.

q. Provide specifications for the grouted riprap shown at the outfall.

-The detail has been provided.See sheet C-3.3

r. Add a note about mosquito control

-The note has been added.

s. Add a reference to Section 1000 of the stormwater manual in the DETENTION POND MAINTENANCE PLAN notes.

-The comment has been addressed.

Drainage Calculations

1. In Project Title it should show the actual project title which is "Cottages of Bryant" according to the construction drawings.

-The comment has been addressed.

2. In Project Description provide summary of pre- and post-development drainage conditions.

-A summary has been provided.

3. In Project Description provide information about the project, including what it entails.

-The comment has been addressed.

4. In Project Location provide a more detailed description of the project location.

-Detailed description has been provided.

5. In Drainage Analysis provide more detailed information about how the analysis was performed, what software was used, any assumptions, etc.

-The comment has been addressed.

6. Show how the runoff coefficients were determined (i.e. stormwater manual, calculations, etc.)

-The runoff coefficients were determined using “The City of Bryant Storm Drainage Manual”

7. Show the top of berm elevation in the summary.

-The top of berm has been shown in the pond summary on Sheet C-6.0.

8. Show the high water elevation.

-The elevations are shown in the updated drainage report

9. Show a more detailed description of the outlet control structure to be used.

- A description has been added in the drainage report summary sheet

10. Provide calculations that determine that the 1-ft of freeboard inside the detention basin is maintained during a 100-year event when the weir structures is blocked.

- Freeboard maintained.

11. Show the sub-basins for each curb inlet in the project, along with calculations to support the flows intercepted by each inlet.

-The sub-basins have been shown.

12.Verify the Gutter information on the Inlet Report. So is 0.005 ft/ft, Sw is 0.05 ft/ft, and Sx is shown as 0.02 ft/ft. When I calculate the cross sectional slope it's more than 2%. When I look at the street profile in the plans the slope in the gutter is more than 0.005. Provide a curb and gutter detail in the construction plans so the gutter slope can be determined accurately.

-The comment has been addressed.

Planning

1. Preliminary Plat Subdivision Review and Preliminary Plat stormwater review fees will need to be paid.
   -The fees will be provided.

2. Half-street improvement plans to Prickett Rd? Nothing shown on plat. No plans from crosswalk at Prickett intersection or Reynolds.

- No, we are not proposing any half street development

3. Fire Hydrants not on Plat

- The fire hydrants have been shown on the plat.

THE COTTAGES OF BRYANT
PROPOSED RESIDENTIAL DEVELOPMENT
PRICKETT RD,BRYANT, AR

DRAINAGE REPORT

FOR
City of Bryant, Saline County, AR

October 2026

Owner & Developer: Heritage Homes LLC

By:

HOPE
CONSULTING
ENGINEERS • SURVEYORS

TABLE OF CONTENTS

ITEM DESCRIPTION

1. Narrative & Summary
2. Drainage Calculations
3. Detention pond plan
4. Hydrograph Report
5. Storm Analysis

Narrative & Summary

PROJECT TITLE

The Cottages of Bryant

PROJECT PROPERTY OWNER

Heritage Homes LLC

PROJECT LOCATION

The site is on Prickett Road at North Reynolds Road (minor arterial, 80' R/W) in Bryant, Saline County, Arkansas, in Section 28, Township 1 South, Range 14 West. The detention pond is in the northwest corner of the property. It discharges north through a grouted riprap outfall.

PROJECT DESCRIPTION

The project is a 20-lots multi-family duplex residential subdivision on 5.85 acres, owned and developed by Heritage Homes LLC. It includes 1200 LF of public curb-and-gutter street, an underground storm sewer of 14"×22" and 19"×30" horizontal elliptical concrete pipe with five curb inlets, water and sanitary sewer service, and one dry detention pond with a multi-stage concrete weir outlet.

Before development, 6.28 acres of areas drain to the northwest, with a composite C of 0.49 and a time of concentration of 16 min. After development, the area draining to the pond is 5.97 acres: 4.39 acres of developed on-site area (C = 0.80, Tc = 6 min) and 1.58 acres of offsite area A2 and A3 (C = 0.49, Tc = 16 min), for a composite C of 0.72. The offsite areas are unchanged by the project and are routed through the pond.

DRAINAGE ANALYSIS

On-Site Drainage:

Peak flows were computed with the Rational Method using the City of Bryant IDF relationship. Times of concentration were computed as the sum of sheet flow, shallow concentrated flow, and channelized flow (Sheet C-4.0). Hydrographs were generated and routed with Hydra flow Hydrographs Extension for Autodesk Civil 3D 2026, and the storm sewer was analyzed with Hydra flow Storm Sewers Extension 2026.

There will be one detention pond to detain water from this development. Detailed drainage calculations considering the expected development have been conducted to determine the required detention pond and culvert dimensions. A summary of the calculations is below:

Detention Pond -

- Pond is situated on the northwest side of the property.
- Pre-development area 6.28 acres.
- Post-development area 5.97 acres.
- Pre-development runoff coefficient 0.49
- Post-development composite runoff coefficient 0.72
- Pond has a bottom elevation of 393.0

- One outlet control structure is proposed for outflow.

Peak flows for the pre-and post-development phase of the onsite area have been tabulated below-

Time	Pre-development	Post-dev. With-out detention	Post-dev. With deten-tion (From Hydrograph)	Maximum High Water
	Peak Flow (cfs)	Peak Flow (cfs)	Peak Flow (cfs)	Elevation (ft)
2-Year	11.72	21.42	2.279	393.58
5-Year	13.96	25.41	3.418	393.69
10-Year	15.76	28.68	4.676	393.78
25-Year	18.07	32.90	6.465	393.89
50-Year	19.79	35.89	7.862	393.97
100-Year	21.44	38.99	9.253	394.05

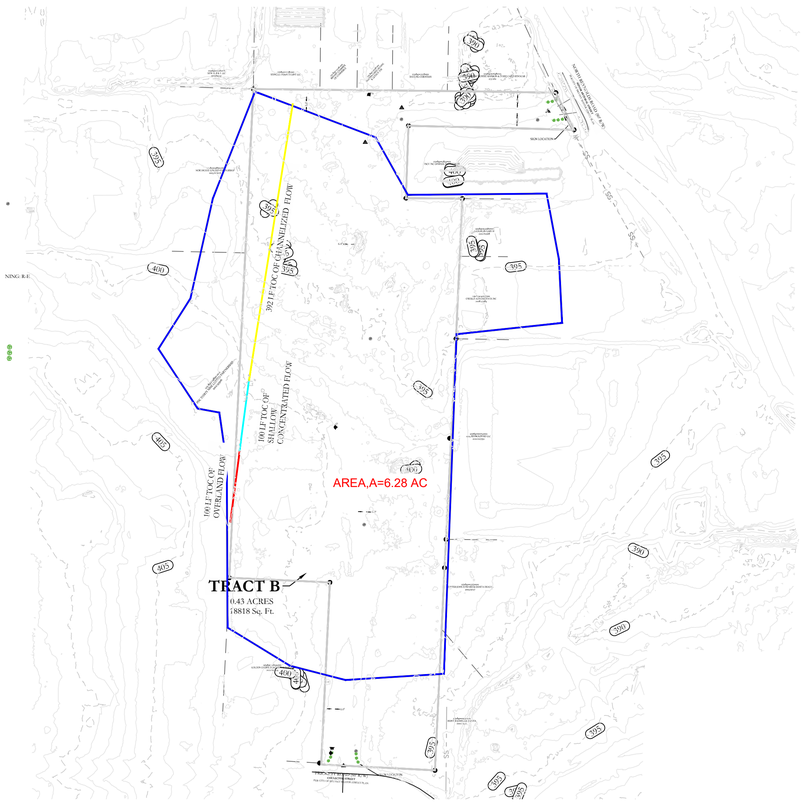
OUTLET CONTROL STRUCTURE:

The outlet is a reinforced concrete multi-stage rectangular weir in the north berm. Stage 1 is a 0.5' wide low-flow notch with its crest at 392.50. Stage 2 is a 4.5' wide opening with its crest at 393.50. Stage 3 is a 10.0' wide opening with its crest at 394.50. The top of the pond is at 395.50. It discharges onto grouted riprap (FL 392.35) with filter fabric conforming to AASHTO M288.

CONCLUSION

The onsite drainage calculation shows that the proposed detention pond decreases the flow for all storm events.

Hydrograph Summary Report



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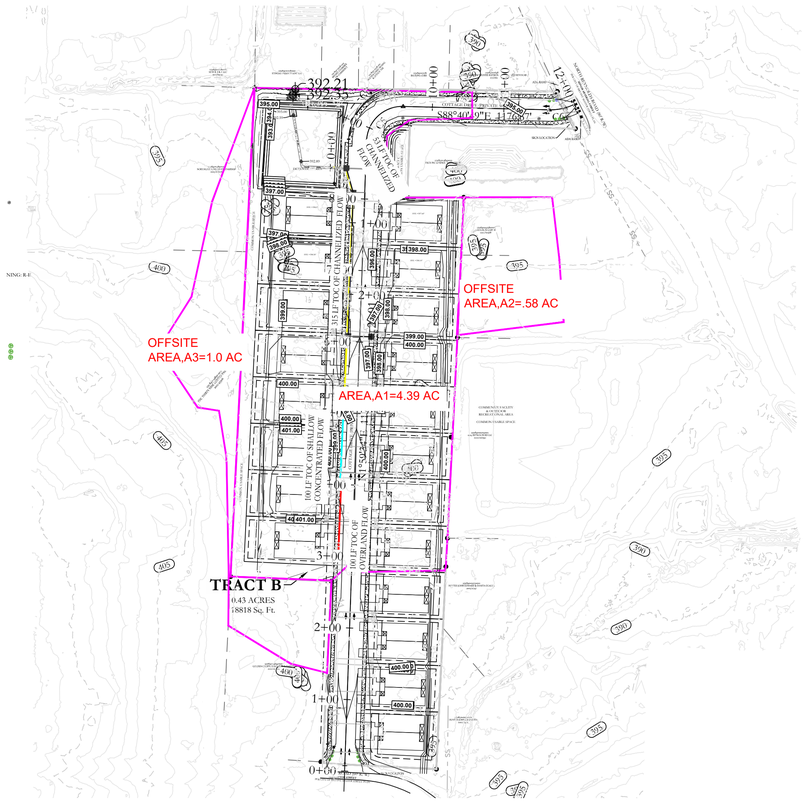
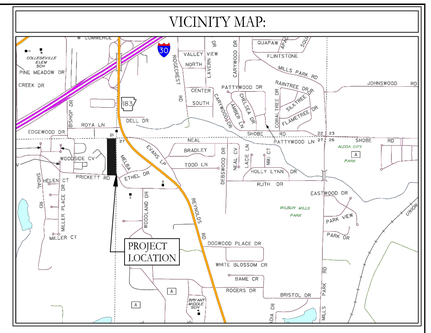


POST DEVELOPMENT CONDITION:



OVERLAND FLOW

SHALLOW CONCENTRATED FLOW

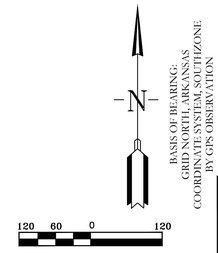
CHANNELIZED FLOW

Peak flows for the pre-and post-development phase of the onsite area have been tabulated below-

Time	Pre-development	Post-dev. Without detention	Post-dev. With detention (From Hydrograph)	Maximum High Water
	Peak Flow (cfs)	Peak Flow (cfs)	Peak Flow (cfs)	Elevation (ft)
2-Year	11.72	21.42	2.279	393.58
5-Year	13.96	25.41	3.418	393.69
10-Year	15.76	28.68	4.676	393.78
25-Year	18.07	32.90	6.465	393.89
50-Year	19.79	35.89	7.862	393.97
100-Year	21.44	38.99	9.253	394.05

CERTIFICATE OF AUTHORIZATION HOPE CONSULTING, INC. No. 1931 ARKANSAS

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER NO. 20876 KAZEL TAMZIDUL ISLAM



HOPE CONSULTING
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129N. Main Street,
Benton, Arkansas 72015
PH. (501)315-2626
FAX (501) 315-0024
www.hopeconsulting.com

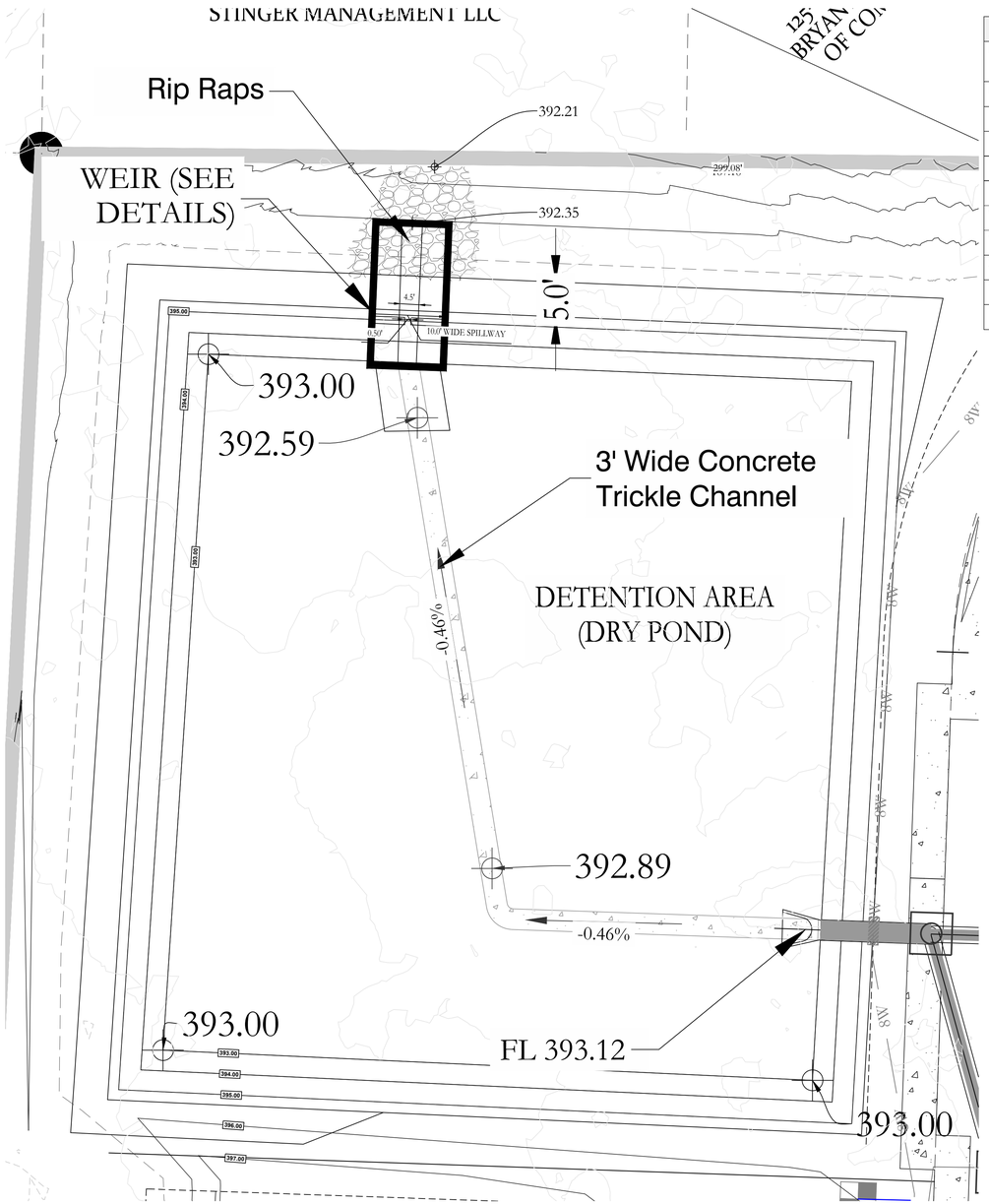
FOR USE AND BENEFIT OF:
HERITAGE HOMES

THE COTTAGES OF BRYANT
DRAINAGE CALCULTIONS
PRICKETT ROAD, BRYANT ,ARKANSAS

DATE:	09-23-2026	C.A.D. BY:	DRAWING NUMBER:
REVISED:	10-21-2026	CHECKED BY:	26-0288
SHEET:	C-4.0	SCALE:	

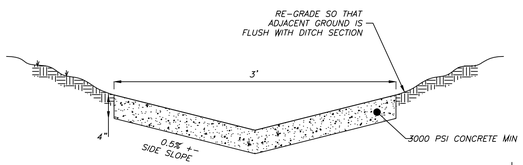
500	01S	14W	0	28		62	1664

SHARED\HOPECONSULTING\LAND PROJECTS 2026\SUBDIVISIONS 2026\26-0288 HERITAGE HOMES - PRICKLETT RD\DWG\26-0288 PUD PRICKLETT ROAD DRAINAGE AND DETENTION 09-15-2026.DWG

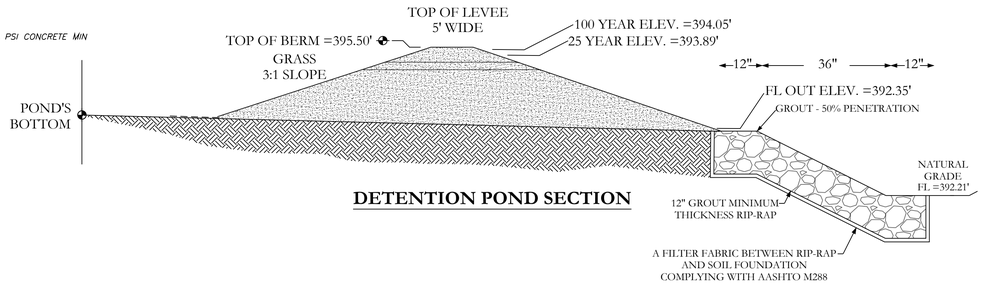


DETENTION POND

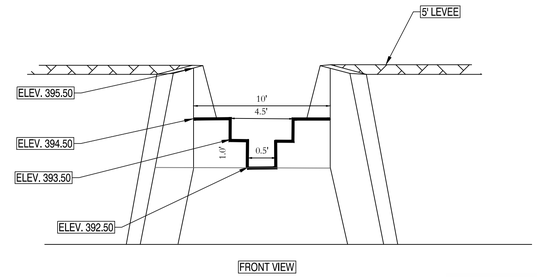
POND DETAILS	
Pond bottom	393.00' min. (at channel edges, weir end), graded at 0.5% min. toward trickle channel
FES invert / rim	393.12' / 394.99'
Trickle channel type	3'-0" wide x 6" deep concrete V-ditch, 3:1 side slopes
Trickle channel flowline, FES end	393.12' (top of edge 393.62')
Trickle channel flowline, weir end	392.50' (top of edge 393.00')
Trickle channel length / grade	135' at 0.46%
Weir opening invert	392.50'
Weir opening width	4.5'
25-year WSE	393.89'
100-year WSE	394.05'
Top of berm	395.50'

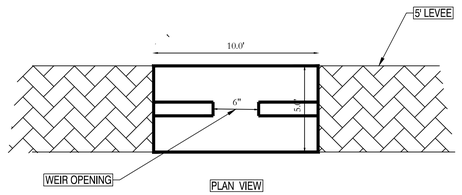


DETAIL (NTS)
TRICKLE CHANNEL SECTION



DETENTION POND SECTION



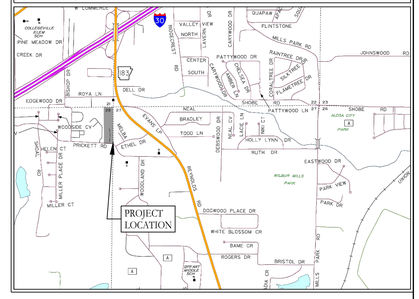


POND WEIR

EARTHEN SLOPE NOTE:
EARTHEN DETENTION POND SLOPES ON BOTH THE INTERIOR AND EXTERIOR OF THE POND SHALL HAVE A MAXIMUM SLOPE OF 3:1.

NOTE:
1. DETENTION POND WILL BE REQUIRED TO BE STABILIZED WITH SOLID SOD/SEED STABILIZATION PER THE STORM WATER MANAGEMENT MANUAL.
2. DETENTION POND WILL HAVE A 5' WIDE LEVEE.
3. SAFETY: UPON COMPLETION, THE DETENTION BASIN SHALL BE ENCLOSED WITH FENCING PER THE FENCE DETAIL ON THIS SHEET,WITH A LOCKABLE MAINTENANCE ACCESS GATE, IN ACCORDANCE WITH SECTION 1000.7 OF THE CITY OF BRYANT STORMWATER MANAGEMENT MANUAL.

VICINITY MAP:



STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
NO. 20876
KAZI TAMZIDUL ISLAM

CERTIFICATE OF AUTHORIZATION
HOPE CONSULTING INC.
No. 1931
ARKANSAS

DETENTION POND MAINTENANCE PLAN

Background
The Detention pond is located at the North West of the subjected property. It is designed to temporarily detain stormwater to meet water quantity criteria before discharging off the property.

Routine Maintenance
Routine maintenance will include but not be limited to:
-Mowing of the bank slopes and area around the pond on a monthly basis during the growing season and as needed during the cooler months.

-The outlet pipe from the pond and other areas will be inspected monthly for debris which could inhibit the proper flow of discharge. Any debris will be removed immediately and disposed of or placed in a location to prevent future maintenance and to not cause impact up or downstream of the structure.

-Trash will be removed from around the pond to prevent entering the pond. Generally, the site should be kept free of loose trash which could be carried off site by wind or rain.

-Inspect the pond and outlet pipe for non-routine maintenance need.

-The pond shall be maintained in accordance with section 1000 of the city of bryant storm water management manual.

-Mosquito control: the detention pond is designed as a dry pond and shall drain completely within 72 hours after a storm event.

Standing water shall not be permitted. The owner shall correct any ponding areas by regrading and shall keep the trickle channel and outlet free of debris.

-The engineer of record shall be responsible for inspection of the detention pond, outlet structure,and trickle channel during construction and shall certify that the pond was constructed in accordance with the approved plans prior to final acceptance.

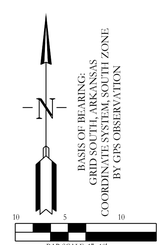
Periodic or Non-Routine Maintenance
The routine inspection of the pond area and discharge pipe will identify needed repairs and non-routine maintenance. These items may include but not be limited to:

-Re-growth of trees on or around the pond bank. These should be cut and removed from the pond area.

-Sediment from the site may accumulate in the pond bottom and reduce the pond to below design volume requirements. The pond should be excavated if the pond bottom elevation reached a level that allows excessive aquatic growth or reduces the pond efficiency such, that the sediments are passing the discharge structure and release off site.

-Stabilization or re-grading of side slopes may be required periodically or after excessive rain events. Any disturbance of slopes should be reseeded or may require installation of erosion control materials until seeding can reestablish adequate grasses to prevent future erosion.

-Any other maintenance or repairs which would minimize other maintenance to the pond or outfall structures.



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FOR USE AND BENEFIT OF:
HERITAGE HOMES

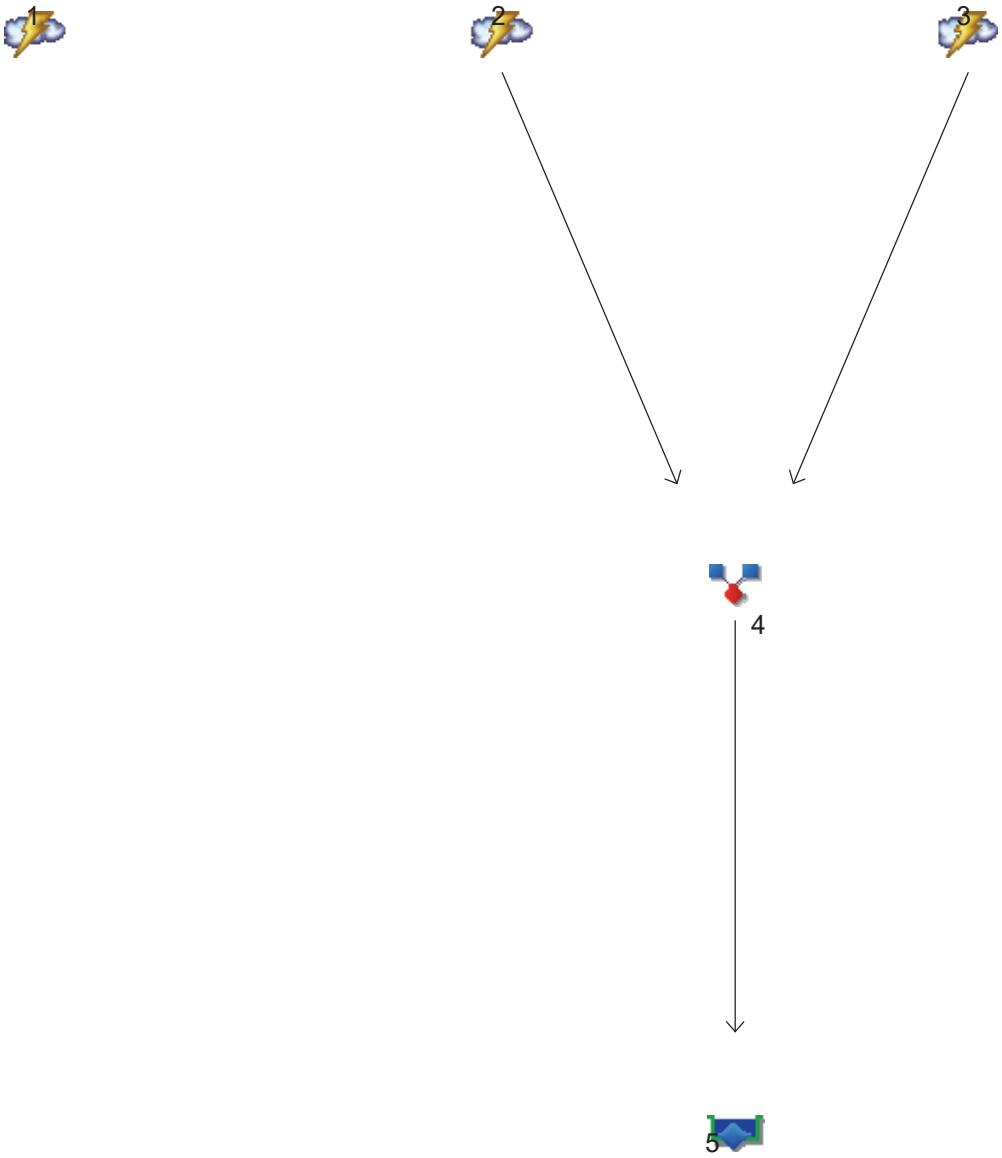
THE COTTAGES OF BRYANT
DETENTION POND
PRICKETT ROAD, BRYANT ,ARKANSAS

DATE:	09-23-2026	C.A.D. BY:	DRAWING NUMBER:
REVISED:	10-21-2026	CHECKED BY:	26-0288
SHEET:	C-6.0	SCALE:	

500	01S	14W	0	28		62	1664

H:\SHARED\HOPECONSULTING\LAND PROJECTS 2004 SUBDIVISIONS\2026\26-0288 HERITAGE HOMES - PRICKETT RD\ DWG\26-0288 PRICKETT ROAD DRAINAGE AND DETENTION 09-15-2026.DWG

Watershed Model Schematic



Legend

Hyd.	Origin	Description
1	Rational	Pre Dev. Flow
2	Rational	DEV GENERATED FLOW-(ONSITE)
3	Rational	DEV GENERATED FLOW(OFF SITE)
4	Combine	<no description>
5	Reservoir	POST DEVELOPMENT FLOW

Multi-Hydrograph Plot

Hyd. No. 1

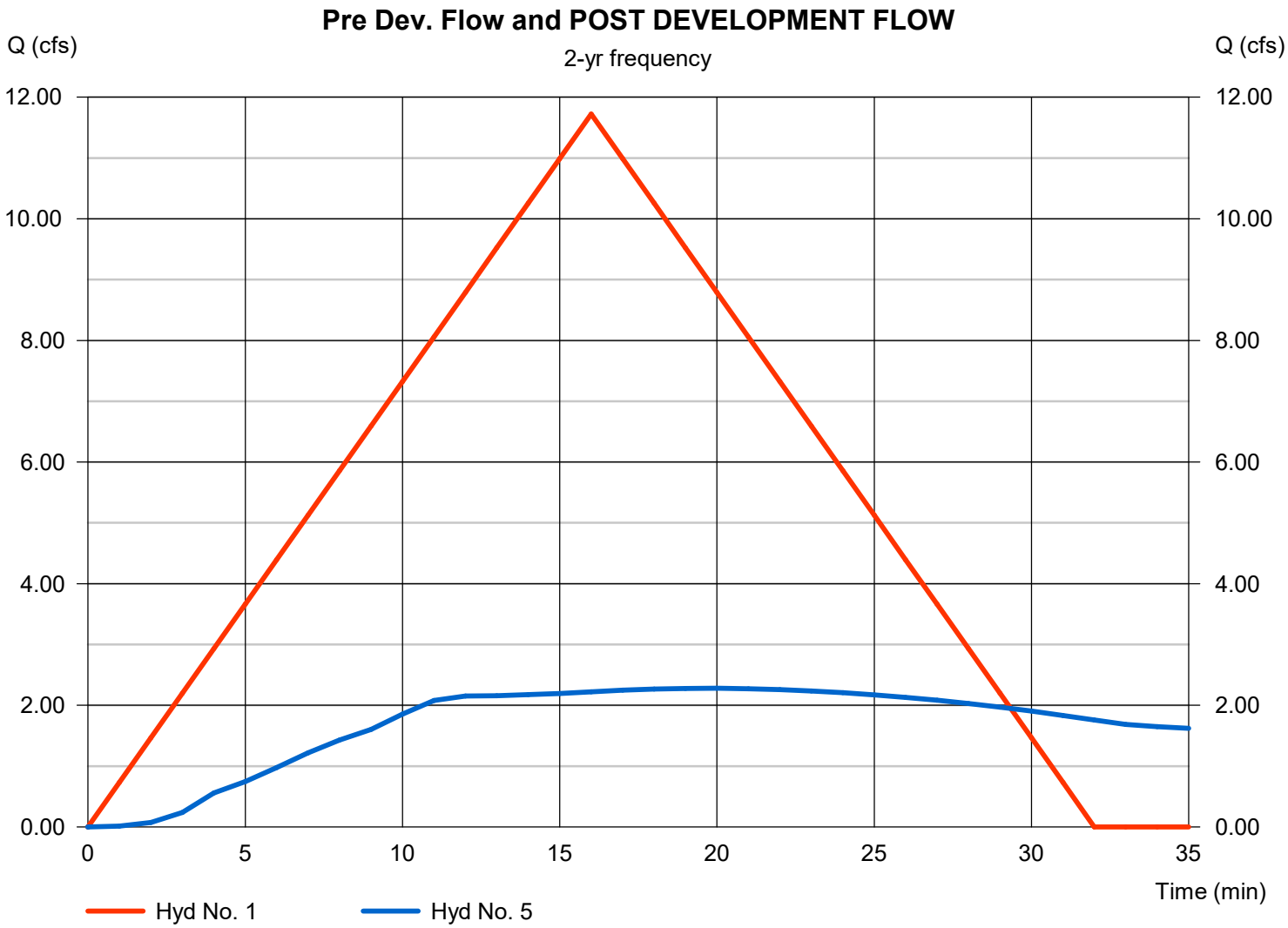
Pre Dev. Flow

Hydrograph type	=	Rational
Peak discharge	=	11.72 cfs
Time to peak	=	16 min
Hyd. Volume	=	11,251 cuft

Hyd. No. 5

POST DEVELOPMENT FLOW

Hydrograph type	=	Reservoir
Peak discharge	=	2.28 cfs
Time to peak	=	20 min
Hyd. Volume	=	10,135 cuft



Multi-Hydrograph Plot

Hyd. No. 1

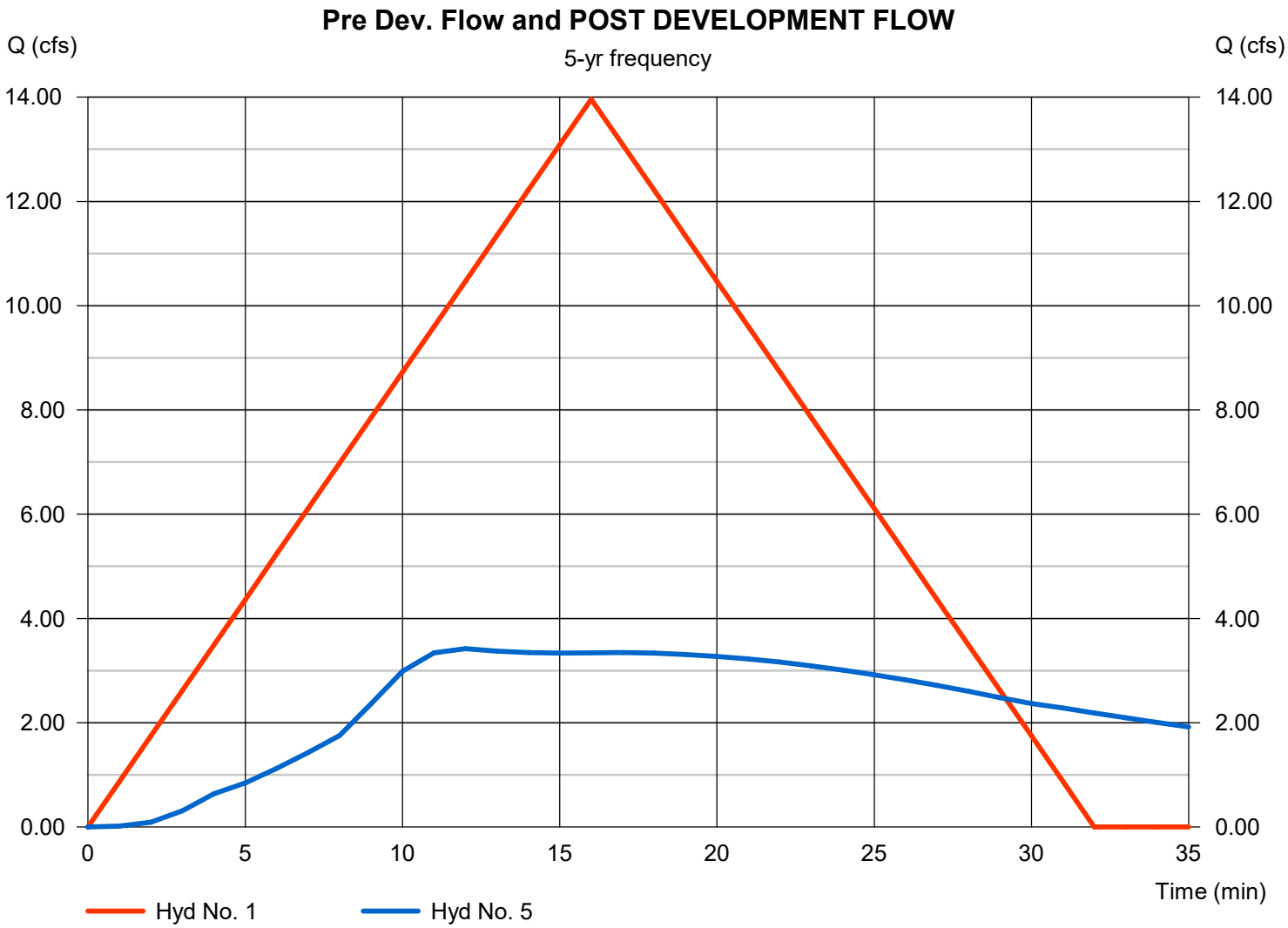
Pre Dev. Flow

Hydrograph type	=	Rational
Peak discharge	=	13.96 cfs
Time to peak	=	16 min
Hyd. Volume	=	13,401 cuft

Hyd. No. 5

POST DEVELOPMENT FLOW

Hydrograph type	=	Reservoir
Peak discharge	=	3.42 cfs
Time to peak	=	12 min
Hyd. Volume	=	12,037 cuft



Multi-Hydrograph Plot

Hyd. No. 1

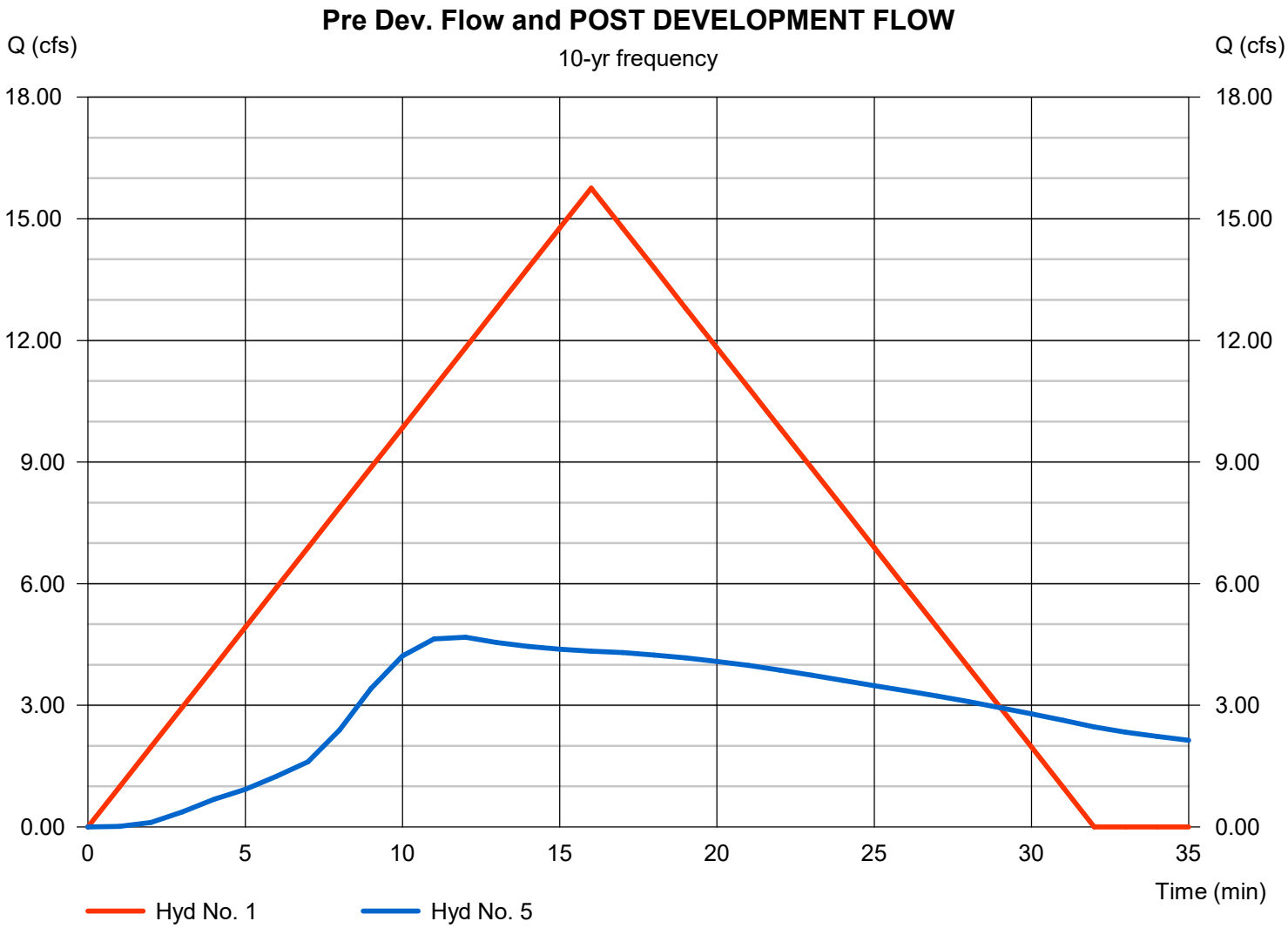
Pre Dev. Flow

Hydrograph type	=	Rational
Peak discharge	=	15.76 cfs
Time to peak	=	16 min
Hyd. Volume	=	15,128 cuft

Hyd. No. 5

POST DEVELOPMENT FLOW

Hydrograph type	=	Reservoir
Peak discharge	=	4.68 cfs
Time to peak	=	12 min
Hyd. Volume	=	13,586 cuft



Multi-Hydrograph Plot

Hyd. No. 1

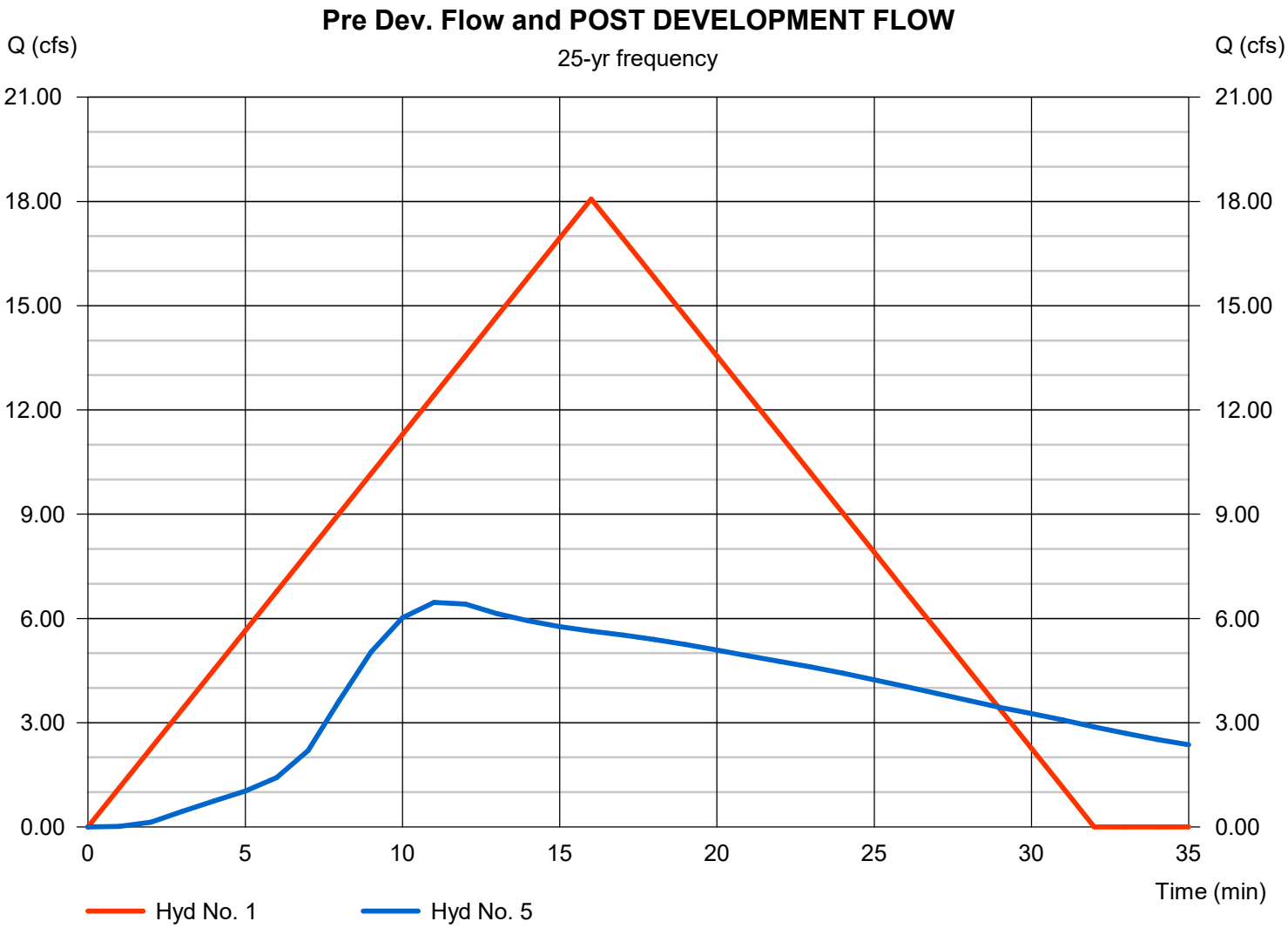
Pre Dev. Flow

Hydrograph type	=	Rational
Peak discharge	=	18.07 cfs
Time to peak	=	16 min
Hyd. Volume	=	17,350 cuft

Hyd. No. 5

POST DEVELOPMENT FLOW

Hydrograph type	=	Reservoir
Peak discharge	=	6.46 cfs
Time to peak	=	11 min
Hyd. Volume	=	15,585 cuft



Multi-Hydrograph Plot

Hyd. No. 1

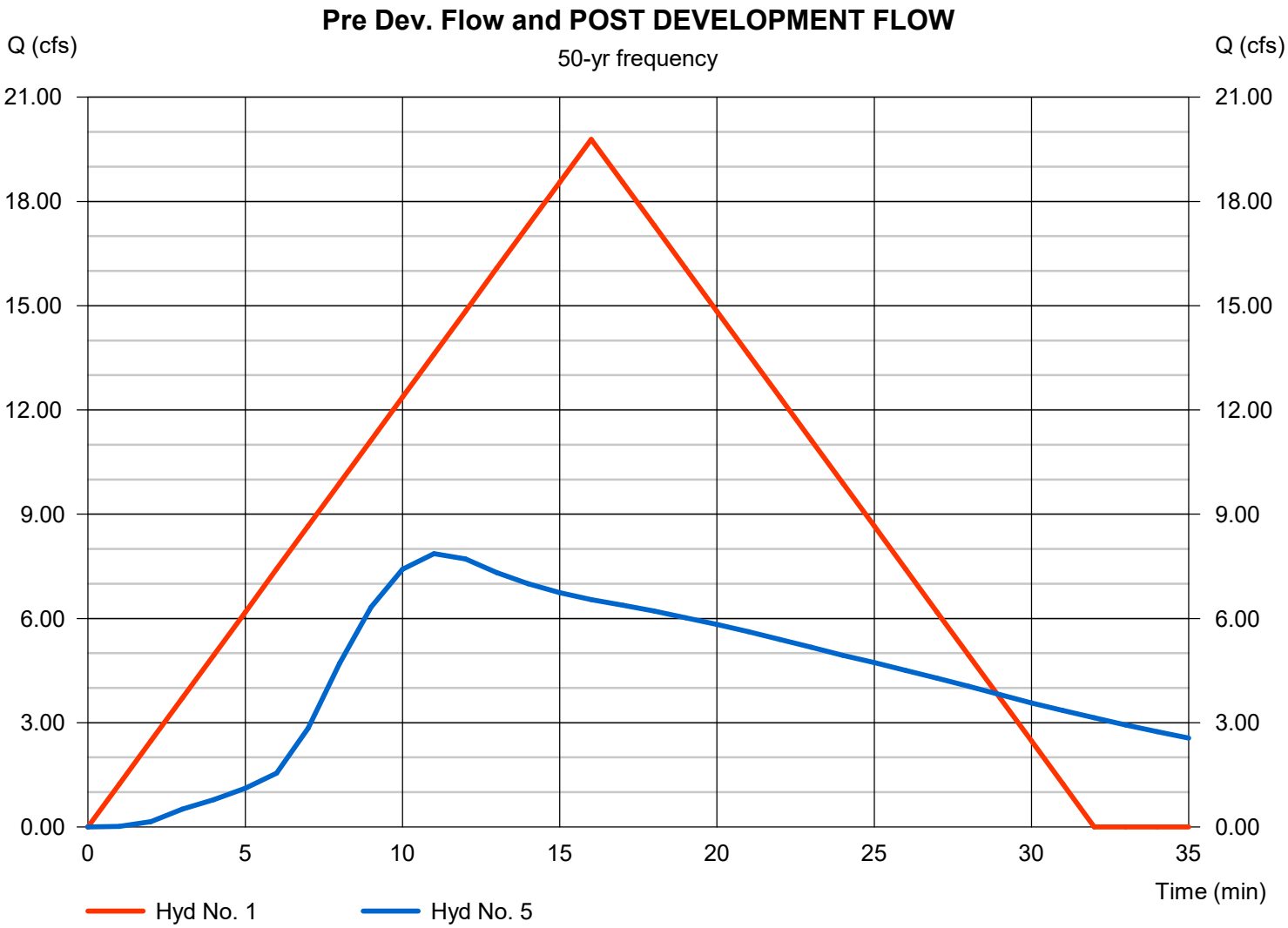
Pre Dev. Flow

Hydrograph type	=	Rational
Peak discharge	=	19.79 cfs
Time to peak	=	16 min
Hyd. Volume	=	18,995 cuft

Hyd. No. 5

POST DEVELOPMENT FLOW

Hydrograph type	=	Reservoir
Peak discharge	=	7.86 cfs
Time to peak	=	11 min
Hyd. Volume	=	17,017 cuft



Multi-Hydrograph Plot

Hyd. No. 1

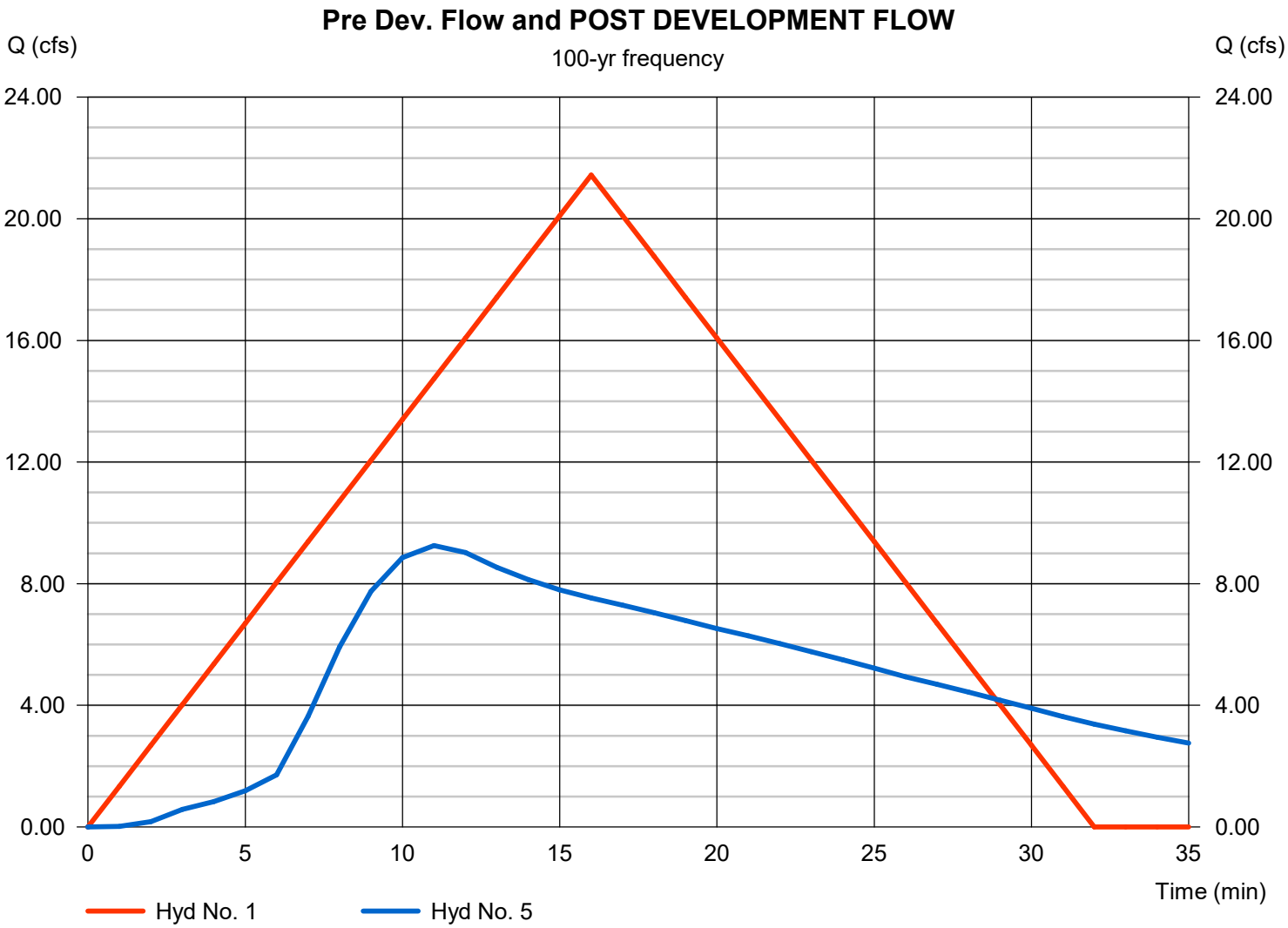
Pre Dev. Flow

Hydrograph type	=	Rational
Peak discharge	=	21.44 cfs
Time to peak	=	16 min
Hyd. Volume	=	20,582 cuft

Hyd. No. 5

POST DEVELOPMENT FLOW

Hydrograph type	=	Reservoir
Peak discharge	=	9.25 cfs
Time to peak	=	11 min
Hyd. Volume	=	18,476 cuft



Pond Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2026 Thursday, 10 / 22 / 2026

Pond No. 1 - Detention Pond

Pond Data

Contours -User-defined contour areas. Conic method used for volume calculation. Begining Elevation = 392.50 ft

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	392.50	100	0	0
0.50	393.00	9,384	1,742	1,742
1.50	394.00	10,584	9,977	11,719
2.50	395.00	11,857	11,213	22,932
3.00	395.50	12,520	6,093	29,025

Culvert / Orifice Structures

	[A]	[B]	[C]	[PrfRsr]
Rise (in)	Inactive	0.00	0.00	0.00
Span (in)	= 18.00	0.00	0.00	0.00
No. Barrels	= 1	0	0	0
Invert El. (ft)	= 392.00	0.00	0.00	0.00
Length (ft)	= 24.00	0.00	0.00	0.00
Slope (%)	= 1.45	0.00	0.00	n/a
N-Value	= .013	.013	.013	n/a
Orifice Coeff.	= 0.60	0.60	0.60	0.60
Multi-Stage	= n/a	No	No	No

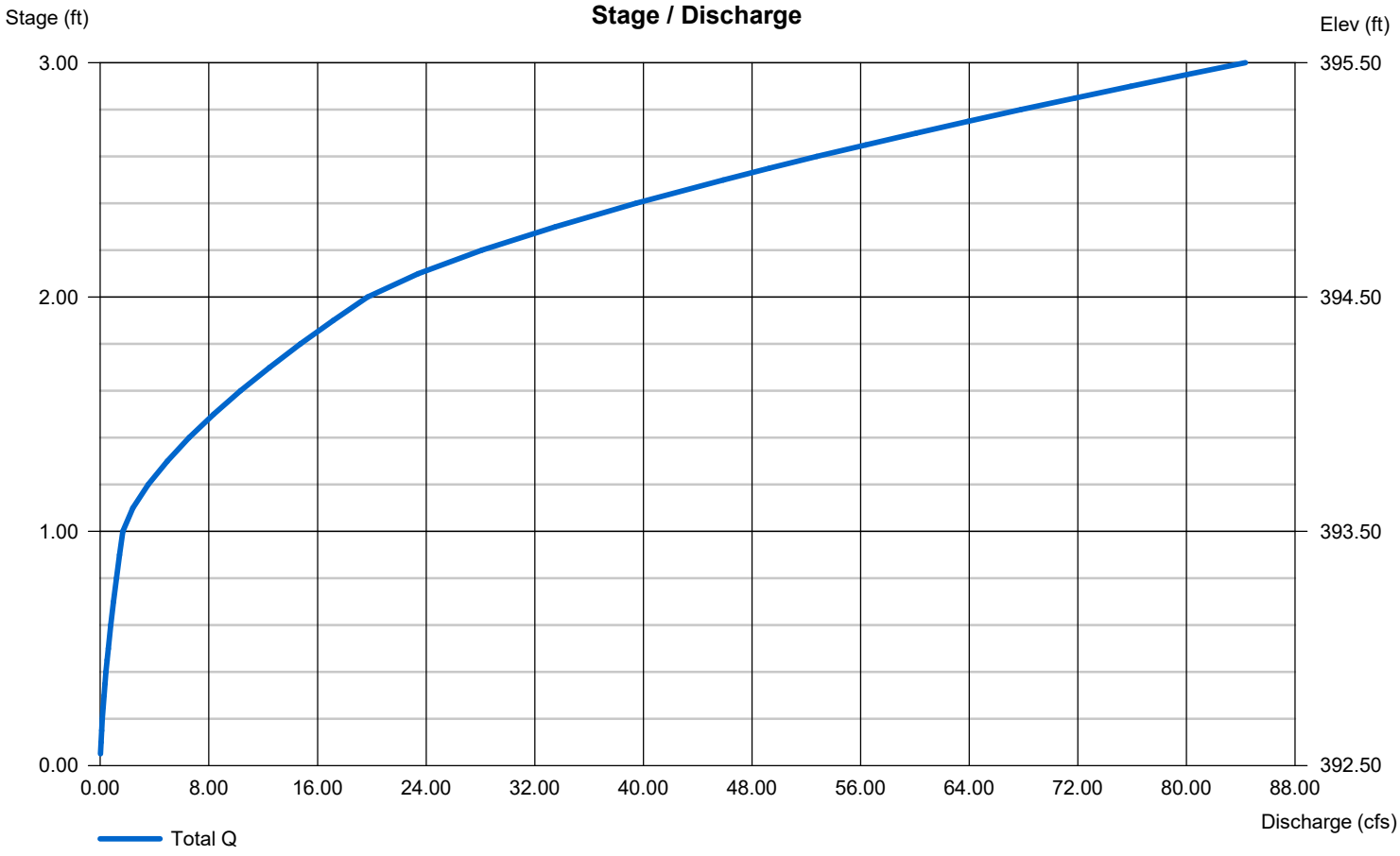
Weir Structures

	[A]	[B]	[C]	[D]
Crest Len (ft)	= 0.50	4.50	10.00	0.00
Crest El. (ft)	= 392.50	393.50	394.50	0.00
Weir Coeff.	= 3.33	3.33	3.33	3.33
Weir Type	= Rect	Rect	Rect	---
Multi-Stage	= No	No	No	No

Exfil.(in/hr) = 0.000 (by Contour)

TW Elev. (ft) = 0.00

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



Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2026

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	Rational	11.72	1	16	11,251	------	------	------	Pre Dev. Flow
2	Rational	20.31	1	6	7,313	------	------	------	DEV GENERATED FLOW-(ONSITE)
3	Rational	2.949	1	16	2,831	------	------	------	DEV GENERATED FLOW(OFF SITE
4	Combine	21.42	1	6	10,144	2, 3	------	------	<no description>
5	Reservoir	2.279	1	20	10,135	4	393.58	7,570	POST DEVELOPMENT FLOW

Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2026

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	Rational	13.96	1	16	13,401	------	------	------	Pre Dev. Flow
2	Rational	24.10	1	6	8,675	------	------	------	DEV GENERATED FLOW-(ONSITE)
3	Rational	3.512	1	16	3,372	------	------	------	DEV GENERATED FLOW(OFF SITE
4	Combine	25.41	1	6	12,046	2, 3	------	------	<no description>
5	Reservoir	3.418	1	12	12,037	4	393.69	8,627	POST DEVELOPMENT FLOW

Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2026

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	Rational	15.76	1	16	15,128	------	------	------	Pre Dev. Flow
2	Rational	27.19	1	6	9,789	------	------	------	DEV GENERATED FLOW-(ONSITE)
3	Rational	3.965	1	16	3,806	------	------	------	DEV GENERATED FLOW(OFF SITE
4	Combine	28.68	1	6	13,595	2, 3	------	------	<no description>
5	Reservoir	4.676	1	12	13,586	4	393.78	9,542	POST DEVELOPMENT FLOW

Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2026

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	Rational	18.07	1	16	17,350	------	------	------	Pre Dev. Flow
2	Rational	31.19	1	6	11,229	------	------	------	DEV GENERATED FLOW-(ONSITE)
3	Rational	4.547	1	16	4,365	------	------	------	DEV GENERATED FLOW(OFF SITE
4	Combine	32.90	1	6	15,594	2, 3	------	------	<no description>
5	Reservoir	6.465	1	11	15,585	4	393.89	10,669	POST DEVELOPMENT FLOW

Hydrograph Summary Report

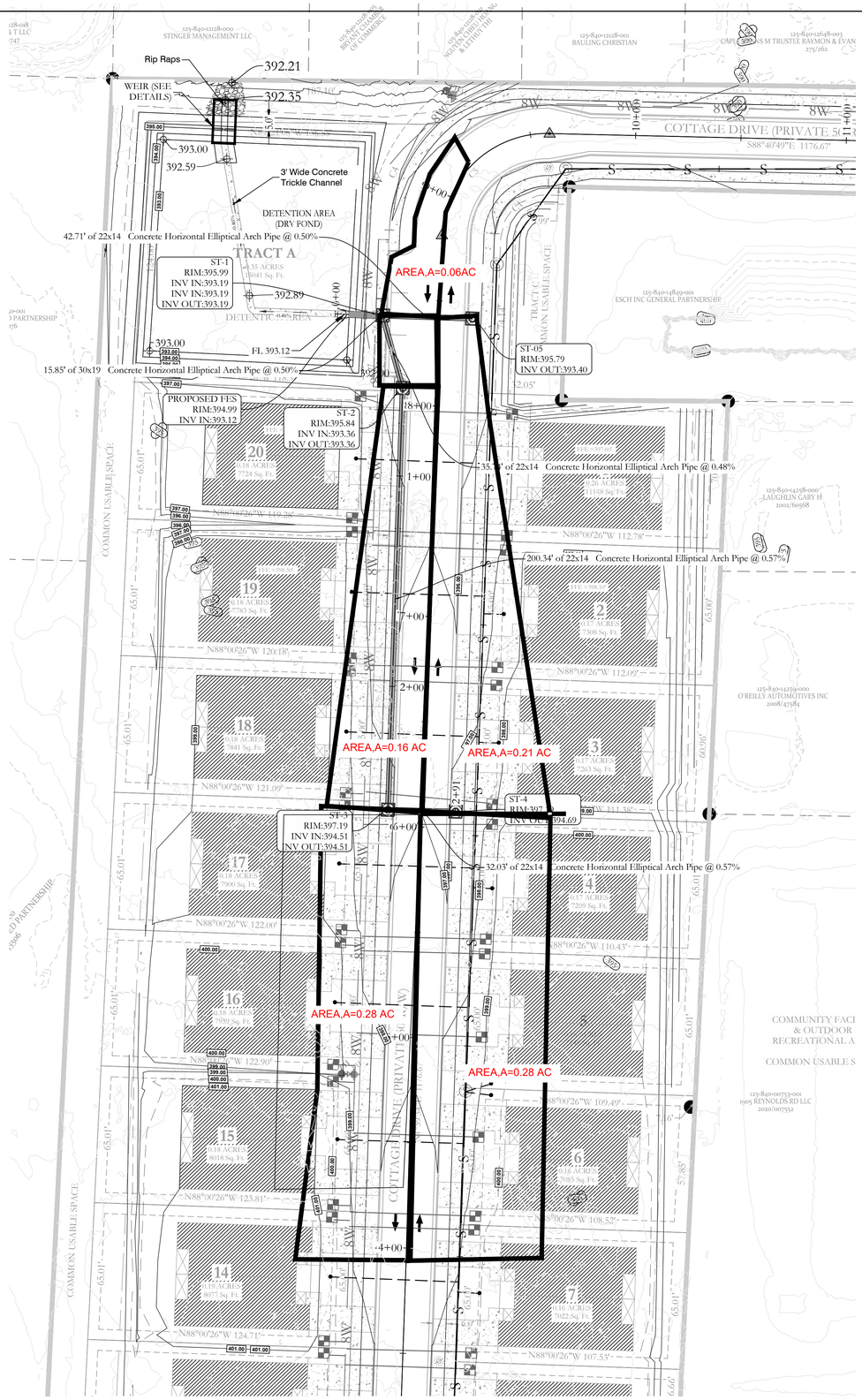
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2026

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	Rational	19.79	1	16	18,995	------	------	------	Pre Dev. Flow
2	Rational	34.02	1	6	12,247	------	------	------	DEV GENERATED FLOW-(ONSITE)
3	Rational	4.978	1	16	4,779	------	------	------	DEV GENERATED FLOW(OFF SITE
4	Combine	35.89	1	6	17,026	2, 3	------	------	<no description>
5	Reservoir	7.862	1	11	17,017	4	393.97	11,446	POST DEVELOPMENT FLOW

Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2026

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	Rational	21.44	1	16	20,582	------	------	------	Pre Dev. Flow
2	Rational	36.96	1	6	13,307	------	------	------	DEV GENERATED FLOW-(ONSITE)
3	Rational	5.394	1	16	5,178	------	------	------	DEV GENERATED FLOW(OFF SITE
4	Combine	38.99	1	6	18,486	2, 3	------	------	<no description>
5	Reservoir	9.253	1	11	18,476	4	394.05	12,227	POST DEVELOPMENT FLOW



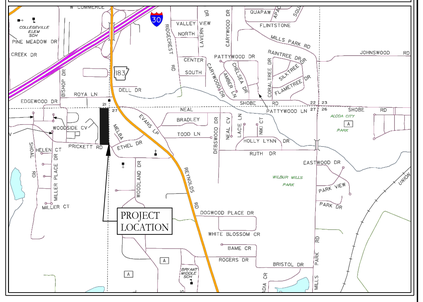
NOTES:

1. ALL WATER LINES CROSSING UNDER ANY STORM DRAIN, SHALL BE STEEL ENCASED A MINIMUM OF 5 FEET EITHER SIDE OF THE STORM DRAIN.

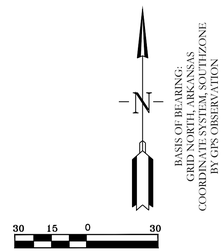
2. THE ENGINEER OF RECORD TO PROVIDE INSPECTIONS ON CONSTRUCTION ACTIVITIES FOR STORM LINES.

3. ALL THE STORM DRAINAGE HAVE BEEN DESIGNED IN COMPLIANCE WITH THE CITY OF BRYANT STANDARD SPECIFICATIONS AND STORM DRAINAGE MANUAL.

VICINITY MAP:



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



BASIS OF BEARING:
GRID NORTH, ARKANSAS
COORDINATE SYSTEM, SOUTHZONE
BY GPS OBSERVATION

LEGEND
- Found Aliquot Corner
- Found monument
- Set ½" Rebar
- Computed point
(M) - Measured
(P) - Plat/Deed
- Fence

HOPE CONSULTING
ENGINEERS - SURVEYORS
129N. Main Street,
Benton, Arkansas 72015
PH. (501)315-2626
FAX (501) 315-0024
www.hopeconsulting.com

FOR USE AND BENEFIT OF:
HERITAGE HOMES

THE COTTAGES OF BRYANT
DRAINAGE EXHIBIT

PRICKETT ROAD, BRYANT ,ARKANSAS

DATE:	09-23-2026	C.A.D. BY:	DRAWING NUMBER:
REVISED:	10-21-2026	CHECKED BY:	26-0288
SHEET:	C-4.1	SCALE:	

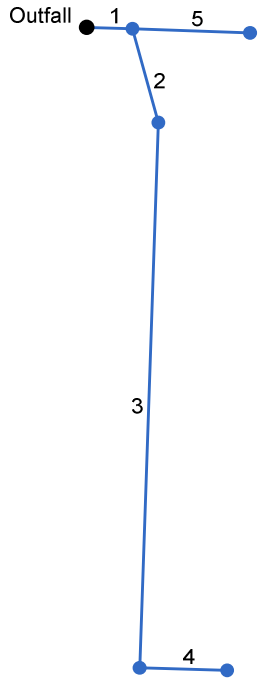
500	01S	14W	0	28		62	1664

CERTIFICATE OF AUTHORIZATION
HOPE CONSULTING, INC.
No. 991
ARKANSAS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
NO. 20070
A.R.T. TAWZIWAZ

SURVEY DEPOT/CONSULTING AND PROJECTS 2026/SUBDIVISIONS/2500-25-0288 HERITAGE HOMES PRICKETT RD/DWG 26-0288 PUD PRICKETT ROAD DRAINAGE AND DETENTION 09-15-2026.DWG

Hydraflow Storm Sewers Extension for Autodesk® Civil 3D® Plan



Project File: storm analysis 9-21-2026.stm	Number of lines: 5	Date: 10/22/2026

Storm Sewer Inventory Report

Line No.	Alignment				Flow Data				Physical Data								Line ID
	Dnstr Line No.	Line Length (ft)	Defl angle (deg)	Junc Type	Known Q (cfs)	Drng Area (ac)	Runoff Coeff (C)	Inlet Time (min)	Invert El Dn (ft)	Line Slope (%)	Invert El Up (ft)	Line Size (in)	Line Shape	N Value (n)	J-Loss Coeff (K)	Inlet/ Rim El (ft)	
1	End	16.793	1.818	Curb	0.00	0.06	0.80	6.0	393.12	0.42	393.19	19X30	Ell	0.012	1.44	395.92	Pipe - (9)
2	1	35.743	72.743	Curb	0.00	0.16	0.80	6.0	393.19	0.48	393.36	14X22	Ell	0.012	0.52	395.84	Pipe - (8)
3	2	200.344	17.431	Curb	0.00	0.28	0.80	6.0	393.36	0.57	394.51	14X22	Ell	0.012	1.50	397.19	Pipe - (10)
4	3	32.000	-90.463	Curb	0.00	0.26	0.80	6.0	394.51	0.56	394.69	14X22	Ell	0.012	1.00	397.19	Pipe - (13)
5	1	43.000	0.072	Curb	0.00	0.21	0.80	6.0	393.19	0.49	393.40	14X22	Ell	0.012	1.00	395.79	Pipe - (18)

Project File: storm analysis 9-21-2026.stm | Number of lines: 5 | Date: 10/22/2026

Structure Report

Struct No.	Structure ID	Junction Type	Rim Elev (ft)	Structure			Line Out			Line In		
				Shape	Length (ft)	Width (ft)	Size (in)	Shape	Invert (ft)	Size (in)	Shape	Invert (ft)
1	ST-1	Curb-	395.92	Cir	4.00	4.00	19x30	Ellip	393.19	14x22 14x22	Ellip Ellip	393.19 393.19
2	ST-2	Curb-	395.84	Cir	4.00	4.00	14x22	Ellip	393.36	14x22	Ellip	393.36
3	ST-3	Curb-	397.19	Cir	4.00	4.00	14x22	Ellip	394.51	14x22	Ellip	394.51
4	ST-4	Curb-	397.19	Cir	4.00	4.00	14x22	Ellip	394.69			
5	ST-05	Curb-	395.79	Cir	4.00	4.00	14x22	Ellip	393.40			

Storm Sewer Tabulation

Station		Len	Drng Area		Rnoff coeff	Area x C		Tc		Rain (I)	Total flow	Cap full	Vel	Pipe		Invert Elev		HGL Elev		Grnd / Rim Elev		Line ID
Line	To Line	(ft)	Incr (ac)	Total (ac)	(C)	Incr	Total	Inlet (min)	Syst (min)	(in/hr)	(cfs)	(cfs)	(ft/s)	Size (in)	Slope (%)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	
1	End	16.793	0.06	0.97	0.80	0.05	0.78	6.0	8.0	8.7	6.77	15.33	3.96	19 x 30 e	0.42	393.12	393.19	393.86	394.14	393.12	395.92	Pipe - (9)
2	1	35.743	0.16	0.70	0.80	0.13	0.56	6.0	7.8	8.8	4.93	7.21	4.12	14 x 22 e	0.48	393.19	393.36	394.32	394.20	395.92	395.84	Pipe - (8)
3	2	200.344	0.28	0.54	0.80	0.22	0.43	6.0	6.4	9.4	4.08	7.92	3.96	14 x 22 e	0.57	393.36	394.51	394.41	395.30	395.84	397.19	Pipe - (10)
4	3	32.000	0.26	0.26	0.80	0.21	0.21	6.0	6.0	9.7	2.01	7.84	2.94	14 x 22 e	0.56	394.51	394.69	395.47	395.25	397.19	397.19	Pipe - (13)
5	1	43.000	0.21	0.21	0.80	0.17	0.17	6.0	6.0	9.7	1.63	7.31	2.78	14 x 22 e	0.49	393.19	393.40	394.32	393.91	395.92	395.79	Pipe - (18)

Project File: storm analysis 9-21-2026.stm

Number of lines: 5

Run Date: 10/22/2026

NOTES:Intensity = 47.96 / (Inlet time + 5.50) ^ 0.65; Return period =Yrs. 50 ; c = cir e = ellip b = box

Inlet Report

Line No	Inlet ID	Q = CIA (cfs)	Q carry (cfs)	Q capt (cfs)	Q Byp (cfs)	Junc Type	Curb Inlet		Grate Inlet			Gutter							Inlet			Byp Line No
							Ht (in)	L (ft)	Area (sqft)	L (ft)	W (ft)	So (ft/ft)	W (ft)	Sw (ft/ft)	Sx (ft/ft)	n	Depth (ft)	Spread (ft)	Depth (ft)	Spread (ft)	Depr (in)	
1	ST-1	0.46	0.00	0.47	0.00	Curb	4.0	8.00	0.00	0.00	0.00	Sag	1.50	0.050	0.020	0.013	0.12	3.57	0.12	3.57	0.0	Off
2	ST-2	1.24	0.18	1.42	0.00	Curb	4.0	8.00	0.00	0.00	0.00	0.005	1.50	0.050	0.020	0.013	0.21	8.34	0.20	0.59	2.0	1
3	ST-3	2.17	0.00	1.99	0.18	Curb	4.0	8.00	0.00	0.00	0.00	0.005	1.50	0.050	0.020	0.013	0.24	9.88	0.28	3.26	2.0	2
4	ST-4	2.01	0.00	2.01	0.00	Curb	4.0	12.00	0.00	0.00	0.00	0.005	1.50	0.050	0.020	0.013	0.24	9.59	0.25	0.00	3.0	3
5	ST-05	1.63	0.00	1.63	0.00	Curb	4.0	8.00	0.00	0.00	0.00	Sag	2.00	0.050	0.020	0.013	0.21	7.74	0.21	7.74	0.0	Off

Project File: storm analysis 9-21-2026.stm | Number of lines: 5 | Run Date: 10/22/2026

NOTES: Inlet N-Values = 0.016; Intensity = 47.96 / (Inlet time + 5.50) ^ 0.65; Return period = 50 Yrs. ; * Indicates Known Q added. All curb inlets are throat.

Storm Sewer Inlet Time Tabulation

Line No.	Line ID	Tc Method	Sheet Flow					Shallow Concentrated Flow					Channel Flow							Total Travel Time (min)
			n-Value	flow Length (ft)	2-yr 24h P (in)	Land Slope (%)	Travel Time (min)	flow Length (ft)	Water Slope (%)	Surf Descr	Ave Vel (ft/s)	Travel Time (min)	X-sec Area (sqft)	Wetted Perim (ft)	Chan Slope (%)	n-Value	Vel	flow Length (ft)	Travel Time (min)	
1	Pipe - (9)	User																		6.00
2	Pipe - (8)	User																		6.00
3	Pipe - (10)	User																		6.00
4	Pipe - (13)	User																		6.00
5	Pipe - (18)	User																		6.00

Project File: storm analysis 9-21-2026.stm | Min. Tc used for intensity calculations = 5 min | Number of lines: 5 | Date: 10/22/2026

Hydraulic Grade Line Computations

Line	Size	Q	Downstream								Len	Upstream								Check		JL coeff	Minor loss
			Invert elev	HGL elev	Depth	Area	Vel	Vel head	EGL elev	Sf		Invert elev	HGL elev	Depth	Area	Vel	Vel head	EGL elev	Sf	Ave Sf	Enrgy loss		
	(in)	(cfs)	(ft)	(ft)	(ft)	(sqft)	(ft/s)	(ft)	(ft)	(%)	(ft)	(ft)	(ft)	(ft)	(sqft)	(ft/s)	(ft)	(ft)	(%)	(%)	(ft)	(K)	(ft)
1	19 30 e	6.77	393.12	393.86	0.74	1.49	4.54	0.18	394.04	0.000	16.793	393.19	394.14	0.95**	2.01	3.38	0.18	394.32	0.000	0.000	n/a	1.44	0.26
2	14 22 e	4.93	393.19	394.32	1.13	1.08	4.55	0.21	394.53	0.000	35.743	393.36	394.20	0.84**	1.34	3.69	0.21	394.41	0.000	0.000	n/a	0.52	n/a
3	14 22 e	4.08	393.36	394.41	1.05	0.87	4.67	0.16	394.58	0.000	200.344	394.51	395.30	0.79**	1.26	3.24	0.16	395.47	0.000	0.000	n/a	1.50	0.24
4	14 22 e	2.01	394.51	395.47	0.96	0.60	3.38	0.10	395.56	0.000	32.000	394.69	395.25	0.56**	0.81	2.50	0.10	395.35	0.000	0.000	n/a	1.00	n/a
5	14 22 e	1.63	393.19	394.32	1.13	0.50	3.23	0.08	394.40	0.000	43.000	393.40	393.91	0.51**	0.70	2.33	0.08	394.00	0.000	0.000	n/a	1.00	0.08

Project File: storm analysis 9-21-2026.stm | Number of lines: 5 | Run Date: 10/22/2026

Notes: ; ** Critical depth. ; c = cir e = ellip b = box

Supplemental Friction Slope Calculation (Manning's Equation)

Project file: storm analysis 9-21-2026.stm Hydraflow run date: 10/22/2026 Manning's n: 0.012 (RCP)

Purpose

Hydraflow Storm Sewers does not report friction slope (Sf) for lines whose upstream end is controlled by critical depth. All five lines in this run are critical at the upstream end (see HGL Computations, ** notation). This sheet computes Sf separately to document pipe friction for each line. It supplements, and does not replace, the Hydraflow output.

Method

$S_f = [\, Q\, n / (1.486\, A\, R^{2/3}) \,]^2$ where R = A / P (Q = flow, cfs; A = flow area, sq ft; P = wetted perimeter, ft; R = hydraulic radius, ft)

Flow rates (Q) and flow areas (A) at each end of each line are taken directly from the Hydraflow HGL Computations report. Wetted perimeter is computed from horizontal elliptical pipe geometry at the flow depth that produces the Hydraflow area. Velocities (V) are as reported by Hydraflow. Average Sf = (Sf downstream + Sf upstream) / 2; friction loss h_f = Average Sf / 100 x Line length.

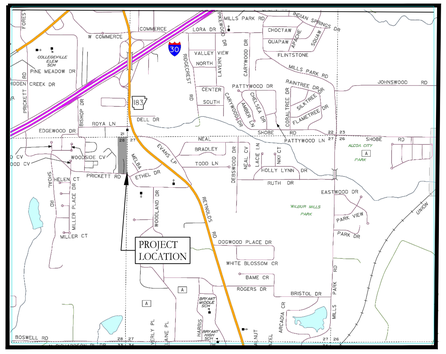
Line	Size (in, ellip)	Q (cfs)	DOWNSTREAM					UPSTREAM					Avg Sf (%)	Length (ft)	h_f (ft)
			A (sq ft)	P (ft)	R (ft)	V (ft/s)	Sf (%)	A (sq ft)	P (ft)	R (ft)	V (ft/s)	Sf (%)			
1	19 x 30	6.77	1.49	3.20	0.466	4.54	**0.372**	2.01	3.62	0.555	3.38	**0.162**	**0.267**	16.793	0.045
2	14 x 22	4.93	1.08	2.66	0.407	4.55	**0.451**	1.34	3.01	0.445	3.69	**0.260**	**0.355**	35.743	0.127
3	14 x 22	4.08	0.87	2.42	0.360	4.67	**0.560**	1.26	2.89	0.436	3.24	**0.207**	**0.384**	200.344	0.769
4	14 x 22	2.01	0.60	2.12	0.284	3.38	**0.393**	0.81	2.35	0.344	2.50	**0.166**	**0.280**	32.000	0.089
5	14 x 22	1.63	0.50	1.99	0.251	3.23	**0.437**	0.70	2.23	0.314	2.33	**0.166**	**0.302**	43.000	0.130

Notes

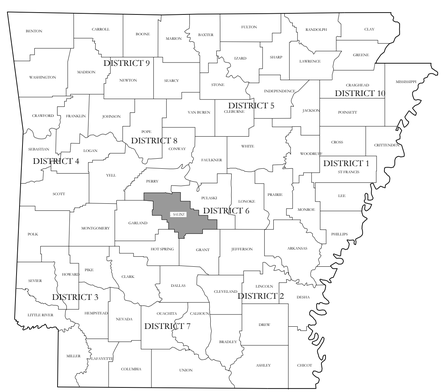
1. Hydraflow does not report friction slope for lines whose upstream end is controlled by critical depth. Friction slopes above were computed separately using Manning's equation and the flow areas reported by Hydraflow.
2. Lines 2, 4 and 5 contain supercritical flow with a hydraulic jump near the downstream end. Downstream flow areas are the supercritical (pre-jump) values reported by Hydraflow, so downstream Sf is conservative (high).
3. Energy loss (EGL upstream minus EGL downstream) is not reported for these reaches because friction alone does not balance the energy equation where critical depth and a hydraulic jump occur. The friction loss h_f shown is pipe friction only.
4. HGL and EGL elevations are as computed by Hydraflow and are not modified by this calculation.

CONSTRUCTION PLANS
PROPOSED RESIDENTIAL DEVELOPMENT

PRICKETT RD, BRYANT , AR



VICINITY MAP



PREPARED BY:

HOPE CONSULTING
ENGINEERS - SURVEYORS

129 N. Main Street,
Benton, Arkansas 72015
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www.hopeconsulting.com

DRAWING INDEX

SHEET NO.	TITLE
C-1.0	PLAT
C-1.1	STREET PLANS & PROFILES
C-1.2	GRADING PLAN
C-2.0	WATER PLAN
C-2.1	SEWER PLAN
C-2.2	SEWER PLAN & PROFILE
C-3.0	WATER DETAILS
C-3.1	WATER DETAILS
C-3.2	SEWER DETAILS
C-3.3	MISCELLANEOUS DETAILS
C-4.0	DRAINAGE PLAN & PROFILE
C-5.0-5.2	EROSION CONTROL PLAN
C-6.0	DETENTION

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

CIVIL ENGINEER
HOPE CONSULTING INC
129 N. MAIN STREET
BENTON, AR 72015

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
NO. 20870
KAZI TAMZIDUL ISLAM

CERTIFICATE OF AUTHORIZATION
HOPE CONSULTING, INC.
No. 1931
ARKANSAS

HOPE CONSULTING
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FAX (501) 315-0024
www.hopeconsulting.com

FOR USE AND BENEFIT OF:
HERITAGE HOMES LLC.

THE COTTAGES OF BRYANT
PRICKETT RD , BRYANT, AR

DATE:	09/23/2026	C.A.D. BY:		DRAWING NUMBER:				
REVISED:	10-21-2026	CHECKED BY:		26-0288				
SHEET:		SCALE:						
500	01S	14W	0	28		62	1664	

EDIT TAGS NAD 83 DATUM LEICNP PRC 0 D 8588 26/05/2026 03:03:00 DT 10/21/2026 PRC 0 ESRI: 102739 EPSG: 3433 NAD_1983_StatePlane_Arkansas_North_FIPS_0301 Feet US EPSG: 3433 DWG TO PDF.PC3 10-19-2026 MODEL DETAIL

125-840-12128-018
NEW B, B & T LLC
2013/69747

125-840-12128-000
STINGER MANAGEMENT LLC

125-840-12128-005
BRYANT CHAMBER OF COMMERCE

125-840-12128-010
NGUYEN CHEU HOANG & LETHUY TH

125-840-12128-001
BAULING CHRISTIAN

125-840-12648-003
CAPLE EVANS M TRUSTEE RAYMON & EVANS CAPLE REVOCAB
275/262

NORTH REYNOLDS ROAD (80' R/W)
MINOR ARTERIAL STREET
PER CITY OF BRYANT MASTER STREET PLAN

ADA RAMP

COTTAGE DRIVE (PRIVATE 50' R/W)
S88°40'49"E 1176.67'

SIGN LOCATION

ADA RAMP

N

BASIS OF BEARING:
GRID NORTH, ARKANSAS
COORDINATE SYSTEM, SOUTH ZONE
BY
GPS OBSERVATION

30' 15' 0 30'

TRACT A
0.35 ACRES
15041 Sq. Ft.

DETENTION AREA

124.00'

N89°21'08"W 136.55'

187.10'

N88°00'26"W 118.37'

76.34'

74.14'

TRACT C
COMMON USABLE SPACE

9.99'

32.05'

125-840-14849-001
ESCH INC GENERAL PARTNERSHIP

125-840-14850-001
NORTHGATE LIMITED PARTNERSHIP
2025/016076

NOTES:

1. TRACTS B AND C WILL BE USED FOR RECREATIONAL USE AND WALKING TRAILS AND WILL BE MAINTAINED AND OWNED BY THE PROPERTY OWNERS ASSOCIATION.
2. TRACT A WILL BE UTILIZED AS A DETENTION AREA/DRY POND AND UTILITY EASEMENT MAINTAINED BY THE PROPERTY OWNERS ASSOCIATION.

Curve Table					
Curve #	Length	Radius	Delta	Chord Direction	Chord Length
C1	38.98	24.99	89.36	N46° 39' 06"E	35.14
C2	38.85	25.05	88.86	N42° 33' 19"W	35.08
C3	17.76	25.00	40.70	N22° 20' 37"E	17.39
C4	55.88	75.00	42.69	N23° 20' 10"E	54.59
C5	77.95	50.00	89.33	N46° 39' 22"E	70.29
C6	22.45	75.00	17.15	N82° 44' 41"E	22.37
C7	39.94	75.00	30.51	N59° 56' 01"E	39.47

20
0.18 ACRES
7724 Sq. Ft.
FFE =398.0'
N88°00'26"W 119.28'

19
0.18 ACRES
7783 Sq. Ft.
FFE =398.50'
N88°00'26"W 120.18'

18
0.18 ACRES
7841 Sq. Ft.
N88°00'26"W 121.09'

17
0.18 ACRES
7900 Sq. Ft.
N88°00'26"W 122.00'

16
0.18 ACRES
7959 Sq. Ft.
N88°00'26"W 122.90'

15
0.18 ACRES
8018 Sq. Ft.
N88°00'26"W 123.81'

14
0.19 ACRES
8077 Sq. Ft.
N88°00'26"W 124.71'

13
0.18 ACRES
8048 Sq. Ft.
N87°22'20"W 125.61'

COMMON USABLE SPACE

65.01' / 65.00' / 63.61'

TRACT B
0.43 ACRES
18818 Sq. Ft.

125-840-14850-000
PDC THIRTY NINE LIMITED PARTNERSHIP
2012/45506

1
0.26 ACRES
11148 Sq. Ft.
FFE =397.60'
N88°00'26"W 112.78'

2
0.17 ACRES
7308 Sq. Ft.
FFE =398.10'
N88°00'26"W 112.09'

3
0.17 ACRES
7263 Sq. Ft.
N88°00'26"W 111.38'

4
0.17 ACRES
7209 Sq. Ft.
N88°00'26"W 110.43'

5
0.16 ACRES
7148 Sq. Ft.
N88°00'26"W 109.49'

6
0.16 ACRES
7085 Sq. Ft.
N88°00'26"W 108.52'

7
0.16 ACRES
7022 Sq. Ft.
N88°00'26"W 107.53'

8
0.16 ACRES
6952 Sq. Ft.
N88°00'26"W 106.36'

9
0.16 ACRES
6888 Sq. Ft.
N88°00'26"W 105.57'

10
0.16 ACRES
6836 Sq. Ft.
N88°00'26"W 104.77'

11
0.16 ACRES
6784 Sq. Ft.
N88°00'26"W 103.97'

12
0.18 ACRES
8039 Sq. Ft.
78.40'

65.00' / 65.01' / 70.90' / 70.12' / 60.96' / 57.85' / 39.78' / 16.66' / 7.16' / 8.57' / 53.52' / 79.75' / 379.50'

6.0'

COMMUNITY FACLITY
& OUTDOOR
RECREATIONAL AREA

COMMON USABLE SPACE

125-840-14258-000
LAUGHLIN GARY H
2002/60568

125-840-14259-000
O'REILLY AUTOMOTIVES INC
2008/47584

125-840-00753-001
1905 REYNOLDS RD LLC
2020/007552

125-840-01253-000
HUNTER JOHN EDWARD & DANITA DEALVA
2003/11747

125-840-01251-000
HUNTER JOHN E & DANITA
2002/25415

125-840-14849-000
GOLDEN CHERYL D JACKSON & DARRYL
2022/014424

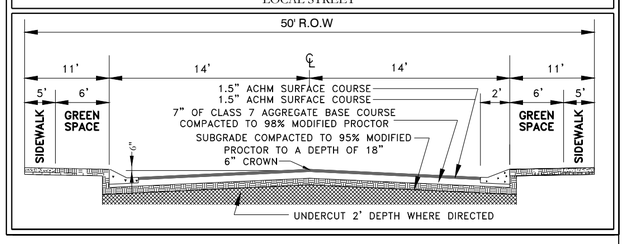
PRICKETT ROAD (60' R/W)
COLLECTOR STREET
PER CITY OF BRYANT MASTER STREET PLAN

SIGN LOCATION

STREET CENTERLINE

STREET RIGHT OF WAY

LOCAL STREET



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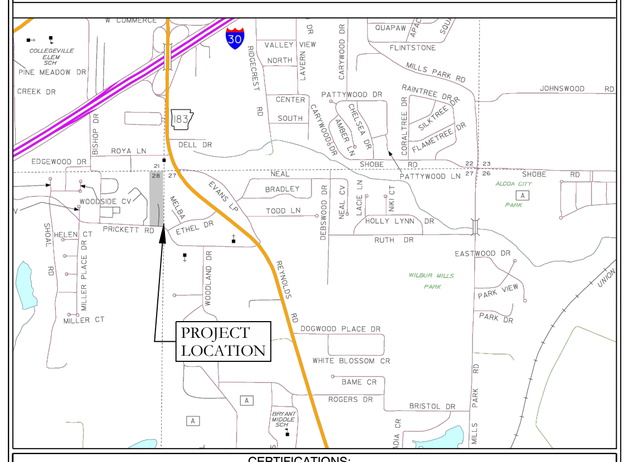


CERTIFICATIONS:

OWNER:

Name: HERITAGE HOMES, LLC
Address: 12585 SAMPLES ROAD
ALEXANDER , AR 72002

DEVELOPER:

Name: HERITAGE HOMES, LLC
Address: 12585 SAMPLES ROAD
ALEXANDER , AR 72002

CERTIFICATE OF OWNER:

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

Date of Execution _____ Name: HERITAGE HOMES, LLC
Address: 12585 SAMPLES ROAD
ALEXANDER , AR 72002

Source of Tile: D.R. BOOK 2023 PAGE 015874

CERTIFICATE OF SURVEYING ACCURACY:

I, Jonathan L. Hope, hereby certify that this plat correctly represents a boundary survey made by me or under my supervision; that all monuments shown hereon actually exist and their location, size, type and material are correctly shown; and that all interior lot lines are accurately described in terms of length and direction of the property sides.

Date of Execution

Jonathan L. Hope
Registered Professional
Land Surveyor No. 1762 Arkansas

CERTIFICATE OF PRELIMINARY ENGINEERING ACCURACY:

I, Kazi Tamzidul Islam, hereby certify that this plat correctly represents a plan made by me, and that the engineering requirements of the City of Bryant Subdivision Rules and Regulations have been complied with.

Date of Execution

Kazi Tamzidul Islam
Registered Professional Engineer
Arkansas No. 20876

CERTIFICATE OF PRELIMINARY PLAT APPROVAL:

Pursuant to the City of Bryant Subdivision Rules and Regulations, and all of the conditions of approval having been completed, this document is hereby accepted. This certificate is hereby executed under the authority of said rules and regulations.

Date of Execution

Lance Penfield
Bryant Planning Commission

CERTIFICATE OF AUTHORIZATION — HOPE CONSULTING, INC. — No. 1931 — ARKANSAS

STATE OF ARKANSAS — LICENSED PROFESSIONAL ENGINEER — KAZI TAMZIDUL ISLAM — NO. 20876

REGISTERED — STATE OF ARKANSAS NO. 1762 — SIGNATURE — JONATHAN L. HOPE — PROFESSIONAL LAND SURVEYOR

TYPICAL LOT
SETBACKS & EASEMENTS
NTS

PROPERTY SPECIFICATIONS:

OWNER: HERITAGE HOMES, LLC
12585 SAMPLES ROAD
ALEXANDER , AR 72002

DEVELOPER/: HERITAGE HOMES, LLC
SUBDIVIDER 12585 SAMPLES ROAD
ALEXANDER , AR 72002

ENGINEERS: HOPE CONSULTING INC.
129 S MAIN STREET
BENTON, AR 72015

NAME OF SUBDIVISION: THE COTTAGES OF BRYANT

RESIDENTIAL DUPLEX HOMES.

ALLOWABLE FACADE: BRICK, VINYL, GLASS & WOOD

SOURCE OF TITLE: SALINE COUNTY DOCUMENT
BOOK 2023 PAGE 015874

MIN. LOT SIZE:
NUMBER OF LOTS: 20

EXISTING ZONING: R-E (RESIDENTIAL-NO SEWER)
PROPOSED ZONING: PLANNED UNIT DEVELOPMENT

SOURCE OF WATER: CITY OF BRYANT
SOURCE OF SEWER: CITY OF BRYANT
SOURCE OF ELECTRIC: ENTERGY
SOURCE OF GAS: CENTERPOINT ENERGY

BUILDING SETBACKS:
FRONT - 25' OR AS SHOWN
REAR - 15' OR AS SHOWN
SIDE - 5' OR AS SHOWN

EASEMENTS: UTILITY & DRAINAGE (D.E. & U.E.)
FRONT - 10' OR AS SHOWN
REAR - 10' OR AS SHOWN
SIDE - 5' OR AS SHOWN

STREET RIGHT OF WAYS: 50' OR AS SHOWN
STREET WIDTH: 28' BOC TO BOC
LOT CORNERS: SET 1/2" REBAR WITH CAP

OPEN SPACE CALCULATION

TRACT A	DETENTION AREA / DRY POND	0.35 ACRES
TRACT B	GREEN SPACE / WALKING TRAIL	0.43 ACRES
TRACT C	COMMON / OUTER GREEN SPACE	0.10 ACRES
COMMON	GREEN SPACE BEHIND SIDEWALK	0.02 ACRES
		0.90 ACRES
GREEN SPACE BETWEEN BOC & SIDEWALK		0.31 ACRES
	TOTAL	1.21 ACRES OR 24.69%

RESIDENTIAL DENSITY CALCULATIONS

HOUSING UNITS	42 UNITS
TOTAL DEVELOPABLE AREA	4.90 ACRES
TOTAL COMMON USABLE OPEN SPACE	1.21 ACRES
RESIDENTIAL DENSITY	42 / (4.90+1.21) = 6.87 DUA.

LEGEND

- (P) – No Parking Sign
- – Stop Sign
- – Street light
- – Fire Hydrant
- – Computed point
- – Found monument
- – Set #4 RB/Plas. Cap (SIP)
- (D) -- Deeded
- (M) -- Measured
- (P) -- Platted

HOPE CONSULTING
ENGINEERS - SURVEYORS

129 N. Main Street,
Benton, Arkansas 72015
PH. (501)315-2626
FAX (501) 315-0024
www.hopeconsulting.com

FOR USE AND BENEFIT OF:
HERITAGE HOMES, LLC

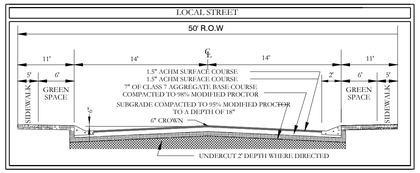
PLANNED UNIT DEVELOPMENT (PUD)
THE COTTAGES OF BRYANT

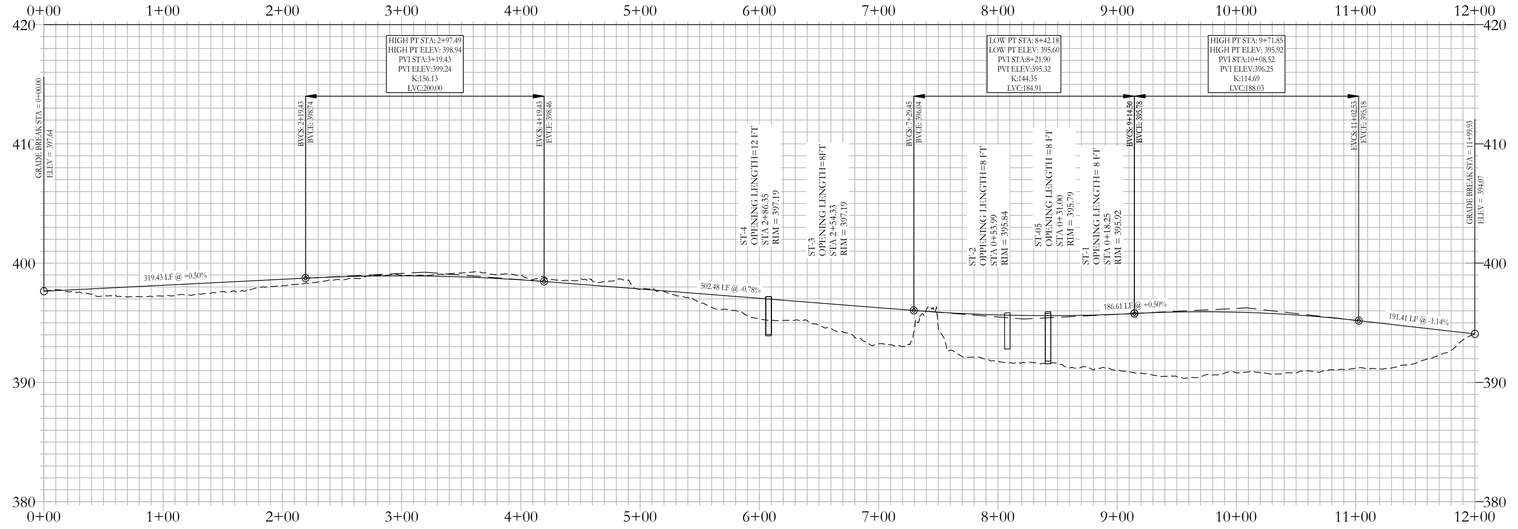
A SUBDIVISION IN THE CITY OF BRYANT, SALINE COUNTY, ARKANSAS.

DATE:	09-23-2026	C.A.D. BY:	GPW	DRAWING NUMBER:				
REVISED:	10-21-2026	CHECKED BY:		26-0288				
SHEET:	C-1.0	SCALE:	1" = 30'					
500	01S	14W	0	28	110	62	1762	

H:\Shared\Hope\Consulting\Land Projects 2\044\Subdivision\2026\26-0288 Heritage Homes - Prickett Rd\DWG\26-0288-PLD-08-17-26.dwg

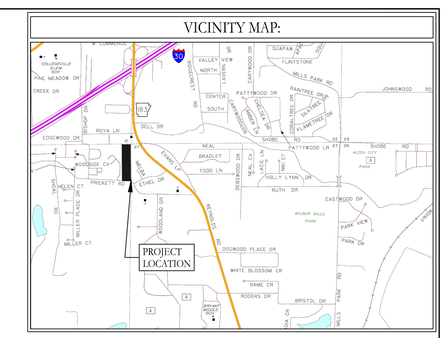






COTTAGE DRIVE PROFILE

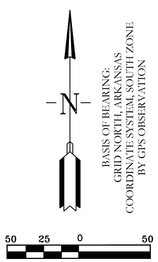
VERTICAL SCALE : 1"=6'
HORIZONTAL SCALE : 1"=60'



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







HOPE CONSULTING
ENGINEERS - SURVEYORS

129N. Main Street,
Benton, Arkansas 72015
PH. (501)315-2626
FAX (501) 315-0024
www.hopeconsulting.com

FOR USE AND BENEFIT OF:
HERITAGE HOMES

THE COTTAGES OF BRYANT
STREET PLAN & PROFILE
PRICKETT ROAD, BRYANT ,ARKANSAS

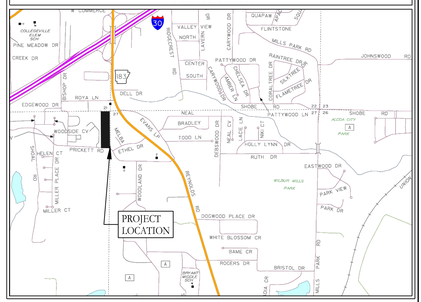
DATE:	9/23/2026	C.A.D. BY:	DRAWING NUMBER:
REVISED:	10-21-2026	CHECKED BY:	26-0288
SHEET:	C-1.1	SCALE:	

500	01S	14W	0	28		62	1664

S:\HERITAGE HOMES - PRICKETT RD\DWG'S\26-0288 FILED PRICKETT ROAD DESIGN AND GRADING - 10-15-2026 1:59:20 PM.DWG

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

VICINITY MAP:



GRADING PLAN NOTES

1. DESIGN CONTOURS SHOWN ARE FINISHED GRADE.

2. CLEAR AND GRUB AREAS OF THE SITE WHERE CUT OR FILL IS TO OCCUR.

3. FILL SHALL BE COMPACTED AT LEAST 98% OF THE MATERIALS MAXIMUM STANDARD PROCTOR DRY DENSITY.

4. THE MOISTURE CONTENT OF 1% BELOW TO 3% ABOVE THE OPTIMUM MOISTURE CONTENT.

5. SUB-GRADES SHALL BE PROOF-ROLLED WITH A LOADED DUMP TRUCK TO DETECT ZONES OF UNSUITABLE AND/OR EXCESSIVELY WET SOILS. IF PUMPING BEGINS, COMPACTION SHALL BE STOPPED IMMEDIATELY AND RESUMED ONLY WHEN THE MATERIAL IS SUFFICIENTLY DRY THAT PUMPING DOES NOT OCCUR.

6. ALL UNUSABLE SOILS SHALL BE USED ON SITE FOR FILL PURPOSES OUTSIDE THE AREAS OF BUILDING AND PAVEMENT CONSTRUCTION.

7. PROPER DRAINAGE SHALL BE MAINTAINED THROUGHOUT THE PROJECT SITE TO PREVENT THE INCREASE OF THE IN-SITU SOILS MOISTURE CONTENT.

BASIS OF BEARING:
GRID NORTH, ARKANSAS
COORDINATE SYSTEM, SOUTH ZONE
BY GPS OBSERVATION

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 20076
KAEL TAMZIDUL ISLAM

CERTIFICATE OF AUTHORIZATION
HOPE CONSULTING, INC.
No. 191
ARKANSAS

HOPE CONSULTING
ENGINEERS - SURVEYORS
129N. Main Street,
Benton, Arkansas 72015
PH. (501)315-2626
FAX (501) 315-0024
www.hopeconsulting.com

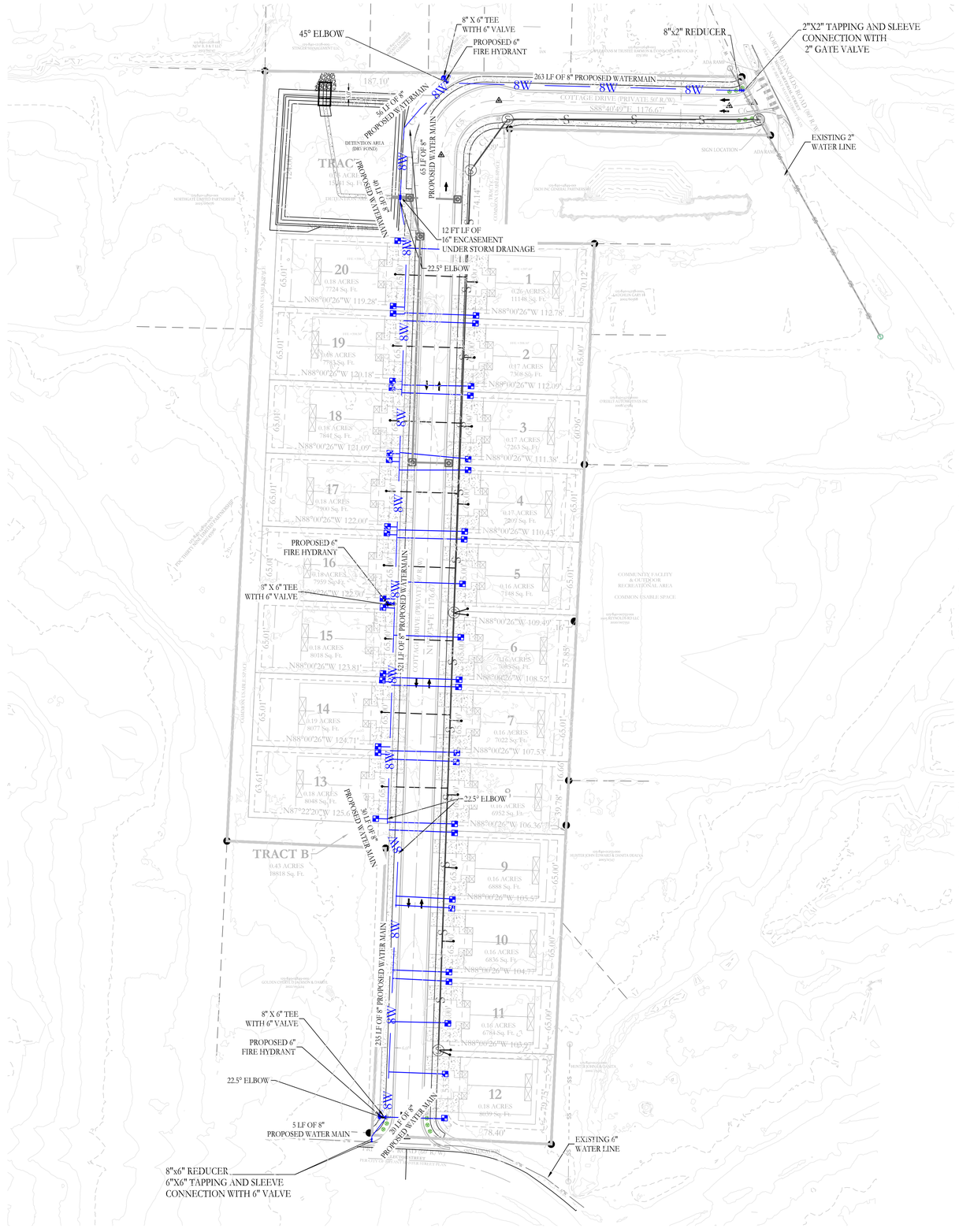
FOR USE AND BENEFIT OF:
HERITAGE HOMES

THE COTTAGES OF BRYANT
GRADING PLAN
PRICKETT ROAD, BRYANT ,ARKANSAS

DATE:	9/23/2026	C.A.D. BY:	DRAWING NUMBER:
REVISED:	10-21-2026	CHECKED BY:	26-0288
SHEET:	C-1.2	SCALE:	

500	01S	14W	0	28		62	1664

S:\HOPE\CONSULTING\LAND PROJECTS\2026\SURDIVISIONS\2026-026\DRAWINGS\PRICKETT RD\DWG\26-026 PRICKETT RD FINAL DESIGN AND GRADING - 10-13-2026.DWG



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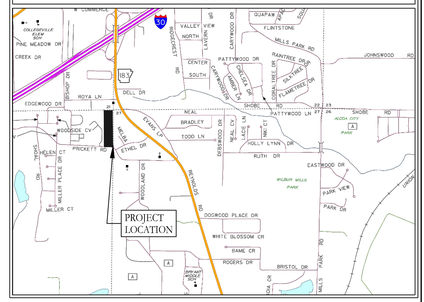

811 Know what's below. Call before you dig.

WATER UTILITY NOTES:

1. ALL NEW 6-INCH WATER MAINS TO BE CLASS 900.
2. ALL WATER CONSTRUCTION SHALL CONFORM TO " CITY OF BRYANT STANDARD SPECIFICATIONS FOR DESIGN AND CONSTRUCTION OF WATER LINES AND SEWER LINES".(2015 EDITION)
3. WATER SERVICE LINE UNDER PAVEMENT WILL HAVE 1.5"/ 2" SLEEVE.
4. ALL WATER MAIN FITTINGS SHALL BE MEGALUG BRAND MECHANICAL JOINT FITTINGS
5. ALL PVC WATER MAINS SHALL HAVE A 12-GAUGE COPPER TRACER WIRE.
6. WATER METERS SHALL BE FREE OF OBSTRUCTIONS FOR A MINIMUM OF A 3-FOOT RADIUS FROM THE CENTER OF THE WATER METER BOX.
7. MINIMUM DEPTH TO THE TOP OF PIPE FOR ALL WATER MAIN LINES SHALL BE 3.0 FEET.
8. MINIMUM DEPTH TO THE TOP OF PIPE FOR WATER LINES 18-INCHES AND GREATER SHALL BE 4.0 FEET.
9. SERVICE LINES SERVING SINGLE METER SETS AND DOUBLE METER SETS SHALL BE 1-INCH HDPE TUBING IN ACCORDANCE WITH THE CURRENT BRYANT WATER SYSTEM SPECIFICATIONS
10. SANITARY SEWERS SHALL BE INSTALLED AT LEAST TEN (10) FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER LINE.
11. SEWER LINES INSTALLED UNDER A WATER LINE MUST HAVE A CLEAR DISTANCE BETWEEN PIPES OF AT LEAST EIGHTEEN (18) INCHES.
12. A MINIMUM HORIZONTAL DISTANCE OF TEN FEET SHOULD BE MAINTAINED BETWEEN WATERLINES AND SEWER LINES OR OTHER SOURCES OF CONTAMINATION. WATER LINES AND SEWERS SHALL NOT BE LAID INTHE SAME TRENCH EXCEPT ON THE WRITTEN APPROVAL OF THE ARKANSAS DEPARTMENT OF HEALTH. WATER MAINS NECESSARILY IN CLOSE PROXIMITY TO SEWERS MUST BE PLACED SO THAT THE BOTTOM OF THE WATERLINE WILL BE AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER LINE AT ITS HIGHEST POINT. IF THIS DISTANCE MUST UNAVOIDABLY BE REDUCED, THE WATER LINE OR THE SEWER LINE MUST BE ENCASED IN WATERTIGHT PIPE WITH SEALED WATERTIGHT ENDS EXTENDING AT LEAST TEN FEET EITHER SIDE OF THE CROSSING. ANY JOINT IN THE ENCASEMENT PIPE IS TO BE MECHANICALLY RESTRAINED. THE ENCASEMENT PIPE MAY BE VENTED TO THE SURFACE IF CARRYING WATER OR SEWER UNDER PRESSURE. WHERE A WATER LINE MUST UNAVOIDABLY PASS BENEATH THE SEWER LINE, AT LEAST 18 INCHES OF SEPARATION MUST BE MAINTAINED BETWEEN THE OUTSIDE OF THE TWO PIPES IN ADDITION TO THE PRECEDING ENCASEMENT REQUIREMENT. EXCEPTIONS TO THIS MUST BE APPROVED IN WRITING BY THE ARKANSAS DEPARTMENT OF HEALTH.
13. ALL WATER LINES CROSSINGS UNDER ANY STORM DRAIN SHALL BE STEEL ENCASES A MINIMUM OF 5 FEET EITHER SIDE OF THE STORM DRAIN.
14. THE ENGINEER OF RECORD TO PROVIDE INSPECTIONS ON CONSTRUCTION ACTIVITIES FOR WATER LINES.

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
KAZIM TAWZIUL ISLAM
NO. 29876

CERTIFICATE OF AUTHORIZATION
HOPE CONSULTING, INC.
No. 1011
ARKANSAS

BASIS OF BEARING:
GRID NORTH, ARKANSAS
COORDINATE SYSTEM, SOUTH ZONE
BY GPS OBSERVATION

50 25 0 50

WATER LEGEND:

- DUAL WATER METERS
- SINGLE WATER METER
- GATE VALVE
- 45º FITTING
- 90º FITTING
- TEE FITTING
- CROSS FITTING
- FIRE HYDRANT

HOPE CONSULTING
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FAX (501) 315-0024
www.hopeconsulting.com

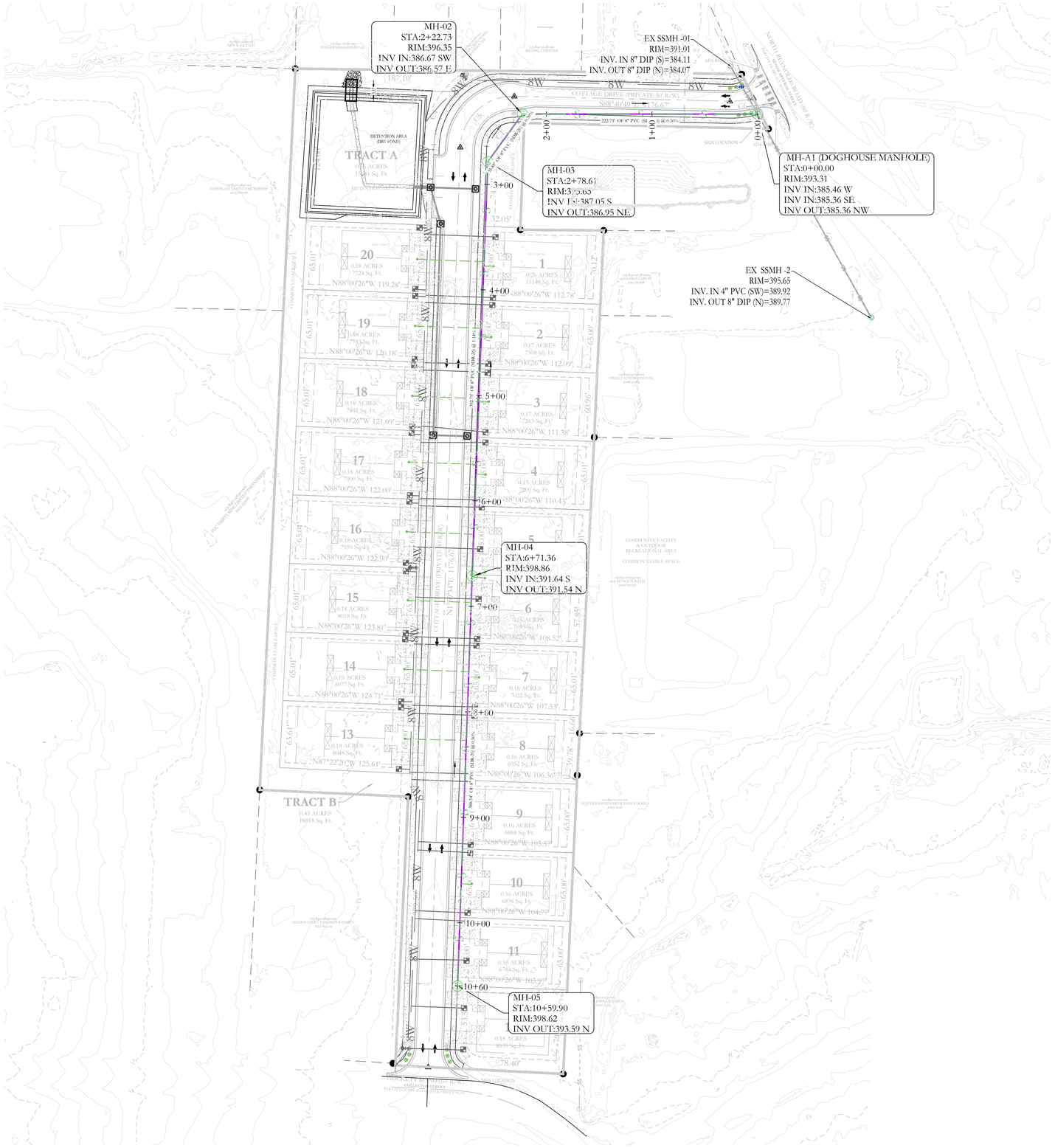
FOR USE AND BENEFIT OF:
HERITAGE HOMES

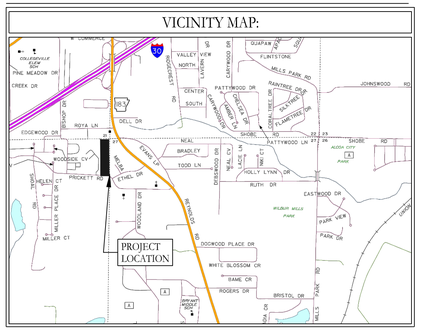
THE COTTAGES OF BRYANT
WATER PLAN
PRICKETT ROAD, BRYANT ,ARKANSAS

				DRAWING NUMBER:
DATE:	09-23-2026	C.A.D. BY:		26-0288
REVISED:	10-21-2026	CHECKED BY:		
SHEET:	C-2.0	SCALE:		

500	01S	14W	0	28		62	1664

I:\HEP\CONSULTING\LAND PROJECTS 2026\SUBDIVISIONS\2026\26-0288 HERITAGE HOMES - PRICKETT RD\DWG\26-0288 PRICKETT RD DRAINAGE AND DETENTION 09-15-2026.DWG





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

SEWER CONSTRUCTION NOTES:

1. ALL SEWER INSTALLATION TO BE IN ACCORDANCE WITH THE CITY OF BRYANT " STANDARD SPECIFICATIONS FOR DESIGN AND CONSTRUCTION OF WATER LINES AND SEWER LINES, 2015 EDITION"
2. ALL SEWER LINES CROSSING UNDER ALL CONCRETE STORM DRAINS OR ANY STORM DRAIN 30-INCH DIAMETER AND LARGER, OR ALL STORM DRAINS WITH MULTIPLE PIPE RUNS, SHALL BE STEEL ENCASED A MINIMUM OF 5 FEET EITHER SIDE OF THE STORM DRAIN.
3. CASING SPACERS: SHALL BE STAINLESS STEEL, CASCADE MODEL CCS AS MANUFACTURED BY CASCADE WATER MFG. CO., OR APPROVED EQUAL.
4. THE TOP ELEVATION OF MH`S MUST BE EQUAL TO THE FINAL ASPHALT GRADE IN THE ROAD.
5. SEWER LINES SHALL BE EXTENDED TO EACH PROPERTY TO BE SERVED BY CITY OF BRYANT SEWER.
6. SEWER LINES SHALL BE LOCATED A MINIMUM OF 36-INCHES FROM ANY OTHER PARALLEL UTILITIES (EXCEPT FOR POTABLE WATER LINES) OR RELATED STRUCTURES.
7. MATERIALS FOR SEWER LINE MAINS SHALL BE PVC SDR-26
8. A MINIMUM HORIZONTAL DISTANCE OF TEN FEET SHOULD BE MAINTAINED BETWEEN WATERLINES AND SEWER LINES OR OTHER SOURCES OF CONTAMINATION. WATER LINES AND SEWERS SHALL NOT BE LAID INTHE SAME TRENCH EXCEPT ON THE WRITTEN APPROVAL OF THE ARKANSAS DEPARTMENT OF HEALTH. WATERMAINS NECESSARILY IN CLOSE PROXIMITY TO SEWERS MUST BE PLACED SO THAT THE BOTTOM OF THE WATERLINE WILL BE AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER LINE AT ITS HIGHEST POINT. IF THIS DISTANCE MUST UNAVOIDABLY BE REDUCED, THE WATER LINE OR THE SEWER LINE MUST BE ENCASED IN WATERTIGHT PIPE WITH SEALED WATERTIGHT ENDS EXTENDING AT LEAST TEN FEET EITHER SIDE OF THE CROSSING. ANY JOINT IN THE ENCASEMENT PIPE IS TO BE MECHANICALLY RESTRAINED. THE ENCASEMENT PIPE MAY BE VENTED TO THE SURFACE IF CARRYING WATER OR SEWER UNDER PRESSURE. WHERE A WATER LINE MUST UNAVOIDABLY PASS BENEATH THE SEWER LINE, AT LEAST 18 INCHES OF SEPARATION MUST BE MAINTAINED BETWEEN THE OUTSIDE OF THE TWO PIPES IN ADDITION TO THE PRECEDING ENCASEMENT REQUIREMENT. EXCEPTIONS TO THIS MUST BE APPROVED IN WRITING BY THE ARKANSAS DEPARTMENT OF HEALTH.
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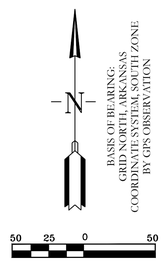


STATE OF ARKANSAS ★★★ LICENSED PROFESSIONAL ENGINEER ★★★ NO. 20876 TAMZIDUL ISLAM

CERTIFICATE OF AUTHORIZATION HOPE CONSULTING, INC. No. 1931 ARKANSAS

HOPE CONSULTING
ENGINEERS - SURVEYORS
129N. Main Street,
Benton, Arkansas 72015
PH. (501)315-2626
FAX (501) 315-0024
www.hopeconsulting.com

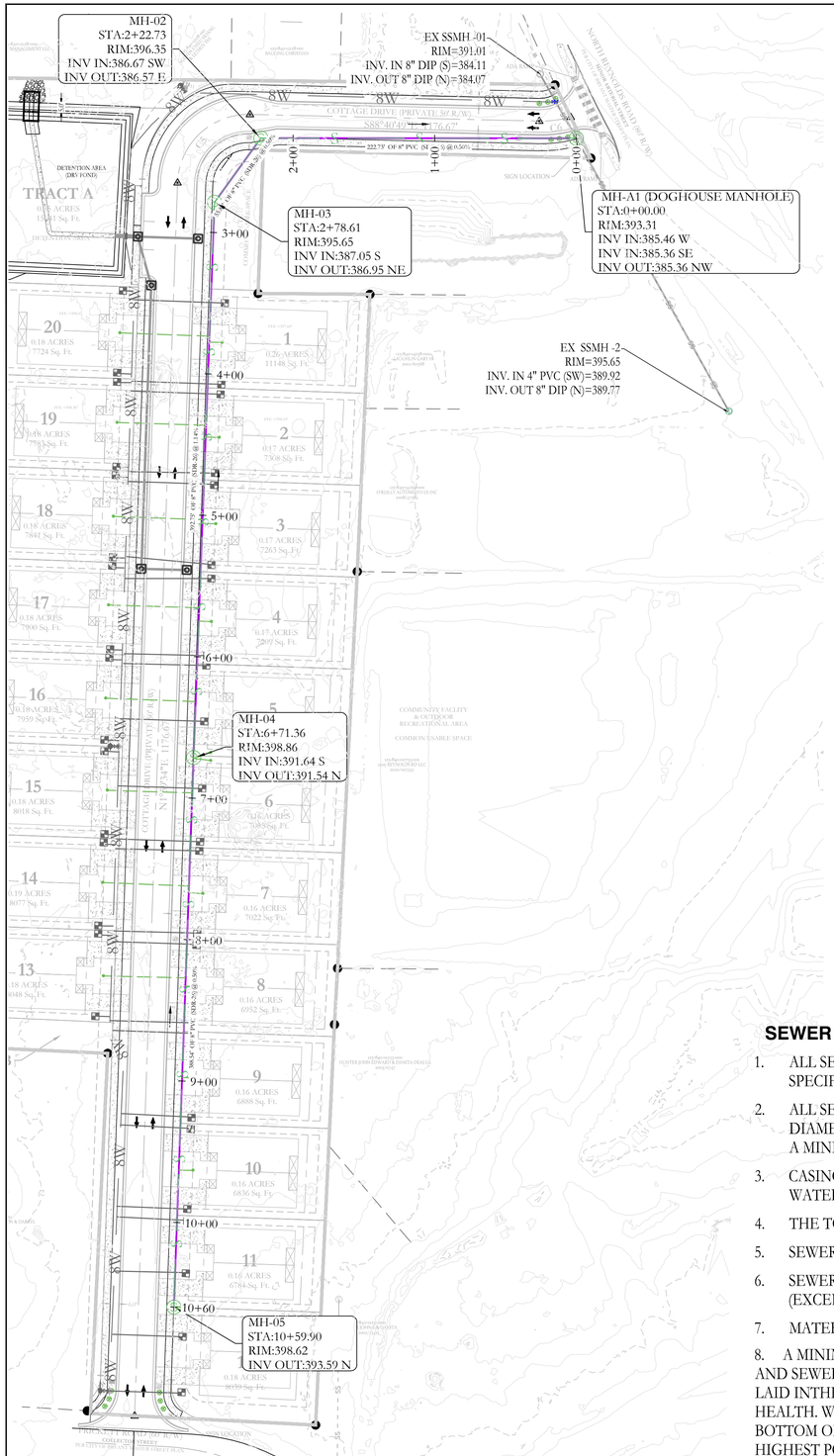
FOR USE AND BENEFIT OF:
HERITAGE HOMES

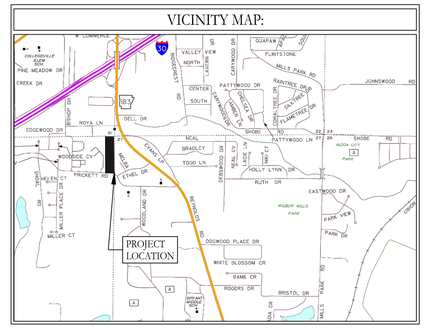
THE COTTAGES OF BRYANT
SEWER PLAN
PRICKETT ROAD, BRYANT ,ARKANSAS

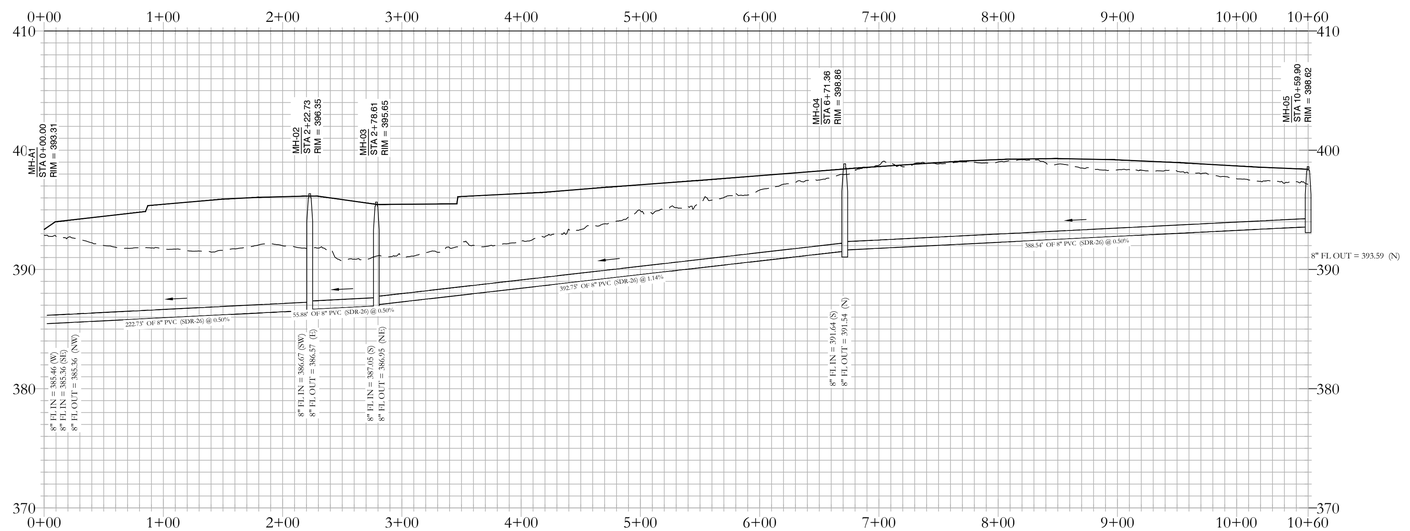
DATE:	09-23-2026	C.A.D. BY:	DRAWING NUMBER:
REVISED:	10-21-2026	CHECKED BY:	26-0288
SHEET:	C-2.1	SCALE:	

500	01S	14W	0	28		62	1664

S:\SHARED\HOPE CONSULTING\LAND PROJECTS 2026\SHEDVISIONS\2026-26-038 HERITAGE HOMES - PRICKETT RD (DWG-26-038) PUD PRICKETT ROAD DRAINAGE AND DETENTION 09-15-2026.DWG

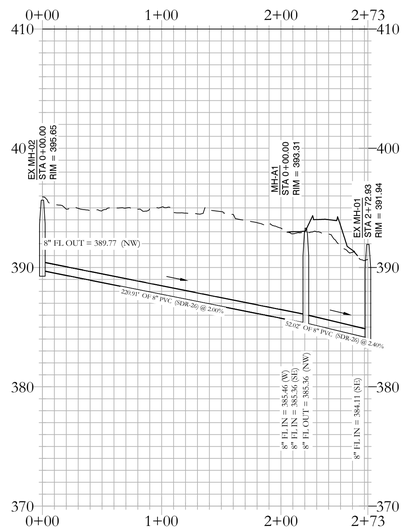






SEWER CONSTRUCTION NOTES:

1. ALL SEWER INSTALLATION TO BE IN ACCORDANCE WITH THE CITY OF BRYANT " STANDARD SPECIFICATIONS FOR DESIGN AND CONSTRUCTION OF WATER LINES AND SEWER LINES, 2015 EDITION"
2. ALL SEWER LINES CROSSING UNDER ALL CONCRETE STORM DRAINS OR ANY STORM DRAIN 30-INCH DIAMETER AND LARGER, OR ALL STORM DRAINS WITH MULTIPLE PIPE RUNS, SHALL BE STEEL ENCASED A MINIMUM OF 5 FEET EITHER SIDE OF THE STORM DRAIN.
3. CASING SPACERS: SHALL BE STAINLESS STEEL, CASCADE MODEL CCS AS MANUFACTURED BY CASCADE WATER MFG. CO., OR APPROVED EQUAL.
4. THE TOP ELEVATION OF MH`S MUST BE EQUAL TO THE FINAL ASPHALT GRADE IN THE ROAD.
5. SEWER LINES SHALL BE EXTENDED TO EACH PROPERTY TO BE SERVED BY CITY OF BRYANT SEWER.
6. SEWER LINES SHALL BE LOCATED A MINIMUM OF 36-INCHES FROM ANY OTHER PARALLEL UTILITIES (EXCEPT FOE POTABLE WATER LINES) OR RELATED STRUCTURES.
7. MATERIALS FOR SEWER LINE MAINS SHALL BE PVC SDR-26
8. A MINIMUM HORIZONTAL DISTANCE OF TEN FEET SHOULD BE MAINTAINED BETWEEN WATERLINES AND SEWER LINES OR OTHER SOURCES OF CONTAMINATION. WATER LINES AND SEWERS SHALL NOT BE LAID INTHE SAME TRENCH EXCEPT ON THE WRITTEN APPROVAL OF THE ARKANSAS DEPARTMENT OF HEALTH. WATERMAINS NECESSARILY IN CLOSE PROXIMITY TO SEWERS MUST BE PLACED SO THAT THE BOTTOM OF THE WATERLINE WILL BE AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER LINE AT ITS HIGHEST POINT. IF THIS DISTANCE MUST UNAVOIDABLY BE REDUCED, THE WATER LINE OR THE SEWER LINE MUST BE ENCASED IN WATERTIGHT PIPE WITH SEALED WATERTIGHT ENDS EXTENDING AT LEAST TEN FEET EITHER SIDE OF THE CROSSING. ANY JOINT IN THE ENCASEMENT PIPE IS TO BE MECHANICALLY RESTRAINED. THE ENCASEMENT PIPE MAY BE VENTED TO THE SURFACE IF CARRYING WATER OR SEWER UNDER PRESSURE. WHERE A WATER LINE MUST UNAVOIDABLY PASS BENEATH THE SEWER LINE, AT LEAST 18 INCHES OF SEPARATION MUST BE MAINTAINED BETWEEN THE OUTSIDE OF THE TWO PIPES IN ADDITION TO THE PRECEDING ENCASEMENT REQUIREMENT. EXCEPTIONS TO THIS MUST BE APPROVED IN WRITING BY THE ARKANSAS DEPARTMENT OF HEALTH.
9. THE ENGINEER OF RECORD TO PROVIDE INSPECTIONS ON CONSTRUCTION ACTIVITIES FOR SEWER LINES.



VERTICAL SCALE : 1"=6'
HORIZONTAL SCALE : 1"=60'

50 25 0 50

BASIS OF BEARING:
GRID NORTH ARKANSAS
COORDINATE SYSTEM, SOUTH ZONE
BY GPS OBSERVATION

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
NO. 20878
CHAD MAZIDU ISLAM

CERTIFICATE OF AUTHORIZATION
HOPE CONSULTING, INC.
No. 393
ARKANSAS

HOPE CONSULTING
ENGINEERS - SURVEYORS
129N. Main Street,
Benton, Arkansas 72015
PH. (501)315-2626
FAX (501) 315-0024
www.hopeconsulting.com

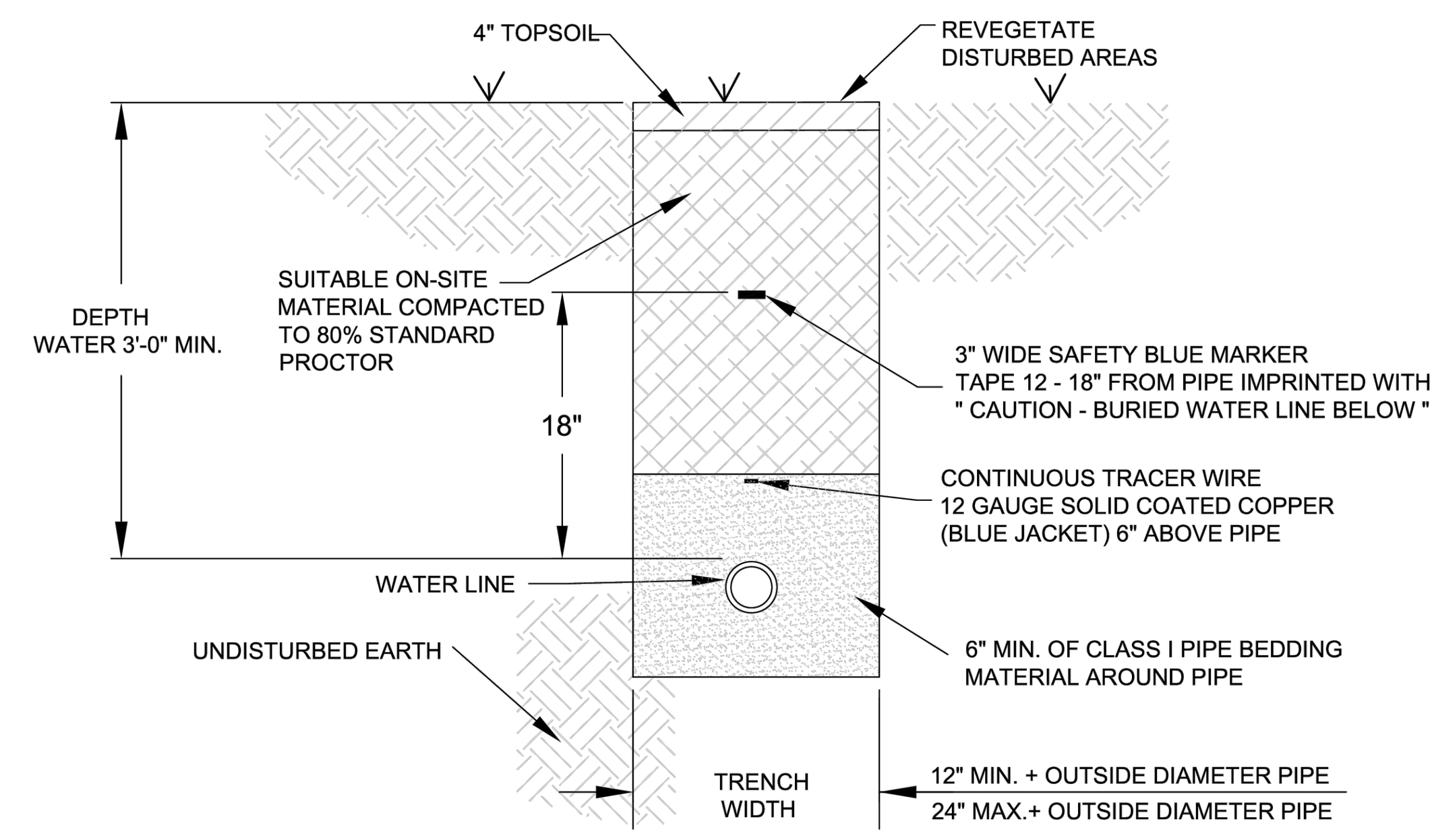
FOR USE AND BENEFIT OF:
HERITAGE HOMES

THE COTTAGES OF BRYANT
SEWER PLAN & PROFILE
PRICKETT ROAD, BRYANT ,ARKANSAS

DATE:	09-23-2026	C.A.D. BY:	DRAWING NUMBER:
REVISED:	10-21-2026	CHECKED BY:	26-0288
SHEET:	C-2.2	SCALE:	

500	01S	14W	0	28		62	1664

S:\SHARED\HOPECONSULTING\LAND PROJECTS 2026\SUBDIVISIONS 2026\26-0288 HEIRTAGE HOMES - PRICKETT RD\DWG\26-0288 PUD-PRICKETT ROAD DRAINAGE AND DETENTION 09-15-2026.DWG



NOTES:

1. ALL VALVES, BENDS, ETC. SHALL BE RESTRAINED.
2. THE CONTRACTOR SHALL PROVIDE ALL ITEMS NECESSARY TO CONNECT WITH ANY PART OF THE EXISTING WATER SYSTEM THAT WILL REMAIN IN ORDER TO ESTABLISH A SATISFACTORY AND ACCEPTABLE WATER SYSTEM.
3. CONTRACTOR TO CONSTRUCT ALL TRENCH EXCAVATION IN ACCORDANCE WITH ALL OSHA REGULATIONS (29 CFR CH.XVII, SUBPART B)
4. TRENCH SHALL BE EXCAVATED BELOW GRADE REQUIRED TO PROVIDE A MINIMUM 36" OF PIPE COVER.
5. MAXIMUM PIPE COVER SHALL BE 60" UNDER NORMAL CONDITIONS. COVER GREATER THAN 60" MAY BE ALLOWED FOR SHORT DISTANCES WHERE REQUIRED BY FIELD CONDITIONS. NO HYDRANT SHALL BE ALLOWED WHERE LINES ARE GREATER THAN 60" DEEP.

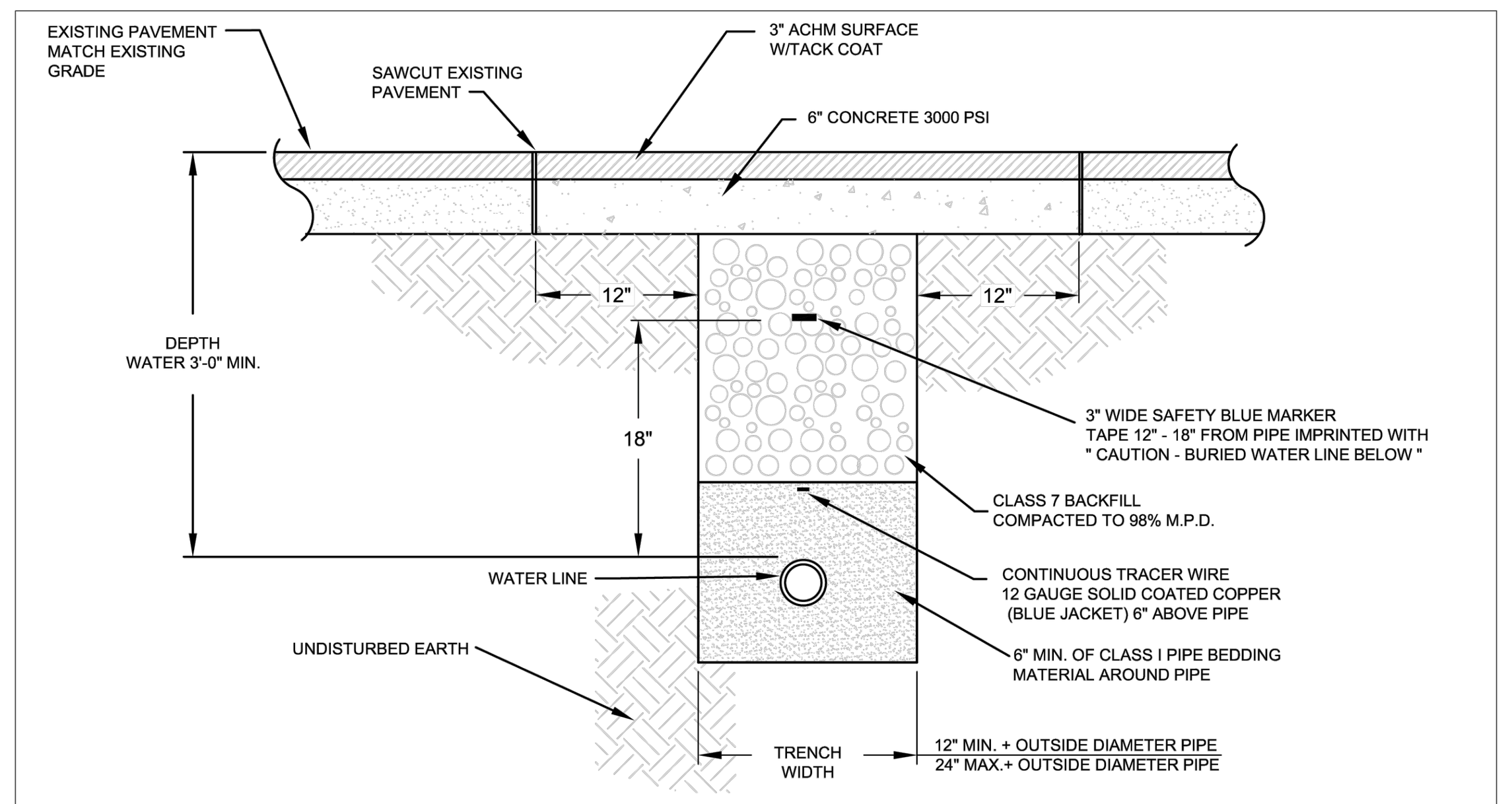
WATER MAIN TRENCH

(NON-PAVED AREA)

CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0468

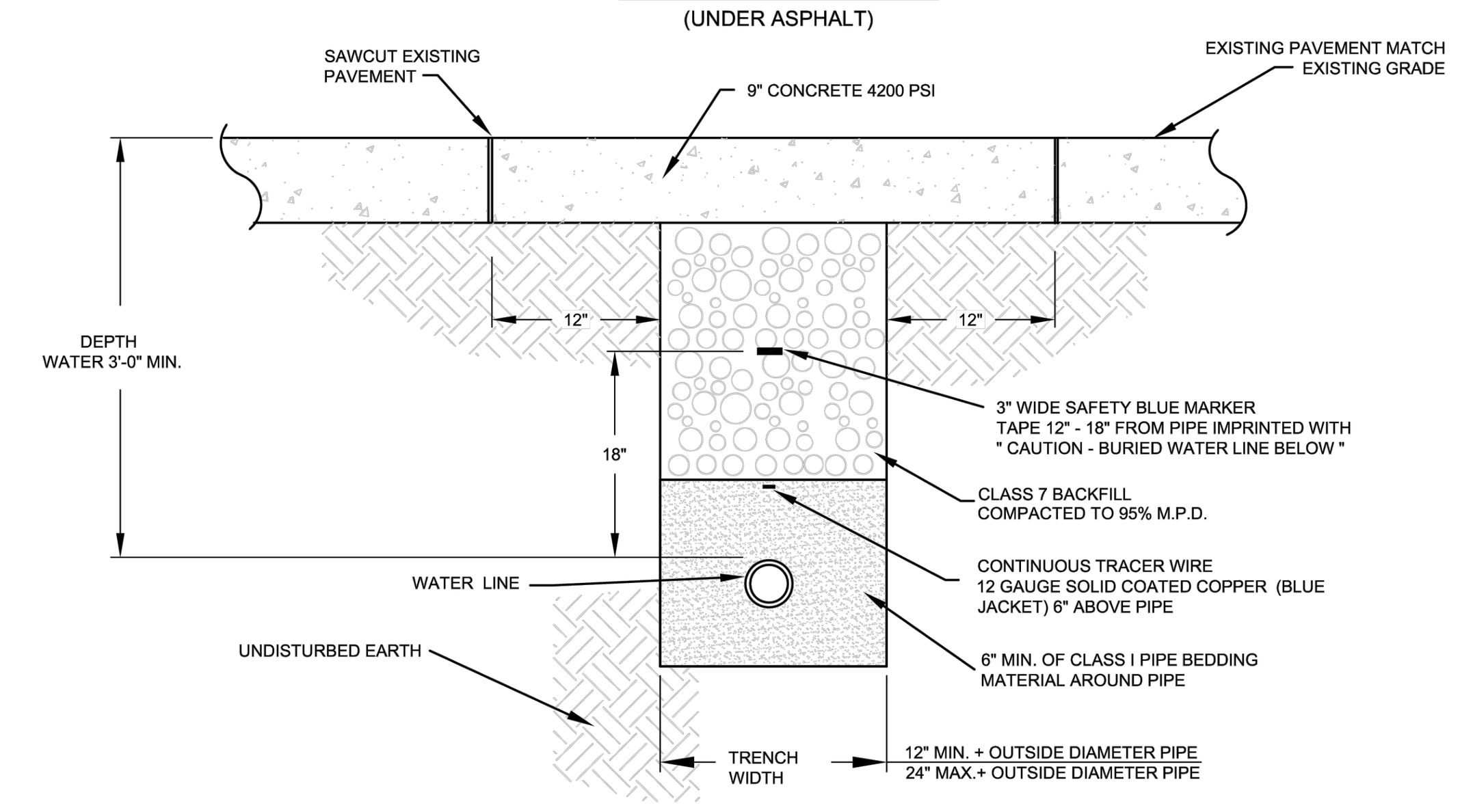
TITLE: **WATER DETAILS**
DESCRIPTION: **WATER MAIN TRENCH (NON-PAVED AREA)**
DRAWN BY: CHECKED BY: FILE: W1-Water Trench (Non-Paved Area).dwg
DATE: APRIL 2015 REVISED ---- ---- ---- ---- ----
SHEET: **W1**

4/16/2015 11:45:11 AM



WATER MAIN TRENCH

(UNDER ASPHALT)



WATER MAIN TRENCH

(UNDER CONCRETE)

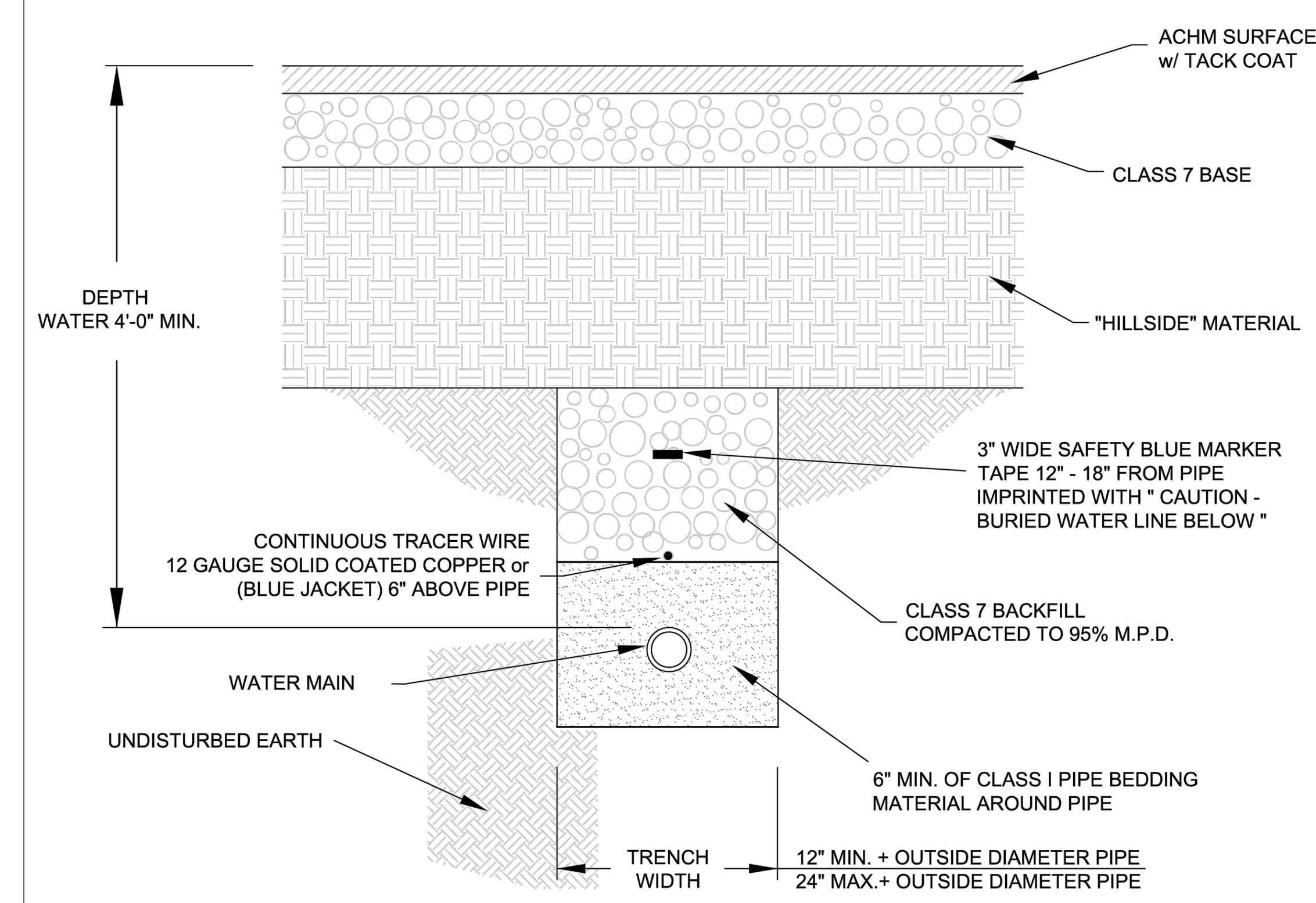
NOTES:

1. ALL VALVES, BENDS, ETC. SHALL BE RESTRAINED.
2. THE CONTRACTOR SHALL PROVIDE ALL ITEMS NECESSARY TO CONNECT WITH ANY PART OF THE EXISTING WATER SYSTEM THAT WILL REMAIN IN ORDER TO ESTABLISH A SATISFACTORY AND ACCEPTABLE WATER SYSTEM.
3. CONTRACTOR TO CONSTRUCT ALL TRENCH EXCAVATION IN ACCORDANCE WITH ALL OSHA REGULATIONS (29 CFR CH.XVII, SUBPART B)
4. TRENCH SHALL BE EXCAVATED BELOW GRADE REQUIRED TO PROVIDE A MINIMUM 36" OF PIPE COVER.
5. MAXIMUM PIPE COVER SHALL BE 60" UNDER NORMAL CONDITIONS. COVER GREATER THAN 60" MAY BE ALLOWED FOR SHORT DISTANCES WHERE REQUIRED BY FIELD CONDITIONS. NO HYDRANT SHALL BE ALLOWED WHERE LINES ARE GREATER THAN 60" DEEP.

CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0468

TITLE: **WATER DETAILS**
DESCRIPTION: **WATER MAIN TRENCH (UNDER PAVEMENT)**
DRAWN BY: CHECKED BY: FILE: W2-Water Trench (Under Pavement).dwg
DATE: APRIL 2015 REVISED ---- ---- ---- ---- ----
SHEET: **W2**

4/16/2015 11:45:20 AM



WATER MAIN INSTALLATION PRIOR TO ROADWAY CONSTRUCTION

NOTES:

1. ALL VALVES, BENDS, ETC. SHALL BE RESTRAINED.
2. THE CONTRACTOR SHALL PROVIDE ALL ITEMS NECESSARY TO CONNECT WITH ANY PART OF THE EXISTING WATER SYSTEM THAT WILL REMAIN IN ORDER TO ESTABLISH A SATISFACTORY AND ACCEPTABLE WATER SYSTEM.
3. CONTRACTOR TO CONSTRUCT ALL TRENCH EXCAVATION IN ACCORDANCE WITH ALL OSHA REGULATIONS (29 CFR CH.XVII, SUBPART B)
4. TRENCH SHALL BE EXCAVATED BELOW GRADE REQUIRED TO PROVIDE A MINIMUM 36" OF PIPE COVER.
5. MAXIMUM PIPE COVER SHALL BE 60" UNDER NORMAL CONDITIONS. COVER GREATER THAN 60" MAY BE ALLOWED FOR SHORT DISTANCES WHERE REQUIRED BY FIELD CONDITIONS. NO HYDRANT SHALL BE ALLOWED WHERE LINES ARE GREATER THAN 60" DEEP.

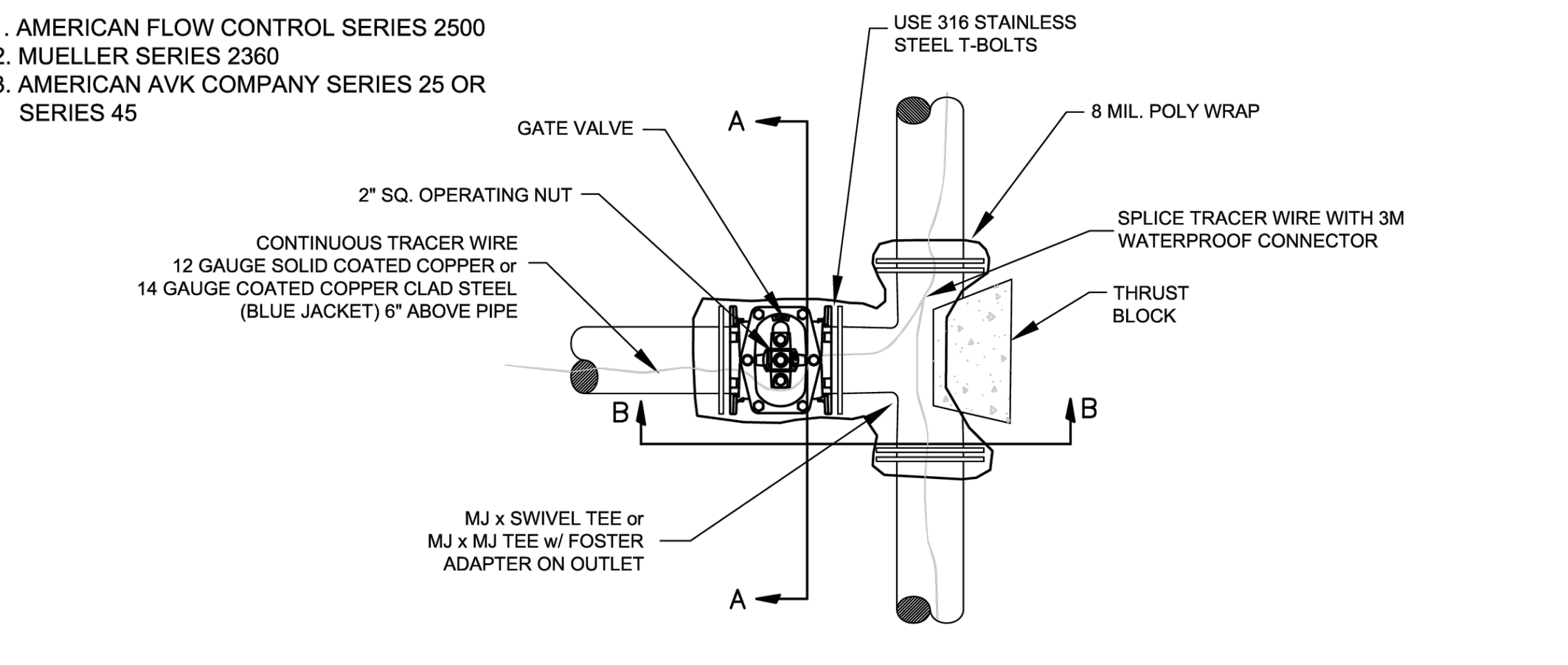
CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0468

TITLE: **WATER DETAILS**
DESCRIPTION: **WATER MAIN INSTALLATION PRIOR TO ROADWAY CONSTRUCTION**
DRAWN BY: CHECKED BY: FILE: W3-Water Main Installation Prior to Roadway Const.dwg
DATE: APRIL 2015 REVISED ---- ---- ---- ---- ----
SHEET: **W3**

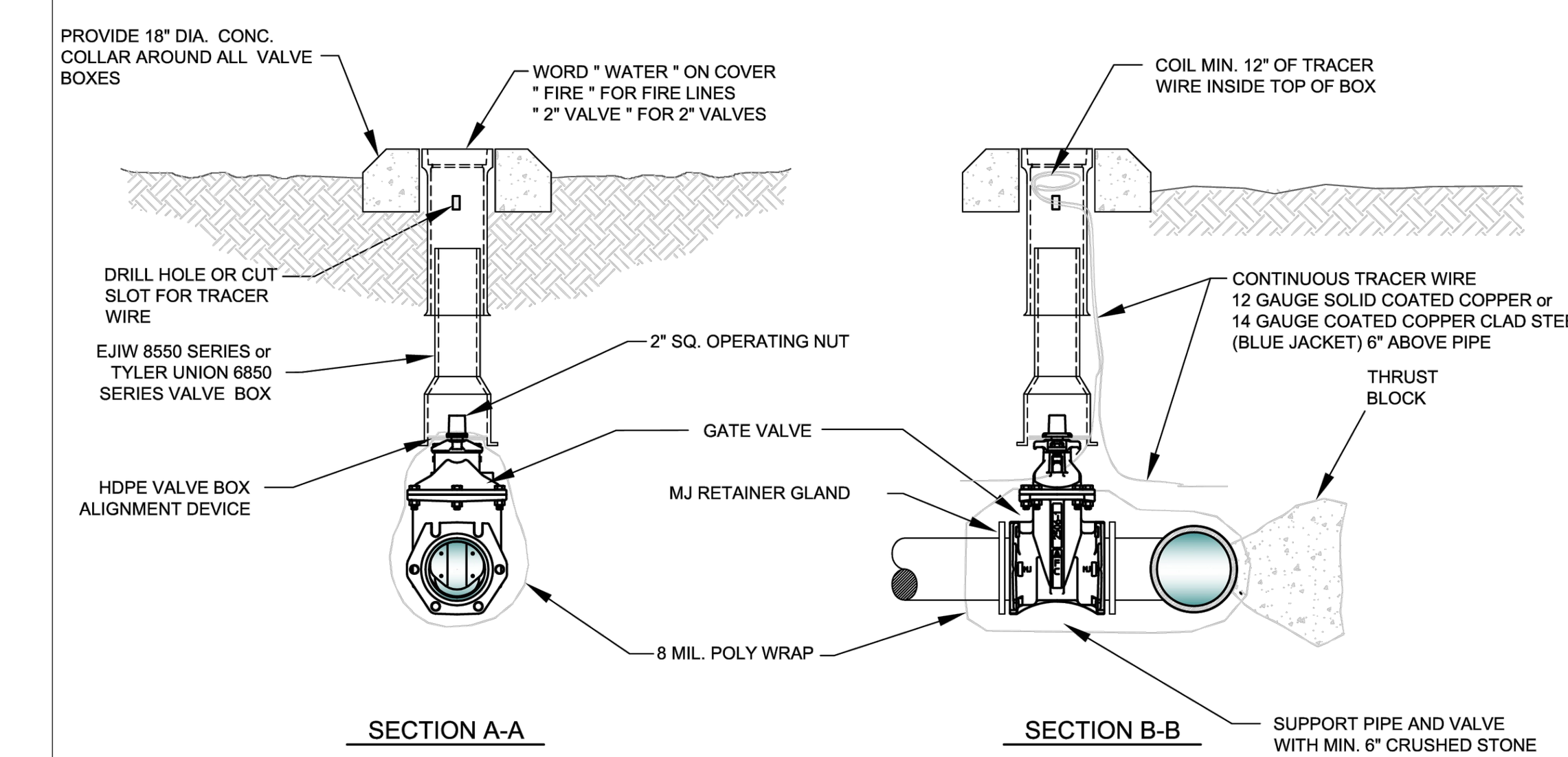
4/16/2015 11:45:26 AM

PERMITTED VALVES

1. AMERICAN FLOW CONTROL SERIES 2500
2. MUELLER SERIES 2360
3. AMERICAN AVK COMPANY SERIES 25 OR SERIES 45



PLAN



SECTION A-A

SECTION B-B

NOTES:

1. ALL VALVES SHALL BE SECURELY ANCHORED TO THE TEE.
2. ALL HARDWARE SHALL BE 316 STAINLESS STEEL.
3. IF DEPTH OF BURY EXCEEDS 4 FT., A VALVE STEM EXTENSION SHALL BE REQUIRED. THE VALVE STEM EXTENSION NUT SHALL BE WITHIN 24-INCHES TO 12-INCHES OF THE FINISHED SURFACE.

GATE VALVE DETAIL

2" - 12"

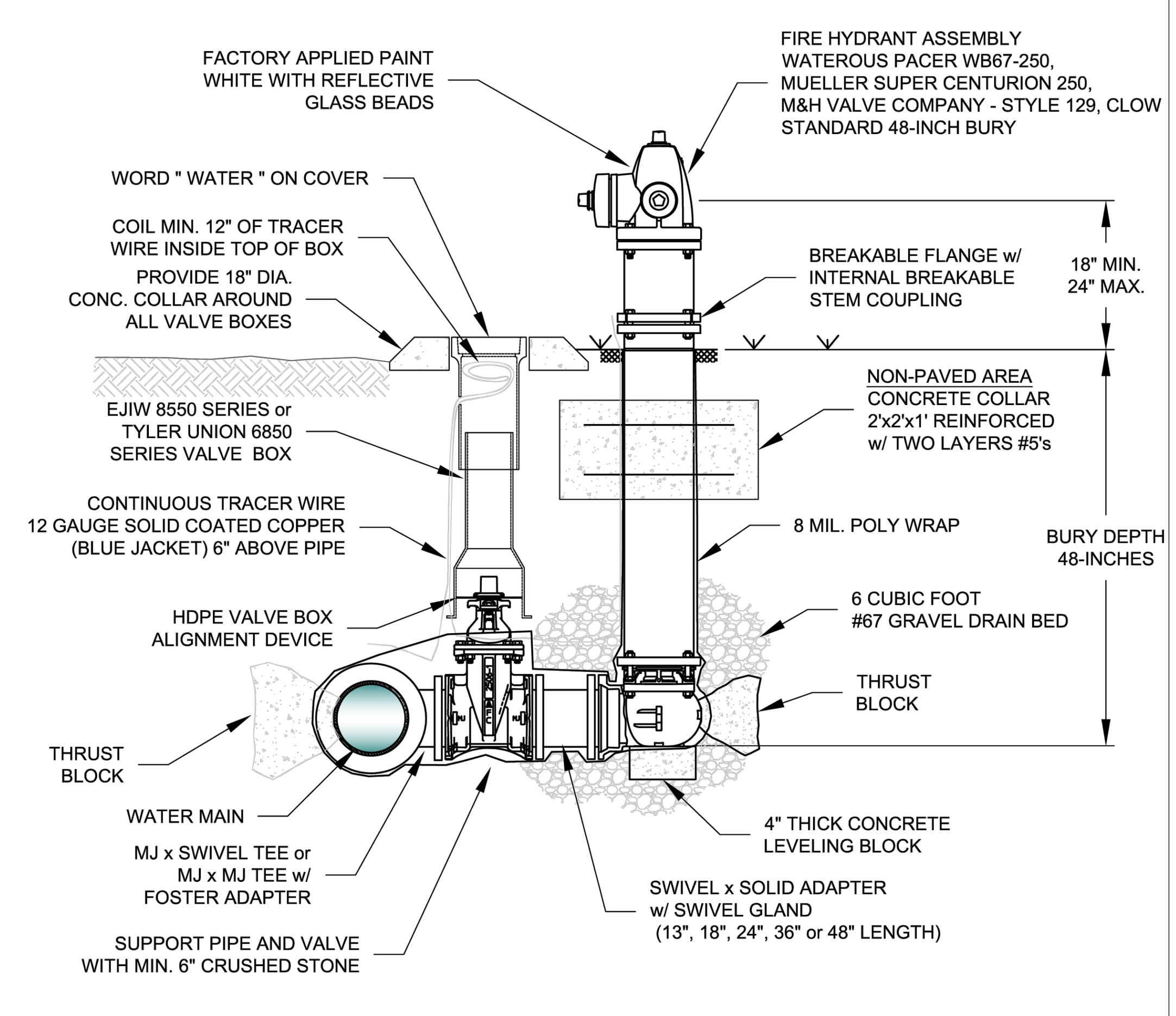
CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0468

TITLE: **WATER DETAILS**
DESCRIPTION: **GATE VALVE**
DRAWN BY: CHECKED BY: FILE: W4-Gate Valve.dwg
DATE: APRIL 2015 REVISED ---- ---- ---- ---- ----
SHEET: **W4**

4/16/2015 11:45:32 AM

NOTES:

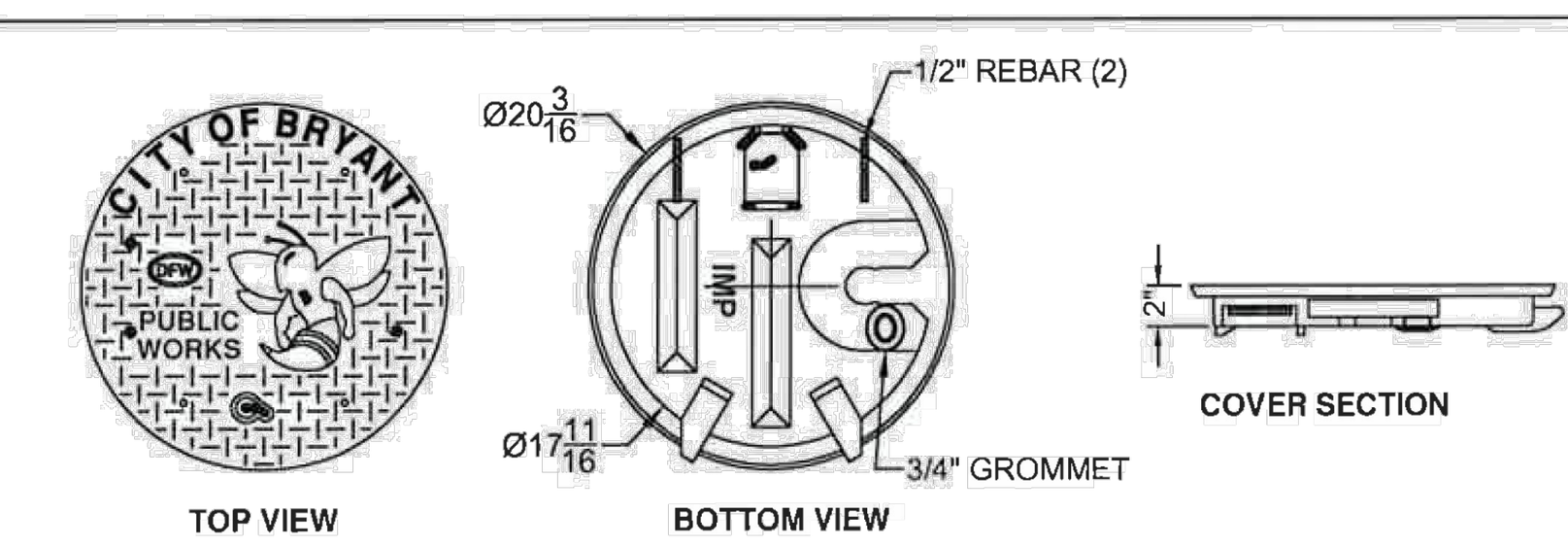
1. THE 6" GATE VALVE SHALL BE POSITIVELY RESTRAINED TO THE MAIN BY THE USE OF EITHER A SWIVEL TEE OR FOSTER ADAPTER.
2. FIRE HYDRANTS SHALL BE DESIGNED FOR A MINIMUM 48" BURY.
3. BURY LINE OF HYDRANT SHALL BE NO LESS THAN THE PROPOSED FINISHED ELEVATION OF BACK OF CURB, OR SIDEWALK, WHICHEVER IS GREATER.
4. NO MORE THAN ONE EXTENSION PER HYDRANT.
5. IF SIDEWALK IS PRESENT, HYDRANT SHALL BE INSTALLED 2' MINIMUM BEHIND THE BACK OF THE SIDEWALK OR CURB. VALVES SHALL BE INSTALLED 1' MINIMUM BEHIND THE BACK OF THE SIDEWALK OR CURB.
6. DO NOT COVER UP WEEP HOLE WITH CONCRETE.
7. MJ RETAINER GLANDS ARE REQUIRED FOR ALL FITTINGS.
8. 7. 6" DUCTILE IRON PIPE IS REQUIRED FOR ALL FIRE HYDRANT LEADS GREATER THAN 48-INCHES FROM THE MAIN VALVE.
9. AN ADDITIONAL GUARDIAN VALVE IS REQUIRED FOR ALL FIRE HYDRANT LEADS GREATER THAN 30 FEET IN LENGTH.



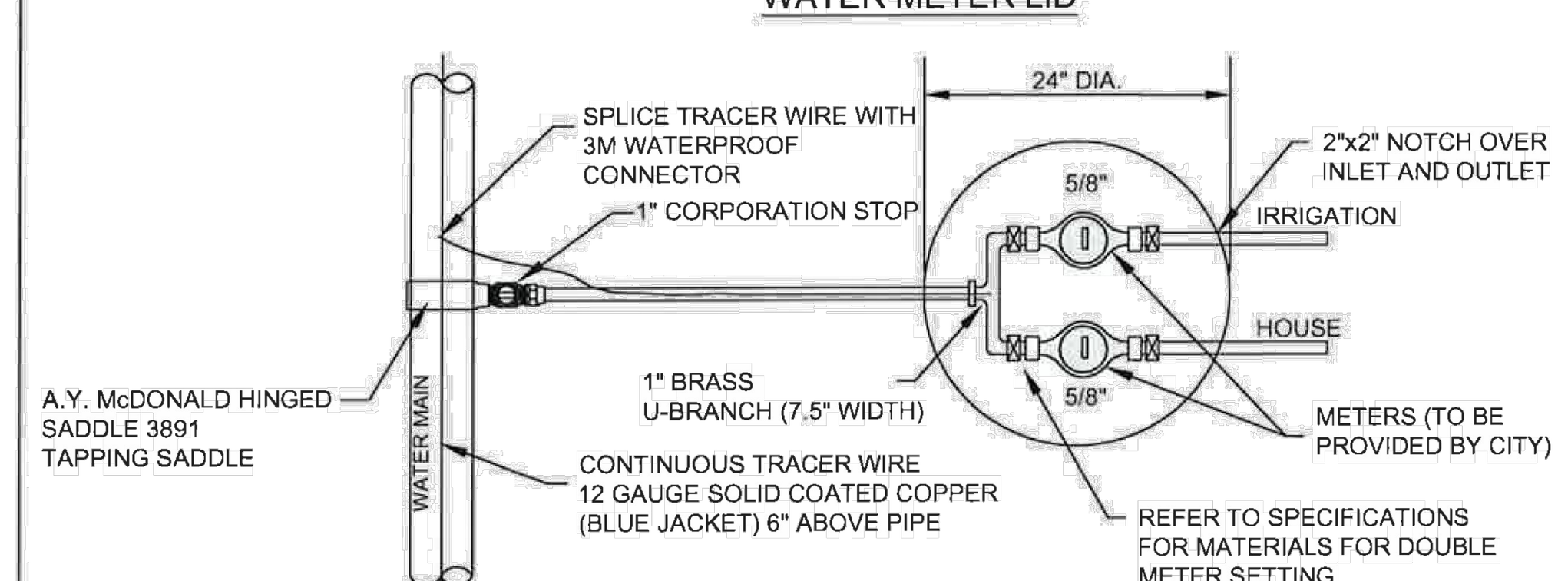
FIRE HYDRANT & VALVE CONNECTION

CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0468

TITLE: **WATER DETAILS**
DESCRIPTION: **FIRE HYDRANT AND VALVE CONNECTION**
DRAWN BY: CHECKED BY: FILE: W8-Fire Hydrant and Valve.dwg
DATE: APRIL 2015 REVISED ---- ---- ---- ---- ----
SHEET: **W8**

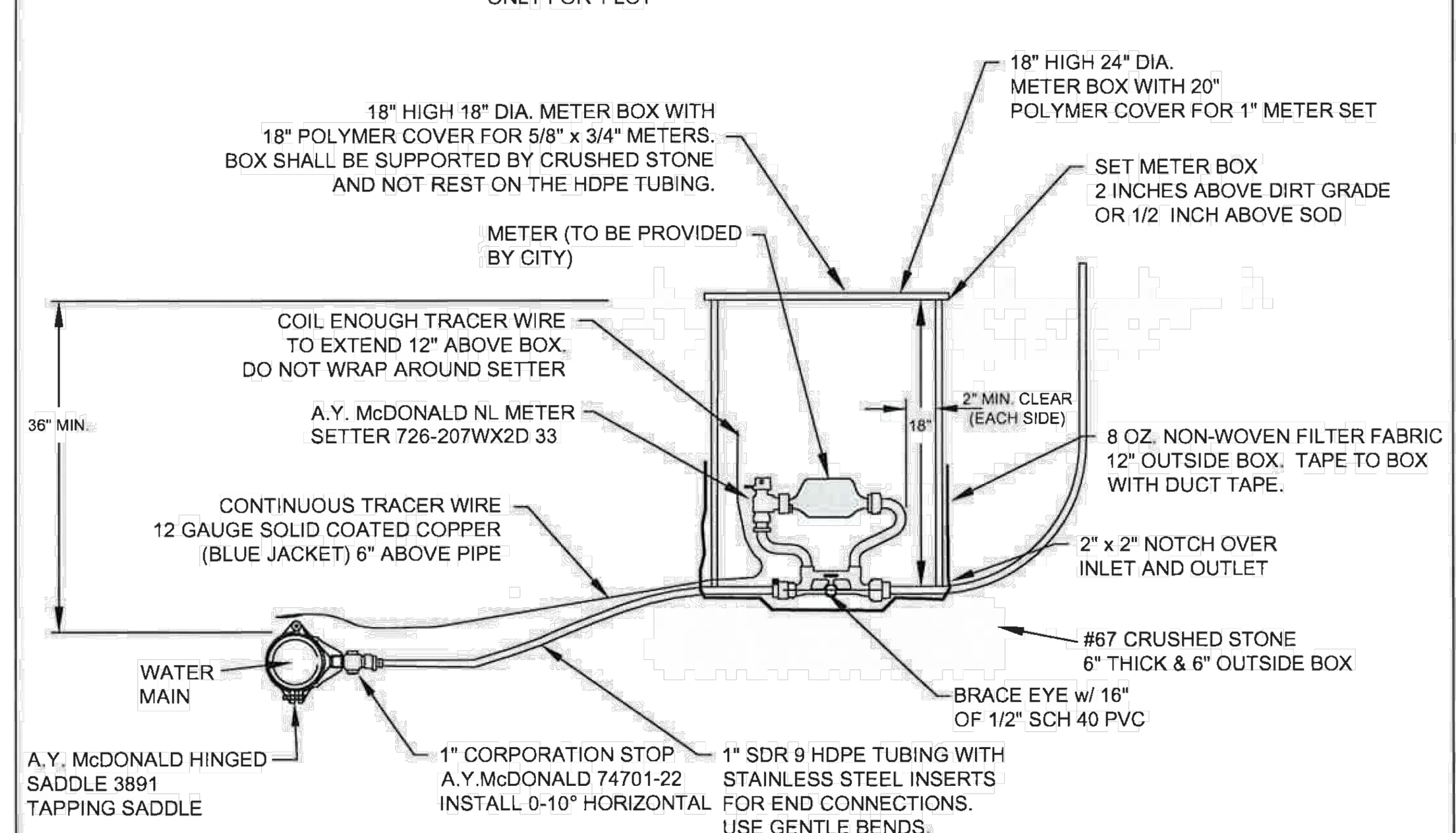


WATER METER LID



DOUBLE METER SETTING

ONLY FOR 1 LOT



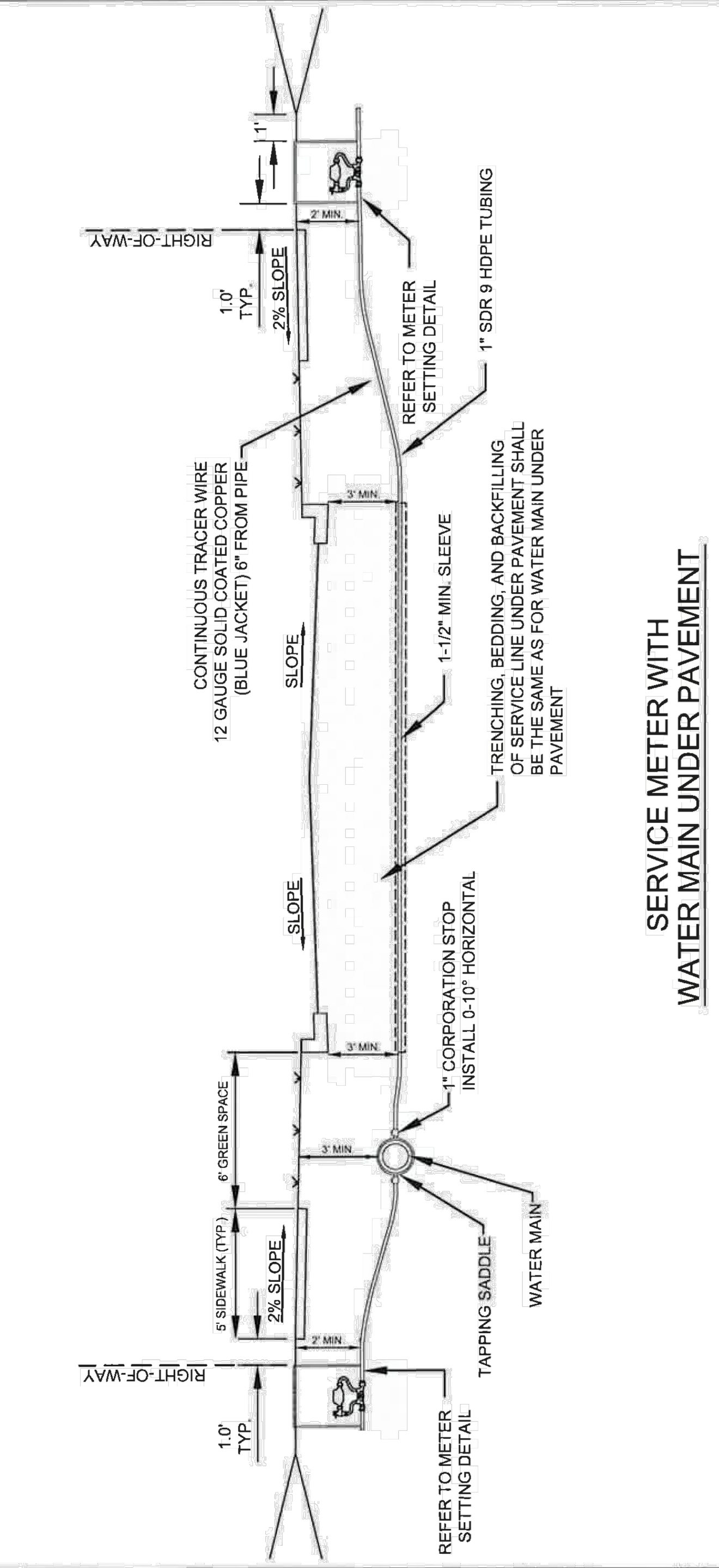
SINGLE METER SETTING

CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0468

TITLE: **WATER DETAILS**
DESCRIPTION: **METER SETTINGS**
DRAWN BY: CHECKED BY: FILE: W10-Meter Settings.dwg
DATE: APRIL 2015 REVISED ---- ---- ---- ---- ----
SHEET: **W10**

NOTES:

1. ALL WATER & SANITARY SEWER TRENCHES WHICH ARE UNDER THE PROPOSED STREETS MUST BE BACKFILLED AS SHOWN ON THE TRENCHING, BEDDING, AND BACKFILL STANDARD DETAIL.
2. WATER AND SEWER LINES SHALL MAINTAIN A MINIMUM OF HORIZONTAL SEPARATION DISTANCE OF 10 FEET AT ALL TIMES.
3. WATER AND SEWER LINES SHALL MAINTAIN A MINIMUM VERTICAL SEPARATION OF 18 INCHES WITH THE WATER LINE CROSSING ABOVE THE SEWER LINE.
4. ALL CORP. STOPS SHALL BE INSTALLED AT 0-10° ANGLE FROM HORIZONTAL.
5. A MINIMUM OF 24-INCHES OF SEPARATION IS REQUIRED BETWEEN SERVICE TAPS.
6. ALL METER BOXES SHALL BE INSTALLED ON THE CUSTOMER SIDE OF THE WATER MAIN.
7. ALL METER BOXES SHALL BE INSTALLED IN NON-PAVED AREAS. ANY METER BOX THAT GETS PLACED IN A PAVED AREA SHALL BE RELOCATED AT THE OWNER'S EXPENSE BEFORE A WATER METER WILL BE INSTALLED.



SERVICE METER WITH WATER MAIN UNDER PAVEMENT

CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0468

TITLE: **WATER DETAILS**
DESCRIPTION: **METER SERVICE LINE UNDER PAVEMENT**
DRAWN BY: CHECKED BY: FILE: W11-Meter Service Line Under Pavement.dwg
DATE: APRIL 2015 REVISED ---- ---- ---- ---- ----
SHEET: **W11**

STATE OF ARKANSAS ★ ★ ★ LICENSED PROFESSIONAL ENGINEER ★ ★ ★ NO. 20876 KAZI TAMZIDUL ISLAM

CERTIFICATE OF AUTHORIZATION HOPE CONSULTING, INC. No. 1931 ARKANSAS

HOPE CONSULTING
ENGINEERS - SURVEYORS

129N. Main Street,
Benton, Arkansas 72015
PH. (501)315-2626
FAX (501) 315-0024
www.hopeconsulting.com

FOR USE AND BENEFIT OF:
HERITAGE HOMES

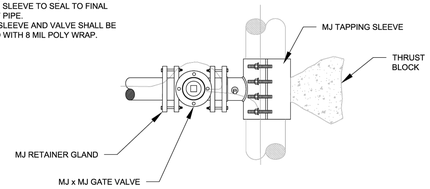
THE COTTAGES OF BRYANT
WATER DETAILS
PRICKETT ROAD, BRYANT ,ARKANSAS

DATE:	09-23-2026	C.A.D. BY:		DRAWING NUMBER:
REVISED:	10-21-2026	CHECKED BY:		26-0288
SHEET:	C-3.0	SCALE:		

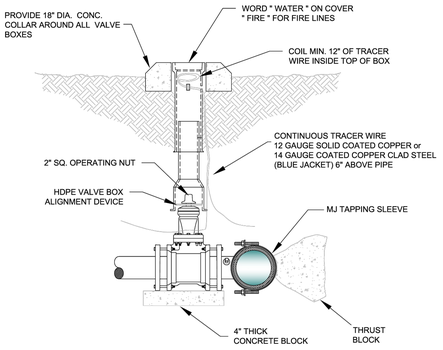
500	01S	14W	0	28		62	1664

NOTES:

1. TAPPING SLEEVE SHALL BE SMITH-BLAIR 662 OR FORD FAST.
2. AFTER THE TAP IS MADE, RE-TORQUE BOLTS ON SLEEVE TO SEAL TO FINAL SHAPE OF PIPE.
3. TAPPING SLEEVE AND VALVE SHALL BE WRAPPED WITH 8 MIL POLY WRAP.



PLAN VIEW



PROFILE VIEW

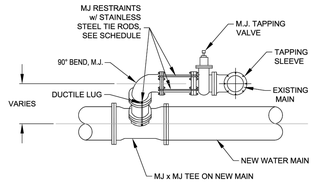
4/15/2015 11:46:04 AM

CITY OF BRYANT, AR	TITLE:	WATER DETAILS	DATE: APRIL 2015	SHEET:
WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0468	DESCRIPTION:	TAPPING SLEEVE AND VALVE	REVISED --- --- --- ---	W13
	DRAWN BY:	CHECKED BY:	FILE: W13-Tapping Sleeve and Valve.dwg	

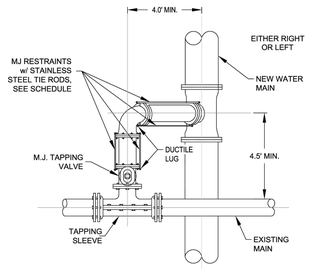
NOTES:

1. SWING CONNECTIONS USING 90° BENDS SHALL BE PERMITTED BY THE CITY ON A CASE BY CASE BASIS.
2. CONTRACTOR SHALL LOCATE EXISTING MAIN IN ADVANCE OF LAYING NEW LINE IN ORDER TO ASSURE ADEQUATE LENGTH TO ADJUST DEPTH OF NEW MAIN.
3. DIMENSIONS SHOWN ARE RECOMMENDED MINIMUMS TO PROVIDE ADEQUATE ROOM FOR TIGHTENING BOLTS ON JOINTS (OTHER DIMENSIONS MAY BE USED).
4. PROVIDE ALL THREAD STAINLESS STEEL TIE RODS WITH DUCTILE LUGS FOR ANCHORING ALL JOINTS.
5. ROTATE TEE UP & ELBOW DOWN AS REQUIRED TO MATCH.
6. TRACER WIRE SHALL BE INSTALLED ON ALL NEW WATER LINES.
7. ALL FITTINGS, VALVES, AND DIP SHALL BE POLY WRAPPED.

SCHEDULE OF TIE RODS		
SIZE	NUMBER OF ROD PER FITTING	DIAMETER OF S.S. RODS
8"	4	3/4"
12"	4	3/4"



SECTION VIEW



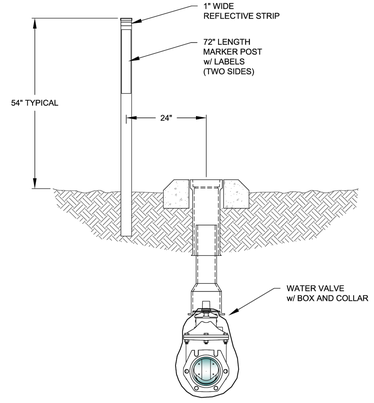
PLAN VIEW

4/15/2015 11:47:23 AM

CITY OF BRYANT, AR	TITLE:	WATER DETAILS	DATE: APRIL 2015	SHEET:
WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0468	DESCRIPTION:	SWING CONNECTION - NEW MAIN TO EXISTING MAIN	REVISED --- --- --- ---	W20
	DRAWN BY:	CHECKED BY:	FILE: W20-Swing Connection.dwg	

NOTES:

1. WATER LINE MARKERS SHALL BE TRI-VIEW MARKING SYSTEM BY RHINO MARKING AND PROTECTION SYSTEMS OR CARSONITE INTERNATIONAL DUAL-SIDED UTILITY MARKER (CIB-380).
2. THE UPPERMOST PORTION OF THE CARSONITE MARKER SHALL BE MADE OF VISIBILITY ENHANCER (CVE-360).
3. TRI-VIEW MARKERS DO NOT REQUIRE VISIBILITY ENHANCERS.
4. AN ADDITIONAL WHITE 1" WIDE REFLECTIVE TAPE (3M OR EQUAL) SHALL BE PLACED AROUND THE FULL CIRCUMFERENCE OF THE TOP OF THE MARKER.



VALVE MARKER

4/15/2015 11:47:51 AM

CITY OF BRYANT, AR	TITLE:	WATER DETAILS	DATE: APRIL 2015	SHEET:
WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0468	DESCRIPTION:	VALVE MARKER	REVISED --- --- --- ---	W22
	DRAWN BY:	CHECKED BY:	FILE: W22-Valve Marker.dwg	

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
NO. 20876
KAL TAMZIDI

CERTIFICATE OF AUTHORIZATION
HOPE CONSULTING, INC.
No. 1931
ARKANSAS

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FOR USE AND BENEFIT OF:
HERITAGE HOMES

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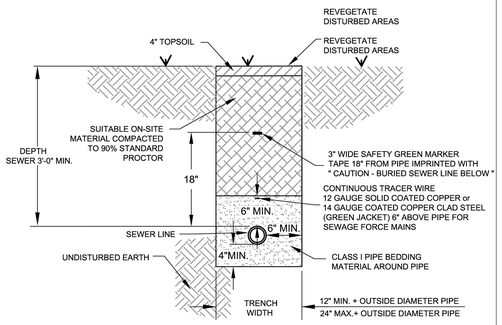
WATER DETAILS
PRICKETT ROAD, BRYANT ,ARKANSAS

DATE:	09-23-2026	C.A.D. BY:	DRAWING NUMBER:
REVISED:	10-21-2026	CHECKED BY:	26-0288
SHEET:	C-3.1	SCALE:	

500	01S	14W	0	28		62	1664



NOTES:

1. THE CONTRACTOR SHALL PROVIDE ALL ITEMS NECESSARY TO CONNECT WITH ANY PART OF THE EXISTING SEWER SYSTEM THAT WILL REMAIN IN ORDER TO ESTABLISH A SATISFACTORY AND ACCEPTABLE SEWER SYSTEM.
2. CONTRACTOR TO CONSTRUCT ALL TRENCH EXCAVATION IN ACCORDANCE WITH ALL OSHA REGULATIONS (29 CFR CH.XVII, SUBPART B)
3. TRENCH SHALL BE EXCAVATED BELOW GRADE REQUIRED TO PROVIDE A MINIMUM 36" OF PIPE COVER.

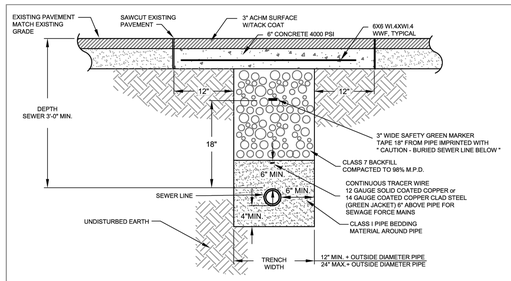
SEWER TRENCH

(NON-PAVED AREA)

4/15/2015 10:56:59 AM

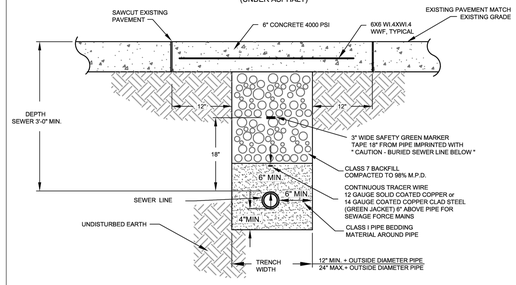
CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0488

TITLE:	SEWER DETAILS	DATE: APRIL 2015	SHEET:
DESCRIPTION:	SEWER TRENCH (NON-PAVED AREA)	REVISED ----- ----- ----- -----	S1
DRAWN BY:	CHECKED BY:	FILE: S1-Sewer Trench (Non-Paved Area).dwg	



SEWER TRENCH

(UNDER ASPHALT)



SEWER TRENCH

(UNDER CONCRETE)

NOTES:

1. THE CONTRACTOR SHALL PROVIDE ALL ITEMS NECESSARY TO CONNECT WITH ANY PART OF THE EXISTING SEWER SYSTEM THAT WILL REMAIN IN ORDER TO ESTABLISH A SATISFACTORY AND ACCEPTABLE SEWER SYSTEM.
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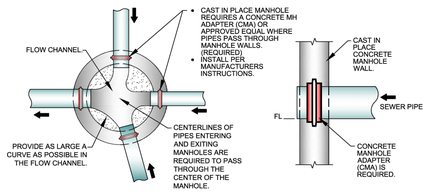
4/15/2015 10:56:59 AM

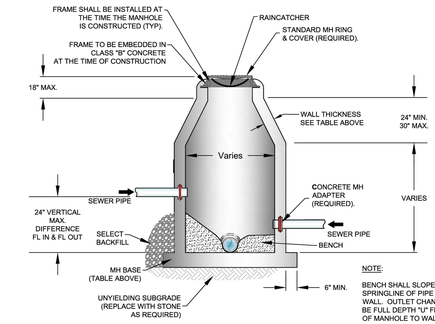
CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0488

TITLE:	SEWER DETAILS	DATE: APRIL 2015	SHEET:
DESCRIPTION:	SEWER TRENCH (UNDER PAVEMENT)	REVISED ----- ----- ----- -----	S2
DRAWN BY:	CHECKED BY:	FILE: S2-Sewer Trench (Under Pavement).dwg	

Inside Diameter of Manhole	Minimum Wall Thickness	Base Thickness	Minimum Ring & Cover Size
4' DIA	6"	6"	24" (< or Equal to 24" Pipes)
5' DIA	8"	8"	
6' DIA	8"	12"	36" (> 24" Pipes)

MANHOLE INFORMATION TABLE





NOTE:

BENCH SHALL SLOPE FROM SPRINGLINE OF PIPE TO MANHOLE WALL. OUTLET CHANNEL SHALL BE FULL DEPTH "U" FROM CENTER OF MANHOLE TO WALL.

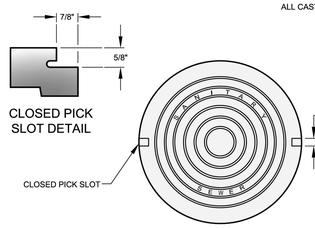
CAST-IN-PLACE MANHOLE

4/15/2015 10:56:22 AM

CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0488

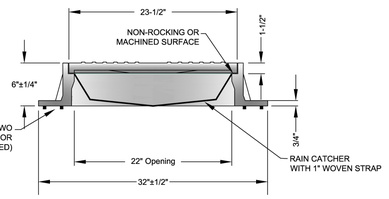
TITLE:	SEWER DETAILS	DATE: APRIL 2015	SHEET:
DESCRIPTION:	CAST-IN-PLACE MANHOLE	REVISED ----- ----- ----- -----	S4
DRAWN BY:	CHECKED BY:	FILE: S4-Cast In Place Manhole.dwg	

ALL CASTINGS SHALL BE "MADE IN USA"



1. MINIMUM WEIGHT OF RING: 100 POUNDS
2. MINIMUM WEIGHT OF COVER: 110 POUNDS
3. COVERS ARE FURNISHED WITH TWO CLOSED PICK SLOTS.
4. CASTINGS SHALL BE "MADE IN USA"

* DIMENSIONAL TOLERANCES SHALL NOT EXCEED 1/16 INCH PER FOOT

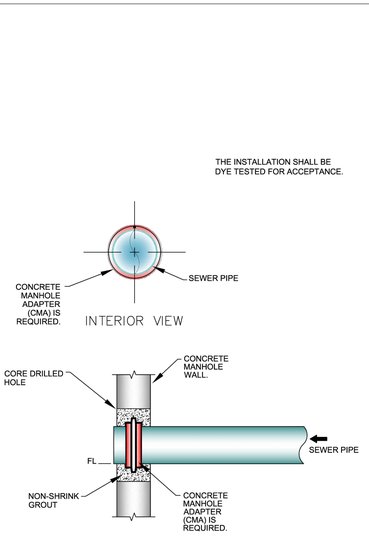


FRAME AND COVER DETAIL

4/15/2015 10:56:51 AM

CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0488

TITLE:	SEWER DETAILS	DATE: APRIL 2015	SHEET:
DESCRIPTION:	MANHOLE FRAME AND COVER	REVISED ----- ----- ----- -----	S6
DRAWN BY:	CHECKED BY:	FILE: S6-Manhole Frame and Cover.dwg	



MANHOLE CORING DETAILS

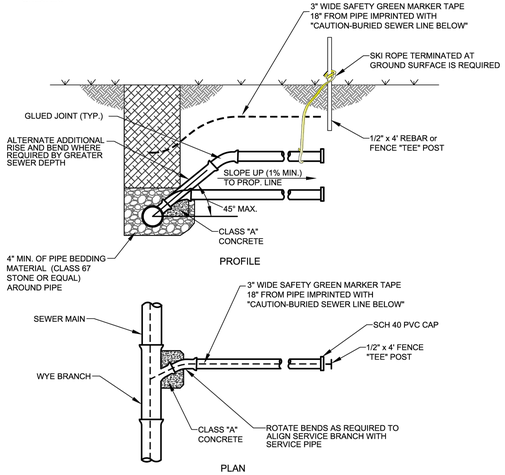
4/16/2015 10:57:34 AM

CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0488

TITLE:	SEWER DETAILS	DATE: APRIL 2015	SHEET:
DESCRIPTION:	MANHOLE CORING	REVISED ----- ----- ----- -----	S11
DRAWN BY:	CHECKED BY:	FILE: S11-Manhole Coring.dwg	

NOTES:

1. MODIFIED RISER LATERAL SHALL BE USED WHEN DEPTH OF COVER EXCEEDS 7'-0"
2. PLACE CLASS "A" CONCRETE UNDER EACH WYE BRANCH TO PREVENT CRACKING OR TWISTING UNDER EARTH LOADS.
3. SERVICE LATERAL STUBS SHALL TERMINATE AT LEAST 2 FEET INSIDE THE PROPERTY LINE BUT IN NO CASE SHALL THE SERVICE LATERAL STUB TERMINATE AT A DISTANCE LESS THAN 8 FEET FROM THE SANITARY SEWER MAIN.
4. BURY A 1/2" x 4' STEEL TEE FENCE POST AT END OF SERVICE LATERAL STUB AND BACKFILL TO FINISHED GRADE OF PROPERTY.
5. 4" DUCTILE IRON PIPE, LINED FOR SANITARY SEWER AND 4" DUCTILE IRON M.J. FITTINGS, LINED FOR SANITARY SEWER, SHALL BE INSTALLED FOR SERVICES BURIED AT DEPTHS OF 14 FEET AND GREATER.



SEWER SERVICE LATERAL

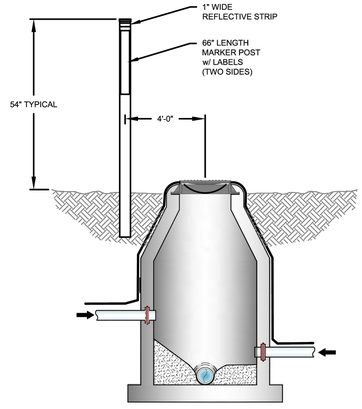
4/16/2015 10:58:06 AM

CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0488

TITLE:	SEWER DETAILS	DATE: APRIL 2015	SHEET:
DESCRIPTION:	SEWER SERVICE LATERAL	REVISED ----- ----- ----- -----	S15
DRAWN BY:	CHECKED BY:	FILE: S15-Sewer Service Lateral.dwg	

NOTES:

1. SEWER LINE MARKERS SHALL BE TRI-VIEW MARKING SYSTEM BY RHINO MARKING AND PROTECTION SYSTEMS OR CARSONITE INTERNATIONAL DUAL-SIDED UTILITY MARKER (CIB-380).
2. THE UPPERMOST PORTION OF THE CARSONITE MARKER SHALL BE MADE OF VISIBILITY ENHANCER (CVE-360).
3. TRI-VIEW MARKERS DO NOT REQUIRE VISIBILITY ENHANCERS.
4. AN ADDITIONAL WHITE 1" WIDE REFLECTIVE TAPE (3M OR EQUAL) SHALL BE PLACED AROUND THE FULL CIRCUMFERENCE OF THE TOP OF THE MARKER.



SEWER MARKER

4/16/2015 10:59:01 AM

CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0488

TITLE:	SEWER DETAILS	DATE: APRIL 2015	SHEET:
DESCRIPTION:	SEWER MARKER	REVISED ----- ----- ----- -----	S24
DRAWN BY:	CHECKED BY:	FILE: S24-Sewer Marker.dwg	

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
KAZI TAMZIDUL ISLAM
NO. 20876

CERTIFICATE OF AUTHORIZATION
HOPE CONSULTING, INC.
No. 019
ARKANSAS

HOPE CONSULTING
ENGINEERS - SURVEYORS
129N. Main Street,
Benton, Arkansas 72015
PH. (501)315-2626
FAX (501) 315-0024
www.hopeconsulting.com

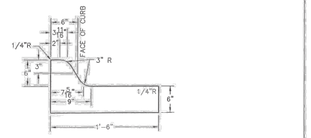
FOR USE AND BENEFIT OF:
HERITAGE HOMES

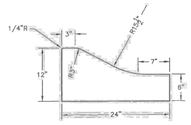
THE COTTAGES OF BRYANT
SEWER DETAILS
PRICKETT ROAD, BRYANT ,ARKANSAS

DATE:	09-23-2026	C.A.D. BY:		DRAWING NUMBER:
REVISED:	10-21-2026	CHECKED BY:		26-0288
SHEET:	C-3.2	SCALE:		

500	01S	14W	0	28		62	1664

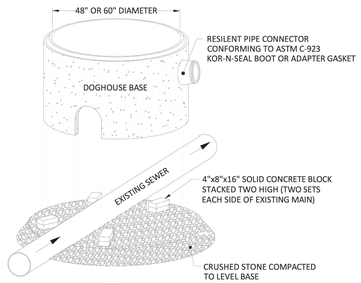
CITY OF BRYANT	CURB & GUTTER SECTIONS	Issue Date: APRIL 2013	Revision Date
		DETAIL 7	



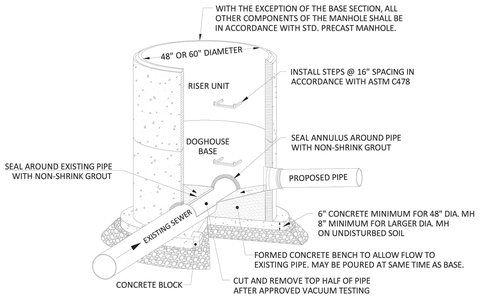


A7

P:\2022 Jrd Projects Rogers\Eng\Jenna\221635-Stone Industrial Park.dwg, 3/1/2023 9:52:57 AM



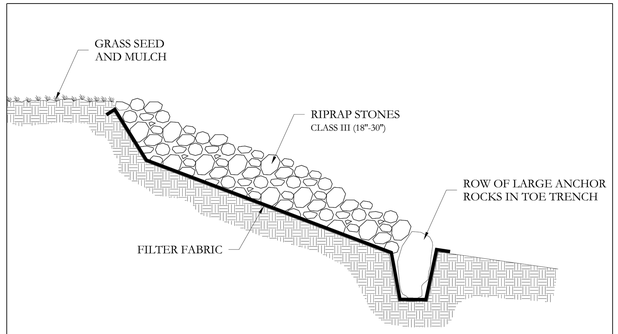
STEP 1



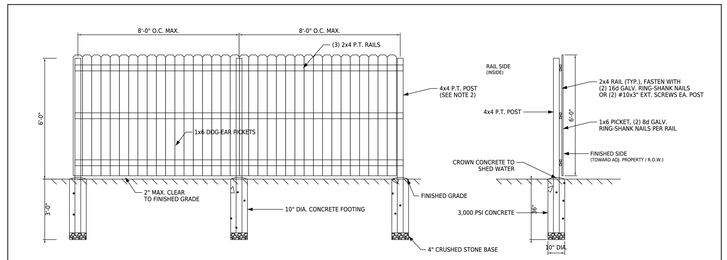
STEP 2

NOTES:
1. CAST-IN-PLACE CONCRETE SHALL BE 4000 PSI, PER ASTM C-94.
2. ALL PRECAST MANHOLE COMPONENTS SHALL MEET ASTM C-478.

Typical Doghouse Manhole Detail for Existing Sewer Mains



RIP RAP DETAIL
NTS

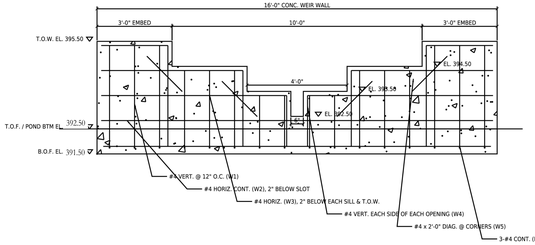


FENCE ELEVATION
(VIEWED FROM RAIL SIDE)

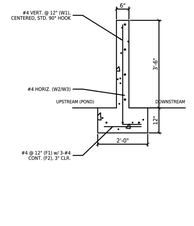
FENCE SECTION
N.T.S.

GENERAL NOTES:
1. FENCE SHALL BE 6'-0" HIGH ABOVE FINISHED GRADE AND MEET THE SCREENING REQUIREMENTS OF THE CITY OF BRYANT ZONING CODE.
2. POSTS: 4x4 NO. 2 SOUTHERN YELLOW PINE, PRESSURE TREATED FOR GROUND CONTACT (AWPA UC4A), 8'-0" O.C. MAX. USE 6x6 POSTS AT CORNERS, ENDS, GATES AND CHANGES IN DIRECTION. EMBED POSTS 32" MIN. ON 4" CRUSHED STONE.
3. FOOTINGS: 10" DIA. x 36" DEEP (12" DIA. AT 6x6 POSTS), 3,000 PSI CONCRETE, TOP CROWNED TO SHED WATER.
4. RAILS: (3) 2x4 P.T. (AWPA UC3B MIN.), SPLICED ONLY OVER POSTS. PICKETS: 1x6x6' DOG-EAR P.T. PINE OR CEDAR.
5. ALL FASTENERS AND HARDWARE HOT-DIP GALVANIZED (ASTM A153) OR STAINLESS STEEL FOR USE WITH TREATED LUMBER.
6. FINISHED (PICKET) SIDE SHALL FACE OUTWARD TOWARD ADJACENT PROPERTY OR PUBLIC RIGHT-OF-WAY.
7. BOTTOM OF PICKETS 2" MAX. ABOVE FINISHED GRADE. ON SLOPES, STEP OR RACK FENCE TO FOLLOW GRADE.
8. FENCE SHALL NOT BLOCK DRAINAGE SWALES, INLETS OR OVERLAND FLOW PATHS WITHIN DRAINAGE EASEMENTS, OR ACCESS TO THE DETENTION POND (TRACT A). PROVIDE OPENINGS OR GATES WHERE THE FENCE CROSSES A FLOW PATH.
9. CONTACT ARKANSAS ONE CALL (811) TO LOCATE UTILITIES BEFORE DIGGING POST HOLES.
10. FENCE LOCATION AND EXTENT AS SHOWN ON THE PLANS OR AS APPROVED BY THE ENGINEER.

6' WOOD PRIVACY FENCE DETAIL N.T.S.	THE COTTAGES OF BRYANT PRICKETT ROAD, BRYANT, ARKANSAS FOR: HERITAGE HOMES, LLC	HOPE CONSULTING, INC. 129 N. MAIN ST., BENTON, AR 72015 JOB NO. 26-0288 DATE: 10/21/2026

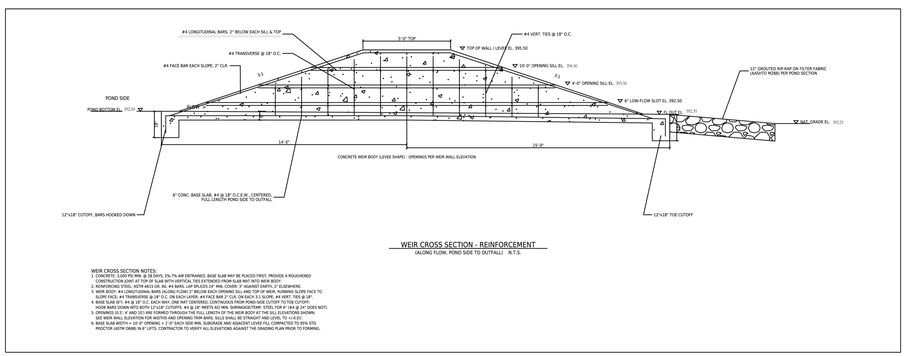


WEIR WALL ELEVATION
(LOOKING DOWNSTREAM) N.T.S.



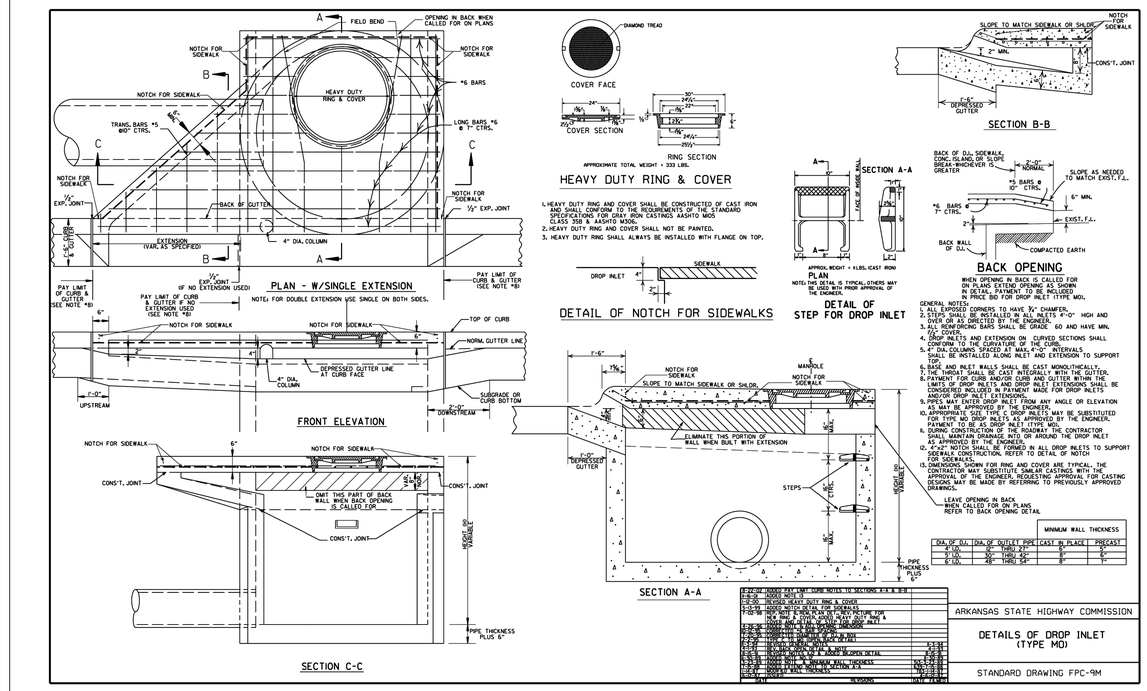
SECTION A-A
N.T.S.

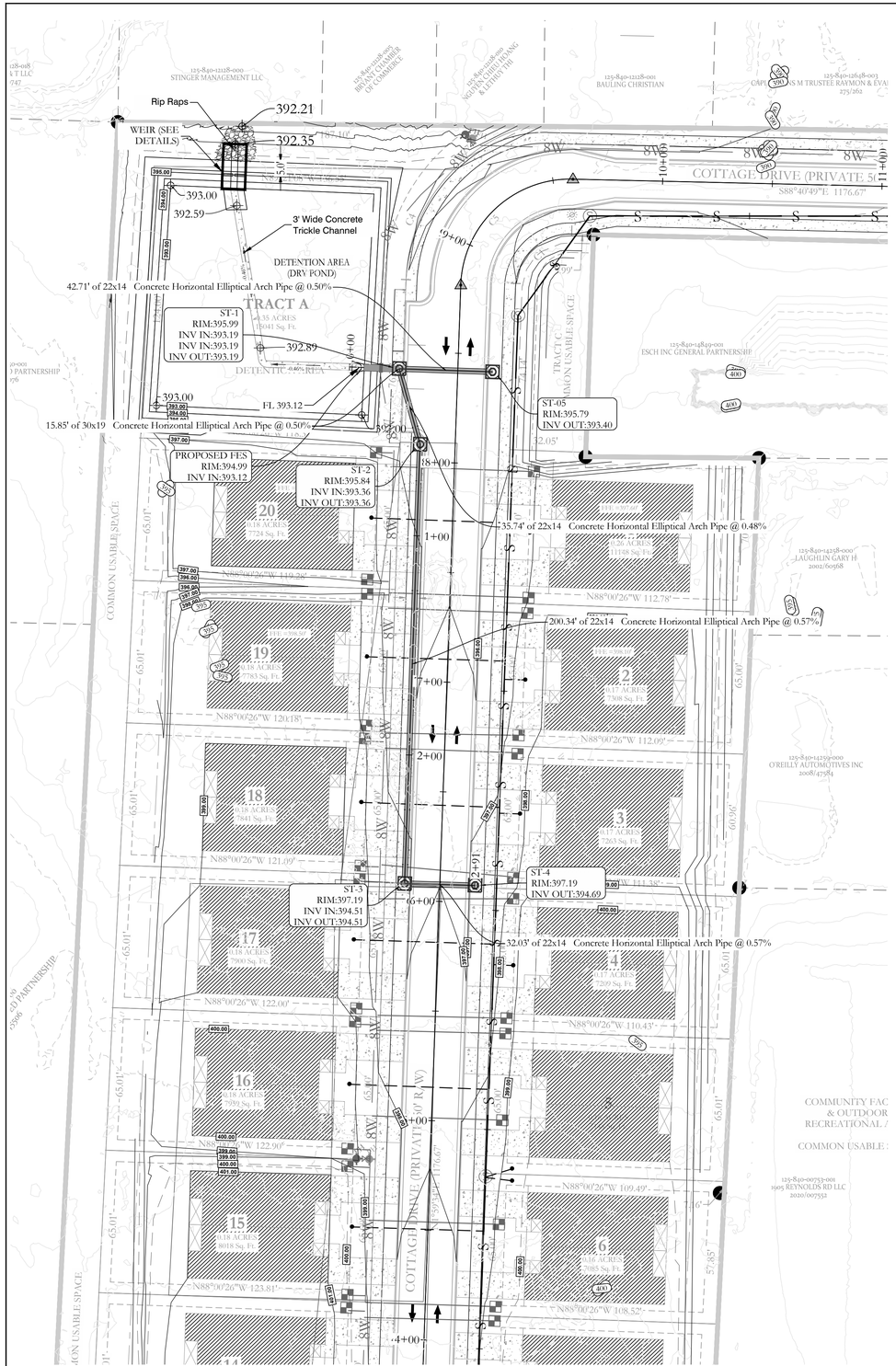
WEIR REINFORCEMENT NOTES:
1. CONCRETE: 3,000 PSI MIN. @ 28 DAYS, 5%-7% AIR ENTRAINED. CHAMFER EXPOSED EDGES 3/4" EXCEPT WEIR SILLS, WHICH SHALL BE STRAIGHT, LEVEL AND SHARP-EDGED; SET ALL SILL INVERTS TO +/-0.01' OF PLAN ELEVATIONS.
2. REINFORCING STEEL: ASTM A615 GRADE 60, #4 BARS UNLESS NOTED. LAP SPLICES 24" MIN.; HOOKS AS STANDARD 90°.
3. CLEAR COVER: 3" CONCRETE CAST AGAINST EARTH; 2" FORMED SURFACES AND TOP OF WALL/CRESTSLOT.
4. WALL (6" THK.): ONE MAT CENTERED - #4 VERT. @ 12" O.C. (W1) HOOKED INTO FOOTING; #4 HORIZ. CONTINUOUS (W2) 2" BELOW SLOT INVERT; #4 HORIZ. (W3) 2" BELOW EACH SILL AND T.O.W., STOPPED 2" CLR. AT OPENINGS; #4 VERT. (W4) 2" CLR. EACH SIDE OF EACH OPENING; #4 x 2'-0" DIAGONAL (W5) AT RE-ENTRANT CORNERS OF THE 4' AND 10' OPENINGS.
5. FOOTING (2'-0" x 12"): #4 @ 12" O.C. TRANSVERSE (F1) WITH 3-#4 CONTINUOUS (F2), 3" CLR. TO BOTTOM.
6. EXTEND WALL 3'-0" INTO LEVEE EACH SIDE OF THE WEIR OPENING; COMPACT LEVEE FILL AGAINST WALL IN 6" LIFTS TO 95% STD. PROCTOR (ASTM D698). FOUND FOOTING ON FIRM UNDISTURBED SOIL OR COMPACTED FILL.
7. PROVIDE RIP-RAP / SPLASH PAD DOWNSTREAM OF WEIR PER POND SECTION DETAIL.
8. CONTRACTOR TO VERIFY ALL ELEVATIONS AGAINST GRADING PLAN PRIOR TO FORMING.

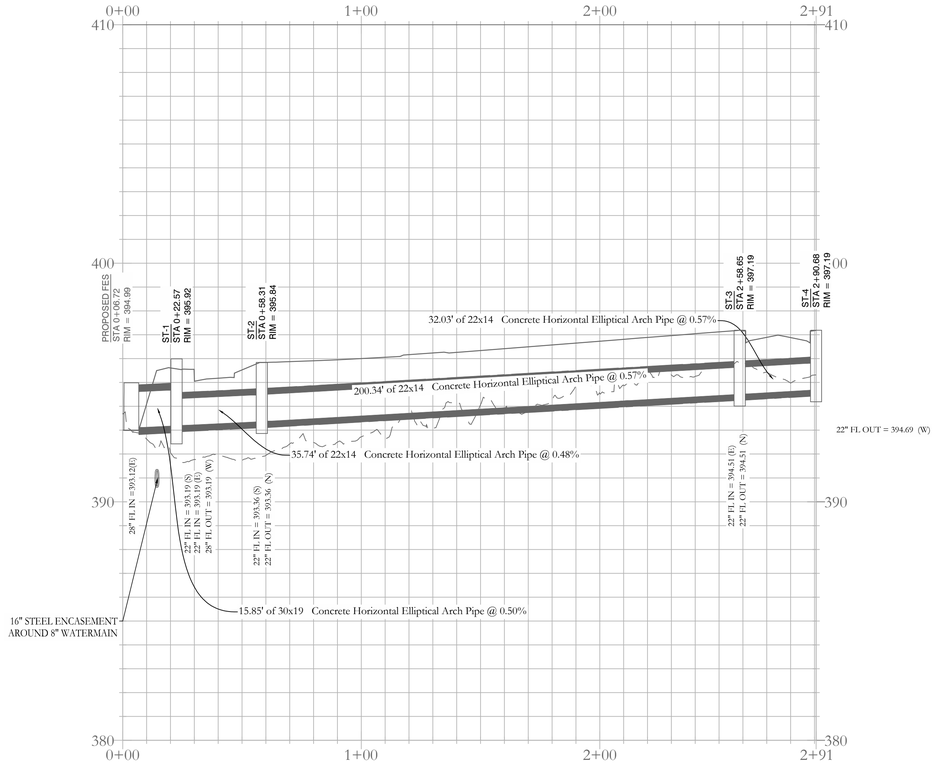


WEIR CROSS SECTION - REINFORCEMENT
(ALONG FLOW, POND SIDE TO OUTFALL) N.T.S.

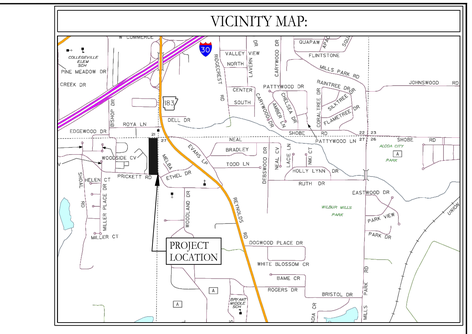
WEIR CROSS SECTION NOTES:
1. CONCRETE: 3,000 PSI MIN. @ 28 DAYS, 5%-7% AIR ENTRAINED. BASE SLAB MAY BE PLACED FIRST. PROVIDE A ROUGHENED CONSTRUCTION JOINT AT TOP OF SLAB WITH VERTICAL TIES EXTENDED FROM SLAB MAT INTO WEIR BODY.
2. REINFORCING STEEL: ASTM A615 GRADE 60, #4 BARS UNLESS NOTED. LAP SPLICES 24" MIN.; HOOKS AS STANDARD 90°.
3. CLEAR COVER: 3" CONCRETE CAST AGAINST EARTH; 2" FORMED SURFACES AND TOP OF WALL/CRESTSLOT.
4. WALL (6" THK.): ONE MAT CENTERED - #4 VERT. @ 12" O.C. (W1) HOOKED INTO FOOTING; #4 HORIZ. CONTINUOUS (W2) 2" BELOW SLOT INVERT; #4 HORIZ. (W3) 2" BELOW EACH SILL AND T.O.W., STOPPED 2" CLR. AT OPENINGS; #4 VERT. (W4) 2" CLR. EACH SIDE OF EACH OPENING; #4 x 2'-0" DIAGONAL (W5) AT RE-ENTRANT CORNERS OF THE 4' AND 10' OPENINGS.
5. FOOTING (2'-0" x 12"): #4 @ 12" O.C. TRANSVERSE (F1) WITH 3-#4 CONTINUOUS (F2), 3" CLR. TO BOTTOM.
6. EXTEND WALL 3'-0" INTO LEVEE EACH SIDE OF THE WEIR OPENING; COMPACT LEVEE FILL AGAINST WALL IN 6" LIFTS TO 95% STD. PROCTOR (ASTM D698). FOUND FOOTING ON FIRM UNDISTURBED SOIL OR COMPACTED FILL.
7. PROVIDE RIP-RAP / SPLASH PAD DOWNSTREAM OF WEIR PER POND SECTION DETAIL.
8. CONTRACTOR TO VERIFY ALL ELEVATIONS AGAINST GRADING PLAN PRIOR TO FORMING.

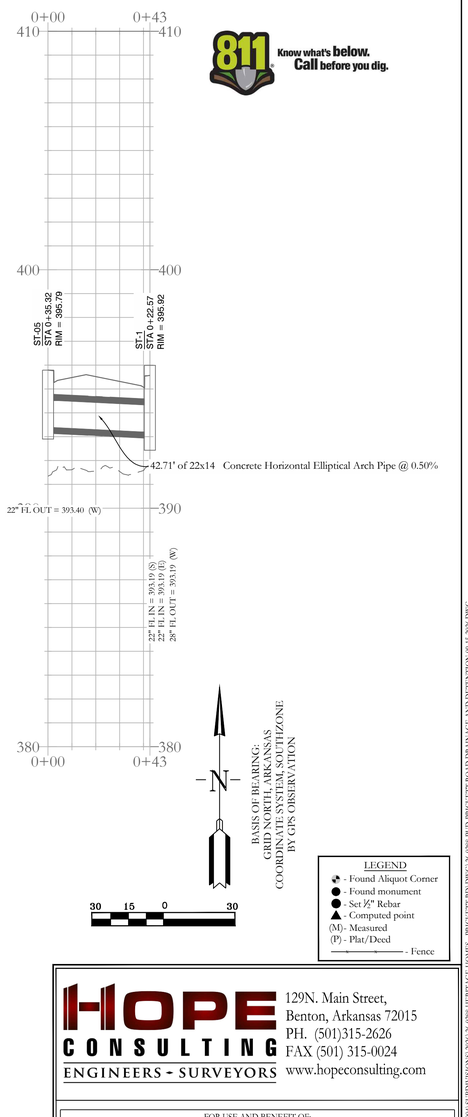

A
FIELD BEND
OPENING IN BACK WHEN CALLED FOR ON PLANS
NOTCH FOR SIDEWALK
NOTCH FOR SIDEWALK
*6 BARS
HEAVY DUTY RING & COVER
TRANS. BARS *5 @60° CTRS.
LONG BARS *6 @ 7" CTRS.
B
C
C
NOTCH FOR SIDEWALK
½" EXP. JOINT
BACK OF GUTTER
NOTCH FOR SIDEWALK
½" EXP. JOINT
EXTENSION (VARIES AS SPECIFIED)
4" DIA. COLUMN
B
A
½" EXP. JOINT (IF NO EXTENSION USED)
PAY LIMIT OF CURB & GUTTER (SEE NOTE *B)
PAY LIMIT OF CURB & GUTTER (IF NO EXTENSION USED) (SEE NOTE *B)
PAY LIMIT OF CURB & GUTTER (SEE NOTE *B)
PLAN - W/SINGLE EXTENSION
NOTE: FOR DOUBLE EXTENSION USE SINGLE ON BOTH SIDES.
6"
NOTCH FOR SIDEWALK
NOTCH FOR SIDEWALK
TOP OF CURB
NORM. GUTTER LINE
4"
4"
6"
DEPRESSED GUTTER LINE AT CURB FACE
4" DIA. COLUMN
1'-0" UPSTREAM
SUBGRADE OR CURB BOTTOM
1'-0" DOWNSTREAM
FRONT ELEVATION
NOTCH FOR SIDEWALK
NOTCH FOR SIDEWALK
6"
CONS'T. JOINT
OMIT THIS PART OF BACK WALL WHEN BACK OPENING IS CALLED FOR
CONS'T. JOINT
CONS'T. JOINT
HEIGHT VARIES
PIPE THICKNESS PLUS 6"
SECTION C-C
DIAMOND TREAD
COVER FACE
COVER SECTION
RING SECTION
APPROXIMATE TOTAL WEIGHT = 333 LBS.
HEAVY DUTY RING & COVER
1. HEAVY DUTY RING AND COVER SHALL BE CONSTRUCTED OF CAST IRON AND SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR GRAY IRON CASTINGS AASHTO M105 CLASS 35B & AASHTO M306.
2. HEAVY DUTY RING AND COVER SHALL NOT BE PAINTED.
3. HEAVY DUTY RING SHALL ALWAYS BE INSTALLED WITH FLANGE ON TOP.
DROP INLET
SIDEWALK
4"
2"
DETAIL OF NOTCH FOR SIDEWALKS
SECTION A-A
1'-6"
1'-6"
FACE OF WINDOW
1'-6"
1'-6"
APPROX. WEIGHT = 9 LBS. (CAST IRON)
PLAN
NOTE: THIS DETAIL IS TYPICAL; OTHERS MAY BE USED WITH PRIOR APPROVAL OF THE ENGINEER.
DETAIL OF STEP FOR DROP INLET
BACK OF D.I. SIDEWALK, CONC. SLOPE, OR SLOPE BREAK WHICHEVER IS GREATER
2'-0" NORMAL
SLOPE AS NEEDED TO MATCH EXIST. F.L.
*5 BARS @ 10" CTRS.
6" MIN.
*6 BARS @ 7" CTRS.
2'-0"
EXIST. F.L.
BACK WALL OF D.I.
COMPACTED EARTH
BACK OF D.I. SIDEWALK, CONC. SLOPE, OR SLOPE BREAK
SLOPE TO MATCH SIDEWALK OR SHLDR.
NOTCH FOR SIDEWALK
2" MIN.
CONS'T. JOINT
2'-6" DEPRESSED GUTTER
SECTION B-B
BACK OF D.I. SIDEWALK, CONC. SLOPE, OR SLOPE BREAK
MANHOLE
NOTCH FOR SIDEWALK
NOTCH FOR SIDEWALK OR SHLDR.
SLOPE TO MATCH SIDEWALK OR SHLDR.
1'-6"
1'-6"
ELIMINATE THIS PORTION OF WALL WHEN BUILT WITH EXTENSION
1'-0" DEPRESSED GUTTER
STEPS
8" MAX.
8" MAX.
8" CTRS.
HEIGHT VARIES
PIPE THICKNESS PLUS 6"
SECTION A-A
BACK OF D.I. / OUTLET PIPE CAST IN PLACE PRECAST
4'-0" 0" THRU 2'-7" 6" 5"
5'-0" 2'-8" THRU 4'-0" 8" 7"
6'-0" 4'-1" THRU 5'-4" 8" 9"
MINIMUM WALL THICKNESS
BACK OF D.I. SIDEWALK, CONC. SLOPE, OR SLOPE BREAK





VERTICAL SCALE : 1"=6'
HORIZONTAL SCALE : 1"=60'





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

LEGEND
- Found Aliquot Corner
- Found monument
- Set ½" Rebar
- Computed point
(M)- Measured
(P) - Plat/Deed
- Fence

NOTES:

1. ALL WATER LINES CROSSING UNDER ANY STORM DRAIN, SHALL BE STEEL ENCASED A MINIMUM OF 5 FEET EITHER SIDE OF THE STORM DRAIN.

2. THE ENGINEER OF RECORD TO PROVIDE INSPECTIONS ON CONSTRUCTION ACTIVITIES FOR STORM LINES.

3. ALL THE STORM DRAINAGE HAVE BEEN DESIGNED IN COMPLIANCE WITH THE CITY OF BRYANT STANDARD SPECIFICATIONS AND STORM DRAINAGE MANUAL.

CERTIFICATE OF AUTHORIZATION HOPE CONSULTING, INC. No. 161 ARKANSAS

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER NO. 20876 KARL D. WILLIAMS 10-21-2026

HOPE CONSULTING ENGINEERS - SURVEYORS
129N. Main Street,
Benton, Arkansas 72015
PH. (501)315-2626
FAX (501) 315-0024
www.hopeconsulting.com

FOR USE AND BENEFIT OF:
HERITAGE HOMES

THE COTTAGES OF BRYANT
DRAINAGE PLAN & PROFILE
PRICKETT ROAD, BRYANT ,ARKANSAS

DATE:	09-23-2026	C.A.D. BY:		DRAWING NUMBER:	
REVISED:	10-21-2026	CHECKED BY:		26-0288	
SHEET:	C-4.0	SCALE:			

500	01S	14W	0	28		62	1664

I:\HERITAGE HOMES\PROJECTS\2026\26-0288 HERITAGE HOMES PROJECTS\26-0288 PLD PRICKETT ROAD DRAINAGE AND DETENTION 09-15-2026.DWG



PRE-CONSTRUCTION PHASE OR
INITIAL PHASE

EROSION CONTROL CONSTRUCTION PHASES

PRE-CONSTRUCTION:

1. INSTALL SILT FENCES AROUND THE PROJECT SITE.
2. ESTABLISH A CONSTRUCTION ENTRANCE TO CONTROL SITE ACCESS AND MINIMIZE DISTURBANCE.
3. MAINTAIN EXISTING DRAINAGE SWALES.

CONSTRUCTION:

1. INSTALL CONCRETE WASHOUT AREAS.
2. CONSTRUCT RIP-RAP CHECK DAMS FOR EROSION CONTROL.
3. MAINTAIN SILT FENCES THROUGHOUT CONSTRUCTION.

POST-CONSTRUCTION:

1. SEED OR SOD AND MULCH DISTURBED AREAS TO STABILIZE SOIL.
2. MAINTAIN SILT FENCES UNTIL VEGETATION IS FULLY ESTABLISHED.
3. REPAIR OR REPLACE DAMAGED BMPS WITHIN 3 BUSINESS DAYS OR BEFORE THE NEXT RAIN EVENT.

SWPPP SPECIFIC NOTES

1. ALL DEVELOPMENT SHALL COMPLY WITH CITY OF BRYANT AND ADEQ ARR150000 STORMWATER PERMIT REQUIREMENTS.

2. INSTALL SILT FENCE AS SHOWN ON THE PLANS; ADD ADDITIONAL FENCING WHERE HEAVY RUNOFF MAY OCCUR. CONTRACTOR SHALL INSPECT AND INSTALL SUPPLEMENTAL MEASURES AS NEEDED TO CONTAIN RUNOFF.

3. CONSTRUCT RIP-RAP CHECK DAMS PER ADEQ REQUIREMENTS. LOCATIONS SHOWN ARE APPROXIMATE; ADD ADDITIONAL CHECK DAMS AS SITE CONDITIONS REQUIRE.

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5. IMPLEMENT ADDITIONAL EROSION-CONTROL MEASURES AS NECESSARY BASED ON SITE CONDITIONS.

6. CONTRACTOR SHALL UTILIZE ACCEPTED BEST MANAGEMENT PRACTICES (BMPS) FOR ALL SEDIMENT AND RUNOFF CONTROL MEASURES.

INSPECTION AND MAINTENANCE PLAN

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DESCRIBE PROCEDURES TO KEEP THE FOLLOWING IN GOOD AND EFFECTIVE OPERATING CONDITION:

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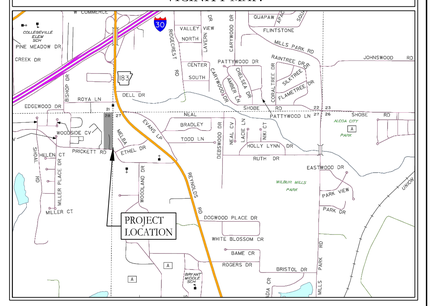
- ANY OTHER PROTECTIVE MEASURES LISTED IN THE SITE PLAN

VICINITY MAP:



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2.) REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

3.) SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.

4.) USE ONLY WIRE BACKED SILT FENCE.

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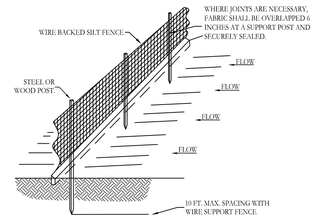
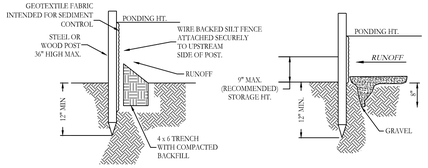


SILT FENCE



STANDARD DETAIL
TRENCH WITH NATIVE BACKFILL

ALTERNATE DETAIL
TRENCH WITH GRAVEL

ERC LEGEND

SITE POSTING

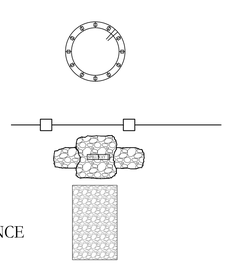
CONC. WASHOUT

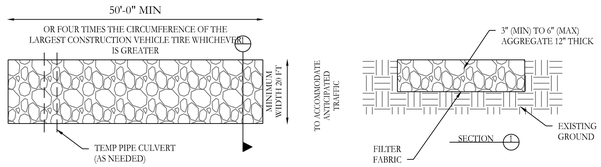
SILT FENCE

RIP RAP CHECK DAM

CONSTRUCTION ENTRANCE

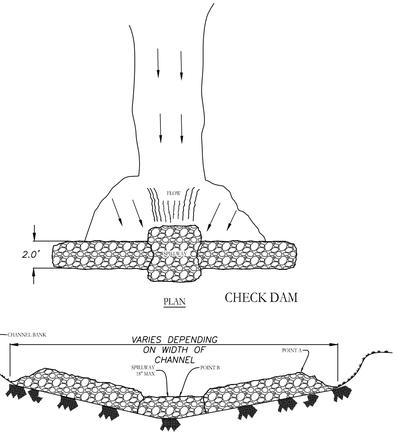
FLOW ARROW





STABILIZED CONSTRUCTION ENTRANCE
N.T.S

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



NOTES:

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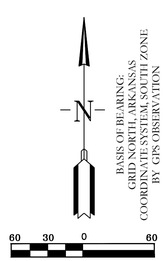
3.) USE CLEAN CRUSHED STONE OR COBBLE IN A SMALLER GRADATION IN CHECK DAM.
4.) SPILLWAY HEIGHT SHALL NOT EXCEED 18"-24".
5.) INSPECT AFTER EACH SIGNIFICANT STORM, MAINTAIN AND REPAIR PROMPTLY.

EROSION CONTROL NOTES

- A COPY OF THE SWPPP MUST BE KEPT ON-SITE AT ALL TIMES.
- THE CONTRACTOR SHALL NOT BEGIN SOIL-DISTURBING ACTIVITIES UNTIL ALL PERIMETER CONTROLS ARE INSTALLED.
- THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS AND DRAINAGE PATTERNS BEFORE CLEARING BEGINS.
- ALL EXISTING VEGETATION WHICH ARE DESIGNATED TO REMAIN SHALL BE PROJECTED.
- THE CONTRACTOR SHALL ENSURE ALL EROSION CONTROL MATERIALS AND SUPPLIES ARE ON-SITE BEFORE DISTURBANCE BEGINS.
- ALL EXISTING DRAINAGE CHANNELS, CULVERTS, AND CONVEYANCES MUST BE PROTECTED FROM SEDIMENTATION.
- ALL DOWNSTREAM RECEIVING WATERS MUST BE PROTECTED PRIOR TO STARTING WORK.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE REMOVING OR ALTERING ANY EXISTING EROSION CONTROL FEATURES ON SITE.
- ALL STORM DRAINS INLETS HAVE TO BE PROTECTED PRIOR TO DISTURBANCE IN THEIR DRAINAGE AREA.
- ANY DEFICIENCIES IN EROSION CONTROL MEASURES MUST BE REPORT TO THE ENGINEER IMMEDIATELY AND CORRECT THEM BEFORE PROCEEDING.



STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
NO. 23876
KAZI TAMZIDUL ISLAM

CERTIFICATE OF AUTHORIZATION
HOPE CONSULTING, INC.
No. 1931
ARKANSAS

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FOR USE AND BENEFIT OF:
HERITAGE HOMES

THE COTTAGES OF BRYANT
EROSION CONTROL PLAN-1

PRICKETT ROAD, BRYANT ,ARKANSAS

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H:\SHARED DRIVE\CONSULTING\LAND PROJECTS 2500 SERIES\2500\26-0288 HERITAGE HOMES - PRICKETT RD\ DWG\26-0288 PRICKETT ROAD DRAINAGE AND DETENTION 09-15-2026.DWG



ERC LEGEND

SITE POSTING

CONC. WASHOUT

SILT FENCE

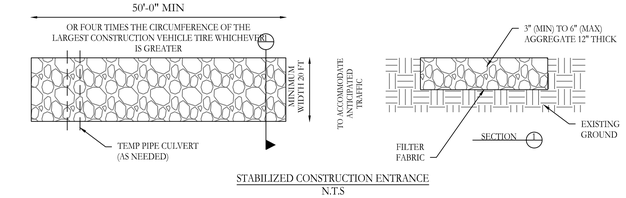
RIP RAP CHECK DAM

CONSTRUCTION ENTRANCE

FLOW ARROW

CONSTRUCTION PHASE

LEGEND
BOC = TOP OF BACK OF CURB
FG = FINISHED GRADE
EG = EXISTING GRADE
SW = TOP OF SIDEWALK
T/AS = TOP OF ASPHALT



STABILIZED CONSTRUCTION ENTRANCE
N.T.S

EROSION CONTROL CONSTRUCTION PHASES

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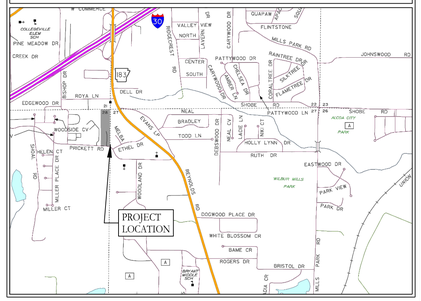

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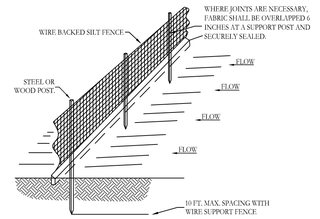
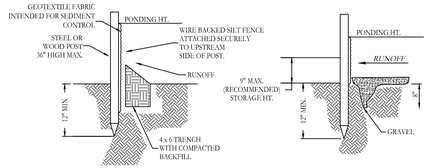


SILT FENCE



STANDARD DETAIL
TRENCH WITH NATIVE BACKFILL

ALTERNATE DETAIL
TRENCH WITH GRAVEL

EROSION CONTROL NOTES

- ALL DOWNSLOPE AND SIDESLOPE PERIMETER CONTROLS (SILT FENCE, STRAW BALES, BERMS) MUST BE INSTALLED BEFORE ANY LAND-DISTURBING ACTIVITIES BEGIN.
- ANY DISTURBED AREA WHERE CONSTRUCTION ACTIVITIES CEASE FOR MORE THAN 14 DAYS SHALL BE TEMPORARILY STABILIZED USING MULCH, MATTING, SEED, OR OTHER APPROVED STABILIZATION MEASURES.
- SEDIMENT-TRAPPING DEVICES MUST BE INSTALLED AT ALL POINTS WHERE RUNOFF EXITS THE SITE TO PREVENT SEDIMENT FROM LEAVING THE PROJECT AREA.
- QUALIFIED PERSONNEL MUST INSPECT ALL EROSION AND SEDIMENT CONTROLS EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL EVENT OF 0.5 INCHES OR GREATER.
- DAMAGED SILT FENCES, WASHED-OUT BERMS, CLOGGED INLETS, OR ERODED CHANNELS MUST BE REPAIRED IMMEDIATELY AFTER EACH INSPECTION.
- A STABILIZED CONSTRUCTION ENTRANCE MUST BE USED AT ALL SITE ACCESS POINTS AND MAINTAINED REGULARLY TO PREVENT MUD TRACKING ONTO PUBLIC ROADS. STREET SWEEPING SHALL OCCUR DAILY AS NEEDED.
- UNPAVED SURFACES AND DISTURBED AREAS SHALL BE WATERED OR COVERED TO PREVENT WIND-BLOWN DUST AND SOIL LOSS.
- SLOPES STEEPER THAN 3H:1V REQUIRE STABILIZATION USING EROSION CONTROL BLANKETS, MATS, OR TURF REINFORCEMENT. NO SLOPE MAY EXCEED 2H:1V WITHOUT ENGINEERED STABILIZATION.
- SEDIMENT BASINS AND TRAPS MUST BE REGULARLY CLEANED OUT WHEN SEDIMENT REACHES ONE-HALF OF THE DESIGN DEPTH.
- ANY SPILL OF OIL OR HAZARDOUS SUBSTANCES ABOVE REPORTABLE QUANTITIES MUST BE REPORTED TO REGULATORY AGENCIES AND RECORDED AS REQUIRED.
- ALL EROSION AND SEDIMENT CONTROL DEVICES MUST REMAIN IN PLACE AND FUNCTIONAL THROUGHOUT ALL PHASES OF CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED.
- ADDITIONAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED AS REQUIRED, BASED ON SITE-SPECIFIC CONDITIONS.
- ALL DISTURBED AREAS LEFT IDLE FOR 14 DAYS OR LONGER SHALL BE TREATED WITH TEMPORARY VEGETATION AND MULCHING.

VIEW LOOKING UPSTREAM

NOTES:

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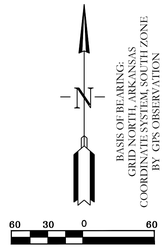





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FOR USE AND BENEFIT OF:
HERITAGE HOMES

THE COTTAGES OF BRYANT
EROSION CONTROL PLAN-2
PRICKETT ROAD, BRYANT ,ARKANSAS

DATE:	09-23-2026	C.A.D. BY:	DRAWING NUMBER:
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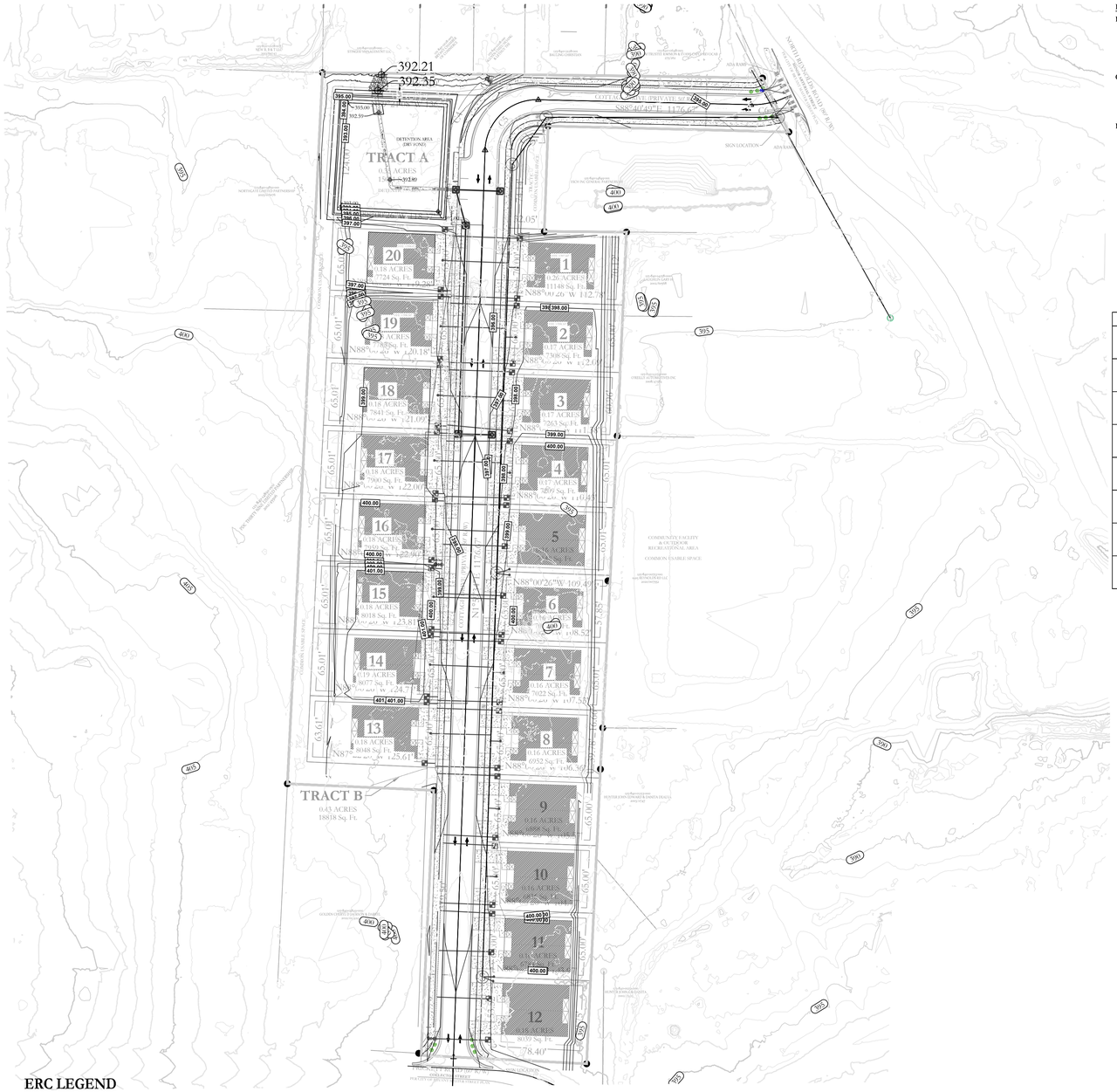

POST-CONSTRUCTION PHASE

ERC LEGEND

SITE POSTING

CONC. WASHOUT

SILT FENCE

RIP RAP CHECK DAM

CONSTRUCTION ENTRANCE

FLOW ARROW

EROSION CONTROL CONSTRUCTION PHASES

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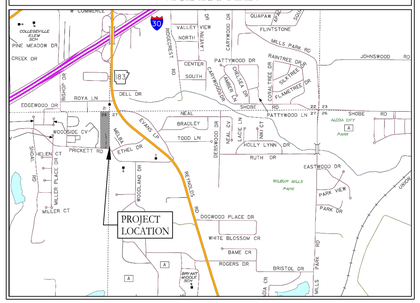

SEQUENCE OF CONSTRUCTION PLAN

Step	Activity	ESC/Control Measures	Notes
1	Install temporary ESC	Silt fence, construction entrance, riprap	Must be installed before any land disturbing activity
2	Site Clearing	Maintain temporary ESC, protect sensitive areas	Limit disturbance to only necessary areas
3	Final Grading / Slope Stabilization	Temporary ESC still in place	Install permanent measures where needed
4	Permanent Control Installation	Permanent pond structures, spillway, riprap, ditches	Remove temporary ESC only after permanent controls installed and stabilized
5	Vegetation / Stabilization	Permanent seeding / sod	Stabilize slopes and disturbed areas as soon as possible
6	Monitoring & Maintenance	Weekly inspections, repair damaged ESC measures	Follow SWPPP inspection schedule (every 7 days or after rain ≥0.5")
7	Site Final Stabilization	Confirm 80% vegetative cover or equivalent permanent measures	Required before filing Notice of Termination (NOT)
8	Project Completion / Termination	Remove temporary measures, submit NOT	Only after full stabilization

(Reference: Bryant Stormwater Management Manual,Sections 1104.4.1-1104.4.7)

SILT FENCE MATERIAL: IT SHALL BE GEOTEXTILE FABRIC (ASTM D4632), MINIMUM 3 FT HEIGHT, HAVING 10 FT MAXIMUM SPACING WITH STEEL WIRE SUPPORT FENCE.

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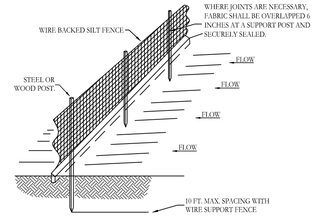
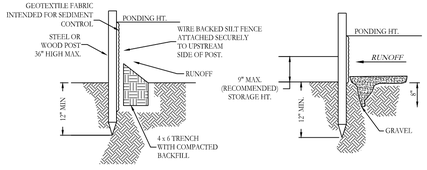


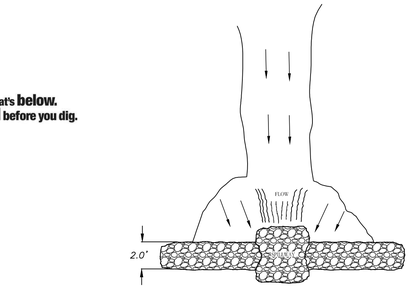
SILT FENCE



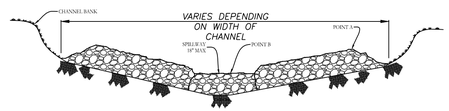
STANDARD DETAIL
TRENCH WITH NATIVE BACKFILL

ALTERNATE DETAIL
TRENCH WITH GRAVEL

STABILIZED CONSTRUCTION ENTRANCE
N.T.S



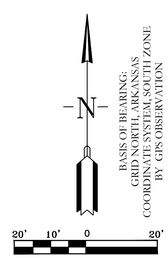
PLAN CHECK DAM



VIEW LOOKING UPSTREAM

NOTES:

1.) POINT 'A' MUST BE HIGHER THAN POINT 'B' (SPILLWAY HEIGHT)
2.) PLACE RIP-RAP BARRIER PERPENDICULAR TO THE FLOW WITH TIGHT GROUPING.
USE LOOSE ROCK OR AGGREGATE PLACED OVER SOIL SURFACES, BROKEN CONCRETE IS NOT ACCEPTABLE STRAW, ROCKS, OR FILTER FABRIC TO FILL ANY GAPS AND TAMP BACKFILL MATERIAL TO PREVENT EROSION OR FLOW AROUND THE DAM.
3.) USE CLEAN CRUSHED STONE OR COBBLE IN A SMALLER GRADATION IN CHECK DAM.
4.) SPILLWAY HEIGHT SHALL NOT EXCEED 18"-24".
5.) INSPECT AFTER EACH SIGNIFICANT STORM, MAINTAIN AND REPAIR PROMPTLY.



EROSION CONTROL NOTES

- ALL EXPOSED SOIL AREAS MUST ACHIEVE A UNIFORM 80% VEGETATIVE COVER OR EQUIVALENT PERMANENT STABILIZATION BEFORE THE PROJECT CAN BE CONSIDERED COMPLETE.
- TEMPORARY BMPS (E.G., SILT FENCES, STRAW BALES, SEDIMENT BASINS) MUST BE REMOVED ONLY AFTER UPSTREAM AREAS ARE PERMANENTLY STABILIZED.
- ANY AREAS DISTURBED DURING THE REMOVAL OF TEMPORARY CONTROL MEASURES MUST BE RE-GRADED, SEEDED, AND STABILIZED IMMEDIATELY.
- ALL PERMANENT DRAINAGE CHANNELS, DITCHES, AND CONVEYANCE SYSTEMS MUST BE COMPLETED AND STABILIZED (VEGETATED OR ARMORED) TO PREVENT POST-CONSTRUCTION EROSION.
- INLET PROTECTION SHOULD REMAIN IN PLACE UNTIL SURROUNDING DRAINAGE AREAS ACHIEVE FINAL STABILIZATION AND NO LONGER CONTRIBUTE SEDIMENT.
- INSPECTIONS MUST CONTINUE UNTIL THE NOTICE OF TERMINATION (NOT) IS APPROVED. INSPECT MONTHLY OR AFTER MAJOR STORM EVENTS TO VERIFY STABILIZATION EFFECTIVENESS.
- ANY ACCUMULATED SEDIMENT IN STORMWATER PONDS, SWALES, OR CHANNELS MUST BE REMOVED TO RESTORE DESIGN CAPACITY.
- STREAM BUFFERS, CHANNELS, AND WETLANDS MUST BE RESTORED TO PRE-CONSTRUCTION CONDITION AND PROTECTED FROM FUTURE EROSION.

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
NO. 20876
KAZI TAMZIDUL ISLAM

CERTIFICATE OF AUTHORIZATION
HOPE CONSULTING, INC.
No. 1931
ARKANSAS

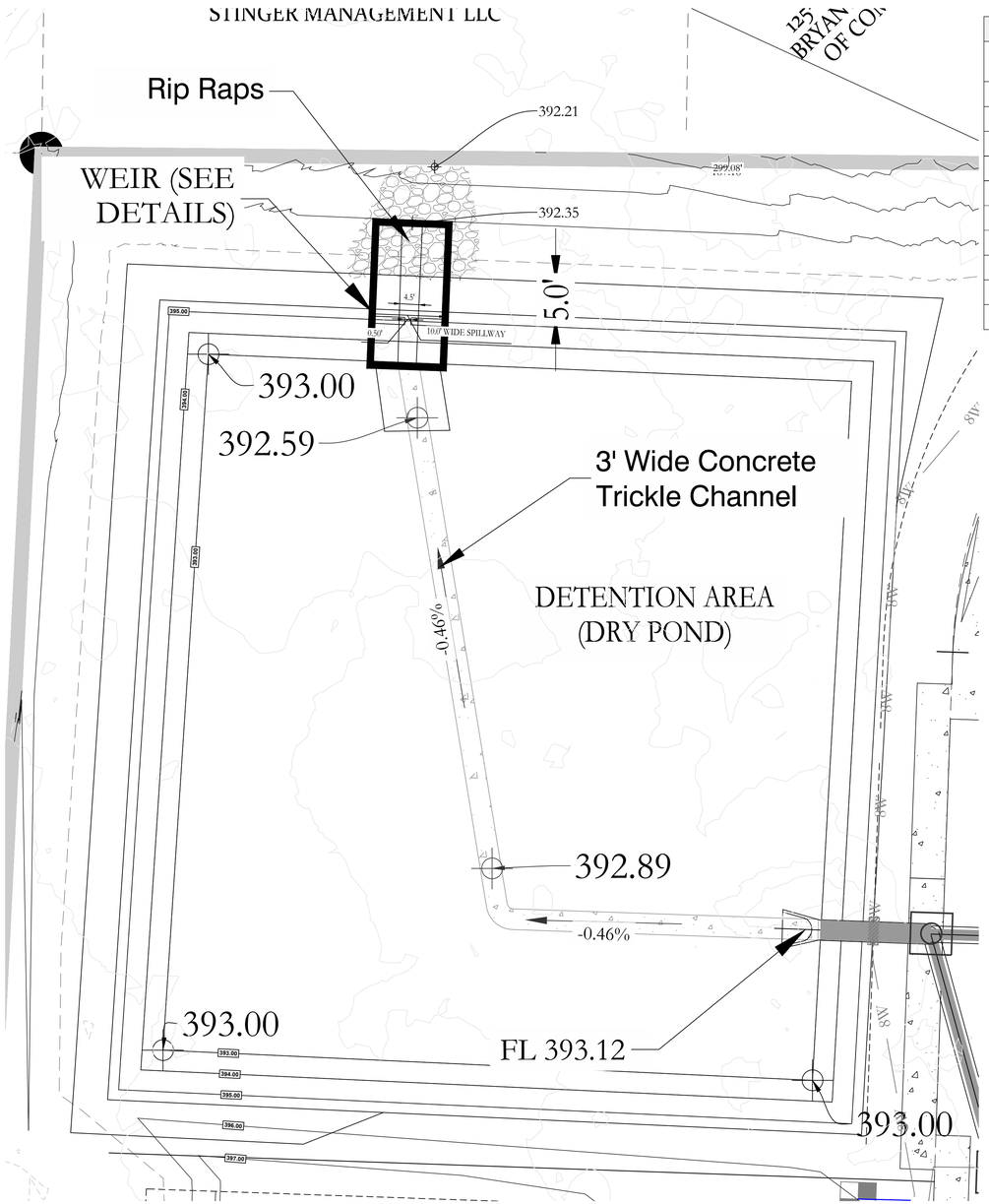
HOPE CONSULTING
ENGINEERS - SURVEYORS
129N. Main Street,
Benton, Arkansas 72015
PH. (501)315-2626
FAX (501) 315-0024
www.hopeconsulting.com

FOR USE AND BENEFIT OF:
HERITAGE HOMES

THE COTTAGES OF BRYANT
EROSION CONTROL PLAN-3
PRICKETT ROAD, BRYANT ,ARKANSAS

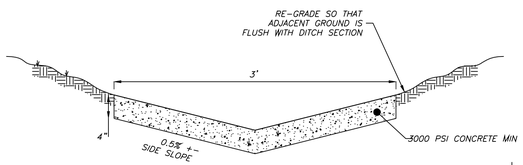
DATE:	09-23-2026	C.A.D. BY:		DRAWING NUMBER:	
REVISED:	10-21-2026	CHECKED BY:			26-0288
SHEET:	C-5.2	SCALE:			

500	01S	14W	0	28		62	1664

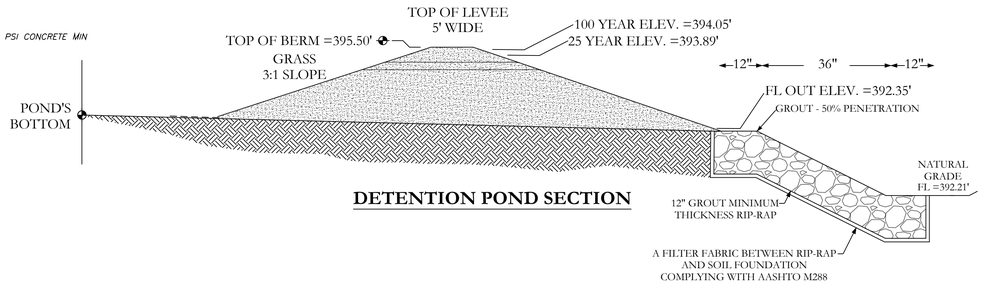


DETENTION POND

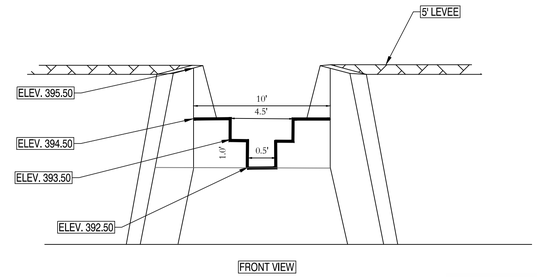
POND DETAILS	
Pond bottom	393.00' min. (at channel edges, weir end), graded at 0.5% min. toward trickle channel
FES invert / rim	393.12' / 394.99'
Trickle channel type	3'-0" wide x 6" deep concrete V-ditch, 3:1 side slopes
Trickle channel flowline, FES end	393.12' (top of edge 393.62')
Trickle channel flowline, weir end	392.50' (top of edge 393.00')
Trickle channel length / grade	135' at 0.46%
Weir opening invert	392.50'
Weir opening width	4.5'
25-year WSE	393.89'
100-year WSE	394.05'
Top of berm	395.50'

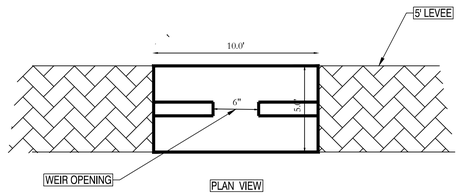


DETAIL (NTS)
TRICKLE CHANNEL SECTION



DETENTION POND SECTION



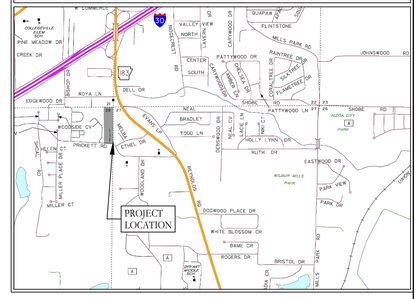


POND WEIR

EARTHEN SLOPE NOTE:
EARTHEN DETENTION POND SLOPES ON BOTH THE INTERIOR AND EXTERIOR OF THE POND SHALL HAVE A MAXIMUM SLOPE OF 3:1.

NOTE:
1. DETENTION POND WILL BE REQUIRED TO BE STABILIZED WITH SOLID SOD/SEED STABILIZATION PER THE STORM WATER MANAGEMENT MANUAL.
2. DETENTION POND WILL HAVE A 5' WIDE LEVEE.
3. SAFETY: UPON COMPLETION, THE DETENTION BASIN SHALL BE ENCLOSED WITH FENCING PER THE FENCE DETAIL ON THIS SHEET,WITH A LOCKABLE MAINTENANCE ACCESS GATE, IN ACCORDANCE WITH SECTION 1000.7 OF THE CITY OF BRYANT STORMWATER MANAGEMENT MANUAL.

VICINITY MAP:



STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
NO. 20876
KAZI TAMZIDUL ISLAM

CERTIFICATE OF AUTHORIZATION
HOPE CONSULTING INC.
No. 1931
ARKANSAS

DETENTION POND MAINTENANCE PLAN

Background
The Detention pond is located at the North West of the subjected property. It is designed to temporarily detain stormwater to meet water quantity criteria before discharging off the property.

Routine Maintenance
Routine maintenance will include but not be limited to:
-Mowing of the bank slopes and area around the pond on a monthly basis during the growing season and as needed during the cooler months.

-The outlet pipe from the pond and other areas will be inspected monthly for debris which could inhibit the proper flow of discharge. Any debris will be removed immediately and disposed of or placed in a location to prevent future maintenance and to not cause impact up or downstream of the structure.

-Trash will be removed from around the pond to prevent entering the pond. Generally, the site should be kept free of loose trash which could be carried off site by wind or rain.

-Inspect the pond and outlet pipe for non-routine maintenance need.

-The pond shall be maintained in accordance with section 1000 of the city of bryant storm water management manual.

-Mosquito control: the detention pond is designed as a dry pond and shall drain completely within 72 hours after a storm event.

Standing water shall not be permitted. The owner shall correct any ponding areas by regrading and shall keep the trickle channel and outlet free of debris.

-The engineer of record shall be responsible for inspection of the detention pond, outlet structure,and trickle channel during construction and shall certify that the pond was constructed in accordance with the approved plans prior to final acceptance.

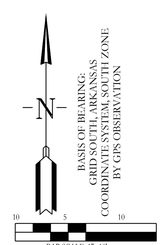
Periodic or Non-Routine Maintenance
The routine inspection of the pond area and discharge pipe will identify needed repairs and non-routine maintenance. These items may include but not be limited to:

-Re-growth of trees on or around the pond bank. These should be cut and removed from the pond area.

-Sediment from the site may accumulate in the pond bottom and reduce the pond to below design volume requirements. The pond should be excavated if the pond bottom elevation reached a level that allows excessive aquatic growth or reduces the pond efficiency such, that the sediments are passing the discharge structure and release off site.

-Stabilization or re-grading of side slopes may be required periodically or after excessive rain events. Any disturbance of slopes should be reseeded or may require installation of erosion control materials until seeding can reestablish adequate grasses to prevent future erosion.

-Any other maintenance or repairs which would minimize other maintenance to the pond or outfall structures.



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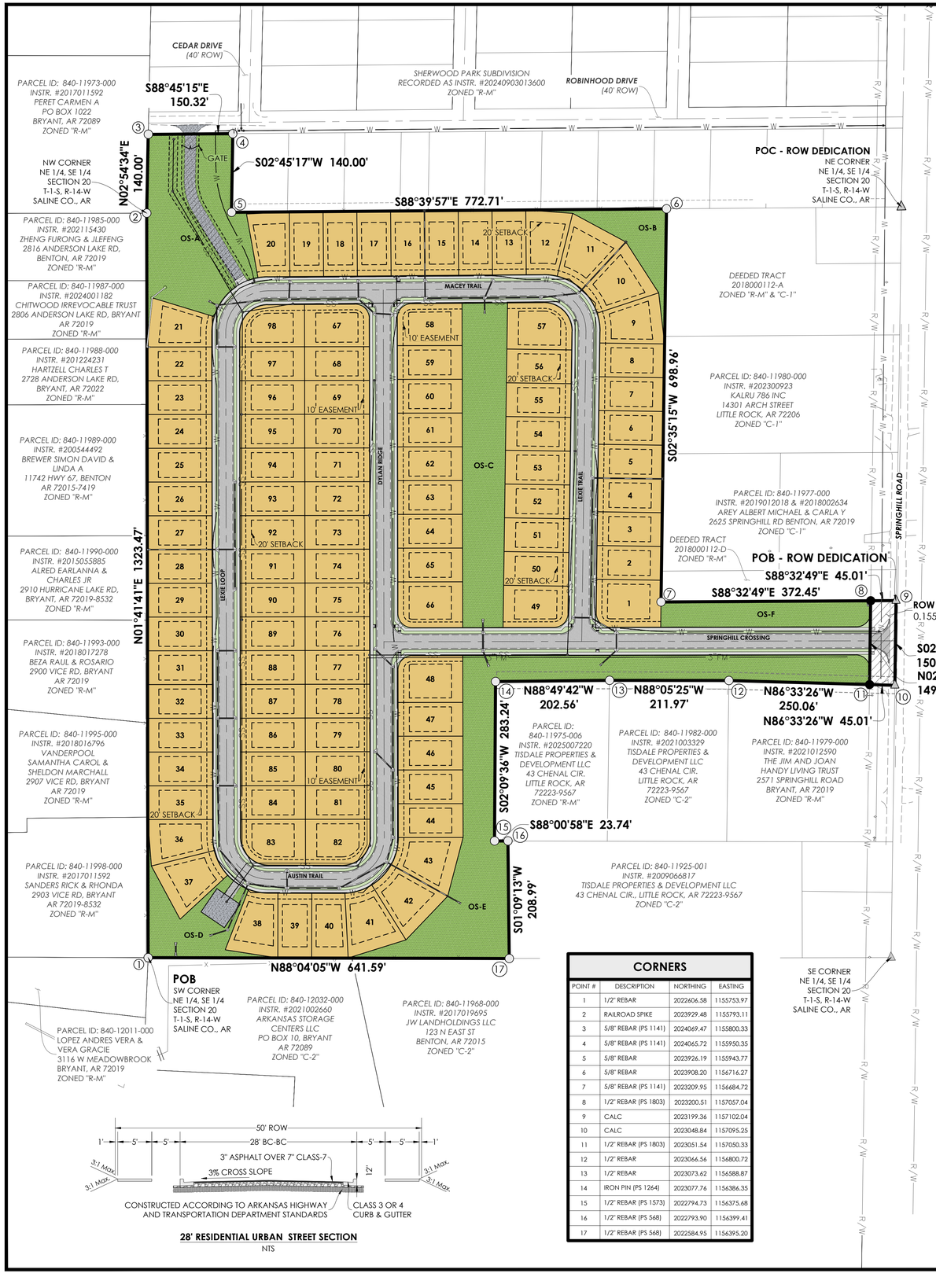
FOR USE AND BENEFIT OF:
HERITAGE HOMES

THE COTTAGES OF BRYANT
DETENTION POND
PRICKETT ROAD, BRYANT ,ARKANSAS

DATE:	09-23-2026	C.A.D. BY:	DRAWING NUMBER:
REVISED:	10-21-2026	CHECKED BY:	26-0288
SHEET:	C-6.0	SCALE:	

500	01S	14W	0	28		62	1664

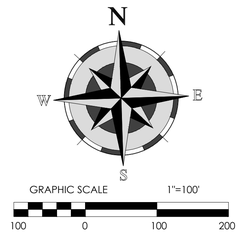
H:\SHARED\HOPECONSULTING\LAND PROJECTS 2004 SUBDIVISIONS\2026\26-0288 HERITAGE HOMES - PRICKETT RD\ DWG\26-0288 PRICKETT ROAD DRAINAGE AND DETENTION 09-15-2026.DWG



28' RESIDENTIAL URBAN STREET SECTION
NTS

CORNERS

POINT #	DESCRIPTION	NORTHING	EASTING
1	1/2" REBAR	2022606.58	1155753.97
2	RAILROAD SPIKE	2023929.48	1155793.11
3	5/8" REBAR (PS 1141)	2024069.47	1155800.33
4	5/8" REBAR (PS 1141)	2024065.72	1155950.35
5	5/8" REBAR	2023926.19	1155943.77
6	5/8" REBAR	2023908.20	1156716.27
7	5/8" REBAR (PS 1141)	2023209.95	1156684.72
8	1/2" REBAR (PS 1803)	2023200.51	1157057.04
9	CALC	2023199.36	1157102.04
10	CALC	2023048.84	1157095.25
11	1/2" REBAR (PS 1803)	2023051.54	1157050.33
12	1/2" REBAR	2023066.56	1156800.72
13	1/2" REBAR	2023073.62	1156588.87
14	IRON PIN (PS 1264)	2023077.76	1156386.35
15	1/2" REBAR (PS 1573)	2022794.73	1156375.68
16	1/2" REBAR (PS 568)	2022793.90	1156399.41
17	1/2" REBAR (PS 568)	2022584.95	1156395.20



BASIS OF BEARING
STATE PLANE COORDINATES
ARKANSAS SOUTH ZONE NAD-83

ACREAGE PER 40

NE 1/4, SE 1/4, SECTION 20	26.053 ACRES
SE 1/4, NE 1/4, SECTION 20	0.484 ACRES
TOTAL	26.537 ACRES

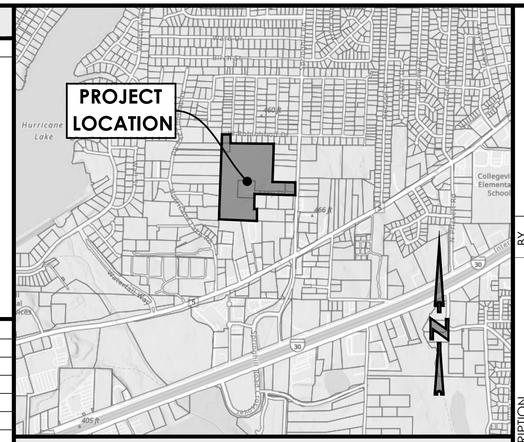
OPEN SPACE:

TRACT A	1.171 AC
TRACT B	0.272 AC
TRACT C	1.009 AC
TRACT D	0.436 AC
TRACT E	1.789 AC
TRACT F	0.387 AC
TOTAL:	5.064 AC

LEGEND

PROPOSED	DESCRIPTION
	BOUNDARY FINAL
	BOUNDARY ADJOINER
	EASEMENT
	BUILDING SETBACK
W	WATER LINE
SS	SANITARY SEWER LINE
	STORM DRAINAGE PIPE
	FD MONUMENT (AS NOTED)
	SET MONUMENT (AS NOTED)
	CALCULATED POINT
	CURB INLET/JUNCTION BOX
M	WATER METER
	WATER VALVE
	FIRE HYDRANT
	SANITARY SEWER MANHOLE

TOTAL PARCEL SIZE	26.537 ACRES
PROPOSED USAGE	RESIDENTIAL "R-M"
COMMON OPEN SPACE	5.484 ACRES (19.08%)
LENGTH OF NEW ROADS	4420 LF
MINIMUM LOT SIZE	0.158 AC
# OF LOTS (RESIDENTIAL)	98 LOTS
LOTS PER GROSS ACRE	3.693 LOTS/ACRE
AVERAGE LOT SIZE	0.167 AC



VICINITY MAP

PRELIMINARY PLAT
OF
SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS
10/9/26
ZONED "R-M"

TRACT 20180000112-F CERTIFICATE OF OWNER

WE, THE UNDERSIGNED, OWNERS OF THE REAL ESTATE SHOWN AND DESCRIBED HEREIN, DO HEREBY CERTIFY THAT WE HAVE LAID OFF, PLATTED AND SUBDIVIDED, AND DO HEREBY LAY OFF, PLAT AND SUBDIVIDE SAID REAL ESTATE IN ACCORDANCE WITH THIS PLAT.

DATE — CAROLYN COUNTS, 324 OSMOND LN, BISMARK, AR 71929

INSTRUMENT NO. 2018000112

TRACT 2018004312 CERTIFICATE OF OWNER

WE, THE UNDERSIGNED, OWNERS OF THE REAL ESTATE SHOWN AND DESCRIBED HEREIN, DO HEREBY LAY OFF, PLAT AND SUBDIVIDE SAID REAL ESTATE IN ACCORDANCE WITH THIS PLAT.

DATE — CAROLYN R. COUNTS WALLACE, 324 OSMOND LN, BISMARK, AR 71929

INSTRUMENT NO. 2018004312

CERTIFICATE OF PRELIMINARY SURVEYING ACCURACY

I, J. ERIC HOLLOWAY, HEREBY CERTIFY THAT THIS PLAT CORRECTLY REPRESENTS A BOUNDARY SURVEY MADE OR VERIFIED BY ME THAT ALL SURVEYING REQUIREMENTS OF THE STATE OF ARKANSAS AND CITY OF BRYANT SUBDIVISION RULES AND REGULATIONS HAVE BEEN COMPLIED WITH AND FILED FOR RECORD AS REQUIRED.

10/9/26
DATE — J. ERIC HOLLOWAY, PROFESSIONAL SURVEYOR NO. 1803, AR

CERTIFICATE OF PRELIMINARY ENGINEERING ACCURACY

I, J. ERIC HOLLOWAY HEREBY CERTIFY THAT THIS PLAT CORRECTLY REPRESENTS A PLAT MADE BY ME, AND THAT ENGINEERING REQUIREMENTS OF THE BRYANT SUBDIVISION RULES AND REGULATIONS HAVE BEEN COMPLIED WITH.

10/9/26
DATE — J. ERIC HOLLOWAY, PROFESSIONAL ENGINEER, AR NO. 18898

FLOOD STATEMENT:

GRAPHIC PLOTTING OF THE INFORMATION SHOWN ON FLOOD INSURANCE RATE MAP NO. 05125C0360E, DATED MAY 5, 2020, INDICATES THAT NO PORTION OF THE PROPERTIES SHOWN HEREON LIE WITHIN A SPECIAL FLOOD HAZARD..

TRACT 2007077496 CERTIFICATE OF OWNER

WE, THE UNDERSIGNED, OWNERS OF THE REAL ESTATE SHOWN AND DESCRIBED HEREIN, DO HEREBY CERTIFY THAT WE HAVE LAID OFF, PLATTED AND SUBDIVIDED, AND DO HEREBY LAY OFF, PLAT AND SUBDIVIDE SAID REAL ESTATE IN ACCORDANCE WITH THIS PLAT.

DATE — BETTY L. HOPPER & BILLY R. HOPPER, 271 MOCCASIN LANE, BISMARK, AR 71929-6435

INSTRUMENT NO. 2007077496

TRACT 1998014967 CERTIFICATE OF OWNER

WE, THE UNDERSIGNED, OWNERS OF THE REAL ESTATE SHOWN AND DESCRIBED HEREIN, DO HEREBY CERTIFY THAT WE HAVE LAID OFF, PLATTED AND SUBDIVIDED, AND DO HEREBY LAY OFF, PLAT AND SUBDIVIDE SAID REAL ESTATE IN ACCORDANCE WITH THIS PLAT.

DATE — CAROLYN A. COUNTS, ADDRESS, CITY, AR ZIP

INSTRUMENT NO. 1998014967

CERTIFICATE OF PRELIMINARY PLAT APPROVAL

PURSUANT TO THE CITY OF BRYANT SUBDIVISION RULES AND REGULATIONS, AND ALL OF THE CONDITIONS OF APPROVAL HAVING BEEN COMPLETED, THIS DOCUMENT IS HEREBY ACCEPTED. THIS CERTIFICATE IS HEREBY EXECUTED UNDER THE AUTHORITY OF SAID RULES AND REGULATIONS.

DATE — LANCE PENFIELD, CHAIRMAN, BRYANT PLANNING COMMISSION

DEVELOPER

BROCK CUSTOM HOMES
PO BOX 11140
CONWAY, AR 72034

LEGAL DESCRIPTION:

Lands lying in the Northeast Quarter of the Southeast quarter and the Southeast quarter of the Northeast quarter all in Section 20, Township 1 South, Range 14 west, Saline County, Arkansas. Being more particularly described as follows:

Beginning at the Southwest corner of the Northeast Quarter of the Southeast Quarter of Section 20, Township 1 South, Range 14 West, Saline County, Arkansas; thence along the West line of said Northeast Quarter of the Southeast Quarter North 01 degrees 41 minutes 41 seconds East 1323.47 feet to the Northwest corner of said Northeast Quarter of the Southeast Quarter; thence leaving said Northeast corner North 02 degrees 54 minutes 34 seconds East 140.00 feet to the South Right of Way line of W Robinhood Drive; thence along said South Right of Way line South 88 degrees 45 minutes 15 seconds East 150.32 feet; thence leaving said South Right of Way line South 02 degrees 45 minutes 17 seconds West 140.00 feet to a point on the North line of said Northeast Quarter of the Southeast Quarter; thence South 88 degrees 39 minutes 57 seconds East 772.71 feet; thence leaving said North line South 02 degrees 35 minutes 15 seconds West 698.96 feet; thence South 88 degrees 32 minutes 49 seconds East 417.46 feet; thence South 02 degrees 34 minutes 55 seconds West 150.68 feet; thence North 86 degrees 33 minutes 26 seconds West 295.07 feet; thence North 88 degrees 05 minutes 25 seconds West 211.97 feet; thence North 88 degrees 49 minutes 42 seconds West 202.56 feet; thence South 02 degrees 09 minutes 36 seconds West 283.24 feet; thence South 88 degrees 00 minutes 58 seconds East 23.74 feet; thence South 01 degrees 09 minutes 13 seconds West 208.99 feet; thence North 88 degrees 04 minutes 05 seconds West 641.59 feet to the Point of Beginning, containing 26.537 acres more or less.

LEGAL DESCRIPTION - ROW DEDICATION:

Lands lying in the Northeast Quarter of the Southeast quarter and the Southeast quarter of the Northeast quarter all in Section 20, Township 1 South, Range 14 west, Saline County, Arkansas. Being more particularly described as follows:

Commencing at the Northeast corner of the Northeast Quarter of the Southeast Quarter of Section 20, Township 1 South, Range 14 West, Saline County, Arkansas; thence along the East line of said Northeast Quarter of the Southeast Quarter South 02 degrees 34 minutes 55 seconds West 699.88 feet to the Point of Beginning; thence South 02 degrees 34 minutes 55 seconds West 150.68 feet; thence leaving said East line of the Northeast Quarter of the Southeast Quarter North 86 degrees 33 minutes 26 seconds West 45.01 feet; thence North 02 degrees 34 minutes 55 seconds East 149.12 feet; thence South 88 degrees 32 minutes 49 seconds East 45.01 feet to the Point of Beginning, containing 0.155 acres more or less.

GENERAL NOTES:

1. ALL FRONT YARD SETBACKS ARE 20' UNLESS OTHERWISE NOTED.
2. ALL REAR YARD SETBACKS ARE 20' UNLESS OTHERWISE NOTED.
3. ALL INTERIOR SIDE YARD SETBACKS ARE 8' UNLESS OTHERWISE NOTED.
4. ALL EXTERIOR SIDE YARD SETBACKS ARE 15' UNLESS OTHERWISE NOTED.
5. ALL LOTS HAVE A FRONT, REAR AND EXTERIOR SIDE 10' DRAINAGE & UTILITY EASEMENT.
6. ALL LOTS HAVE A INTERIOR SIDE 5' DRAINAGE AND UTILITY EASEMENT.
7. ALL OPEN SPACES ARE ACCESS, DRAINAGE AND UTILITY EASEMENTS.
8. ALL ACCESS EASEMENTS, PARKS, AND OPEN SPACES SHALL BE MAINTAINED BY THE PROPERTY OWNERS ASSOCIATION.
9. ALL STREET RADII ARE 25' UNLESS OTHERWISE NOTED.
10. ALL SIDEWALKS ARE 5' WIDE CONCRETE.
11. ALL LOTS ARE SINGLE FAMILY HOUSING.
12. RESIDENTIAL FLOOR ELEVATIONS SHALL BE 3'-0" ABOVE THE 100 YEAR FLOOD ELEVATION.
13. WATER IS SUPPLIED BY BRYANT WATER DISTRIBUTION.
14. WASTEWATER DISPOSAL IS SUPPLIED BY BRYANT WASTEWATER UTILITIES.
15. ALL WATER MAINS ARE 8" CL-50 DUCTILE IRON PIPE.
16. ALL SEWER MAINS ARE 8" SDR-26 PVC PIPE.
17. ALL DETENTION AND DRAINAGE SHALL BE BUILT TO CITY STANDARDS AND APPROVED BY ENGINEER.
18. MINIMUM SQ FT TO BE THE SAME AS CITY OF BRYANT R-M ZONING. (6,000 SQ FT)

Holloway Engineering, Surveying & Civil Design

200 Casey Drive
Maumelle, AR 72113
(501) 851-3366
www.holloway-eng.com

REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS
PRELIMINARY PLAT (1 OF 3)

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18898
J. ERIC HOLLOWAY
10/9/26

CERTIFICATE OF AUTHORIZATION
Holloway Engineering, Surveying & Civil Design, PLLC
#1879
ARKANSAS ENGINEERING

JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

C0.01

CORNERS			
POINT #	DESCRIPTION	NORTHING	EASTING
1	1/2" REBAR	2022606.58	1155753.97
2	RAILROAD SPIKE	2023929.48	1155793.11
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6	5/8" REBAR	2023908.20	1156716.27
7	5/8" REBAR (PS 1141)	2023209.95	1156684.72
8	1/2" REBAR (PS 1803)	2023200.51	1157057.04
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15	1/2" REBAR (PS 1573)	2022794.73	1156375.68
16	1/2" REBAR (PS 568)	2022793.90	1156399.41
17	1/2" REBAR (PS 568)	2022584.95	1156395.20

CURVE TABLE				
CURVE #	LENGTH	RADIUS	CHORD DIRECTION	CHORD LENGTH
C1	119.45'	75.00'	S43°02'21"E	107.22'
C2	117.34'	75.00'	N46°30'52"E	105.73'
C3	117.50'	75.00'	N43°11'12"W	105.85'
C4	118.12'	75.00'	S46°48'48"W	106.29'

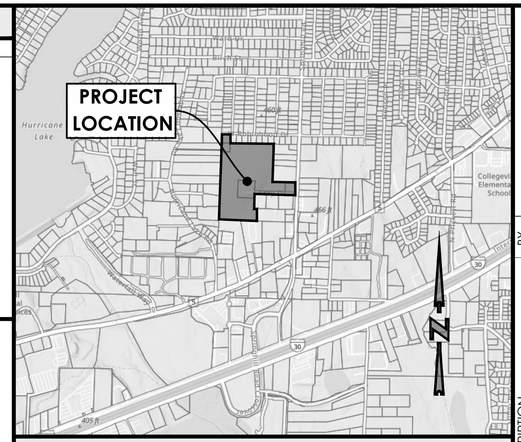
PRELIMINARY PLAT OF SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS
10/9/26

N W E S

GRAPHIC SCALE 1"=50'
50 0 50 100

BASIS OF BEARING
STATE PLANE COORDINATES
ARKANSAS SOUTH ZONE NAD-83

LEGEND	
PROPOSED	DESCRIPTION
	BOUNDARY FINAL
	BOUNDARY ADJOINER
	EASEMENT
	BUILDING SETBACK
W	WATER LINE
SS	SANITARY SEWER LINE
	STORM DRAINAGE PIPE
	FD MONUMENT (AS NOTED)
	SET MONUMENT (AS NOTED)
	CALCULATED POINT
	CURB INLET/JUNCTION BOX
M	WATER METER
	WATER VALVE
	FIRE HYDRANT
	SANITARY SEWER MANHOLE



VICINITY MAP

LOT 27 0.158 AC
LOT 28 0.158 AC
LOT 29 0.158 AC
LOT 30 0.158 AC
LOT 31 0.158 AC
LOT 32 0.158 AC
LOT 33 0.158 AC
LOT 34 0.158 AC
LOT 35 0.158 AC
LOT 36 0.179 AC
LOT 37 0.199 AC
LOT 92 0.158 AC
LOT 91 0.158 AC
LOT 90 0.158 AC
LOT 89 0.158 AC
LOT 88 0.158 AC
LOT 87 0.158 AC
LOT 86 0.158 AC
LOT 85 0.158 AC
LOT 84 0.158 AC
LOT 83 0.203 AC
LOT 73 0.158 AC
LOT 74 0.158 AC
LOT 75 0.158 AC
LOT 76 0.158 AC
LOT 77 0.158 AC
LOT 78 0.158 AC
LOT 79 0.158 AC
LOT 80 0.158 AC
LOT 81 0.158 AC
LOT 82 0.204 AC
LOT 64 0.158 AC
LOT 65 0.158 AC
LOT 66 0.212 AC
LOT 51 0.158 AC
LOT 50 0.158 AC
LOT 49 0.193 AC
LOT 48 0.216 AC
LOT 47 0.158 AC
LOT 46 0.158 AC
LOT 45 0.158 AC
LOT 44 0.158 AC
LOT 43 0.199 AC
LOT 42 0.199 AC
LOT 41 0.199 AC
LOT 40 0.163 AC
LOT 39 0.158 AC
LOT 38 0.189 AC
LOT 2 0.158 AC
LOT 1 0.220 AC
OS TRACT F 0.387 AC
OS TRACT E 1.789 AC
OS TRACT D 0.436 AC
ROW DEDICATION 0.155 AC
SANITARY SEWER PUMP STATION
LEXIE LOOP
DYLAN RIDGE
LEXIE TRAIL
AUSTIN TRAIL
N88°04'05"W 130.00'
SPRINGHILL CROSSING
S88°18'16"E 351.39'
S88°18'16"E 557.45'
SPRINGHILL ROAD
DEEDED INGRESS, EGRESS, & UTILITY EASEMENT INSTR. #199615027 INSTR. #2021012590
S01°41'41"W 347.27'
S01°41'41"W 956.95'
N07°41'41"E 956.95'
S00°18'19"E 115.00'
N88°18'19"W 115.00'
S87°24'45"E 115.00'
N87°24'45"W 115.00'
N77°55'34"E 115.00'
S25°55'34"E 82.74'
S25°55'34"E 109.26'
N40°38'16"E 115.00'
S79°21'44"E 94.45'
N74°24'07"E 107.50'
N46°24'47"E 107.50'
N11°26'12"E 108.01'
S25°55'34"E 27.42'
S25°55'34"E 31.74'
S25°55'34"E 27.42'
S25°55'34"E 31.74'
S25°55'34"E 27.42'
S25°55'34"E 31.74

PRELIMINARY PLAT
OF
SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS
10/9/26

CORNERS			
POINT #	DESCRIPTION	NORTHING	EASTING
1	1/2" REBAR	2022606.58	1155753.97
2	RAILROAD SPIKE	2023929.48	1155793.11
3	5/8" REBAR (PS 1141)	2024069.47	1155800.33
4	5/8" REBAR (PS 1141)	2024065.72	1155950.35
5	5/8" REBAR	2023926.19	1155943.77
6	5/8" REBAR	2023908.20	1156716.27
7	5/8" REBAR (PS 1141)	2023209.95	1156684.72
8	1/2" REBAR (PS 1803)	2023200.51	1157057.04
9	CALC	2023199.36	1157102.04
10	CALC	2023048.84	1157095.25
11	1/2" REBAR (PS 1803)	2023051.54	1157050.33
12	1/2" REBAR	2023066.56	1156800.72
13	1/2" REBAR	2023073.62	1156588.87
14	IRON PIN (PS 1264)	2023077.76	1156386.35
15	1/2" REBAR (PS 1573)	2022794.73	1156375.68
16	1/2" REBAR (PS 568)	2022793.90	1156399.41
17	1/2" REBAR (PS 568)	2022584.95	1156395.20

CURVE TABLE				
CURVE #	LENGTH	RADIUS	CHORD DIRECTION	CHORD LENGTH
C1	119.45'	75.00'	S43°02'21"E	107.22'
C2	117.34'	75.00'	N46°30'52"E	105.73'
C3	117.50'	75.00'	N43°11'12"W	105.85'
C4	118.12'	75.00'	S46°48'48"W	106.29'

N

W E

S

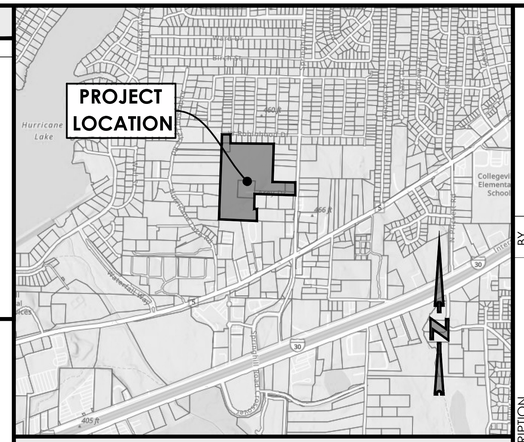
GRAPHIC SCALE 1"=50'

50 0 50 100

BASIS OF BEARING
STATE PLANE COORDINATES
ARKANSAS SOUTH ZONE NAD-83

LEGEND

PROPOSED	DESCRIPTION
	BOUNDARY FINAL
	BOUNDARY ADJOINER
	EASEMENT
	BUILDING SETBACK
W	WATER LINE
SS	SANITARY SEWER LINE
	STORM DRAINAGE PIPE
	FD MONUMENT (AS NOTED)
	SET MONUMENT (AS NOTED)
	CALCULATED POINT
	CURB INLET/JUNCTION BOX
M	WATER METER
	WATER VALVE
	FIRE HYDRANT
	SANITARY SEWER MANHOLE



VICINITY MAP

WEST ROBINHOOD DRIVE
(40' ROW)

30' EMERGENCY ACCESS GRAVEL DRIVE

SHERWOOD PARK SUBDIVISION
RECORDED AS INSTR. #20240903013600
ZONED "R-M"

OS TRACT A 1.171 AC

OS TRACT B 0.272 AC

OS TRACT C 1.009 AC

MACEY TRAIL
S88°39'57"E 284.52'

LEXIE LOOP

DYLAN RIDGE

LEXIE TRAIL

SPRINGHILL ROAD

LOT 1 0.158 AC
LOT 2 0.158 AC
LOT 3 0.158 AC
LOT 4 0.158 AC
LOT 5 0.158 AC
LOT 6 0.158 AC
LOT 7 0.158 AC
LOT 8 0.158 AC
LOT 9 0.186 AC
LOT 10 0.199 AC
LOT 11 0.199 AC
LOT 12 0.180 AC
LOT 13 0.158 AC
LOT 14 0.158 AC
LOT 15 0.158 AC
LOT 16 0.158 AC
LOT 17 0.158 AC
LOT 18 0.158 AC
LOT 19 0.158 AC
LOT 20 0.174 AC
LOT 21 0.184 AC
LOT 22 0.158 AC
LOT 23 0.158 AC
LOT 24 0.158 AC
LOT 25 0.158 AC
LOT 26 0.158 AC
LOT 27 0.158 AC
LOT 51 0.158 AC
LOT 52 0.158 AC
LOT 53 0.158 AC
LOT 54 0.158 AC
LOT 55 0.158 AC
LOT 56 0.158 AC
LOT 57 0.207 AC
LOT 58 0.194 AC
LOT 59 0.158 AC
LOT 60 0.158 AC
LOT 61 0.158 AC
LOT 62 0.158 AC
LOT 63 0.158 AC
LOT 64 0.158 AC
LOT 67 0.196 AC
LOT 68 0.158 AC
LOT 69 0.158 AC
LOT 70 0.158 AC
LOT 71 0.158 AC
LOT 72 0.158 AC
LOT 73 0.158 AC
LOT 92 0.158 AC
LOT 93 0.158 AC
LOT 94 0.158 AC
LOT 95 0.158 AC
LOT 96 0.158 AC
LOT 97 0.158 AC
LOT 98 0.185 AC

Holloway Engineering, Surveying & Civil Design

200 Casey Drive
Maumelle, AR 72113
(501) 851-3366
www.holloway-eng.com

REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS
PRELIMINARY PLAT (3 OF 3)

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18898
ERIC HOLLOWAY
10/9/26

Holloway Engineering, Surveying & Civil Design, PLLC
#1879
CERTIFICATE OF AUTHORIZATION
STATE OF ARKANSAS

JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

C0.03

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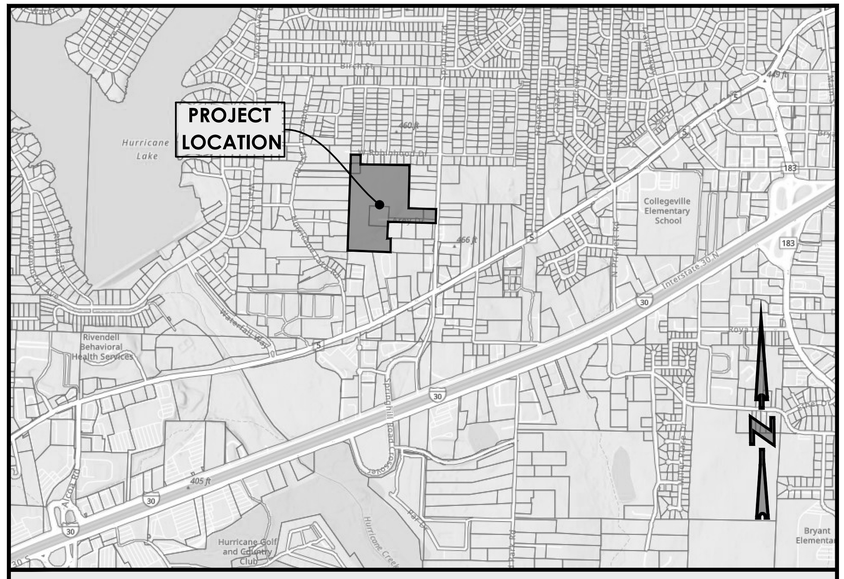
SPRINGHILL CROSSING
RESIDENTIAL SUBDIVISION
BRYANT, SALINE COUNTY, ARKANSAS

CIVIL CONSTRUCTION PLANS
October 2026

HOLLOWAY ENGINEERING JOB NO. 2026-071

LEGEND		
PROPOSED	DESCRIPTION	EXISTING
W	WATER LINE	W
G	GAS LINE	G
SS	SANITARY SEWER LINE	SS
FO	FIBER OPTIC LINE	FO
UGT	UNDERGROUND PHONE LINE	UGT
OHE	OVERHEAD ELECTRIC LINE	OHE
UGE	UNDERGROUND ELECTRIC LINE	
	STORM DRAINAGE PIPE	
X-X	DRAINAGE STRUCTURE - NO.	X-X
UGTV	CATV CABLE LINE	UGTV
x	FENCE	X
	DITCH FLOW LINE	
	CURB INLET/JUNCTION BOX	
	CONTROL POINT	
GM	GAS METER	GM
	GAS REGULATOR	
M	WATER METER	WM
	WATER VALVE	
	FIRE HYDRANT	
	AIR RELEASE VALVE	
	FIRE DEPARTMENT CONNECTION	
	GUY ANCHOR	
	UTILITY POLE	
	LIGHT POLE	
E	ELECTRICAL BOX	E
	SANITARY SEWER MANHOLE	
CO	SANITARY SEWER CLEAN-OUT	CO
	TELEPHONE PEDESTAL/RISER	
	SIGN	



VICINITY MAP

SHEET LIST TABLE	
Sheet Number	Sheet Title
C0.00	COVER SHEET
C0.01	PRELIMINARY PLAT (1 OF 3)
C0.02	PRELIMINARY PLAT (2 OF 3)
C0.03	PRELIMINARY PLAT (3 OF 3)
C1.00	ROADWAY OVERVIEW
C1.01	SPRINGHILL CROSSING P&P (1 OF 2)
C1.02	SPRINGHILL CROSSING P&P (2 OF 2)
C1.03	DYLAN RIDGE P&P (1 OF 2)
C1.04	DYLAN RIDGE P&P (2 OF 2)
C1.05	AUSTIN TRAIL P&P
C1.06	LEXIE LOOP P&P (1 OF 2)
C1.07	LEXIE LOOP P&P (2 OF 2)
C1.08	MACEY TRAIL P&P
C1.09	LEXIE TRAIL P&P (1 OF 2)
C1.10	LEXIE TRAIL P&P (2 OF 2)
C1.50	ROADWAY DETAILS
C2.00	GRADING & DRAINAGE OVERALL
C2.01	GRADING & DRAINAGE PLAN (2 OF 3)
C2.02	GRADING & DRAINAGE PLAN (3 OF 3)
C2.03	STORM SEWER OVERVIEW
C2.04	STORM SEWER TABLES
C2.05	STORM SEWER P&P MAIN 1
C2.06	STORM SEWER P&P MAIN 2
C2.07	STORM SEWER P&P MAIN 3
C2.08	STORM SEWER P&P MAIN 4
C2.09	STORM SEWER P&P MAINS 5 & 6
C2.10	STORM SEWER P&P MAIN 7
C2.11	STORM SEWER P&P MAIN 8
C2.12	STORM SEWER P&P LATERALS 1 & 2
C2.13	STORM SEWER P&P LATERAL 4
C2.14	STORM SEWER P&P LATERALS 5 & 6
C2.15	STORM SEWER P&P LATERALS 7 & 8
C2.16	STORM SEWER P&P LATERALS 9 & 10
C2.17	STORM SEWER P&P LATERALS 11 & 12
C2.18	STORM SEWER P&P LATERALS 13 & 14
C2.50	GRADING & DRAINAGE DETAILS
C3.00	SWPPP-EROSION CONTROL PLAN INITIAL
C3.01	SWPPP-EROSION CONTROL PLAN INTERMEDIATE
C3.02	SWPPP-EROSION CONTROL PLAN FINAL
C3.10	SWPPP DETAILS
C4.00	UTILITY COORDINATION PLAN
C5.00	SANITARY SEWER OVERVIEW
C5.01	SANITARY SEWER P&P MAIN 1 (1 OF 5)
C5.02	SANITARY SEWER P&P MAIN 1 (2 OF 5)
C5.03	SANITARY SEWER P&P MAIN 1 (3 OF 5)
C5.04	SANITARY SEWER P&P MAIN 1 (4 OF 5)
C5.05	SANITARY SEWER P&P MAIN 1 (5 OF 5)
C5.06	SANITARY SEWER P&P LATERAL 1
C5.07	SANITARY SEWER P&P LATERAL 2 (1 OF 3)
C5.08	SANITARY SEWER P&P LATERAL 2 (2 OF 3)
C5.09	SANITARY SEWER P&P LATERAL 2 (3 OF 3)
C5.10	SANITARY SEWER P&P LATERAL 3
C5.50	SANITARY SEWER DETAILS (1 OF 2)
C5.51	SANITARY SEWER DETAILS (2 OF 2)
C6.00	WATER PLAN
C6.50	WATER DETAILS (1 OF 2)
C6.51	WATER DETAILS (2 OF 2)
C7.00	LIGHTING & SIGNAGE

DATE	PLAN SET	SHEET NO.

OWNER / DEVELOPER

BROCK CUSTOM HOMES
PO BOX 11140
CONWAY, AR 72034

ENGINEER/ SURVEYOR

HOLLOWAY ENGINEERING
200 CASEY DRIVE
MAUMELLE, AR 72113
(501) 851-3366

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

CAUTION: UNDERGROUND UTILITIES EXIST WITHIN AND ADJACENT TO THE LIMITS OF CONSTRUCTION AND AN ATTEMPT HAS BEEN MADE TO LOCATE THESE UTILITIES ON THE PLANS. HOWEVER, ALL EXISTING UTILITIES MAY NOT BE SHOWN AND THE ACTUAL LOCATIONS OF THE UTILITIES MAY VARY FROM THE LOCATIONS SHOWN. PRIOR TO BEGINNING ANY TYPE OF EXCAVATION, THE CONTRACTOR SHALL CONTACT THE UTILITIES INVOLVED AND MAKE ARRANGEMENTS FOR THE LOCATION OF THE UTILITIES ON THE GROUND. THE CONTRACTOR SHALL MAINTAIN THE UTILITY LOCATION MARKINGS UNTIL THEY ARE NO LONGER NECESSARY. ARKANSAS STATE LAW, THE UNDERGROUND FACILITIES DAMAGE PREVENTION ACT, REQUIRES TWO WORKING DAYS ADVANCE NOTIFICATION THROUGH THE ARKANSAS ONE-CALL SYSTEM CENTER BEFORE EXCAVATING USING MECHANIZED EQUIPMENT OR EXPLOSIVES (EXCEPT IN THE CASE OF AN EMERGENCY). THE ONE-CALL SYSTEM PHONE NUMBER IS 1-800-482-8998. THE CONTRACTOR IS ADVISED THAT THERE IS A SEVERE PENALTY FOR NOT MAKING THIS CALL, NOT ALL UTILITY COMPANIES ARE MEMBERS OF THE ARKANSAS ONE-CALL SYSTEM; THEREFORE, THE CONTRACTOR IS ADVISED TO CONTACT ALL NON-MEMBER UTILITIES, AS WELL AS THE ONE-CALL SYSTEM.

Holloway Engineering, Surveying & Civil Design

200 Casey Drive
Maumelle, AR 72113
(501) 851-3366
www.holloway-eng.com

REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS
COVER SHEET

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18898
ERIC HOLLOWAY
10/9/26

Holloway Engineering, Surveying & Civil Design, PLLC #1879
CERTIFICATE OF AUTHORIZATION - ENGINEERING - SURVEYING

JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

C0.00

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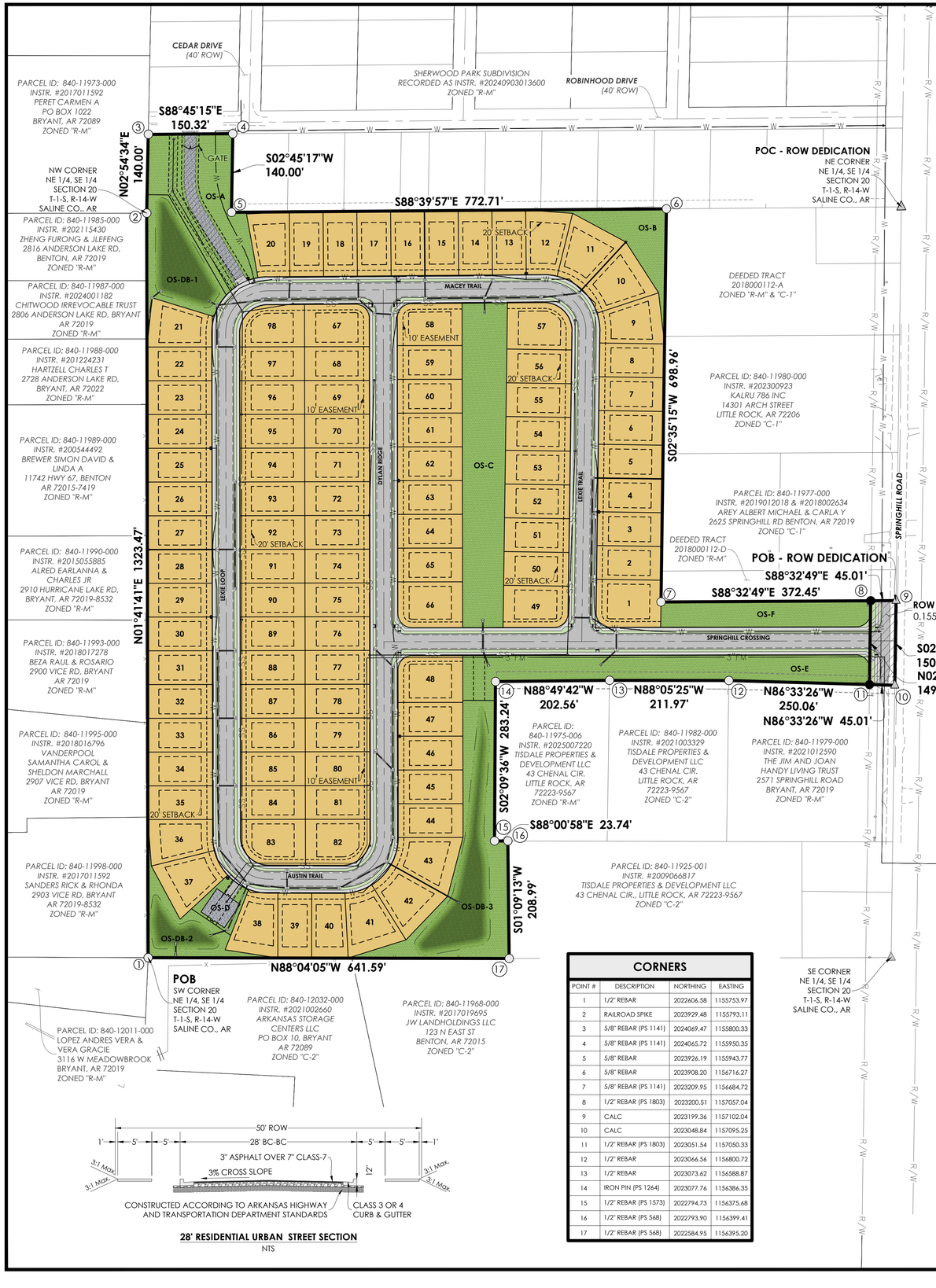


28' RESIDENTIAL URBAN STREET SECTION
NTS

CORNERS			
POINT #	DESCRIPTION	NORTHING	EASTING
1	1/2" REBAR	2022606.58	1155753.97
2	RAILROAD SPIKE	2023929.48	1155793.11
3	5/8" REBAR (PS 1141)	2024069.47	1155800.33
4	5/8" REBAR (PS 1141)	2024065.72	1155950.35
5	5/8" REBAR	2023926.19	1155943.77
6	5/8" REBAR	2023908.20	1156716.27
7	5/8" REBAR (PS 1141)	2023209.95	1156684.72
8	1/2" REBAR (PS 1803)	2023200.51	1157057.04
9	CALC	2023199.36	1157102.04
10	CALC	2023048.84	1157095.25
11	1/2" REBAR (PS 1803)	2023051.54	1157050.33
12	1/2" REBAR	2023066.56	1156800.72
13	1/2" REBAR	2023073.62	1156588.87
14	IRON PIN (PS 1264)	2023077.76	1156386.35
15	1/2" REBAR (PS 1573)	2022794.73	1156375.68
16	1/2" REBAR (PS 568)	2022793.90	1156399.41
17	1/2" REBAR (PS 568)	2022584.95	1156395.20

N

W E

S

GRAPHIC SCALE 1"=100'

100 0 100 200

BASIS OF BEARING
STATE PLANE COORDINATES
ARKANSAS SOUTH ZONE NAD-83

ACREAGE PER 40

NE 1/4, SE 1/4, SECTION 20	26.053 ACRES
SE 1/4, NE 1/4, SECTION 20	0.484 ACRES
TOTAL	26.537 ACRES

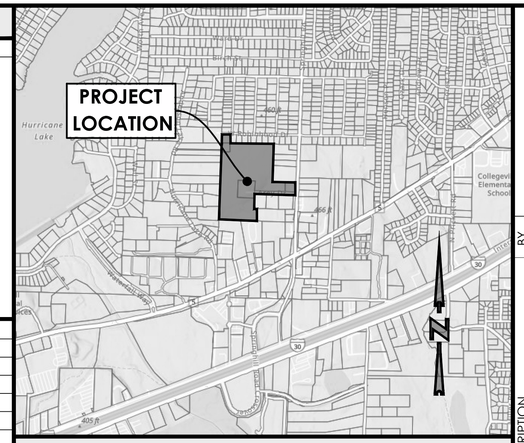
OPEN SPACE:

TRACT A	0.731 AC
TRACT B	0.272 AC
TRACT C	1.009 AC
TRACT D	0.125 AC
TRACT E	0.812 AC
TRACT F	0.387 AC
TRACT DB-1	0.440 AC
TRACT DB-2	0.311 AC
TRACT DB-3	0.977 AC
TOTAL:	5.064 AC

LEGEND

PROPOSED	DESCRIPTION
	BOUNDARY FINAL
	BOUNDARY ADJOINER
	EASEMENT
	BUILDING SETBACK
W	WATER LINE
SS	SANITARY SEWER LINE
	STORM DRAINAGE PIPE
	FD MONUMENT (AS NOTED)
	SET MONUMENT (AS NOTED)
	CALCULATED POINT
	CURB INLET/JUNCTION BOX
M	WATER METER
	WATER VALVE
	FIRE HYDRANT
	SANITARY SEWER MANHOLE

TOTAL PARCEL SIZE	26.537 ACRES
PROPOSED USAGE	RESIDENTIAL "R-M"
COMMON OPEN SPACE	5.484 ACRES (19.08%)
LENGTH OF NEW ROADS	4420 LF
MINIMUM LOT SIZE	0.158 AC
# OF LOTS (RESIDENTIAL)	98 LOTS
LOTS PER GROSS ACRE	3.693 LOTS/ACRE
AVERAGE LOT SIZE	0.167 AC



VICINITY MAP

PRELIMINARY PLAT
OF
SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS
10/9/26
ZONED "R-M"

TRACT 2018000112-F CERTIFICATE OF OWNER

WE, THE UNDERSIGNED, OWNERS OF THE REAL ESTATE SHOWN AND DESCRIBED HEREIN, DO HEREBY CERTIFY THAT WE HAVE LAID OFF, PLATTED AND SUBDIVIDED, AND DO HEREBY LAY OFF, PLAT AND SUBDIVIDE SAID REAL ESTATE IN ACCORDANCE WITH THIS PLAT.

DATE

CAROLYN COUNTS
324 OSMOND LN
BISMARK, AR 71929

INSTRUMENT NO. 2018000112

TRACT 2018004312 CERTIFICATE OF OWNER

WE, THE UNDERSIGNED, OWNERS OF THE REAL ESTATE SHOWN AND DESCRIBED HEREIN, DO HEREBY CERTIFY THAT WE HAVE LAID OFF, PLATTED AND SUBDIVIDED, AND DO HEREBY LAY OFF, PLAT AND SUBDIVIDE SAID REAL ESTATE IN ACCORDANCE WITH THIS PLAT.

DATE

CAROLYN R. COUNTS WALLACE
324 OSMOND LN
BISMARK, AR 71929

INSTRUMENT NO. 2018004312

CERTIFICATE OF PRELIMINARY SURVEYING ACCURACY

I, J. ERIC HOLLOWAY, HEREBY CERTIFY THAT THIS PLAT CORRECTLY REPRESENTS A BOUNDARY SURVEY MADE OR VERIFIED BY ME THAT ALL SURVEYING REQUIREMENTS OF THE STATE OF ARKANSAS AND CITY OF BRYANT SUBDIVISION RULES AND REGULATIONS HAVE BEEN COMPLIED WITH AND FILED FOR RECORD AS REQUIRED.

10/9/26
DATE

J. ERIC HOLLOWAY
PROFESSIONAL SURVEYOR NO. 1803, AR

CERTIFICATE OF PRELIMINARY ENGINEERING ACCURACY

I, J. ERIC HOLLOWAY HEREBY CERTIFY THAT THIS PLAT CORRECTLY REPRESENTS A PLAT MADE BY ME, AND THAT ENGINEERING REQUIREMENTS OF THE BRYANT SUBDIVISION RULES AND REGULATIONS HAVE BEEN COMPLIED WITH.

10/9/26
DATE

J. ERIC HOLLOWAY
PROFESSIONAL ENGINEER
AR NO. 18898

FLOOD STATEMENT:

GRAPHIC PLOTTING OF THE INFORMATION SHOWN ON FLOOD INSURANCE RATE MAP NO. 05125C0360E, DATED MAY 5, 2020, INDICATES THAT NO PORTION OF THE PROPERTIES SHOWN HEREON LIE WITHIN A SPECIAL FLOOD HAZARD.

TRACT 2007077496 CERTIFICATE OF OWNER

WE, THE UNDERSIGNED, OWNERS OF THE REAL ESTATE SHOWN AND DESCRIBED HEREIN, DO HEREBY CERTIFY THAT WE HAVE LAID OFF, PLATTED AND SUBDIVIDED, AND DO HEREBY LAY OFF, PLAT AND SUBDIVIDE SAID REAL ESTATE IN ACCORDANCE WITH THIS PLAT.

DATE

BETTY L. HOPPER & BILLY R. HOPPER
271 MOCCASIN LANE
BISMARK, AR 71929-6435

INSTRUMENT NO. 2007077496

TRACT 1998014967 CERTIFICATE OF OWNER

WE, THE UNDERSIGNED, OWNERS OF THE REAL ESTATE SHOWN AND DESCRIBED HEREIN, DO HEREBY CERTIFY THAT WE HAVE LAID OFF, PLATTED AND SUBDIVIDED, AND DO HEREBY LAY OFF, PLAT AND SUBDIVIDE SAID REAL ESTATE IN ACCORDANCE WITH THIS PLAT.

DATE

CAROLYN A. COUNTS
ADDRESS
CITY, AR ZIP

INSTRUMENT NO. 1998014967

CERTIFICATE OF PRELIMINARY PLAT APPROVAL

PURSUANT TO THE CITY OF BRYANT SUBDIVISION RULES AND REGULATIONS, AND ALL OF THE CONDITIONS OF APPROVAL HAVING BEEN COMPLETED, THIS DOCUMENT IS HEREBY ACCEPTED. THIS CERTIFICATE IS HEREBY EXECUTED UNDER THE AUTHORITY OF SAID RULES AND REGULATIONS.

DATE

LANCE PENFIELD
CHAIRMAN
BRYANT PLANNING COMMISSION

DEVELOPER

BROCK CUSTOM HOMES
PO BOX 11140
CONWAY, AR 72034

LEGAL DESCRIPTION:

Lands lying in the Northeast Quarter of the Southeast quarter and the Southeast quarter of the Northeast quarter all in Section 20, Township 1 South, Range 14 west, Saline County, Arkansas. Being more particularly described as follows:

Beginning at the Southwest corner of the Northeast Quarter of the Southeast Quarter of Section 20, Township 1 South, Range 14 West, Saline County, Arkansas; thence along the West line of said Northeast Quarter of the Southeast Quarter North 01 degrees 41 minutes 41 seconds East 1323.47 feet to the Northwest corner of said Northeast Quarter of the Southeast Quarter; thence leaving said Northeast corner North 02 degrees 54 minutes 34 seconds East 140.00 feet to the South Right of Way line of W Robinhood Drive; thence along said South Right of Way line South 88 degrees 45 minutes 15 seconds East 150.32 feet; thence leaving said South Right of Way line South 02 degrees 45 minutes 17 seconds West 140.00 feet to a point on the North line of said Northeast Quarter of the Southeast Quarter; thence South 88 degrees 39 minutes 57 seconds East 772.71 feet; thence leaving said North line South 02 degrees 35 minutes 15 seconds West 698.96 feet; thence South 88 degrees 32 minutes 49 seconds East 417.46 feet; thence South 02 degrees 34 minutes 55 seconds West 150.68 feet; thence North 86 degrees 33 minutes 26 seconds West 295.07 feet; thence North 88 degrees 05 minutes 25 seconds West 211.97 feet; thence North 88 degrees 49 minutes 42 seconds West 202.56 feet; thence South 02 degrees 09 minutes 36 seconds West 283.24 feet; thence South 88 degrees 00 minutes 58 seconds East 23.74 feet; thence South 01 degrees 09 minutes 13 seconds West 208.99 feet; thence North 88 degrees 04 minutes 05 seconds West 641.59 feet to the Point of Beginning, containing 26.537 acres more or less.

LEGAL DESCRIPTION - ROW DEDICATION:

Lands lying in the Northeast Quarter of the Southeast quarter and the Southeast quarter of the Northeast quarter all in Section 20, Township 1 South, Range 14 west, Saline County, Arkansas. Being more particularly described as follows:

Commencing at the Northeast corner of the Northeast Quarter of the Southeast Quarter of Section 20, Township 1 South, Range 14 West, Saline County, Arkansas; thence along the East line of said Northeast Quarter of the Southeast Quarter South 02 degrees 34 minutes 55 seconds West 699.88 feet to the Point of Beginning; thence South 02 degrees 34 minutes 55 seconds West 150.68 feet; thence leaving said East line of the Northeast Quarter of the Southeast Quarter North 86 degrees 33 minutes 26 seconds West 45.01 feet; thence North 02 degrees 34 minutes 55 seconds East 149.12 feet; thence South 88 degrees 32 minutes 49 seconds East 45.01 feet to the Point of Beginning, containing 0.155 acres more or less.

GENERAL NOTES:

1. ALL FRONT YARD SETBACKS ARE 20' UNLESS OTHERWISE NOTED.
2. ALL REAR YARD SETBACKS ARE 20' UNLESS OTHERWISE NOTED.
3. ALL INTERIOR SIDE YARD SETBACKS ARE 8' UNLESS OTHERWISE NOTED.
4. ALL EXTERIOR SIDE YARD SETBACKS ARE 15' UNLESS OTHERWISE NOTED.
5. ALL LOTS HAVE A FRONT, REAR AND EXTERIOR SIDE 10' DRAINAGE & UTILITY EASEMENT.
6. ALL LOTS HAVE A INTERIOR SIDE 5' DRAINAGE AND UTILITY EASEMENT.
7. ALL OPEN SPACES ARE ACCESS, DRAINAGE AND UTILITY EASEMENTS.
8. ALL ACCESS EASEMENTS, PARKS, AND OPEN SPACES SHALL BE MAINTAINED BY THE PROPERTY OWNERS ASSOCIATION.
9. ALL STREET RADII ARE 25' UNLESS OTHERWISE NOTED.
10. ALL SIDEWALKS ARE 5' WIDE CONCRETE.
11. ALL LOTS ARE SINGLE FAMILY HOUSING.
12. RESIDENTIAL FLOOR ELEVATIONS SHALL BE 3'-0" ABOVE THE 100 YEAR FLOOD ELEVATION.
13. WATER IS SUPPLIED BY BRYANT WATER DISTRIBUTION.
14. WASTEWATER DISPOSAL IS SUPPLIED BY BRYANT WASTEWATER UTILITIES.
15. ALL WATER MAINS ARE 8" CL-50 DUCTILE IRON PIPE.
16. ALL SEWER MAINS ARE 8" SDR-26 PVC PIPE.
17. ALL DETENTION AND DRAINAGE SHALL BE BUILT TO CITY STANDARDS AND APPROVED BY ENGINEER.
18. MINIMUM SQ FT TO BE THE SAME AS CITY OF BRYANT R-M ZONING. (6,000 SQ FT)

Holloway Engineering, Surveying & Civil Design

200 Casey Drive
Maumelle, AR 72113
(501) 851-3366
www.holloway-eng.com

REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS
PRELIMINARY PLAT (1 OF 3)

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18898
J. ERIC HOLLOWAY
10/9/26

CERTIFICATE OF AUTHORIZATION
Holloway
Engineering, Surveying
Civil Design, PLLC
#1879
ARKANSAS ENGINEERING

JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

C0.01

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CORNERS			
POINT #	DESCRIPTION	NORTHING	EASTING
1	1/2" REBAR	2022606.58	1155753.97
2	RAILROAD SPIKE	2023929.48	1155793.11
3	5/8" REBAR (PS 1141)	2024069.47	1155800.33
4	5/8" REBAR (PS 1141)	2024065.72	1155950.35
5	5/8" REBAR	2023926.19	1155943.77
6	5/8" REBAR	2023908.20	1156716.27
7	5/8" REBAR (PS 1141)	2023209.95	1156684.72
8	1/2" REBAR (PS 1803)	2023200.51	1157057.04
9	CALC	2023199.36	1157102.04
10	CALC	2023048.84	1157095.25
11	1/2" REBAR (PS 1803)	2023051.54	1157050.33
12	1/2" REBAR	2023066.56	1156800.72
13	1/2" REBAR	2023073.62	1156588.87
14	IRON PIN (PS 1264)	2023077.76	1156386.35
15	1/2" REBAR (PS 1573)	2022794.73	1156375.68
16	1/2" REBAR (PS 568)	2022793.90	1156399.41
17	1/2" REBAR (PS 568)	2022584.95	1156395.20

CURVE TABLE				
CURVE #	LENGTH	RADIUS	CHORD DIRECTION	CHORD LENGTH
C1	119.45'	75.00'	S43°02'21"E	107.22'
C2	117.34'	75.00'	N46°30'52"E	105.73'
C3	117.50'	75.00'	N43°11'12"W	105.85'
C4	118.12'	75.00'	S46°48'48"W	106.29'

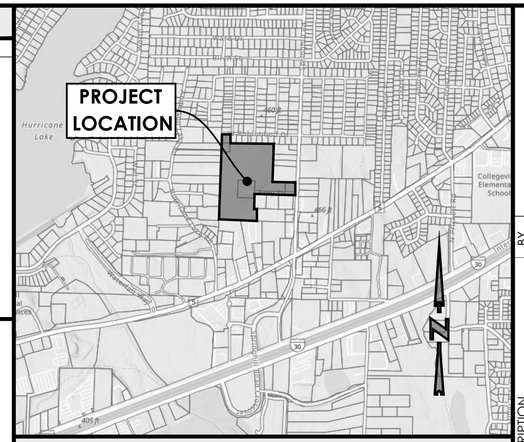
PRELIMINARY PLAT OF SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS
10/9/26

N
W E
S

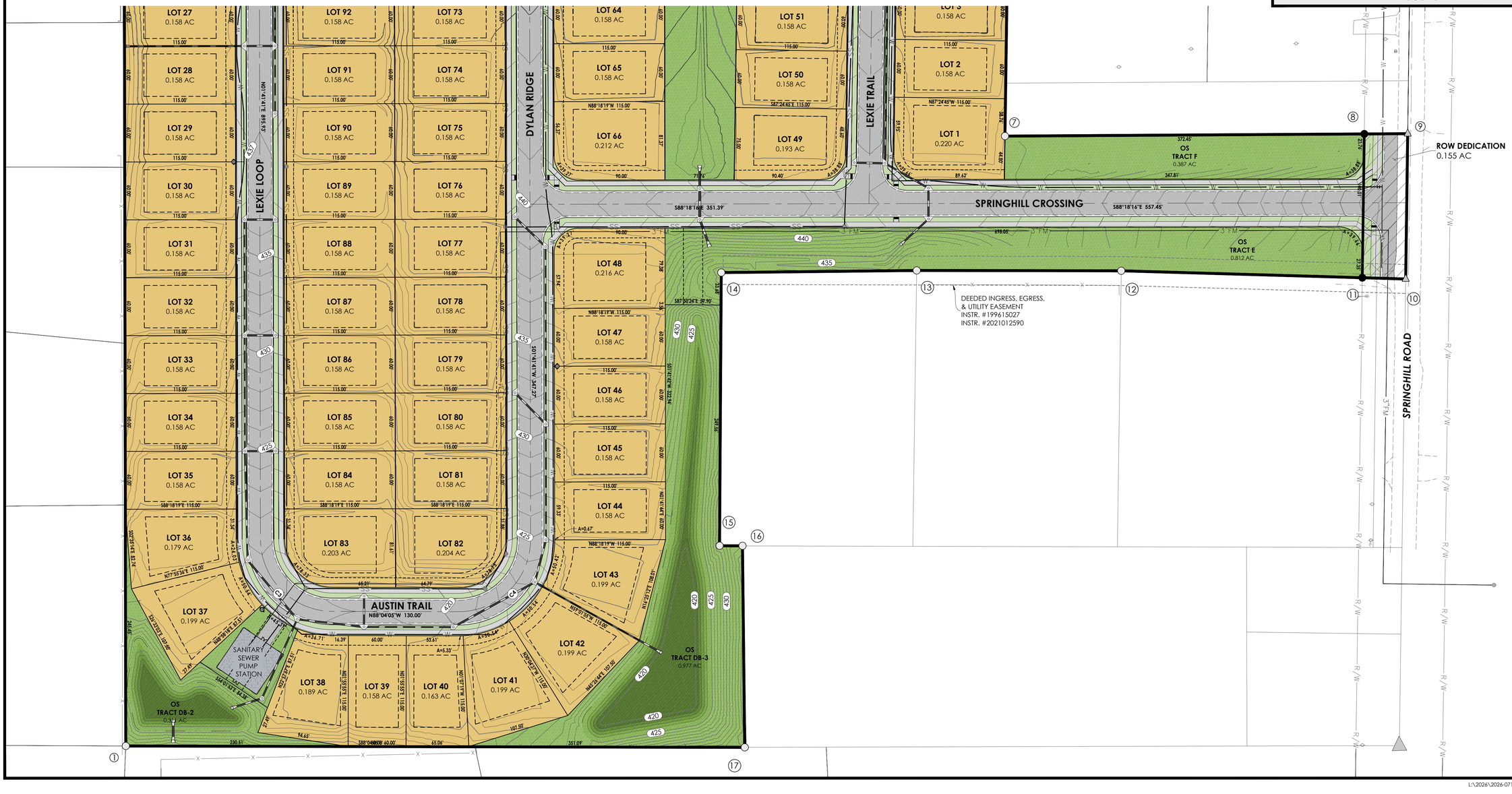
GRAPHIC SCALE 1"=50'
50 0 50 100

BASIS OF BEARING
STATE PLANE COORDINATES
ARKANSAS SOUTH ZONE NAD-83

LEGEND	
PROPOSED	DESCRIPTION
	BOUNDARY FINAL
	BOUNDARY ADJOINER
	EASEMENT
	BUILDING SETBACK
W	WATER LINE
SS	SANITARY SEWER LINE
	STORM DRAINAGE PIPE
	FD MONUMENT (AS NOTED)
	SET MONUMENT (AS NOTED)
	CALCULATED POINT
	CURB INLET/JUNCTION BOX
M	WATER METER
	WATER VALVE
	FIRE HYDRANT
	SANITARY SEWER MANHOLE



VICINITY MAP



Holloway Engineering, Surveying & Civil Design

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Maumelle, AR 72113
(501) 851-3366
www.holloway-eng.com

REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS

PRELIMINARY PLAT (2 OF 3)

STATE OF ARKANSAS
ERIC HOLLOWAY
LICENSED PROFESSIONAL ENGINEER
No. 18898
10/9/26

Holloway Engineering, Surveying & Civil Design, PLLC
#1879
CERTIFICATE OF AUTHORIZATION
ENGINEERING - SURVEYING

JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

C0.02

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PRELIMINARY PLAT
OF
SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS
10/9/26

CORNERS			
POINT #	DESCRIPTION	NORTHING	EASTING
1	1/2" REBAR	2022606.58	1155753.97
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CURVE TABLE				
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C4	118.12'	75.00'	S46°48'48"W	106.29'

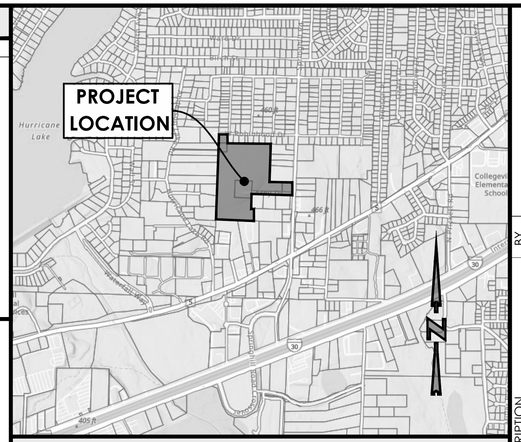
N / W / E / S

GRAPHIC SCALE 1"=50'
50 0 50 100

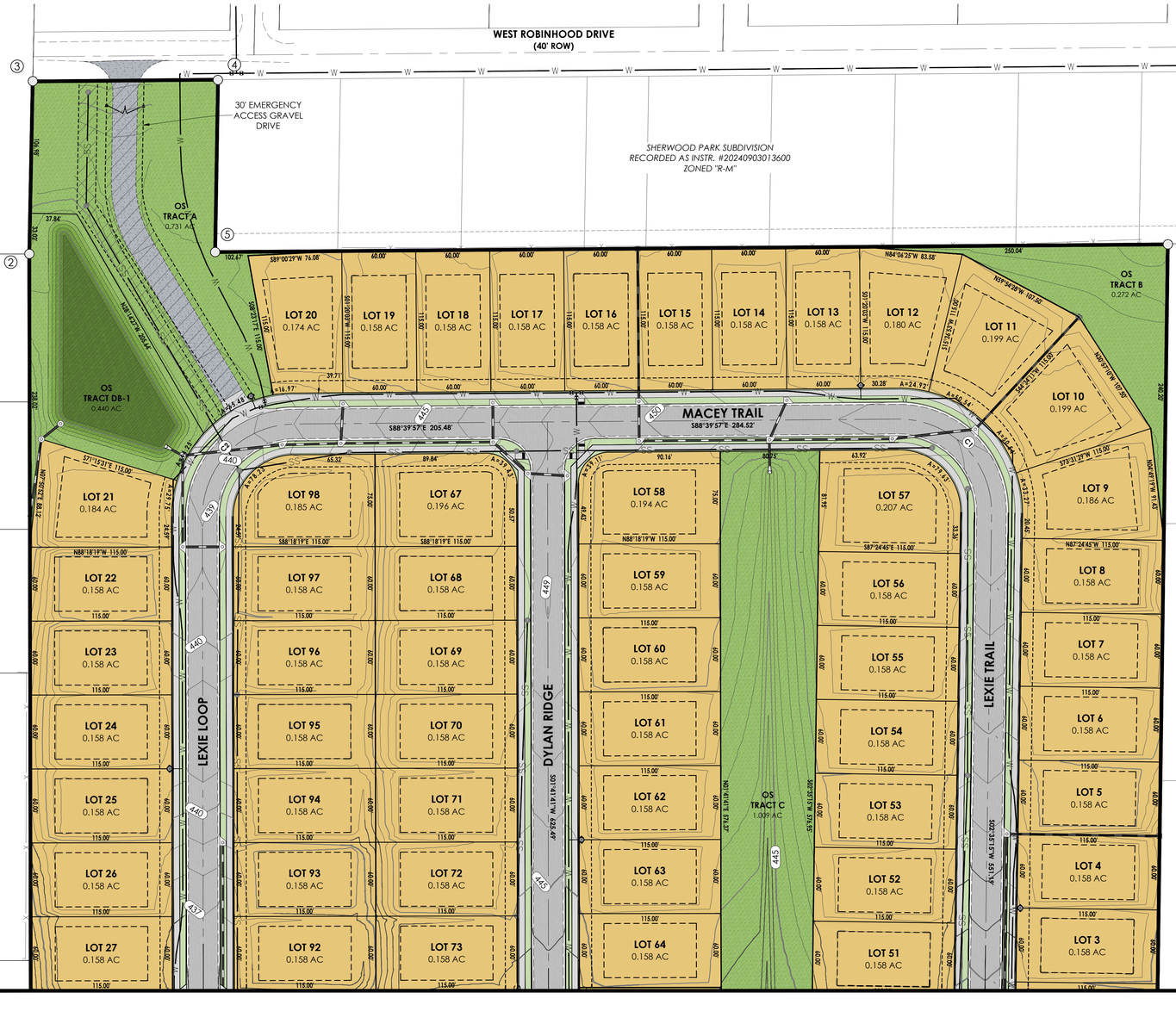
BASIS OF BEARING
STATE PLANE COORDINATES
ARKANSAS SOUTH ZONE NAD-83

LEGEND

PROPOSED	DESCRIPTION
	BOUNDARY FINAL
	BOUNDARY ADJOINER
	EASEMENT
	BUILDING SETBACK
W	WATER LINE
SS	SANITARY SEWER LINE
	STORM DRAINAGE PIPE
	FD MONUMENT (AS NOTED)
	SET MONUMENT (AS NOTED)
	CALCULATED POINT
	CURB INLET/JUNCTION BOX
M	WATER METER
	WATER VALVE
	FIRE HYDRANT
	SANITARY SEWER MANHOLE



VICINITY MAP



Holloway Engineering, Surveying & Civil Design

200 Casey Drive
Maumelle, AR 72113
(501) 851-3366
www.holloway-eng.com

REV.	DATE	DESCRIPTION	BY

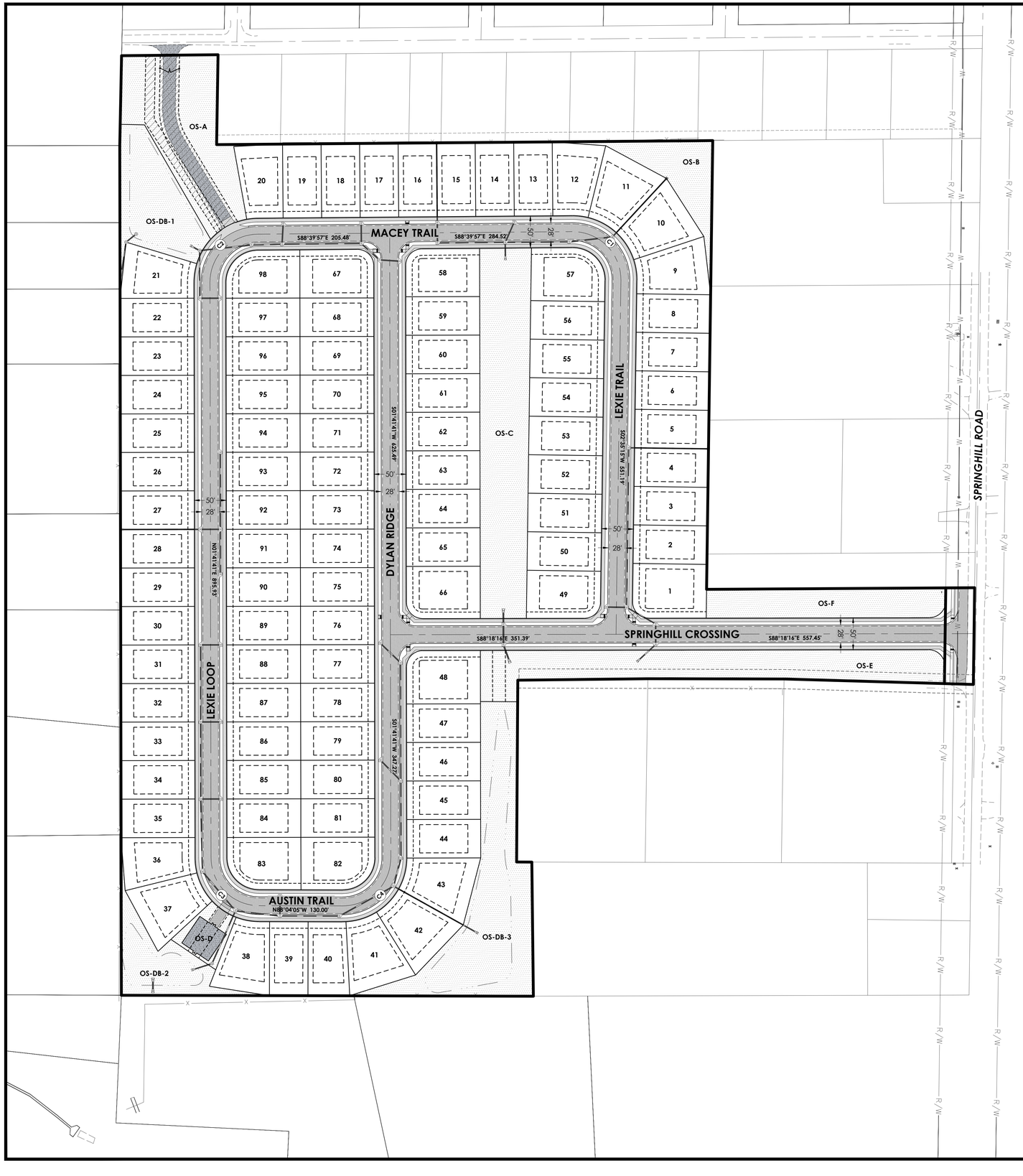
SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS
PRELIMINARY PLAT (3 OF 3)

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18898
ERIC HOLLOWAY
10/9/26

CERTIFICATE OF AUTHORIZATION
Holloway Engineering, Surveying & Civil Design, PLLC
#1879
EXPIRES: 6-30-27

JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

C0.03



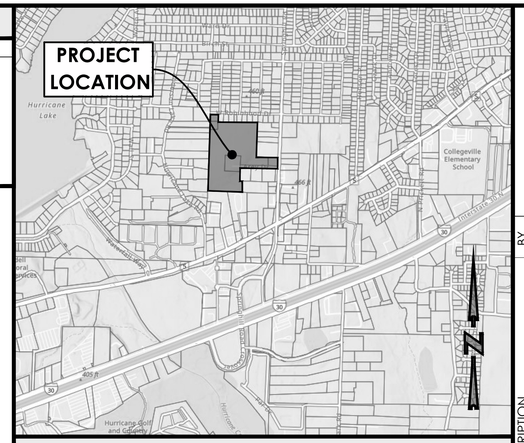
LEGEND

PROPOSED	DESCRIPTION
	BOUNDARY FINAL
	BOUNDARY ADJOINER
R/W	RIGHT-OF-WAY
	EASEMENT
	BUILDING SETBACK
	STORM DRAINAGE PIPE
	CURB INLET/JUNCTION BOX

N W E S

GRAPHIC SCALE 1"=80'

80 0 80 160



VICINITY MAP

SPRINGHILL CROSSING

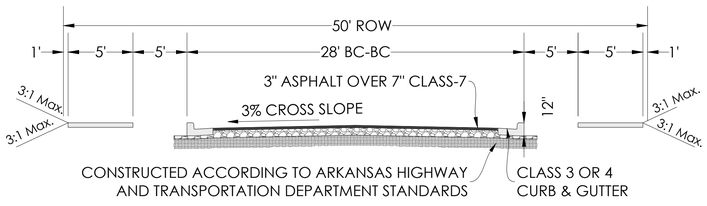
RESIDENTIAL SUBDIVISION

BRYANT, SALINE COUNTY, ARKANSAS

ROADWAY PLANS

October 2026

HOLLOWAY ENGINEERING JOB NO. 2026-071



28' RESIDENTIAL URBAN STREET SECTION

NTS

CURVE TABLE				
CURVE #	LENGTH	RADIUS	CHORD DIRECTION	CHORD LENGTH
C1	119.45'	75.00'	S43°02'21"E	107.22'
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C3	117.50'	75.00'	N43°11'12"W	105.85'
C4	118.12'	75.00'	S46°48'48"W	106.29'

SHEET LIST TABLE	
Sheet Number	Sheet Title
C1.00	ROADWAY OVERVIEW
C1.01	SPRINGHILL CROSSING P&P (1 OF 2)
C1.02	SPRINGHILL CROSSING P&P (2 OF 2)
C1.05	AUSTIN TRAIL P&P
C1.04	DYLAN RIDGE P&P (2 OF 2)
C1.03	DYLAN RIDGE P&P (1 OF 2)
C1.06	LEXIE LOOP P&P (1 OF 2)
C1.07	LEXIE LOOP P&P (2 OF 2)
C1.08	MACEY TRAIL P&P
C1.09	LEXIE TRAIL P&P (1 OF 2)
C1.10	LEXIE TRAIL P&P (2 OF 2)
C1.50	ROADWAY DETAILS

ROADWAY NOTES:

1. LOCATIONS OF THE EXISTING UTILITIES ARE BASED ON RECORDS FROM SAID UTILITY COMPANIES AND ARE HORIZONTALLY FIELD LOCATED ONLY. THE CONTRACTORS SHALL BE RESPONSIBLE FOR DETERMINING ACTUAL LOCATION.
2. CONTRACTOR TO MARK UTILITY LINES BEFORE CONSTRUCTION AND UNCOVER AS NEEDED.
3. EXISTING UTILITIES TO REMAIN SHALL BE PROTECTED. CONTRACTOR SHALL BEAR ALL RESPONSIBILITY AND COST OF REPAIR OR REPLACEMENT OF EXISTING UTILITIES, DAMAGED OR INTERRUPTED AS A RESULT OF THIS CONSTRUCTION PROJECT.
4. CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AND THE OWNER OF ANY DAMAGED OR INTERRUPTED UTILITIES IMMEDIATELY.
5. CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL EXISTING SITE CONDITIONS DISTURBED BY CONSTRUCTION ACTIVITIES BACK TO EXISTING OR BETTER CONDITION.
6. ALL SEWER LINES AND APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH THE AHJ STANDARD SPECIFICATIONS FOR SEWER CONSTRUCTION, LATEST EDITION.
7. ALL WATER LINES AND APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH AHJ STANDARD PIPELINE MATERIALS AND CONSTRUCTION SPECIFICATIONS, LATEST EDITION.
8. EXISTING UTILITIES TO REMAIN ARE TO BE PROTECT AND ADJUSTED TO MATCH PROPOSED GRADE.
9. CONTRACTOR SHALL NOTIFY PROJECT ENGINEER PRIOR TO BEGINNING WORK.
10. AFTER NEW INLETS ARE CONSTRUCTED, GRAVEL FILTER BERMS OR SILT FENCE ARE TO BE PLACED TO ALLOW FLOW THROUGH THE EROSION CONTROL DEVICE.
11. CONTRACTOR WILL CONTROL AND PREVENT OFF-SITE TRACKING OF CONSTRUCTION RUNOFF AND SEDIMENT TO ADJACENT PROPERTY AND PUBLIC ROADS.
12. CONTRACTOR IS TO PROTECT EXISTING STORM DRAINAGE SYSTEM ACCORDING TO PROTECTION ILLUSTRATIONS PROVIDED.
13. CONTRACTOR TO CONFORM TO ALL CONSTRUCTION STORM WATER AND EROSION CONTROL PERMITTING REQUIREMENTS BY "EPA PHASE II STORM WATER REGULATIONS" AS ADMINISTERED BY THE DIVISION OF ENVIRONMENTAL QUALITY. WHERE PERMITTING IS REQUIRED, A COPY OF THE NOTICE OF INTENT SHALL BE PROVIDED TO THE LOCAL MUNICIPAL AUTHORITY.
14. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES IN ACCORDANCE WITH THE ARKANSAS UNDERGROUND FACILITIES DAMAGE PREVENTION ACT. THIS LAW REQUIRES THAT THE CONTRACTOR MAKE A TELEPHONE CALL TO THE ARKANSAS ONE-CALL SYSTEM AT 1-800-482-8898 AT LEAST THREE WORKING DAYS PRIOR TO EXCAVATION TO ENSURE THAT ANY EXISTING UTILITIES CAN BE LOCATED.
15. CONTRACTOR TO CONSTRUCT ALL ACCESS RAMPS AND PAVING TO AHJ AND/OR ADA STANDARDS.
16. TREES TO REMAIN ARE TO BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.
17. CONTRACTOR SHALL NOTIFY ENGINEER AND REVIEW ALL REVISIONS TO THE PLANS PRIOR TO EXECUTING A CHANGE.

Holloway Engineering, Surveying & Civil Design

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REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS
ROADWAY OVERVIEW

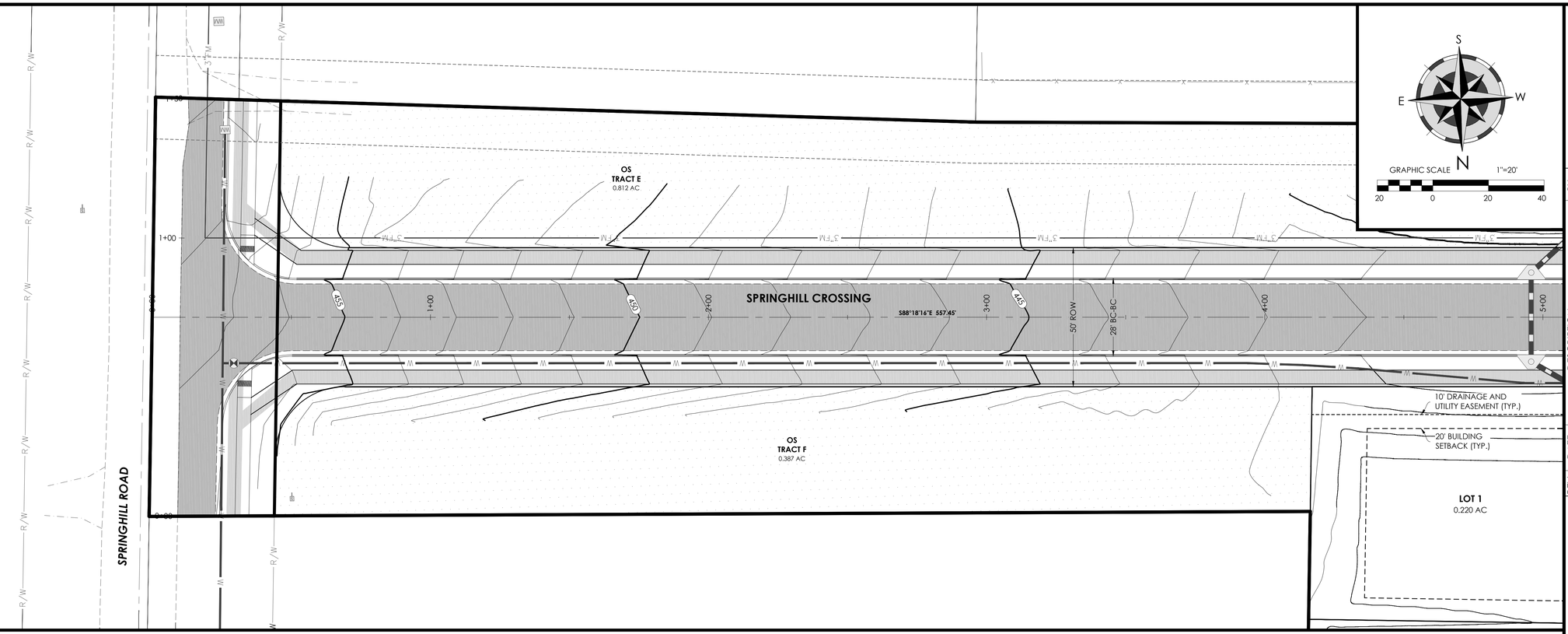
STATE OF ARKANSAS
ERIC HOLLOWAY
REGISTERED PROFESSIONAL ENGINEER
No. 18898
10/9/26

CERTIFICATE OF AUTHORIZATION
Holloway Engineering, Surveying & Civil Design, PLLC
#1879
ARKANSAS - ENGINEERING

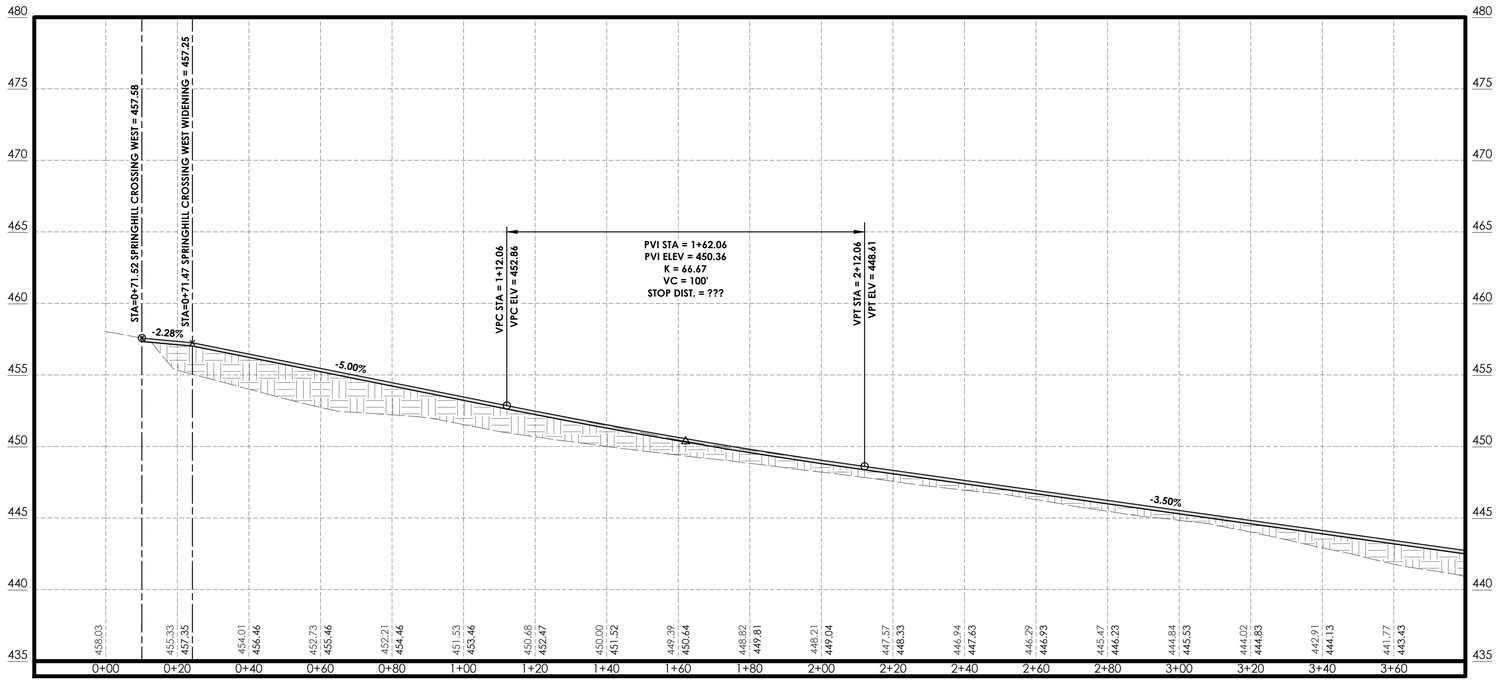
JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

C1.00

PLAN VIEW - SCALE 1"=20'



PROFILE VIEW - SCALE 1"=20'



PROPOSED
EXISTING

SPRINGHILL CROSSING
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

Holloway Engineering, Surveying & Civil Design

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GRAPHIC SCALE 1"=20'
20 0 20 40

REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS

SPRINGHILL CROSSING P&P (1 OF 2)

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18698
ERIC HOLLOWAY
10/9/26

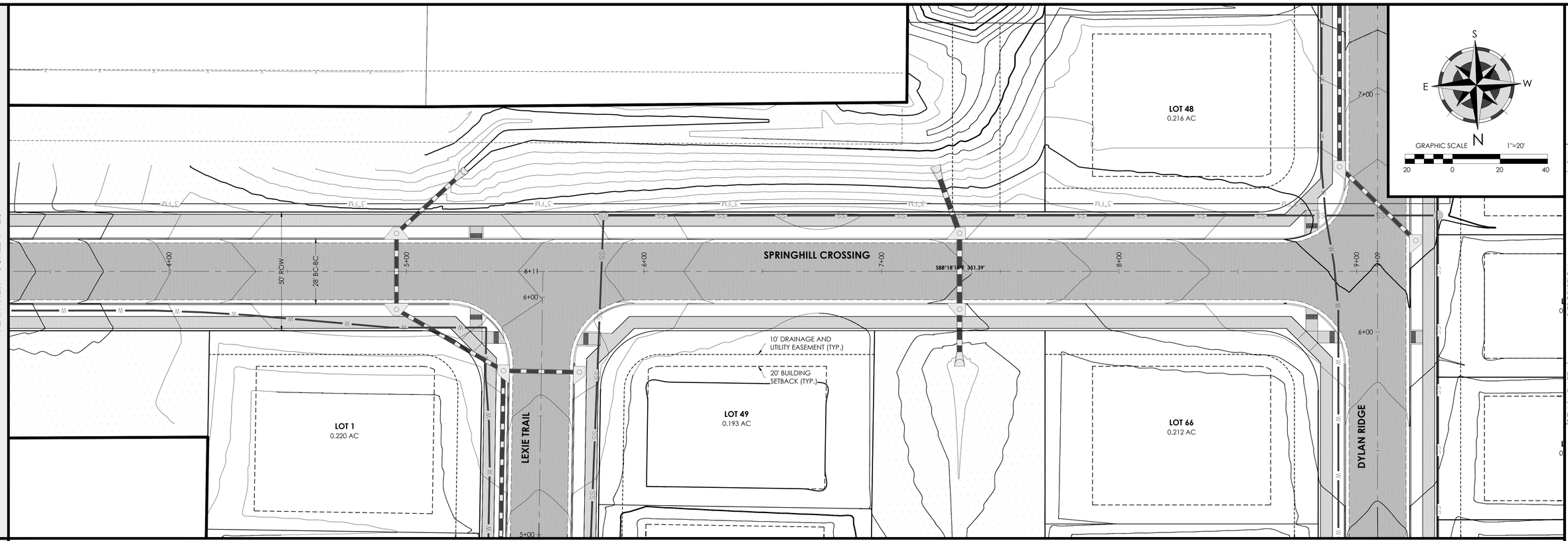
CERTIFICATE OF AUTHORIZATION
Holloway Engineering, Surveying & Civil Design, PLLC
#1879
ARKANSAS - ENGINEERING

JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

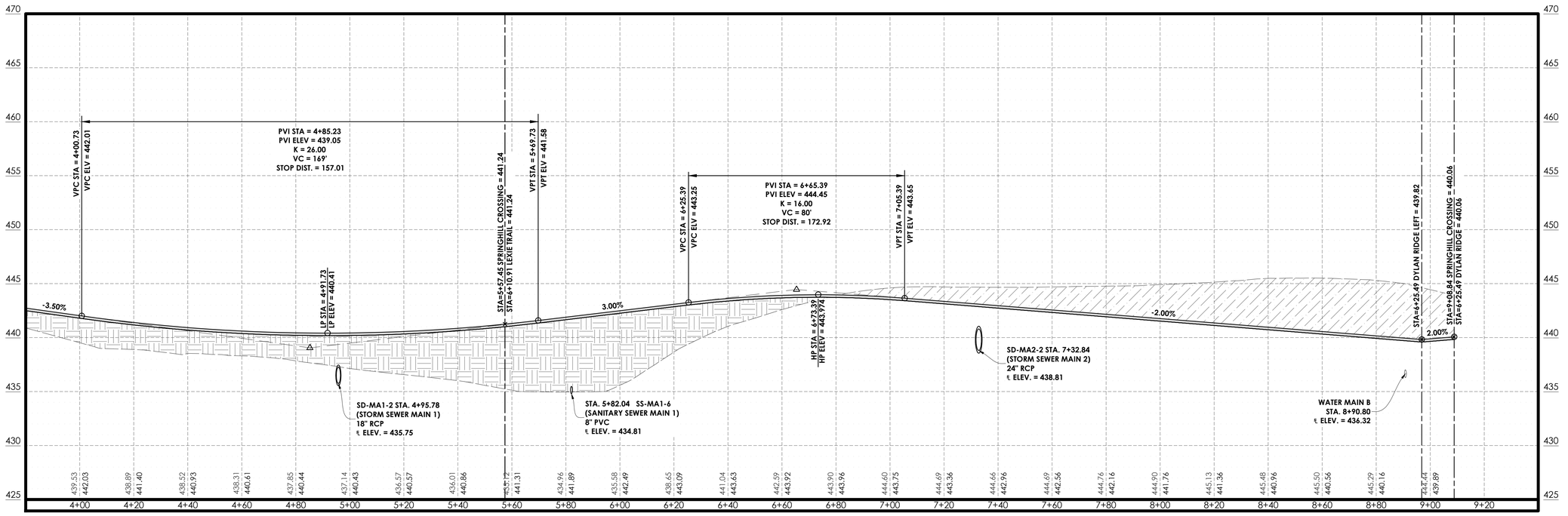
C1.01

L:\2026\2026-071 - Daryl Bryant 26 Ac project\Drawings\Sheets\C1.00 ROADWAY OVERVIEW.dwg

PLAN VIEW - SCALE 1"=20'



PROFILE VIEW - SCALE 1"=20'



PROPOSED
EXISTING

SPRINGHILL CROSSING
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

Holloway Engineering, Surveying & Civil Design

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www.holloway-eng.com

REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS

SPRINGHILL CROSSING P&P (2 OF 2)

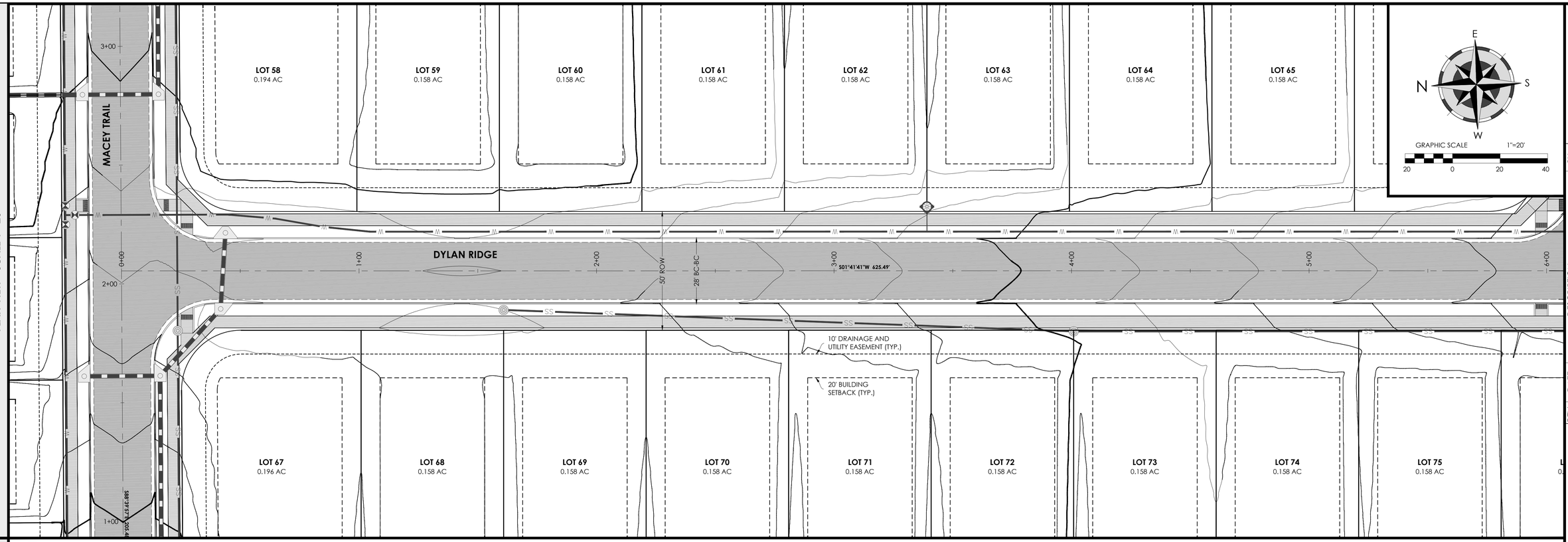
STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18698
ERIC HOLLOWAY
10/9/26

CERTIFICATE OF AUTHORIZATION
Holloway Engineering, Surveying & Civil Design, PLLC
#1879
ARKANSAS - ENGINEERING

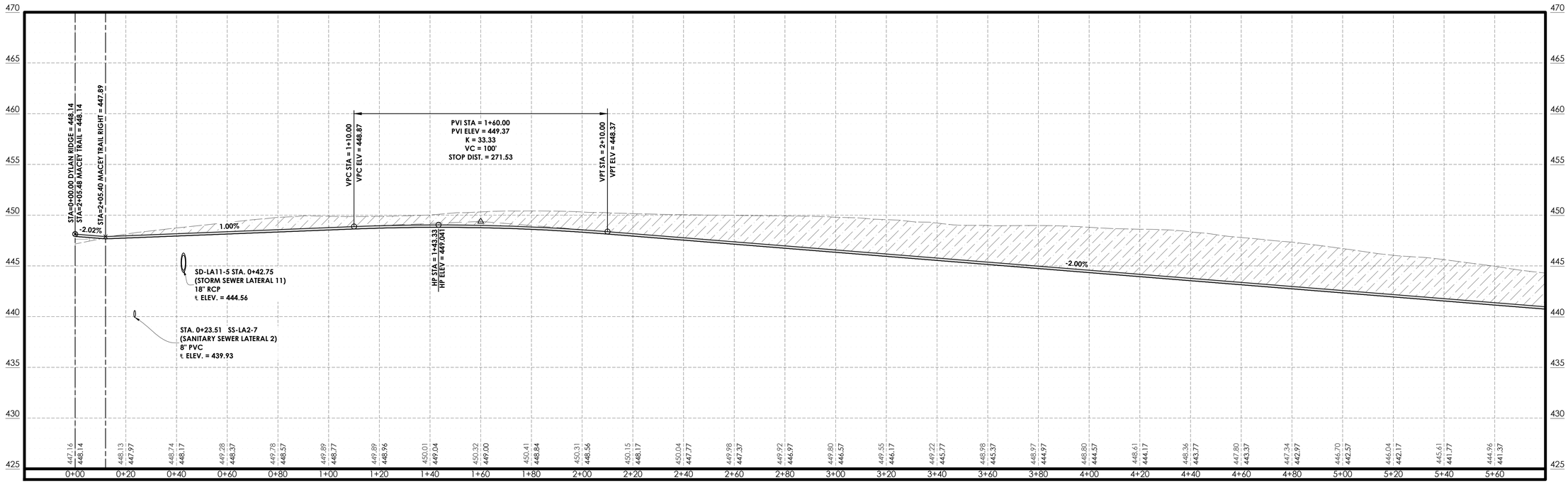
JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

C1.02

PLAN VIEW - SCALE 1"=20'



PROFILE VIEW - SCALE 1"=20'



PROPOSED
EXISTING

DYLAN RIDGE
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

Holloway Engineering, Surveying & Civil Design

200 Casey Drive
Maumelle, AR 72113
(501) 851-3366
www.holloway-eng.com

REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS

DYLAN RIDGE P&P (1 OF 2)

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18898
JUSTIN HOLLOWAY
10/9/26

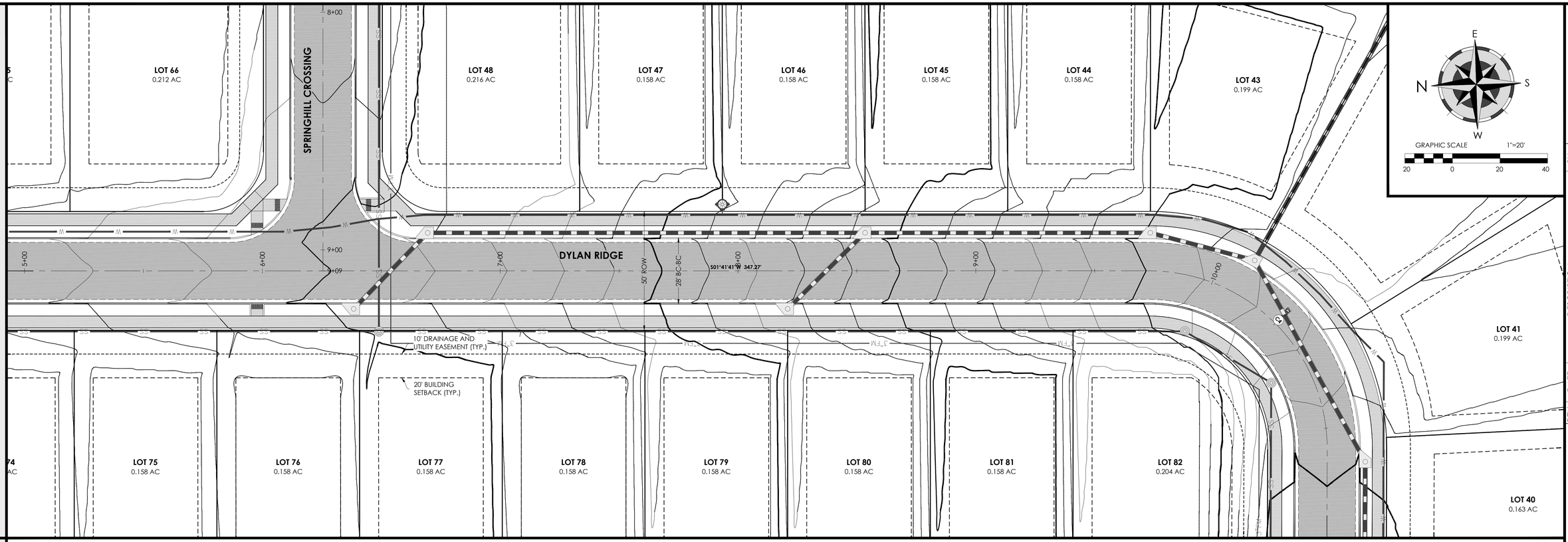
CERTIFICATE OF AUTHORIZATION
Holloway Engineering, Surveying & Civil Design, PLLC
#1879
ARKANSAS ENGINEERING

JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

C1.03

L:\2026\2026-071 - Daryl Bryant 26 Ac project\Drawings\Sheets\C1.00 ROADWAY OVERVIEW.dwg

PLAN VIEW - SCALE 1"=20'



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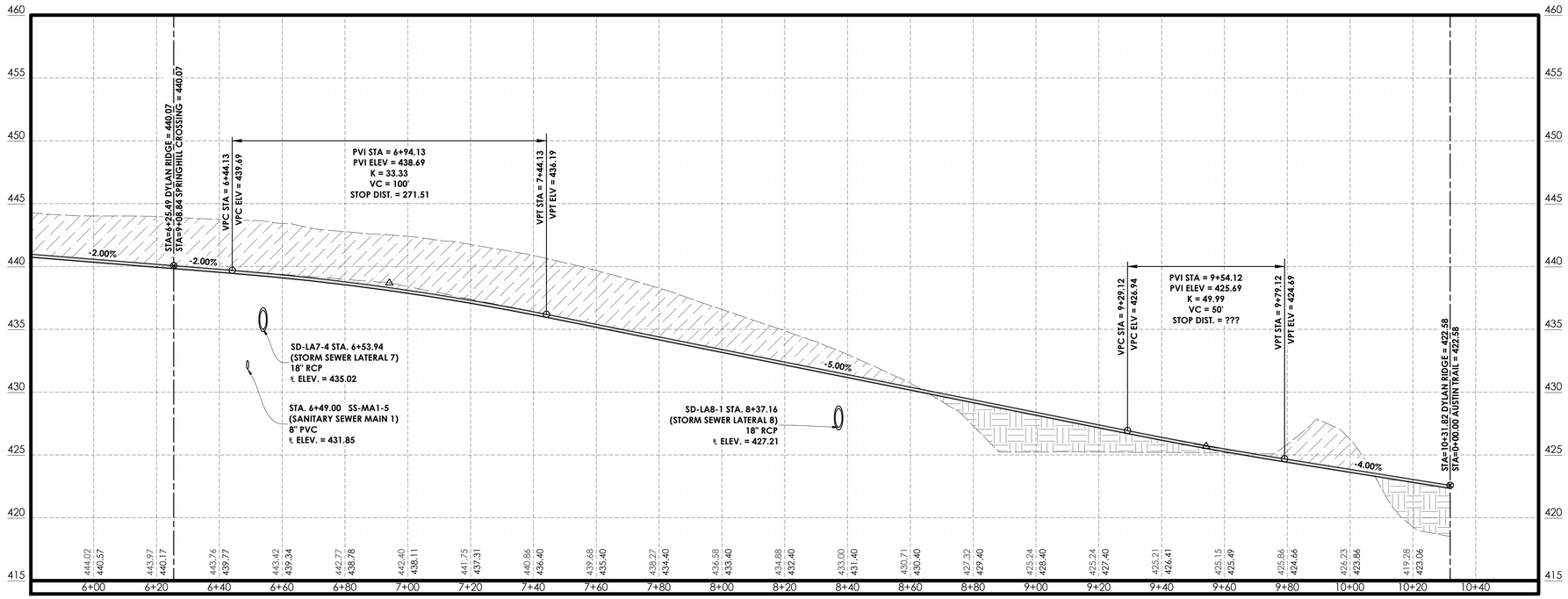


PROPOSED
EXISTING

DYLAN RIDGE
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

Holloway Engineering,
Surveying & Civil Design

200 Casey Drive
Maumelle, AR 72113
(501) 851-3366
www.holloway-eng.com

REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS

DYLAN RIDGE P&P (2 OF 2)

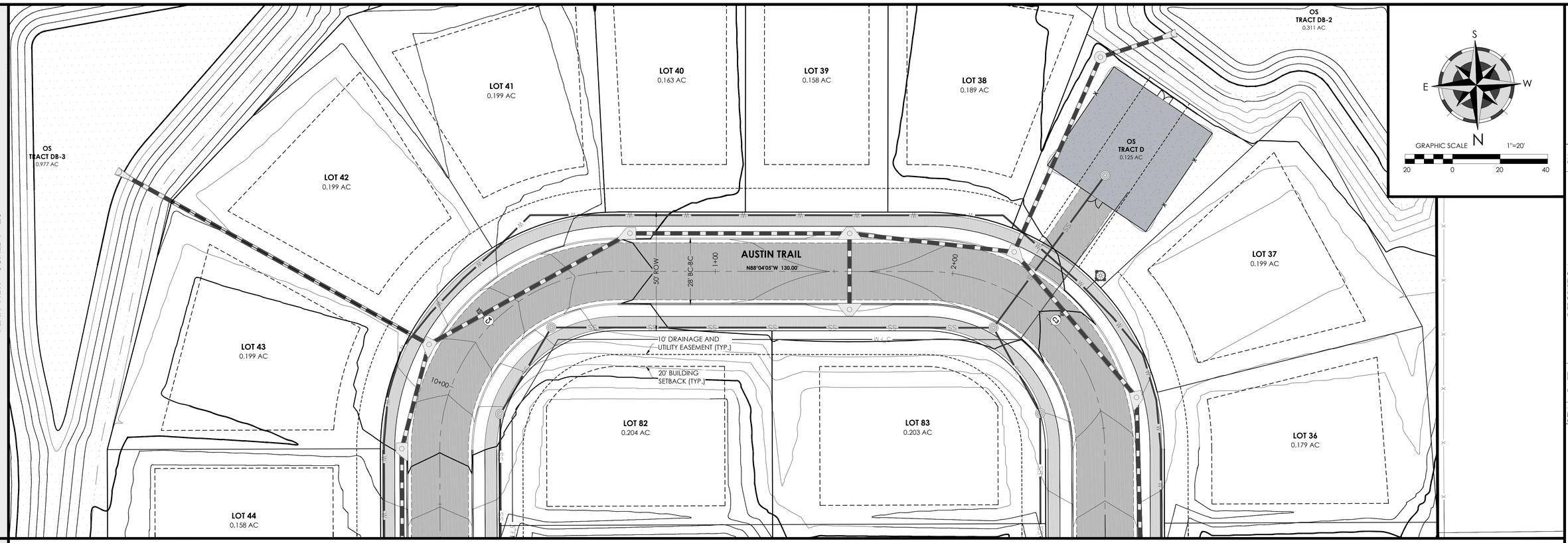
STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18898
ERIC HOLLOWAY
10/9/26

CERTIFICATE OF AUTHORIZATION
Holloway Engineering, Surveying & Civil Design, PLLC
#1879
EXPIRES: 6/30/2027

JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

C1.04

PLAN VIEW - SCALE 1"=20'



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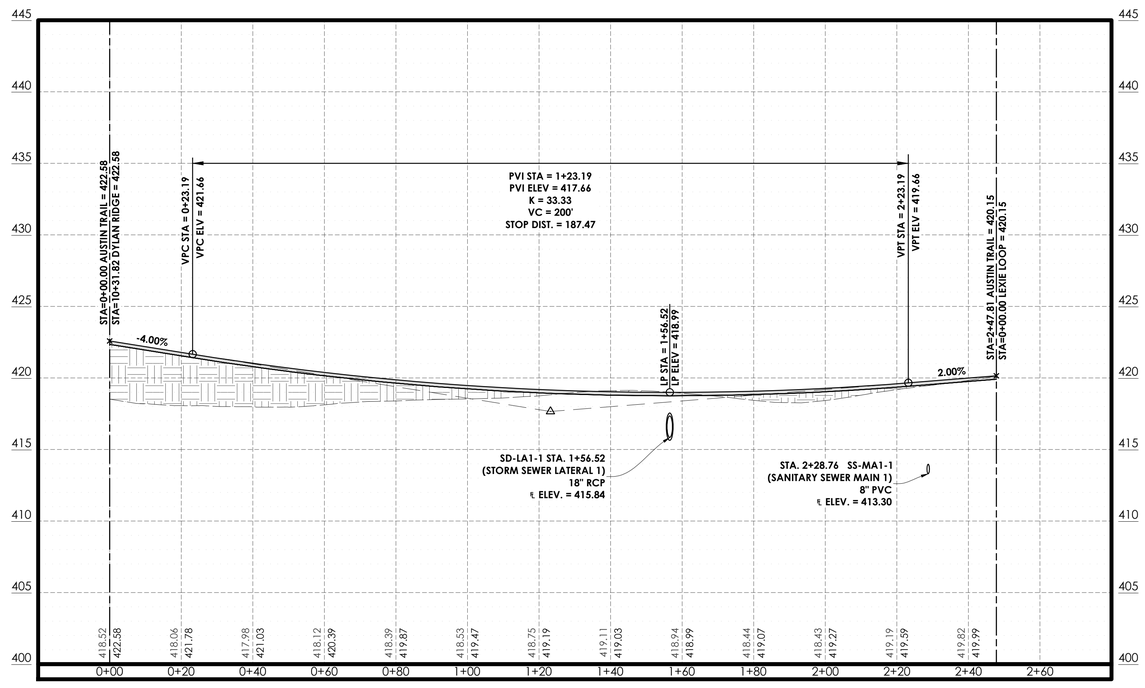

PROPOSED
EXISTING

AUSTIN TRAIL
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

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Surveying & Civil Design

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REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS

AUSTIN TRAIL P&P

STATE OF ARKANSAS
ERIC HOLLOWAY
LICENSED PROFESSIONAL ENGINEER
No. 18698
10/9/26

CERTIFICATE OF AUTHORIZATION
Holloway Engineering, Surveying & Civil Design, PLLC
#1879
ARKANSAS - ENGINEERING

JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

C1.05

L:\2026\2026-071 - Daryl Bryant 26 Ac project\Drawings\Sheets\C1.00 ROADWAY OVERVIEW.dwg

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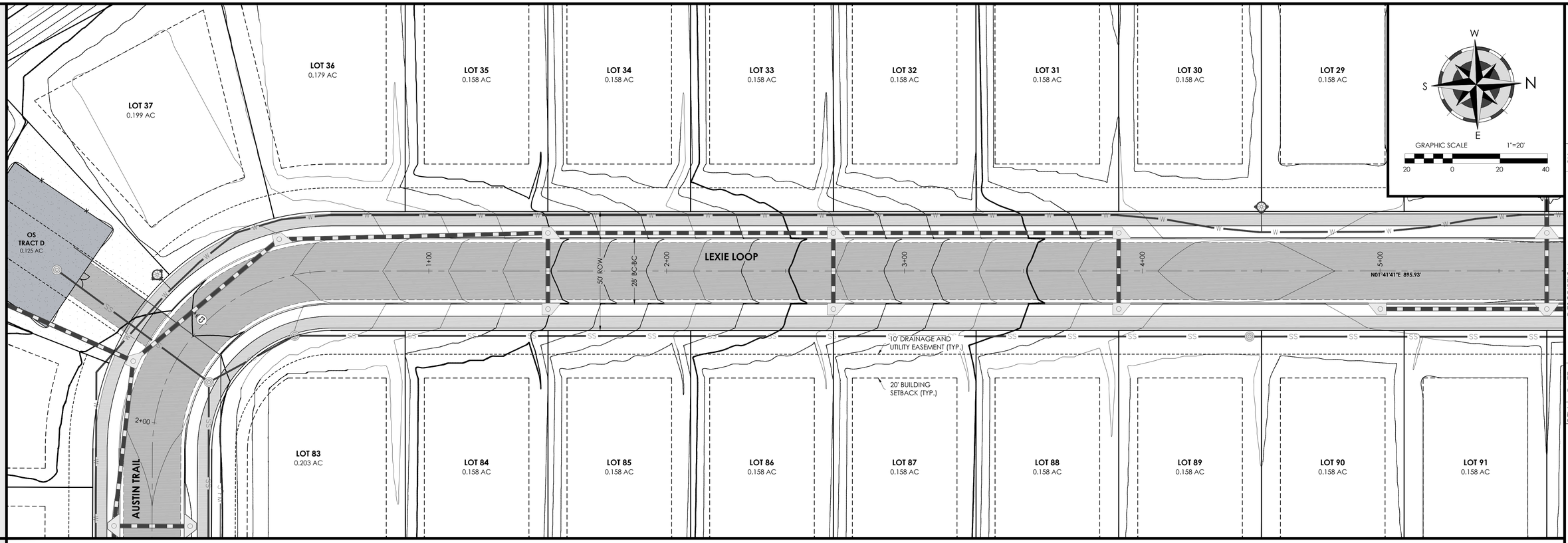

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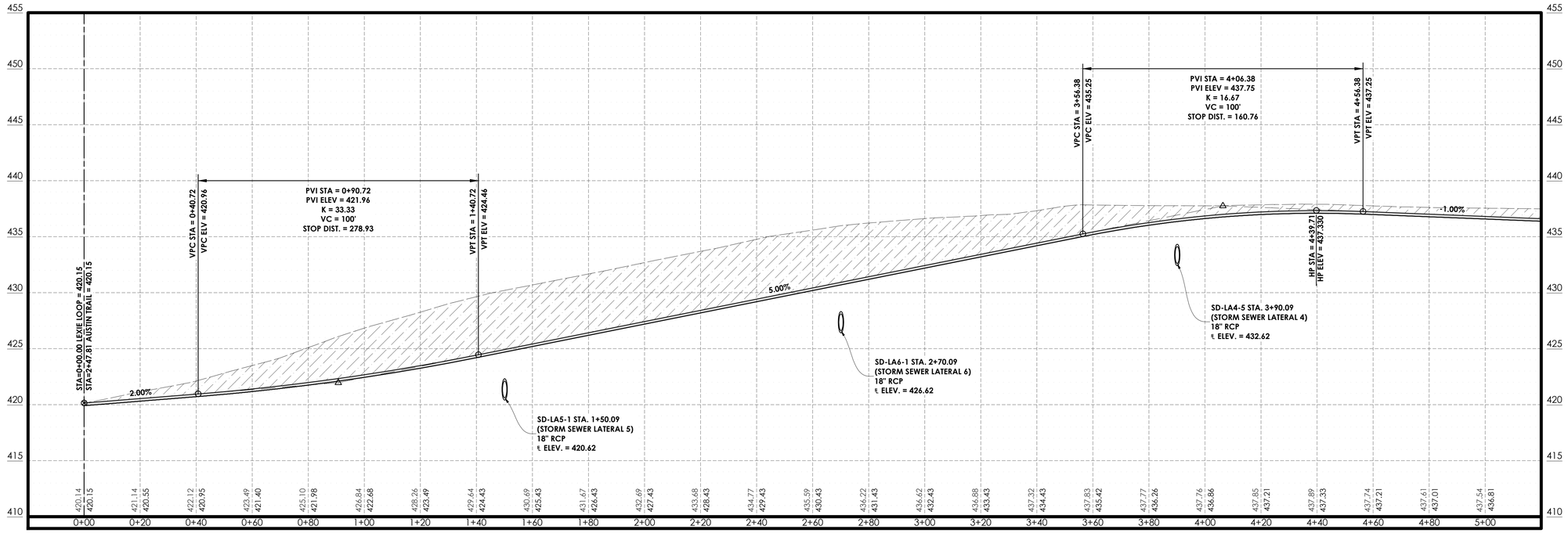

PROPOSED
EXISTING

LEXIE LOOP
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

Holloway Engineering, Surveying & Civil Design

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REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS

LEXIE LOOP P&P (1 OF 2)

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 18898
ERIC HOLLOWAY
10/9/26

CERTIFICATE OF AUTHORIZATION
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#1879
ARKANSAS - ENGINEERING

JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

C1.06

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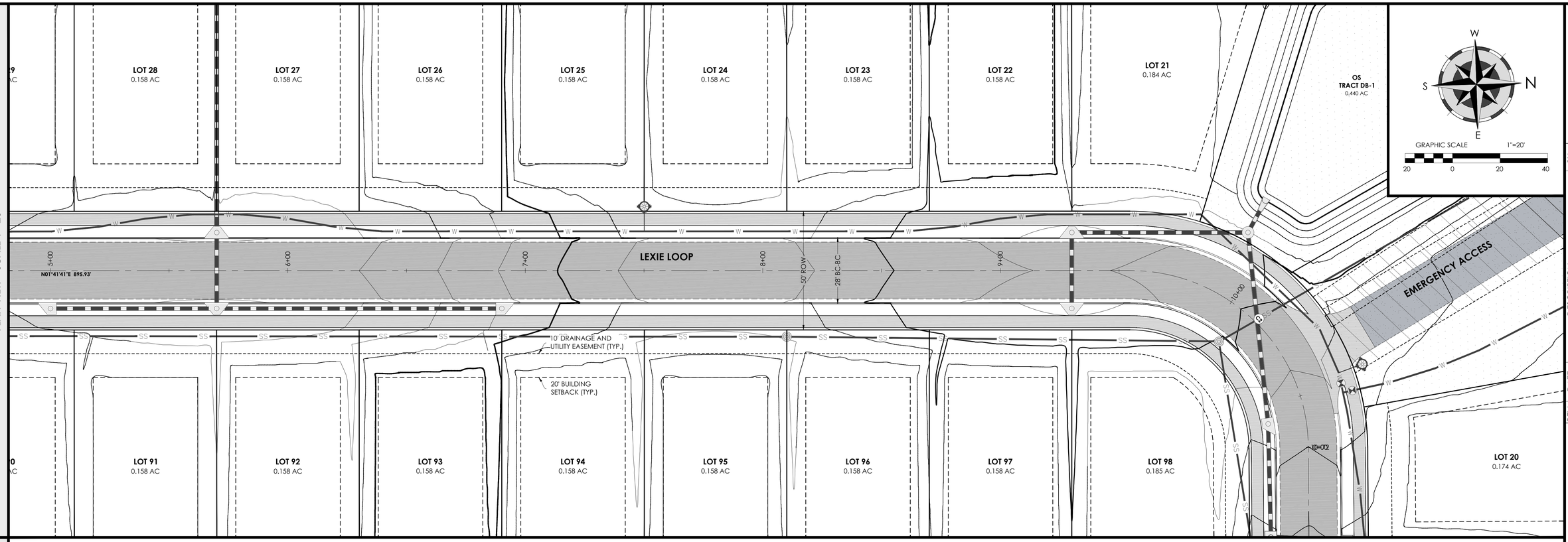

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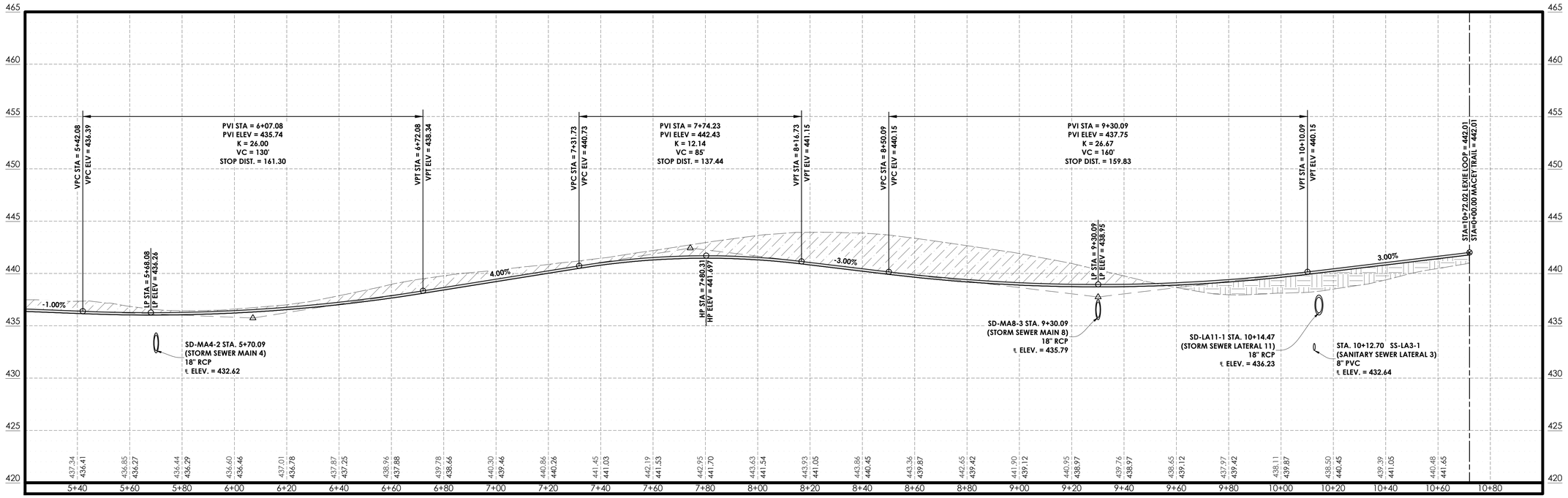

PROPOSED
EXISTING

LEXIE LOOP
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

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REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS

LEXIE LOOP P&P (2 OF 2)

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18698
ERIC HOLLOWAY
10/9/26

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Holloway Engineering, Surveying & Civil Design, PLLC
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ARKANSAS - ENGINEERING

JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

C1.07

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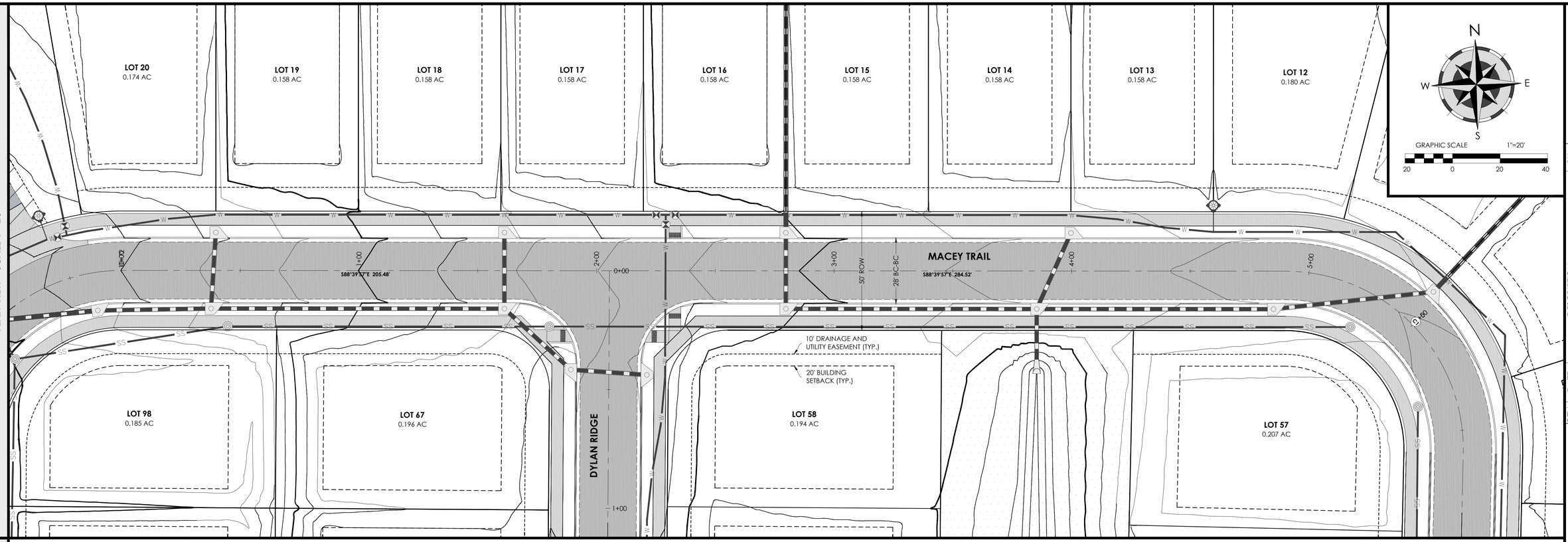
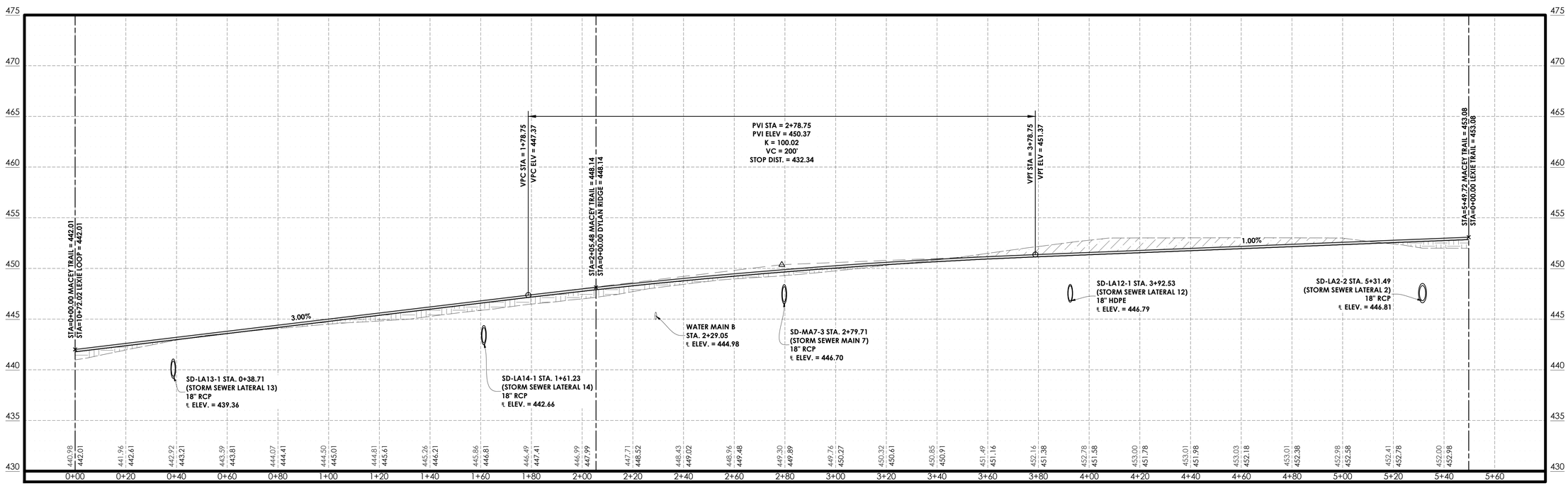


PROFILE VIEW - SCALE 1"=20'



PROPOSED
EXISTING

MACEY TRAIL
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

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REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS

MACEY TRAIL P&P

STATE OF ARKANSAS
ERIC HOLLOWAY
LICENSED PROFESSIONAL ENGINEER
No. 18698
10/9/26

CERTIFICATE OF AUTHORIZATION
Holloway Engineering, Surveying & Civil Design, PLLC
#1879
ARKANSAS - ENGINEERING

JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

C1.08

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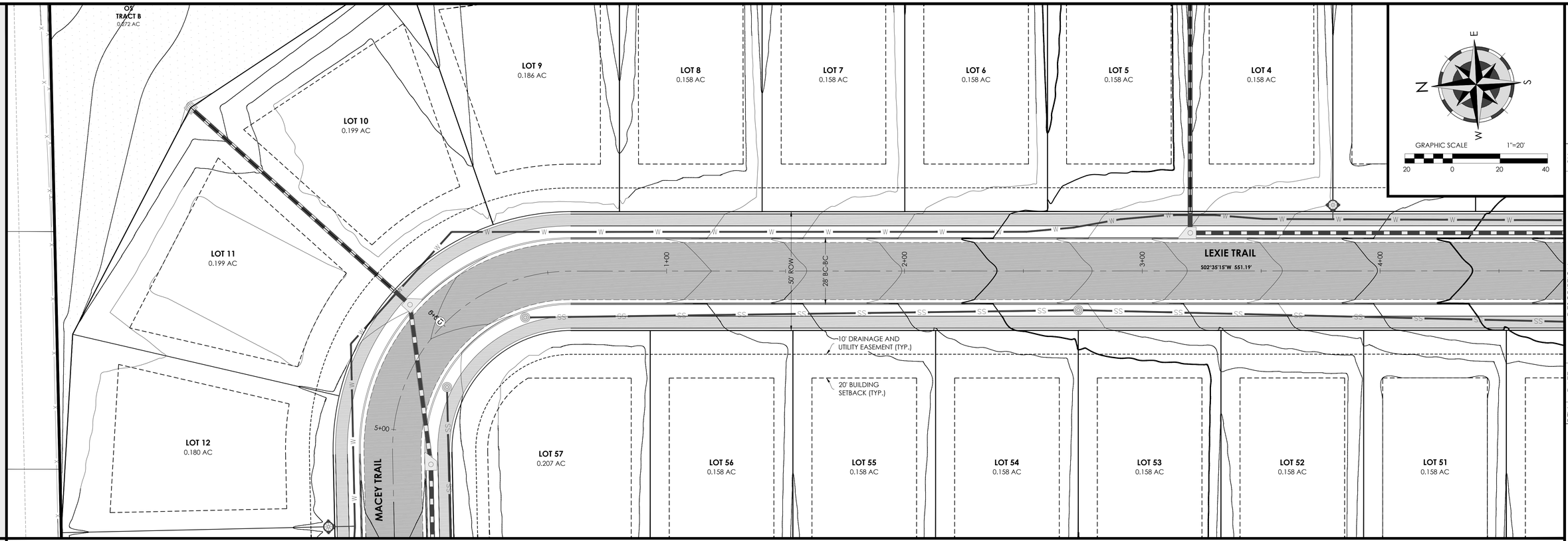

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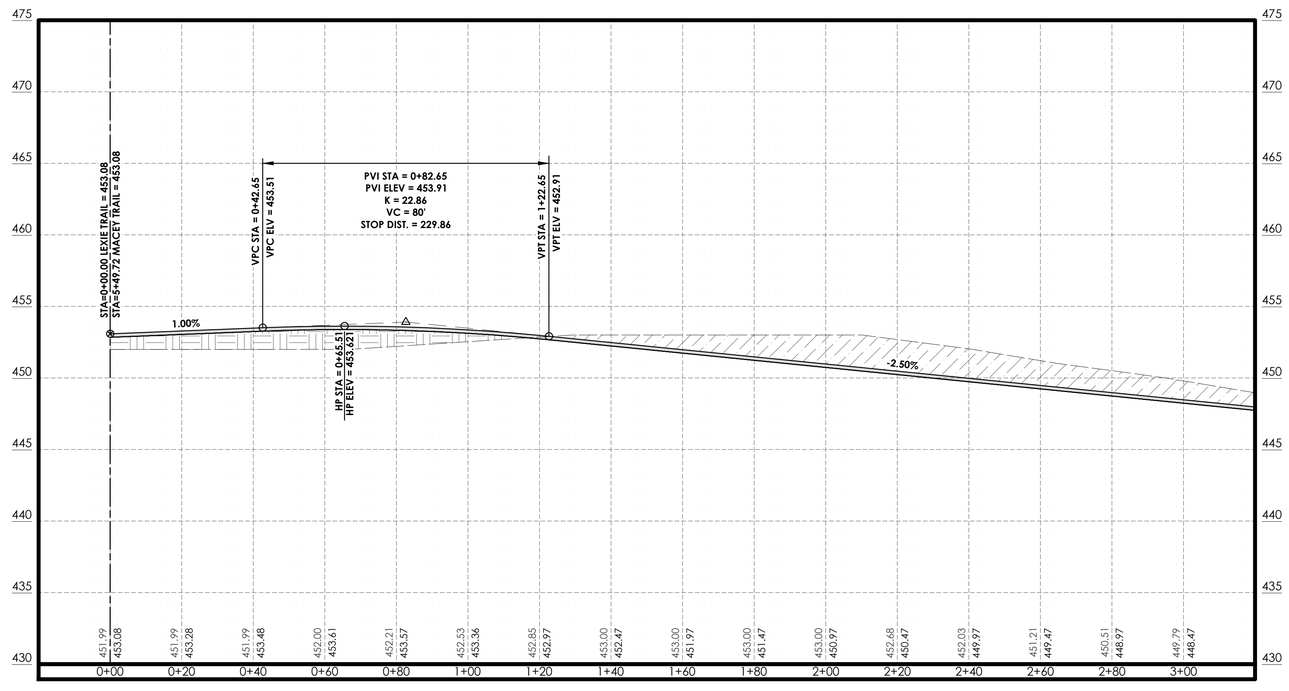

PROPOSED
EXISTING

LEXIE TRAIL
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

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REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
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LEXIE TRAIL P&P (1 OF 2)

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18898
ERIC HOLLOWAY
10/9/26

CERTIFICATE OF AUTHORIZATION
Holloway Engineering, Surveying & Civil Design, PLLC
#1879
ARKANSAS - ENGINEERING

JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

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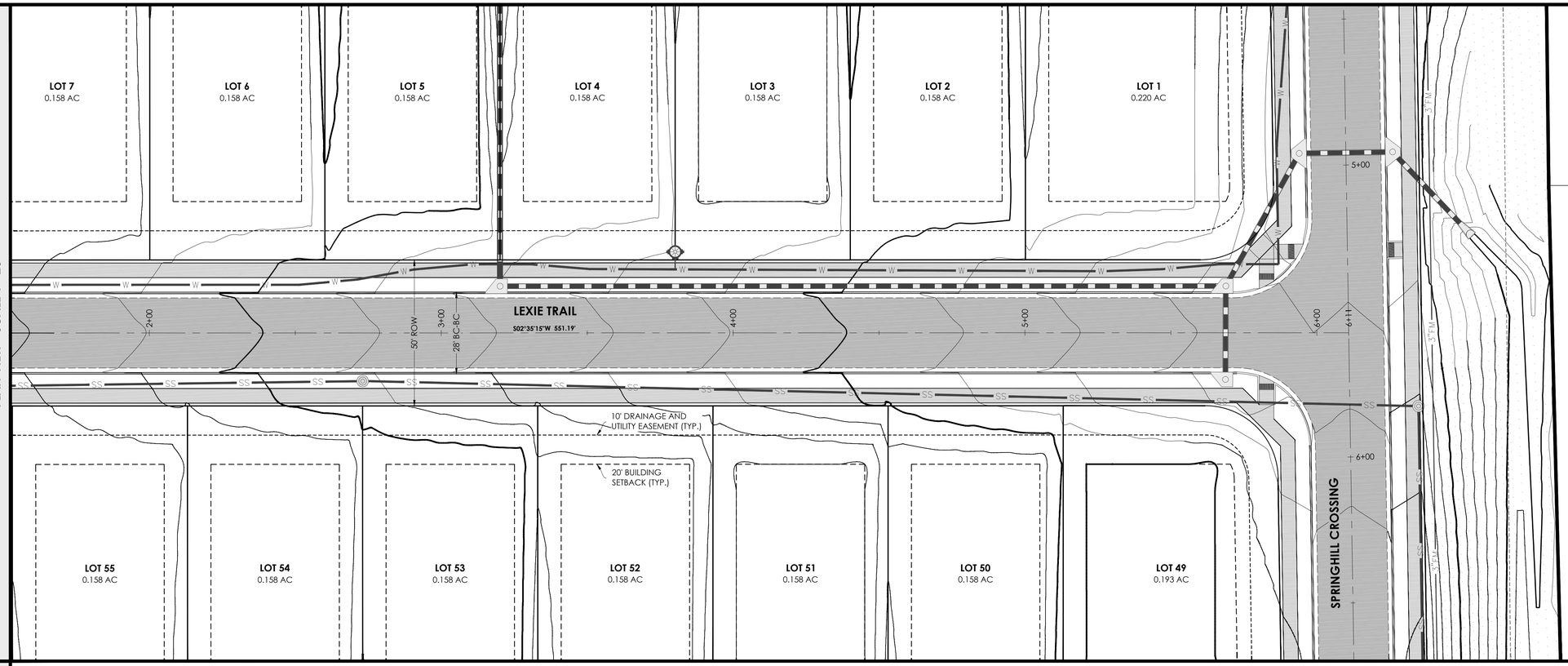

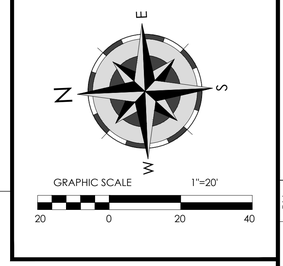

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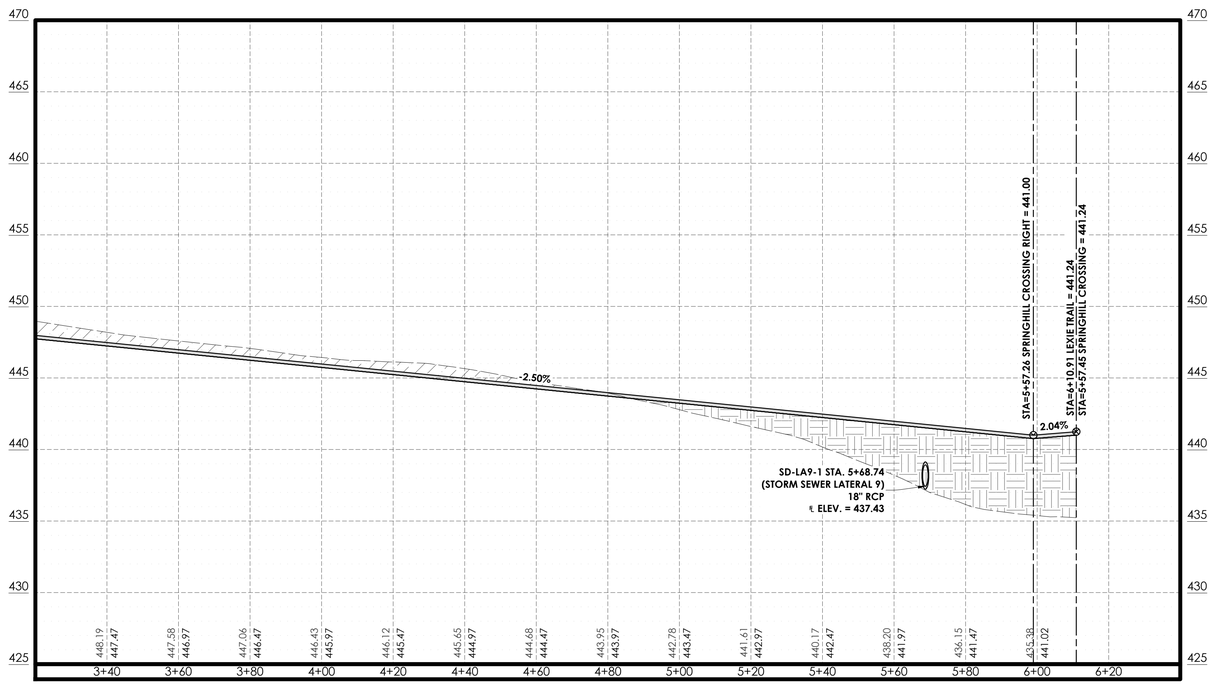

PROPOSED
EXISTING

LEXIE TRAIL
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

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REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS

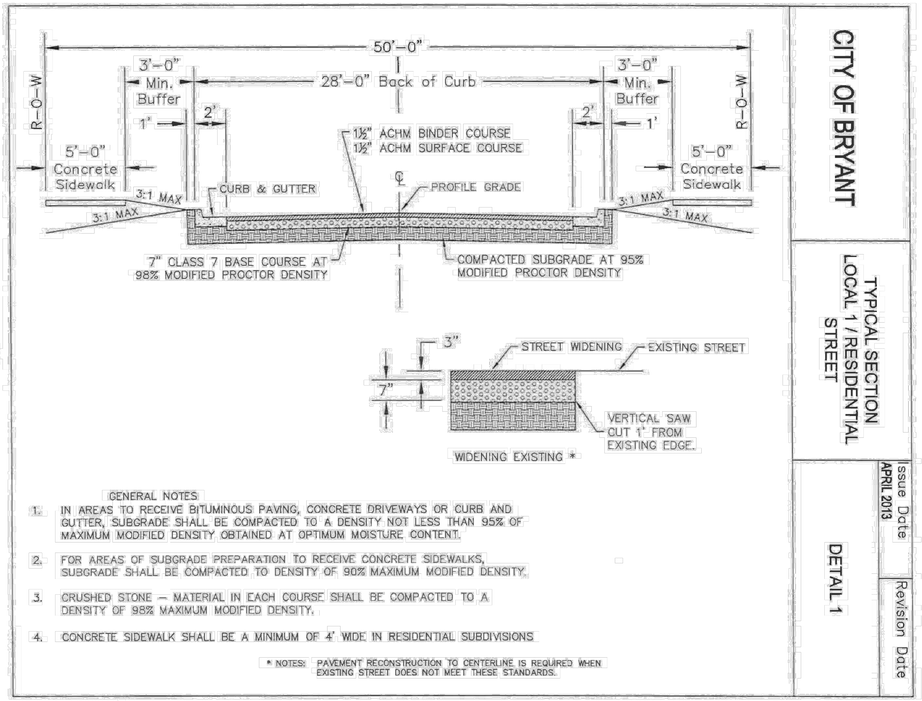
LEXIE TRAIL P&P (2 OF 2)

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18898
ERIC HOLLOWAY
10/9/26

CERTIFICATE OF AUTHORIZATION
Holloway Engineering, Surveying & Civil Design, PLLC
#1879
EXPIRATION - DECEMBER 31, 2026

JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

C1.10



GENERAL NOTES:

1. IN AREAS TO RECEIVE BITUMINOUS PAVING, CONCRETE DRIVEWAYS OR CURB AND GUTTER, SUBGRADE SHALL BE COMPACTED TO A DENSITY NOT LESS THAN 95% OF MAXIMUM MODIFIED DENSITY OBTAINED AT OPTIMUM MOISTURE CONTENT.
2. FOR AREAS OF SUBGRADE PREPARATION TO RECEIVE CONCRETE SIDEWALKS, SUBGRADE SHALL BE COMPACTED TO DENSITY OF 90% MAXIMUM MODIFIED DENSITY.
3. CRUSHED STONE — MATERIAL IN EACH COURSE SHALL BE COMPACTED TO A DENSITY OF 98% MAXIMUM MODIFIED DENSITY.
4. CONCRETE SIDEWALK SHALL BE A MINIMUM OF 4' WIDE IN RESIDENTIAL SUBDIVISIONS

* NOTES: PAVEMENT RECONSTRUCTION TO CENTERLINE IS REQUIRED WHEN EXISTING STREET DOES NOT MEET THESE STANDARDS.

CITY OF BRYANT

TYPICAL SECTION LOCAL 1 / RESIDENTIAL STREET

Issue Date: APRIL 2013

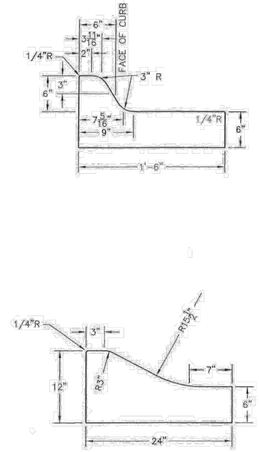
Revision Date:

DETAIL 1

A1

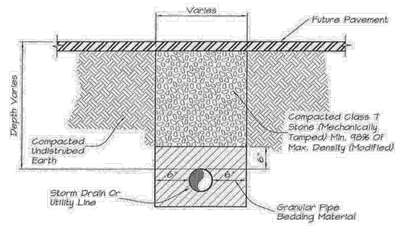
J:\2012 and Previous Projects\Jaegoulmill\1136\1136 Street Master Plan Details.dwg, 3/11/2013 9:29:49 AM

CITY OF BRYANT | CURB & GUTTER SECTIONS | Issue Date: APRIL 2013 | Revision Date: | DETAIL 7



A7

CITY OF BRYANT | TYPICAL SECTION DRAINAGE AND UTILITY CUT BACKFILL ON STREET UNDER CONSTRUCTION | Issue Date: APRIL 2013 | Revision Date: | DETAIL 8



Note: This Backfill Procedure Shall Be Utilized For All Trenches Excavated In Area To Be Paved.

A8

Holloway Engineering, Surveying & Civil Design

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www.holloway-eng.com

REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS

ROADWAY DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18898
ERIC HOLLOWAY
10/9/26

CERTIFICATE OF AUTHORIZATION
Holloway Engineering, Surveying & Civil Design, PLLC
#1879
EXPIRATION DATE: 12/31/2026

JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

C1.50

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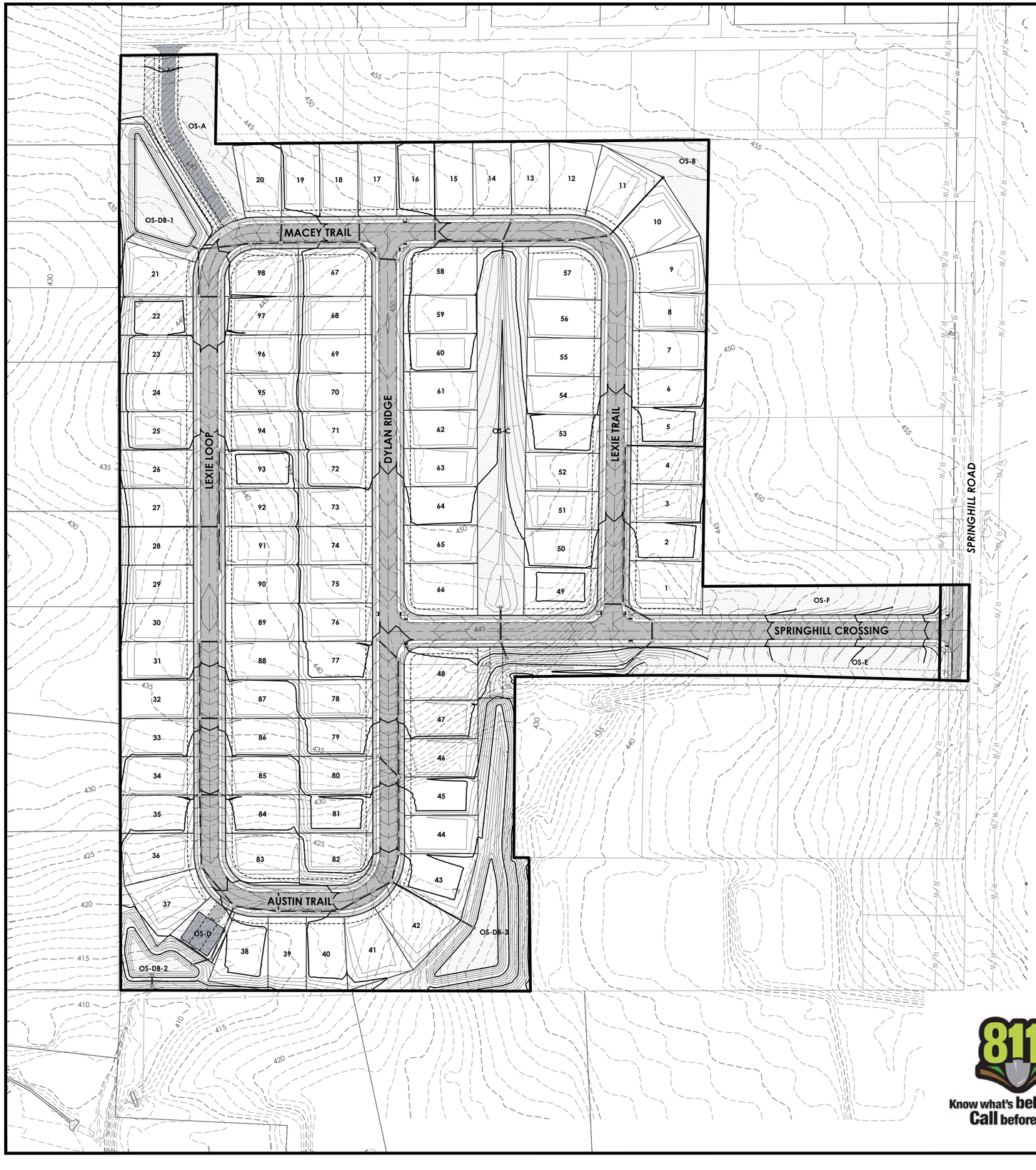

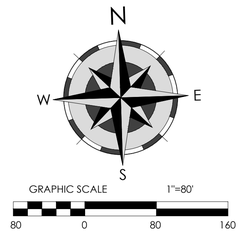

LEGEND

PROPOSED	DESCRIPTION
	BOUNDARY FINAL
	BOUNDARY ADJOINER
R/W	RIGHT-OF-WAY
	EASEMENT
	BUILDING SETBACK
	STORM DRAINAGE PIPE
	CURB INLET/JUNCTION BOX

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

CAUTION: UNDERGROUND UTILITIES EXIST WITHIN AND ADJACENT TO THE LIMITS OF CONSTRUCTION AND AN ATTEMPT HAS BEEN MADE TO LOCATE THESE UTILITIES ON THE PLANS. HOWEVER, ALL EXISTING UTILITIES MAY NOT BE SHOWN AND THE ACTUAL LOCATIONS OF THE UTILITIES MAY VARY FROM THE LOCATIONS SHOWN. PRIOR TO BEGINNING ANY TYPE OF EXCAVATION, THE CONTRACTOR SHALL CONTACT THE UTILITIES INVOLVED AND MAKE ARRANGEMENTS FOR THE LOCATION OF THE UTILITIES ON THE GROUND. THE CONTRACTOR SHALL MAINTAIN THE UTILITY LOCATION MARKINGS UNTIL THEY ARE NO LONGER NECESSARY.

ARKANSAS STATE LAW, THE UNDERGROUND FACILITIES DAMAGE PREVENTION ACT, REQUIRES TWO WORKING DAYS ADVANCE NOTIFICATION THROUGH THE ARKANSAS ONE-CALL SYSTEM CENTER BEFORE EXCAVATING USING MECHANIZED EQUIPMENT OR EXPLOSIVES (EXCEPT IN THE CASE OF AN EMERGENCY). THE ONE-CALL SYSTEM PHONE NUMBER IS 1-800-482-8998. THE CONTRACTOR IS ADVISED THAT THERE IS A SEVERE PENALTY FOR NOT MAKING THIS CALL. NOT ALL UTILITY COMPANIES ARE MEMBERS OF THE ARKANSAS ONE-CALL SYSTEM; THEREFORE, THE CONTRACTOR IS ADVISED TO CONTACT ALL NON-MEMBER UTILITIES, AS WELL AS THE ONE-CALL SYSTEM.

Holloway Engineering, Surveying & Civil Design

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(501) 851-3366
www.holloway-eng.com

REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS

GRADING & DRAINAGE OVERALL

STATE OF ARKANSAS
DARYL HOLLOWAY
LICENSED PROFESSIONAL ENGINEER
No. 18898
10/9/26

CERTIFICATE OF AUTHORIZATION
Holloway Engineering, Surveying & Civil Design, PLLC
#1879
ARKANSAS - ENGINEER

JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

C2.00

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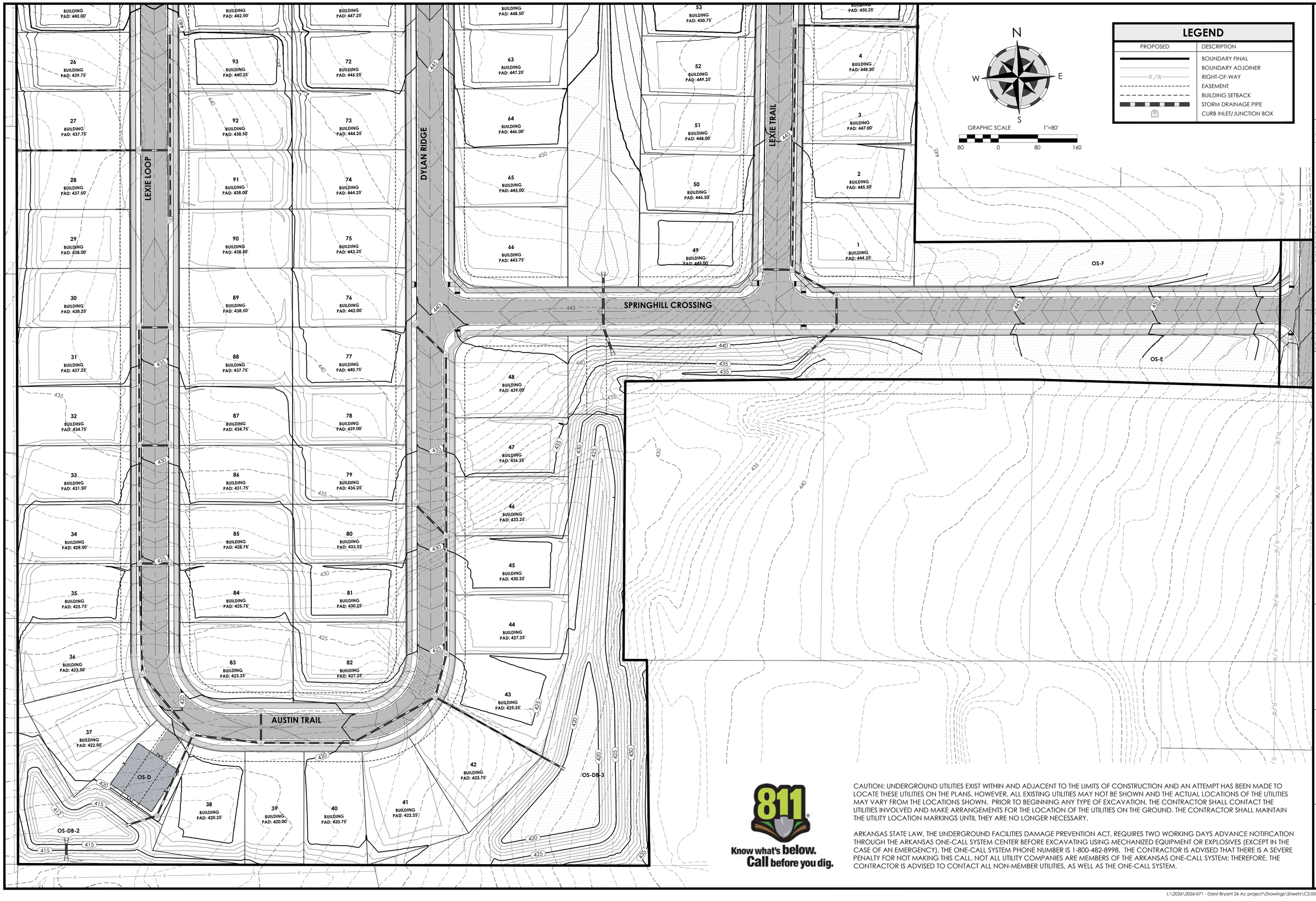

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Maumelle, AR 72113
(501) 851-3366
www.holloway-eng.com

REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS

GRADING & DRAINAGE PLAN (2 OF 3)

STATE OF ARKANSAS
ERIC HOLLOWAY
LICENSED PROFESSIONAL ENGINEER
No. 18898
10/9/26

Holloway Engineering, Surveying & Civil Design, PLLC
CERTIFICATE OF AUTHORIZATION
#1879

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JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

C2.01

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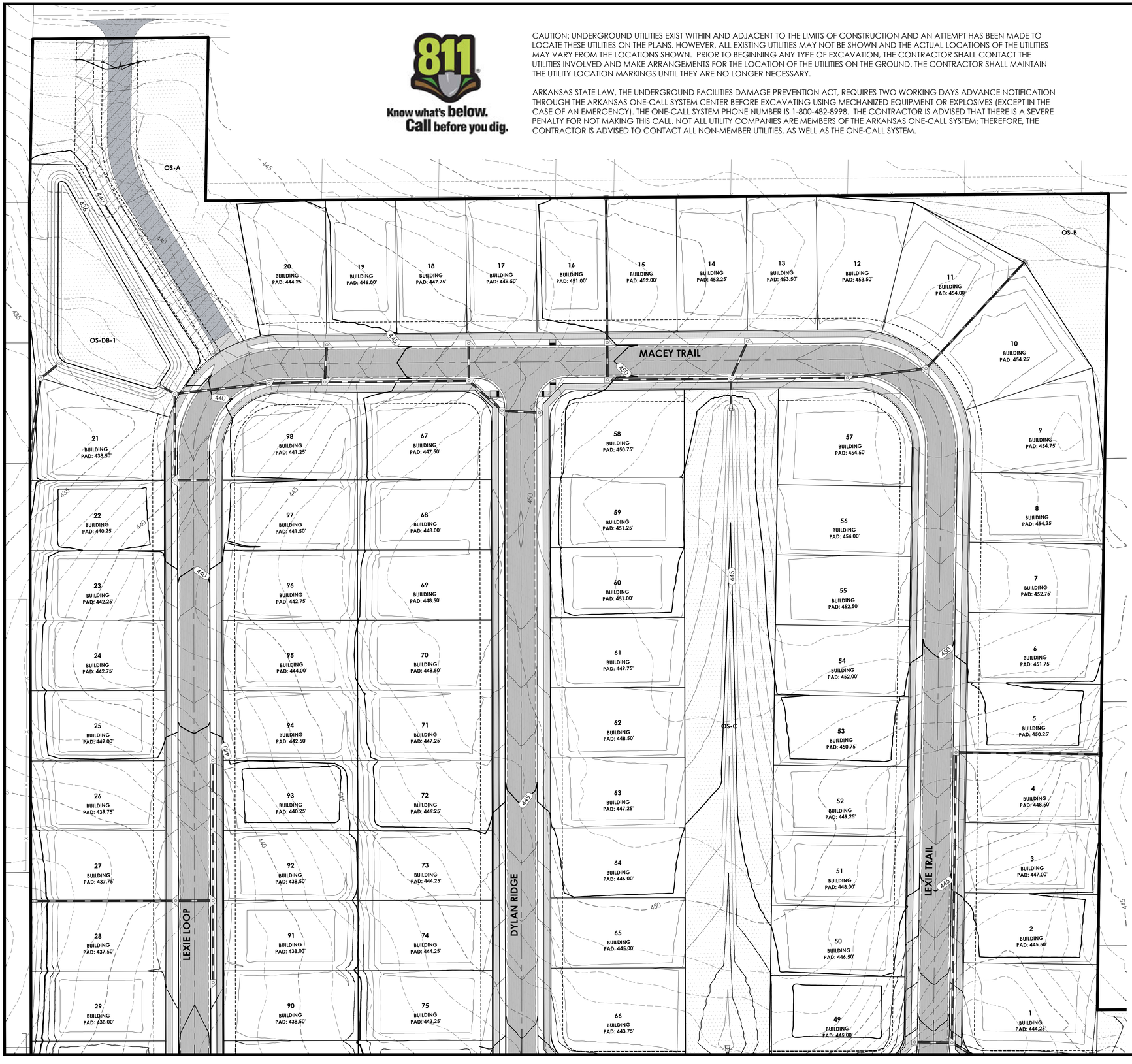

LEGEND

PROPOSED	DESCRIPTION
	BOUNDARY FINAL
	BOUNDARY ADJOINER
R/W	RIGHT-OF-WAY
	EASEMENT
	BUILDING SETBACK
	STORM DRAINAGE PIPE
	CURB INLET/JUNCTION BOX

Holloway Engineering, Surveying & Civil Design

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Maumelle, AR 72113
(501) 851-3366
www.holloway-eng.com

REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS

GRADING & DRAINAGE PLAN (3 OF 3)

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18898
ERIC HOLLOWAY
10/9/26

CERTIFICATE OF AUTHORIZATION
Holloway Engineering, Surveying & Civil Design, PLLC
#1879
ARKANSAS

JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

C2.02

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SPRINGHILL CROSSING

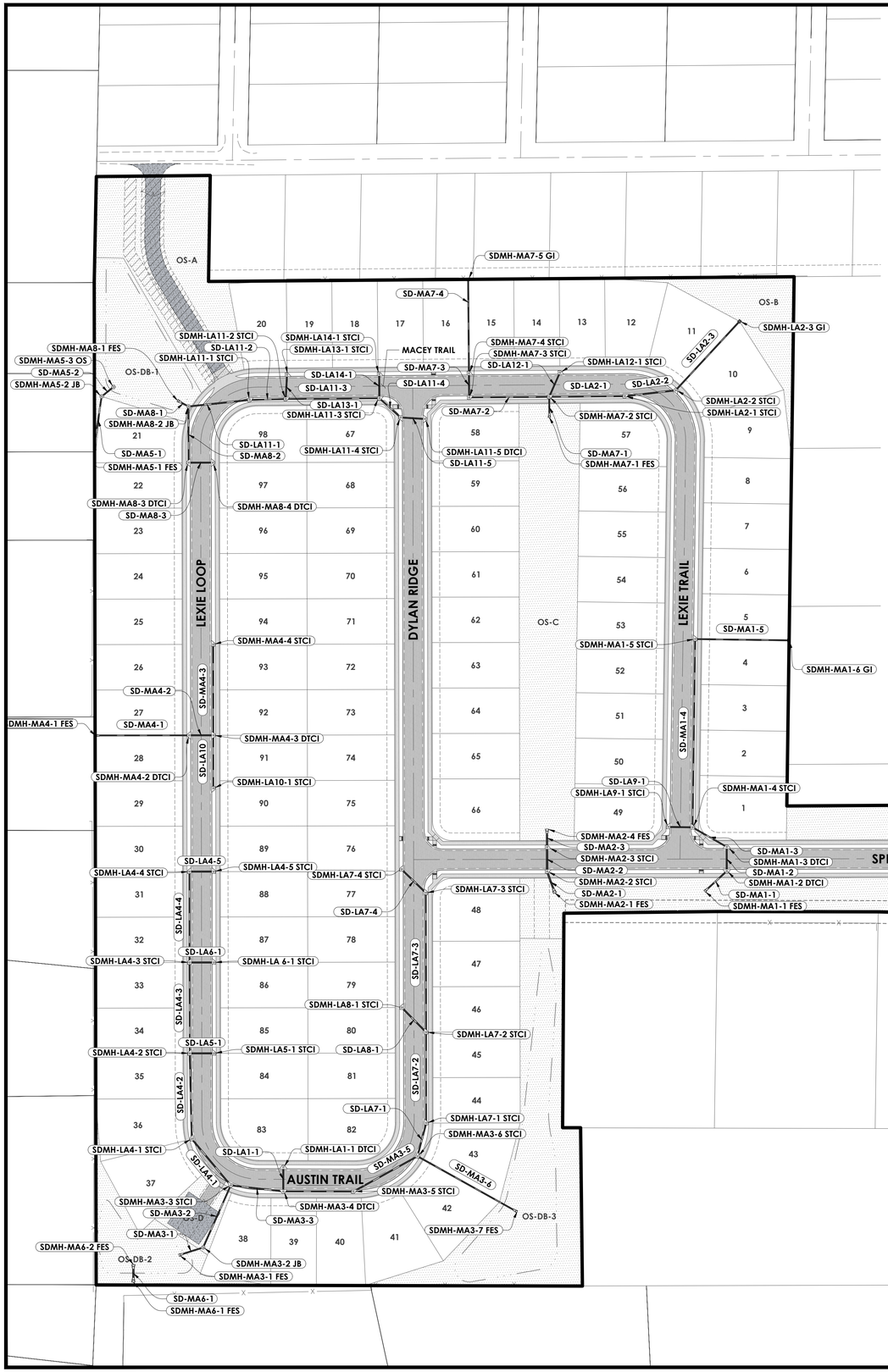
RESIDENTIAL SUBDIVISION

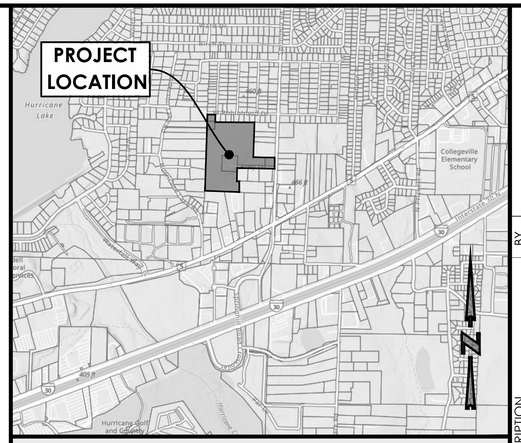
BRYANT, SALINE COUNTY, ARKANSAS

STORM SEWER PLANS

October 2026

HOLLOWAY ENGINEERING JOB NO. 2026-071





VICINITY MAP

STORM SEWER NOTES:

1. CONTRACTOR TO NOTIFY "ARKANSAS ONE-CALL" AND ALL APPROPRIATE UTILITIES, CABLE COMPANIES, ETC., PRIOR TO STARTING ANY EXCAVATION. DIAL 811
2. VEGETATION MUST BE ESTABLISHED ON DISTURBED AREAS WITHIN 14 DAYS OF COMPLETION OF GRADING ACTIVITIES.
3. ADEQ STORMWATER PERMIT MUST BE OBTAINED AND EROSION CONTROL MEASURES MUST BE INSTALLED TO COMPLY WITH ALL STORMWATER RUNOFF REGULATIONS AS DEFINED BY THE SITE EROSION CONTROL PLAN.
4. ALL SIDEWALK AREAS TO MAINTAIN A MAXIMUM 2% CROSS SLOPE AND A 5% RUNNING SLOPE & CONFORM TO ALL ADA REGULATIONS, ALL ADA PARKING TO BE MAX. 2% SLOPE ALL DIRECTIONS.
5. ALL CONCRETE SPILLWAY SECTIONS TO BE INSTALLED WITH A MINIMUM 6" (0.5 FEET) GRADE CHANGE/SLOPE AWAY FROM GUTTER LINE OF CURB.
6. THE LOCATION OF ANY UTILITIES SHOWN IS ONLY APPROXIMATE OR PROPOSED. THERE WAY EXIST MORE UTILITIES THAN THOSE SHOWN.
7. ALL DRAINAGE PIPE SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS.

LEGEND

PROPOSED	DESCRIPTION
———	BOUNDARY FINAL
———	BOUNDARY ADJOINER
R/W	RIGHT-OF-WAY
- - - -	EASEMENT
———	STORM DRAINAGE PIPE
X-X	DRAINAGE STRUCTURE - NO.
	CURB INLET/JUNCTION BOX

Holloway Engineering, Surveying & Civil Design

200 Casey Drive
Maumelle, AR 72113
(501) 851-3366
www.holloway-eng.com

REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS

STORM SEWER OVERVIEW

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18898
ERIC HOLLOWAY
10/9/26

CERTIFICATE OF AUTHORIZATION
Holloway Engineering, Surveying & Civil Design, PLLC
#1879

JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

C2.03

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STORM SEWER STRUCTURE TABLE

STRUCTURE NAME	DETAILS	PIPES IN	PIPES OUT
SDMH-LA 6-1 STCI	RIM ELEV. = 430.93		SD-LA6-1 - 18" RCP INV OUT = 427.26
SDMH-LA1-1 DTCI	RIM ELEV. = 418.99		SD-LA1-1 - 18" RCP INV OUT = 416.00
SDMH-LA2-1 STCI	RIM ELEV. = 452.43	SD-LA2-2 - 18" RCP INV IN = 446.59	SD-LA2-1 - 18" HDPE INV OUT = 446.59
SDMH-LA2-2 STCI	RIM ELEV. = 453.05	SD-LA2-3 - 18" HDPE INV IN = 446.93	SD-LA2-2 - 18" RCP INV OUT = 446.93
SDMH-LA2-3 GI	RIM ELEV. = 450.89		SD-LA2-3 - 18" HDPE INV OUT = 447.55
SDMH-LA4-1 STCI	RIM ELEV. = 420.96	SD-LA4-2 - 18" HDPE INV IN = 416.58	SD-LA4-1 - 18" RCP INV OUT = 416.59
SDMH-LA4-2 STCI	RIM ELEV. = 424.93	SD-LA4-3 - 18" HDPE INV IN = 419.98 SD-LA5-1 - 18" RCP INV IN = 419.98	SD-LA4-2 - 18" HDPE INV OUT = 419.98
SDMH-LA4-3 STCI	RIM ELEV. = 430.93	SD-LA4-4 - 18" HDPE INV IN = 425.98 SD-LA6-1 - 18" RCP INV IN = 425.98	SD-LA4-3 - 18" HDPE INV OUT = 425.98
SDMH-LA4-4 STCI	RIM ELEV. = 436.59	SD-LA4-5 - 18" RCP INV IN = 431.98	SD-LA4-4 - 18" HDPE INV OUT = 431.98
SDMH-LA4-5 STCI	RIM ELEV. = 436.59		SD-LA4-5 - 18" RCP INV OUT = 433.26
SDMH-LA5-1 STCI	RIM ELEV. = 424.93		SD-LA5-1 - 18" RCP INV OUT = 421.26
SDMH-LA7-1 STCI	RIM ELEV. = 424.93	SD-LA7-2 - 18" HDPE INV IN = 420.30	SD-LA7-1 - 18" HDPE INV OUT = 420.30
SDMH-LA7-2 STCI	RIM ELEV. = 430.72	SD-LA7-3 - 18" HDPE INV IN = 426.30 SD-LA8-1 - 18" RCP INV IN = 426.30	SD-LA7-2 - 18" HDPE INV OUT = 426.30
SDMH-LA7-3 STCI	RIM ELEV. = 439.09	SD-LA7-4 - 18" RCP INV IN = 434.57	SD-LA7-3 - 18" HDPE INV OUT = 434.57
SDMH-LA7-4 STCI	RIM ELEV. = 439.80		SD-LA7-4 - 18" RCP INV OUT = 435.47
SDMH-LA8-1 STCI	RIM ELEV. = 432.35		SD-LA8-1 - 18" RCP INV OUT = 428.12
SDMH-LA9-1 STCI	RIM ELEV. = 441.75		SD-LA9-1 - 18" RCP INV OUT = 437.91
SDMH-LA10-1 STCI	RIM ELEV. = 436.81		SD-LA10 - 18" HDPE INV OUT = 433.40
SDMH-LA11-1 STCI	RIM ELEV. = 441.62	SD-LA11-2 - 18" HDPE INV IN = 437.21	SD-LA11-1 - 18" RCP INV OUT = 437.21
SDMH-LA11-2 STCI	RIM ELEV. = 443.14	SD-LA13-1 - 18" RCP INV IN = 438.64 SD-LA11-3 - 18" HDPE INV IN = 438.64	SD-LA11-2 - 18" HDPE INV OUT = 438.64
SDMH-LA11-3 STCI	RIM ELEV. = 446.84	SD-LA11-4 - 18" HDPE INV IN = 442.34 SD-LA14-1 - 18" RCP INV IN = 442.34	SD-LA11-3 - 18" HDPE INV OUT = 442.34
SDMH-LA11-4 STCI	RIM ELEV. = 448.19	SD-LA11-5 - 18" RCP INV IN = 444.24	SD-LA11-4 - 18" HDPE INV OUT = 444.24
SDMH-LA11-5 DTCI	RIM ELEV. = 448.21		SD-LA11-5 - 18" RCP INV OUT = 444.88
SDMH-LA12-1 STCI	RIM ELEV. = 451.58		SD-LA12-1 - 18" HDPE INV OUT = 447.50
SDMH-LA13-1 STCI	RIM ELEV. = 443.20		SD-LA13-1 - 18" RCP INV OUT = 440.08
SDMH-LA14-1 STCI	RIM ELEV. = 446.84		SD-LA14-1 - 18" RCP INV OUT = 442.98
SDMH-MA1-1 FES	RIM ELEV. = 436.72	SD-MA1-1 - 18" HDPE INV IN = 435.00	
SDMH-MA1-2 DTCI	RIM ELEV. = 440.41	SD-MA1-2 - 18" RCP INV IN = 435.59	SD-MA1-1 - 18" HDPE INV OUT = 435.59
SDMH-MA1-3 DTCI	RIM ELEV. = 440.41	SD-MA1-3 - 18" HDPE INV IN = 435.91	SD-MA1-2 - 18" RCP INV OUT = 435.91
SDMH-MA1-4 STCI	RIM ELEV. = 441.75	SD-MA1-4 - 18" HDPE INV IN = 436.95 SD-LA9-1 - 18" RCP INV IN = 436.95	SD-MA1-3 - 18" HDPE INV OUT = 436.95
SDMH-MA1-5 STCI	RIM ELEV. = 447.97	SD-MA1-5 - 18" HDPE INV IN = 441.53	SD-MA1-4 - 18" HDPE INV OUT = 441.53

STORM SEWER STRUCTURE TABLE

STRUCTURE NAME	DETAILS	PIPES IN	PIPES OUT
SDMH-MA1-6 GI	RIM ELEV. = 445.30		SD-MA1-5 - 18" HDPE INV OUT = 442.77
SDMH-MA2-1 FES	RIM ELEV. = 439.24	SD-MA2-1 - 24" HDPE INV IN = 437.01	
SDMH-MA2-2 STCI	RIM ELEV. = 443.10	SD-MA2-2 - 24" RCP INV IN = 438.17	SD-MA2-1 - 24" HDPE INV OUT = 438.17
SDMH-MA2-3 STCI	RIM ELEV. = 443.10	SD-MA2-3 - 24" HDPE INV IN = 439.45	SD-MA2-2 - 24" RCP INV OUT = 439.45
SDMH-MA2-4 FES	RIM ELEV. = 442.76		SD-MA2-3 - 24" HDPE INV OUT = 440.53
SDMH-MA3-1 FES	RIM ELEV. = 415.72	SD-MA3-1 - 18" HDPE INV IN = 414.00	
SDMH-MA3-2 JB	RIM ELEV. = 420.36	SD-MA3-2 - 18" HDPE INV IN = 414.27	SD-MA3-1 - 18" HDPE INV OUT = 414.27
SDMH-MA3-3 STCI	RIM ELEV. = 419.60	SD-MA3-3 - 18" HDPE INV IN = 414.98 SD-LA4-1 - 18" RCP INV IN = 414.98	SD-MA3-2 - 18" HDPE INV OUT = 414.98
SDMH-MA3-4 DTCI	RIM ELEV. = 418.99	SD-MA3-4 - 18" HDPE INV IN = 415.68 SD-LA1-1 - 18" RCP INV IN = 415.68	SD-MA3-3 - 18" HDPE INV OUT = 415.68
SDMH-MA3-5 STCI	RIM ELEV. = 420.27	SD-MA3-5 - 18" RCP INV IN = 416.61	SD-MA3-4 - 18" HDPE INV OUT = 416.61
SDMH-MA3-6 STCI	RIM ELEV. = 423.41	SD-MA3-6 - 18" HDPE INV IN = 417.58 SD-LA7-1 - 18" HDPE INV IN = 417.58	SD-MA3-5 - 18" RCP INV OUT = 417.57
SDMH-MA3-7 FES	RIM ELEV. = 420.72		SD-MA3-6 - 18" HDPE INV OUT = 419.00
SDMH-MA4-1 FES	RIM ELEV. = 433.63	SD-MA4-1 - 18" HDPE INV IN = 431.92	
SDMH-MA4-2 DTCI	RIM ELEV. = 436.26	SD-MA4-2 - 18" RCP INV IN = 432.54	SD-MA4-1 - 18" HDPE INV OUT = 432.54
SDMH-MA4-3 DTCI	RIM ELEV. = 436.26	SD-MA4-3 - 18" HDPE INV IN = 432.70 SD-LA10 - 18" HDPE INV IN = 432.70	SD-MA4-2 - 18" RCP INV OUT = 432.70
SDMH-MA4-4 STCI	RIM ELEV. = 439.06		SD-MA4-3 - 18" HDPE INV OUT = 435.10
SDMH-MA5-1 FES	RIM ELEV. = 434.74	SD-MA5-1 - 18" HDPE INV IN = 433.02	
SDMH-MA5-2 JB	RIM ELEV. = 436.21	SD-MA5-2 - 18" HDPE INV IN = 433.34	SD-MA5-1 - 18" HDPE INV OUT = 433.34
SDMH-MA5-3 OS	RIM ELEV. = 437.99		SD-MA5-2 - 18" HDPE INV OUT = 433.54
SDMH-MA6-1 FES	RIM ELEV. = 413.24	SD-MA6-1 - 24" HDPE INV IN = 411.00	
SDMH-MA6-2 FES	RIM ELEV. = 414.24		SD-MA6-1 - 24" HDPE INV OUT = 412.00
SDMH-MA7-1 FES	RIM ELEV. = 447.67	SD-MA7-1 - 18" HDPE INV IN = 445.96	
SDMH-MA7-2 STCI	RIM ELEV. = 451.43	SD-MA7-2 - 18" HDPE INV IN = 446.09 SD-LA2-1 - 18" HDPE INV IN = 446.09 SD-LA12-1 - 18" HDPE INV IN = 446.09	SD-MA7-1 - 18" HDPE INV OUT = 446.09
SDMH-MA7-3 STCI	RIM ELEV. = 449.89	SD-MA7-3 - 18" RCP INV IN = 446.62	SD-MA7-2 - 18" HDPE INV OUT = 446.62
SDMH-MA7-4 STCI	RIM ELEV. = 449.89	SD-MA7-4 - 18" HDPE INV IN = 446.78	SD-MA7-3 - 18" RCP INV OUT = 446.78
SDMH-MA7-5 GI	RIM ELEV. = 450.63		SD-MA7-4 - 18" HDPE INV OUT = 447.40
SDMH-MA8-1 FES	RIM ELEV. = 436.97	SD-MA8-1 - 18" HDPE INV IN = 435.26	
SDMH-MA8-2 JB	RIM ELEV. = 439.05	SD-MA8-2 - 18" HDPE INV IN = 435.34 SD-LA11-1 - 18" RCP INV IN = 435.34	SD-MA8-1 - 18" HDPE INV OUT = 435.34
SDMH-MA8-3 DTCI	RIM ELEV. = 438.95	SD-MA8-3 - 18" RCP INV IN = 435.71	SD-MA8-2 - 18" HDPE INV OUT = 435.71
SDMH-MA8-4 DTCI	RIM ELEV. = 438.95		SD-MA8-3 - 18" RCP INV OUT = 435.87

STORM SEWER PIPE TABLE

NAME	SIZE / PIPE MATERIAL	LENGTH	SLOPE %
SD-LA1-1	18" RCP	32.00'	1.00%
SD-LA2-1	18" HDPE	99.65'	0.50%
SD-LA2-2	18" RCP	67.73'	0.50%
SD-LA2-3	18" HDPE	124.00'	0.50%
SD-LA4-1	18" RCP	80.01'	2.00%
SD-LA4-2	18" HDPE	113.03'	3.00%
SD-LA4-3	18" HDPE	120.00'	5.00%
SD-LA4-4	18" HDPE	120.00'	5.00%
SD-LA4-5	18" RCP	32.00'	4.00%
SD-LA5-1	18" RCP	32.00'	4.00%
SD-LA6-1	18" RCP	32.00'	4.00%
SD-LA7-1	18" HDPE	45.40'	6.00%
SD-LA7-2	18" HDPE	119.94'	5.00%
SD-LA7-3	18" HDPE	183.94'	4.50%
SD-LA7-4	18" RCP	44.63'	2.00%
SD-LA8-1	18" RCP	45.64'	4.00%
SD-LA9-1	18" RCP	32.00'	3.00%
SD-LA10	18" HDPE	70.00'	1.00%
SD-LA11-1	18" RCP	81.12'	2.30%
SD-LA11-2	18" HDPE	47.69'	3.00%
SD-LA11-3	18" HDPE	123.52'	3.00%
SD-LA11-4	18" HDPE	37.96'	5.00%
SD-LA11-5	18" RCP	32.07'	2.00%
SD-LA12-1	18" HDPE	35.08'	4.00%
SD-LA13-1	18" RCP	32.06'	4.50%
SD-LA14-1	18" RCP	32.00'	2.00%
SD-MA1-1	18" HDPE	39.55'	1.50%

STORM SEWER PIPE TABLE

NAME	SIZE / PIPE MATERIAL	LENGTH	SLOPE %
SD-MA1-2	18" RCP	32.01'	1.00%
SD-MA1-3	18" HDPE	51.92'	2.00%
SD-MA1-4	18" HDPE	248.63'	1.84%
SD-MA1-5	18" HDPE	123.83'	1.00%
SD-MA2-1	24" HDPE	30.13'	3.85%
SD-MA2-2	24" RCP	32.00'	4.00%
SD-MA2-3	24" HDPE	24.00'	4.50%
SD-MA3-1	18" HDPE	33.45'	0.80%
SD-MA3-2	18" HDPE	89.70'	0.80%
SD-MA3-3	18" HDPE	69.76'	1.00%
SD-MA3-4	18" HDPE	92.46'	1.00%
SD-MA3-5	18" RCP	96.66'	1.00%
SD-MA3-6	18" HDPE	150.46'	0.95%
SD-MA4-1	18" HDPE	124.00'	0.50%
SD-MA4-2	18" RCP	32.00'	0.50%
SD-MA4-3	18" HDPE	120.00'	2.00%
SD-MA5-1	18" HDPE	63.60'	0.50%
SD-MA5-2	18" HDPE	20.00'	1.00%
SD-MA6-1	24" HDPE	23.47'	4.26%
SD-MA7-1	18" HDPE	27.23'	0.50%
SD-MA7-2	18" HDPE	105.63'	0.50%
SD-MA7-3	18" RCP	32.00'	0.50%
SD-MA7-4	18" HDPE	124.00'	0.50%
SD-MA8-1	18" HDPE	16.37'	0.50%
SD-MA8-2	18" HDPE	74.17'	0.50%
SD-MA8-3	18" RCP	32.00'	0.50%

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REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS

STORM SEWER TABLES

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18898
CHRIS HOLLOWAY

10/9/26

CERTIFICATE OF AUTHORIZATION
Holloway Engineering, Surveying & Civil Design, PLLC
#1879
ARKANSAS - ENGINEERING

JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

C2.04

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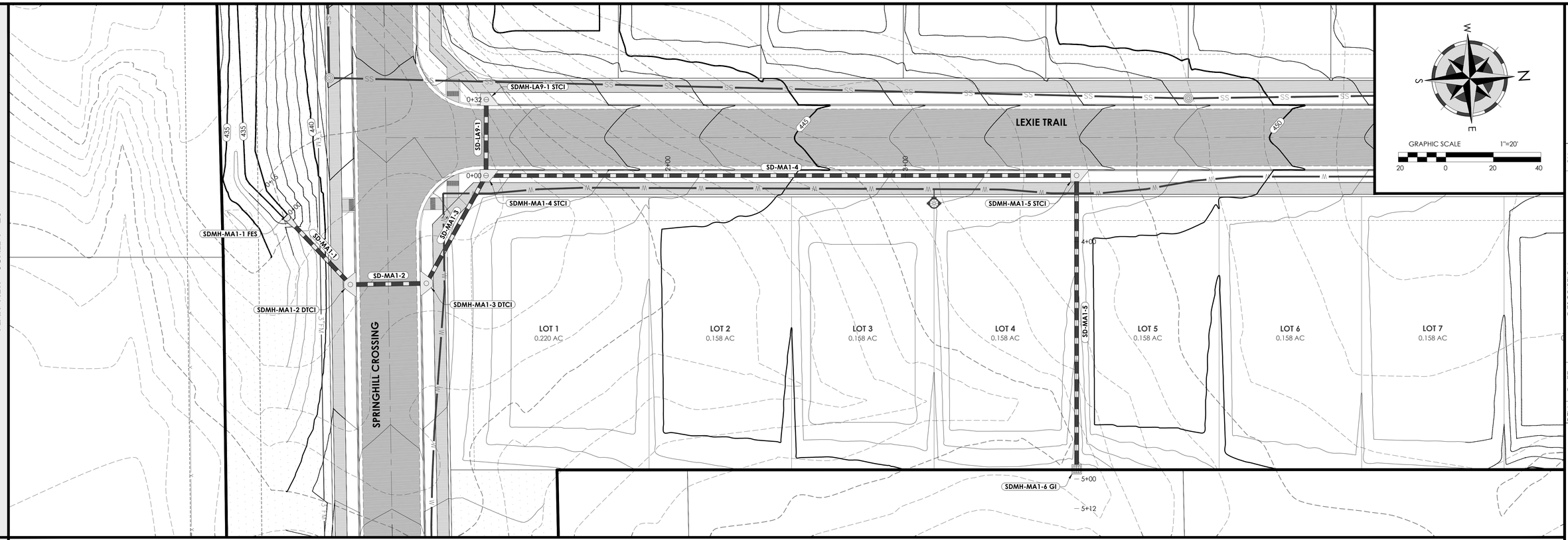
PLAN VIEW - SCALE 1"=20'



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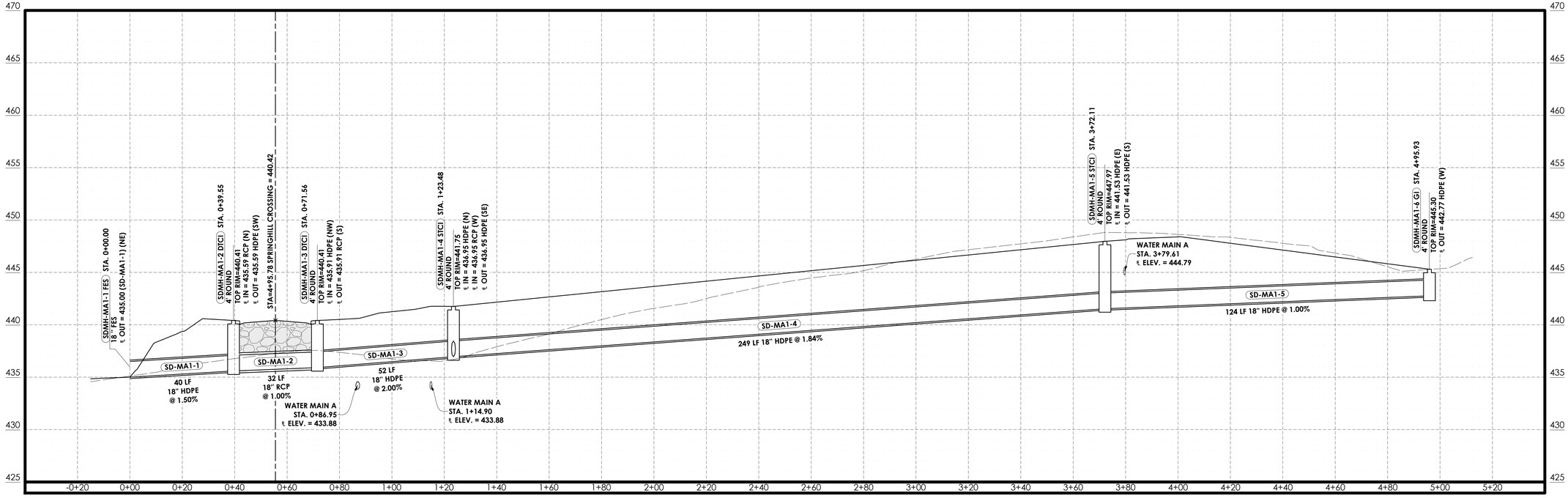

PROPOSED
EXISTING

STORM SEWER MAIN 1
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

CLASS 7 BACKFILL MIN.
95% COMPACTION (TYP.)

Holloway Engineering, Surveying & Civil Design

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SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS

STORM SEWER P&P MAIN 1

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18998
ERIC HOLLOWAY
10/9/26

CERTIFICATE OF AUTHORIZATION
Holloway Engineering, Surveying & Civil Design, PLLC
#1879
ARKANSAS REGISTERED ENGINEERING CORPORATION

JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

C2.05

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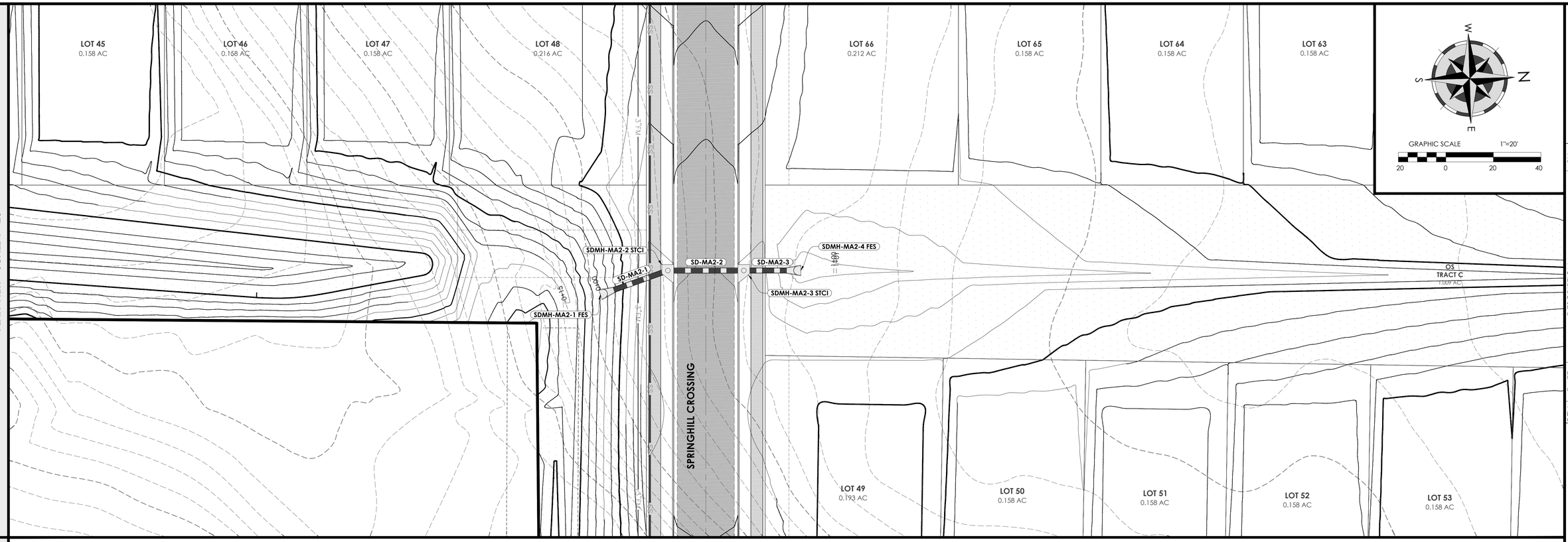

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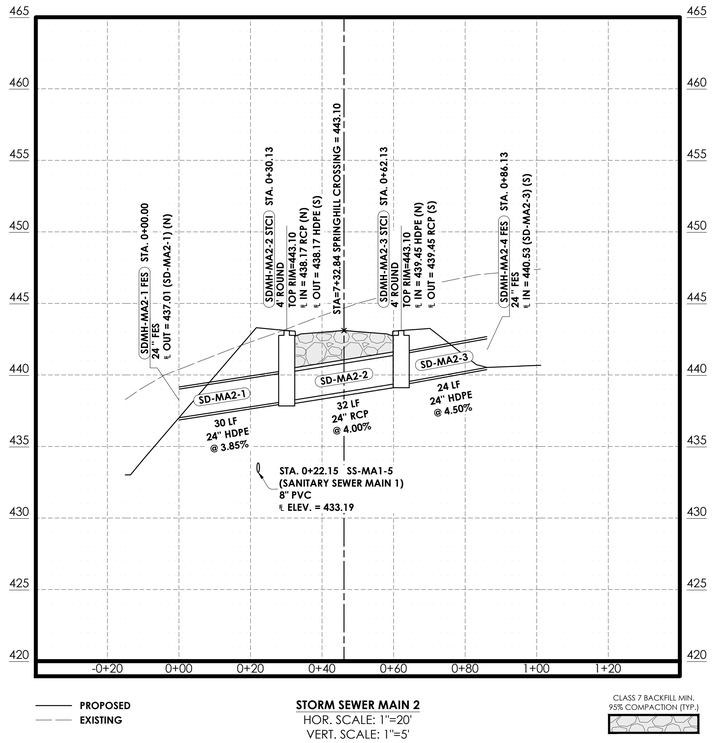

PROPOSED
EXISTING

STORM SEWER MAIN 2
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

CLASS 7 BACKFILL MIN.
95% COMPACTION (TYP.)

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REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS

STORM SEWER P&P MAIN 2

STATE OF ARKANSAS
ERIC HOLLOWAY
No. 18998
LICENSED PROFESSIONAL ENGINEER
10/9/26

CERTIFICATE OF AUTHORIZATION
Holloway Engineering, Surveying & Civil Design, PLLC
#1879
EXPIRES 12/31/27

JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

C2.06

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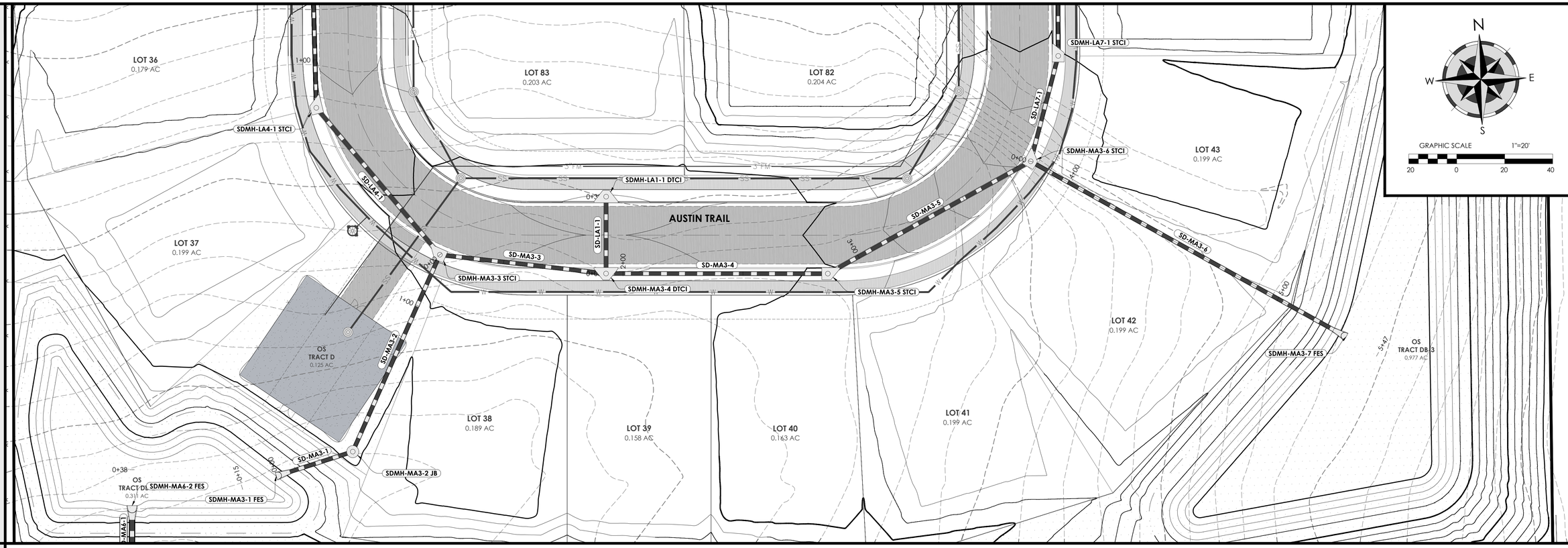

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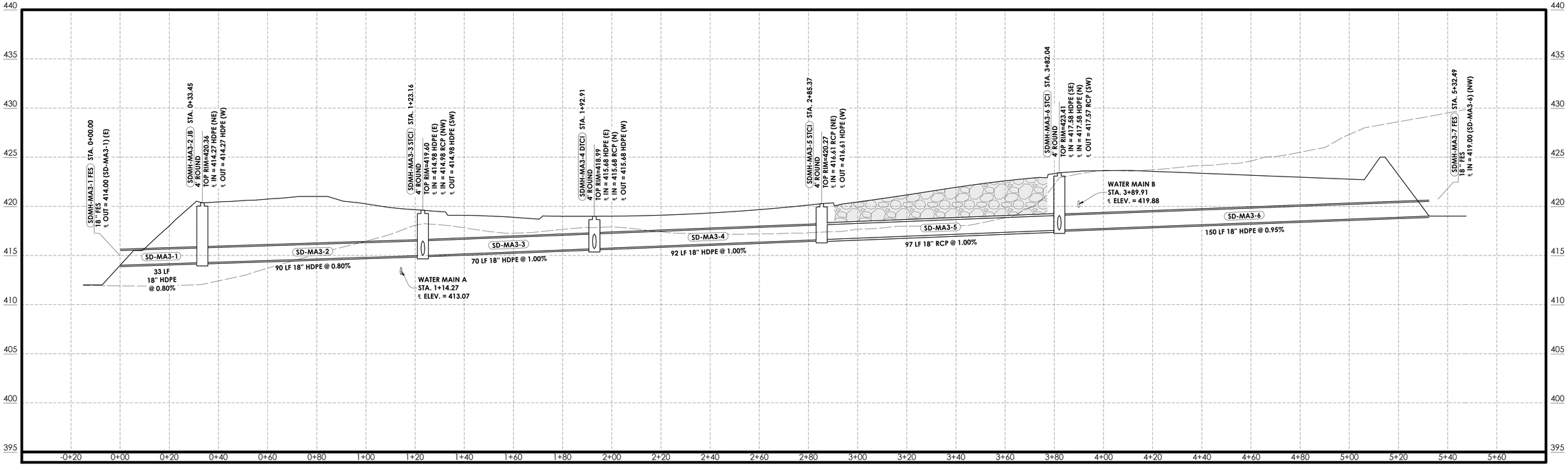

PROPOSED
EXISTING

STORM SEWER MAIN 3
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

CLASS 7 BACKFILL MIN.
95% COMPACTION (TYP.)

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REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS

STORM SEWER P&P MAIN 3

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18998
ERIC HOLLOWAY
10/9/26

CERTIFICATE OF AUTHORIZATION
Holloway Engineering, Surveying & Civil Design, PLLC
#1879
EXPIRES 12/31

JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

C2.07

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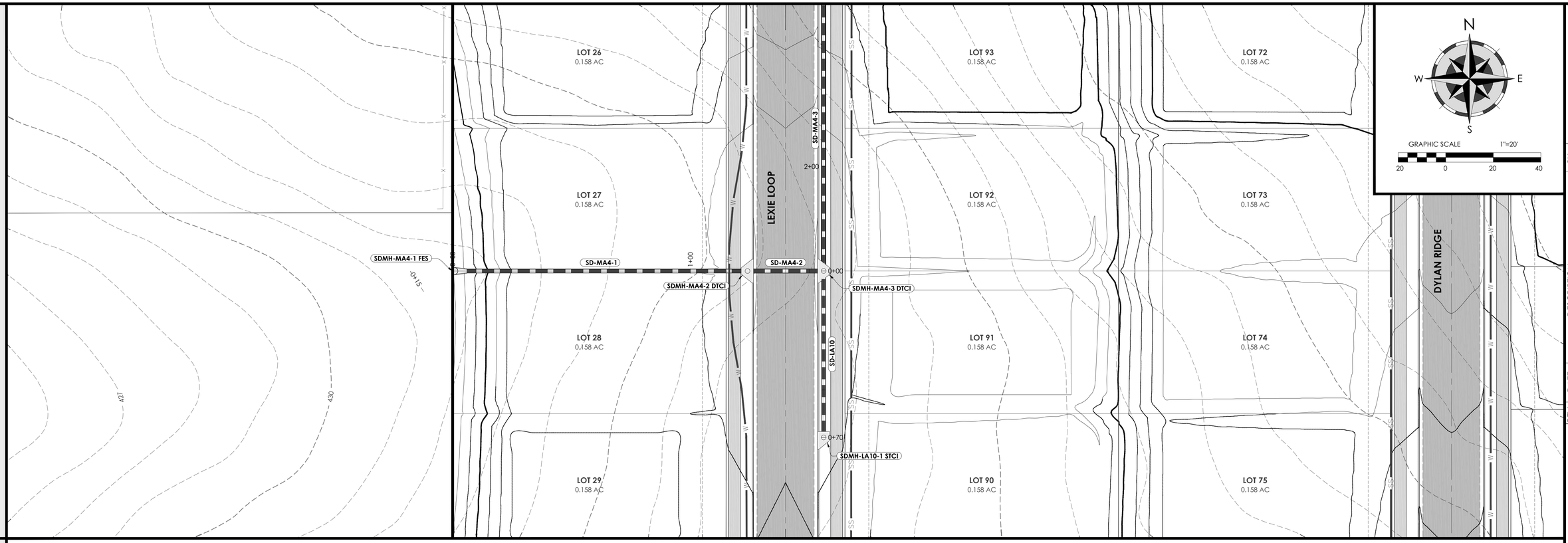

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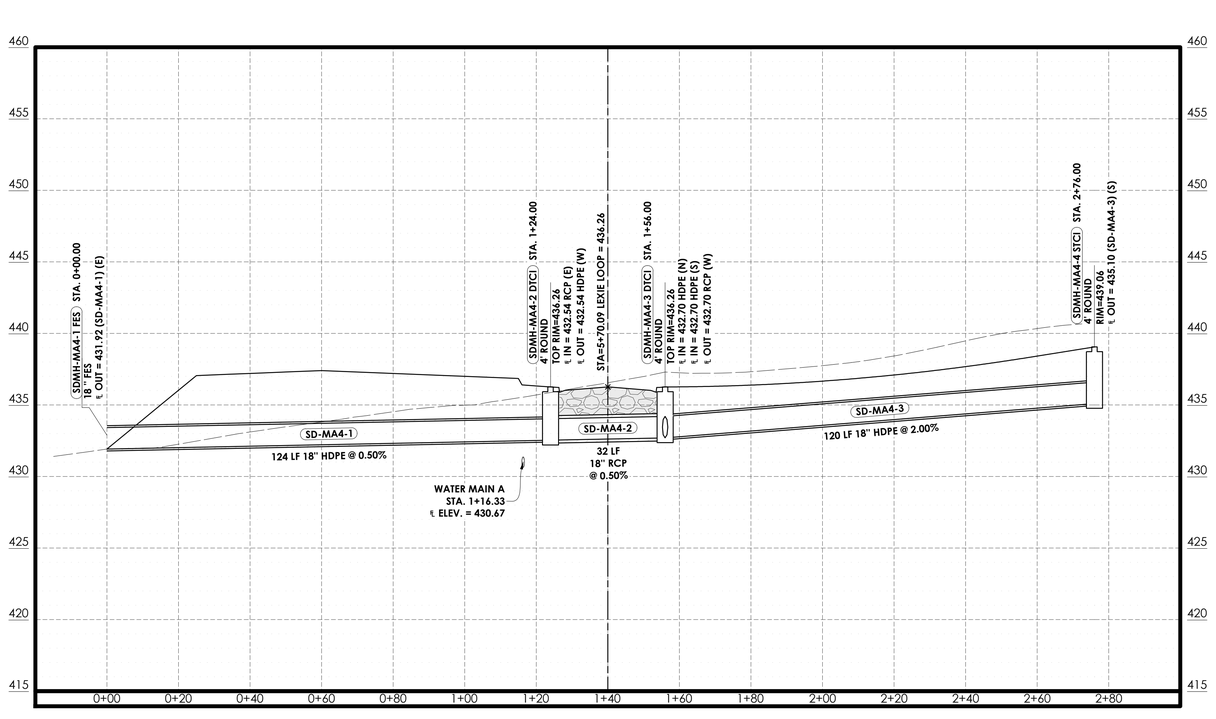

STORM SEWER MAIN 4
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

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REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS

STORM SEWER P&P MAIN 4

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18898
ERIC HOLLOWAY
10/9/26

CERTIFICATE OF AUTHORIZATION
Holloway Engineering, Surveying & Civil Design, PLLC
#1879
ARKANSAS

JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

C2.08

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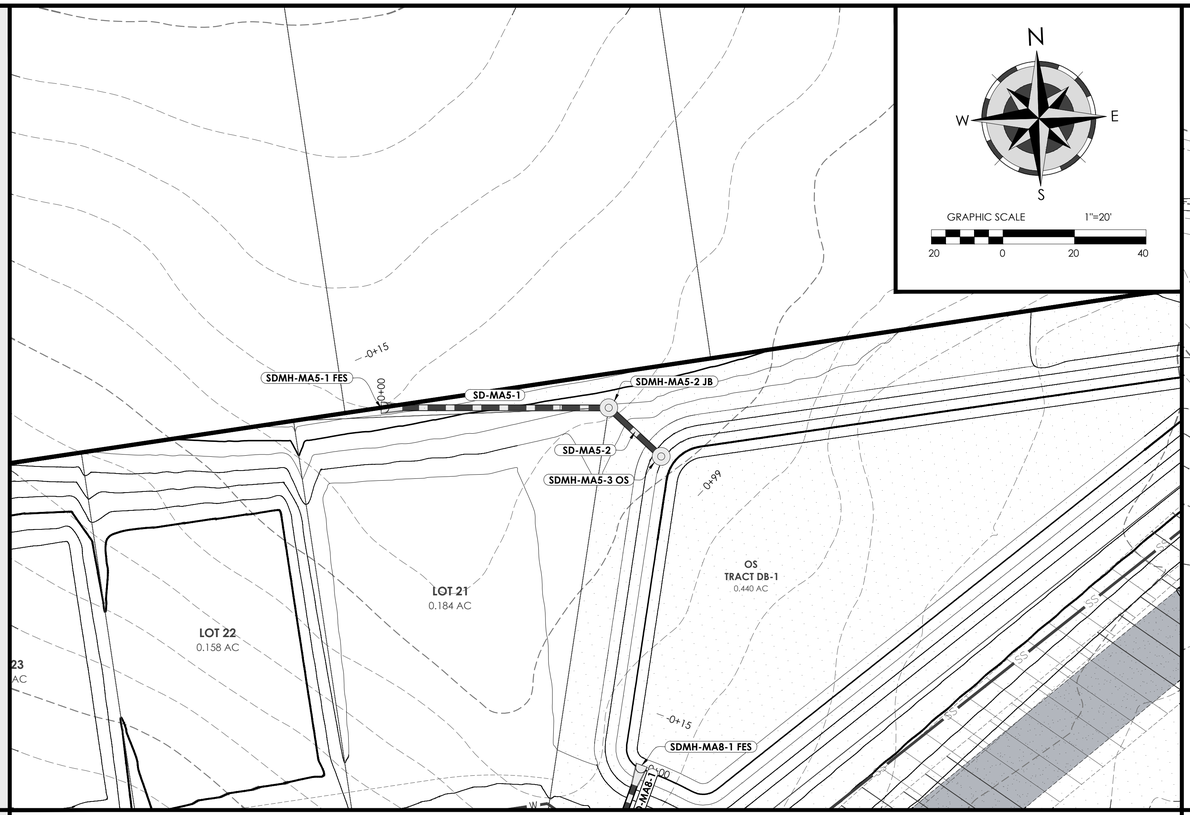
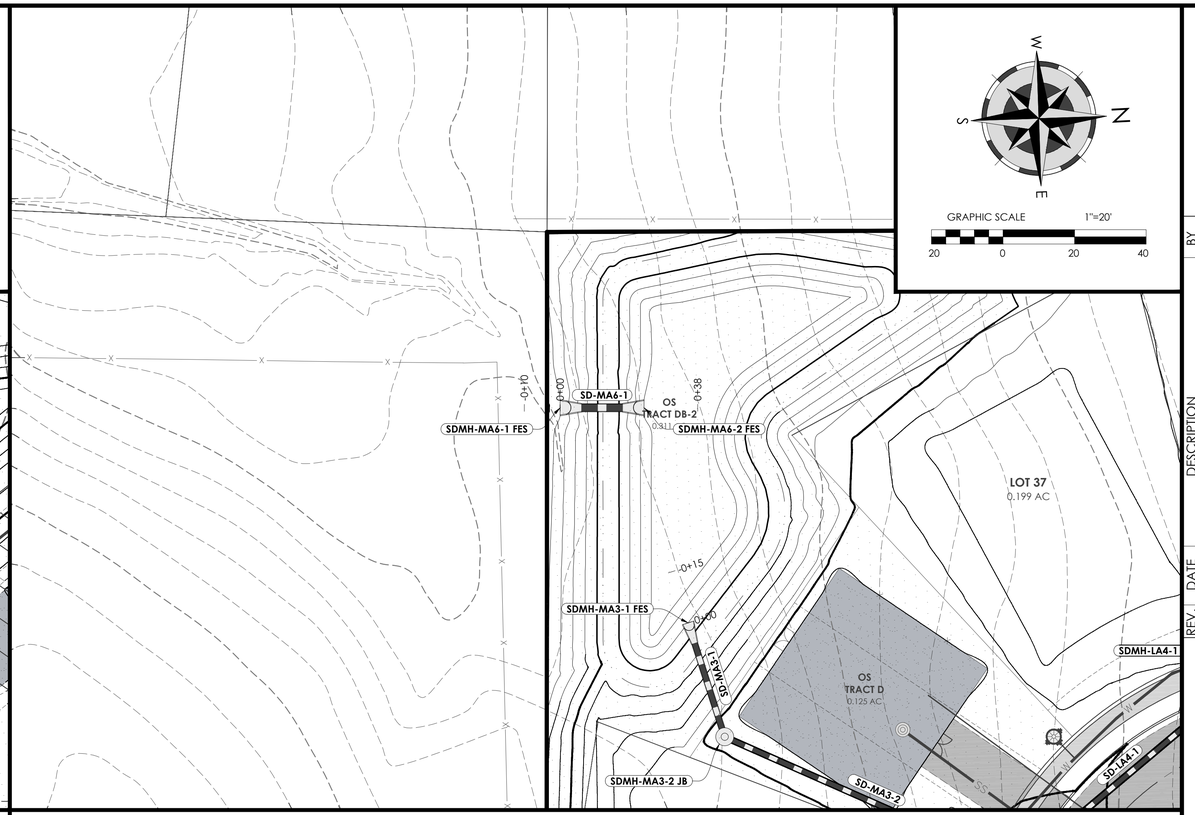
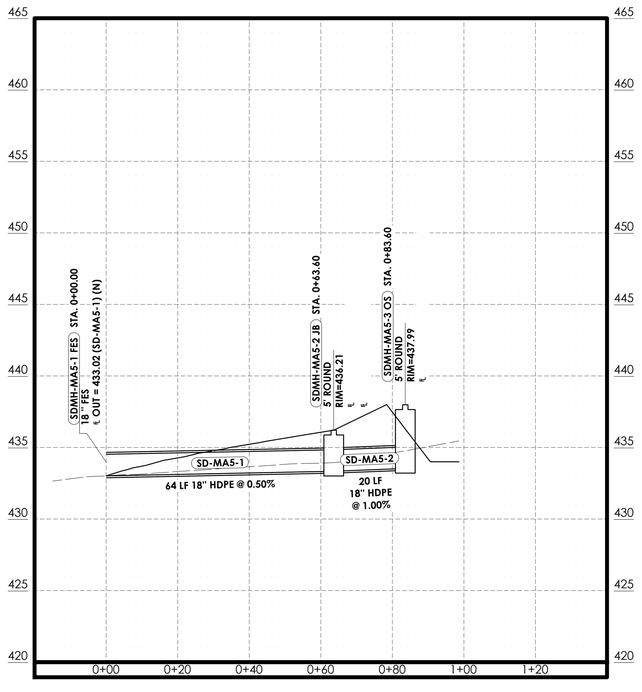
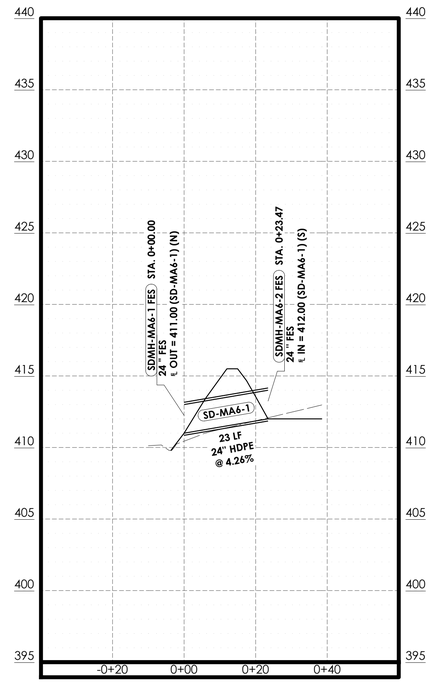




PROFILE VIEW - SCALE 1"=20'





PROPOSED
EXISTING

STORM SEWER MAIN 5
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

CLASS 7 BACKFILL MIN.
95% COMPACTION (TYP.)

PROPOSED
EXISTING

STORM SEWER MAIN 6
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

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REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS

STORM SEWER P&P MAINS 5 & 6

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18898
ERIC HOLLOWAY
10/9/26

CERTIFICATE OF AUTHORIZATION
Holloway Engineering, Surveying & Civil Design, PLLC
#1879
ARKANSAS - ENGINEERING

JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

C2.09

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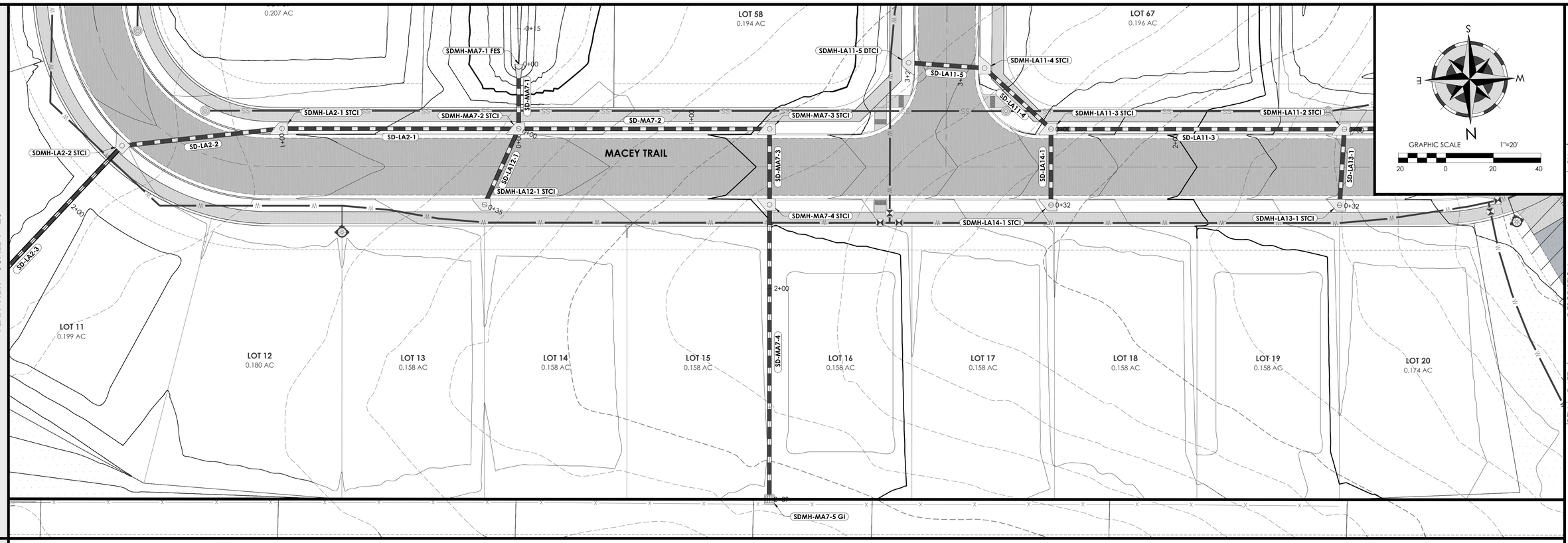
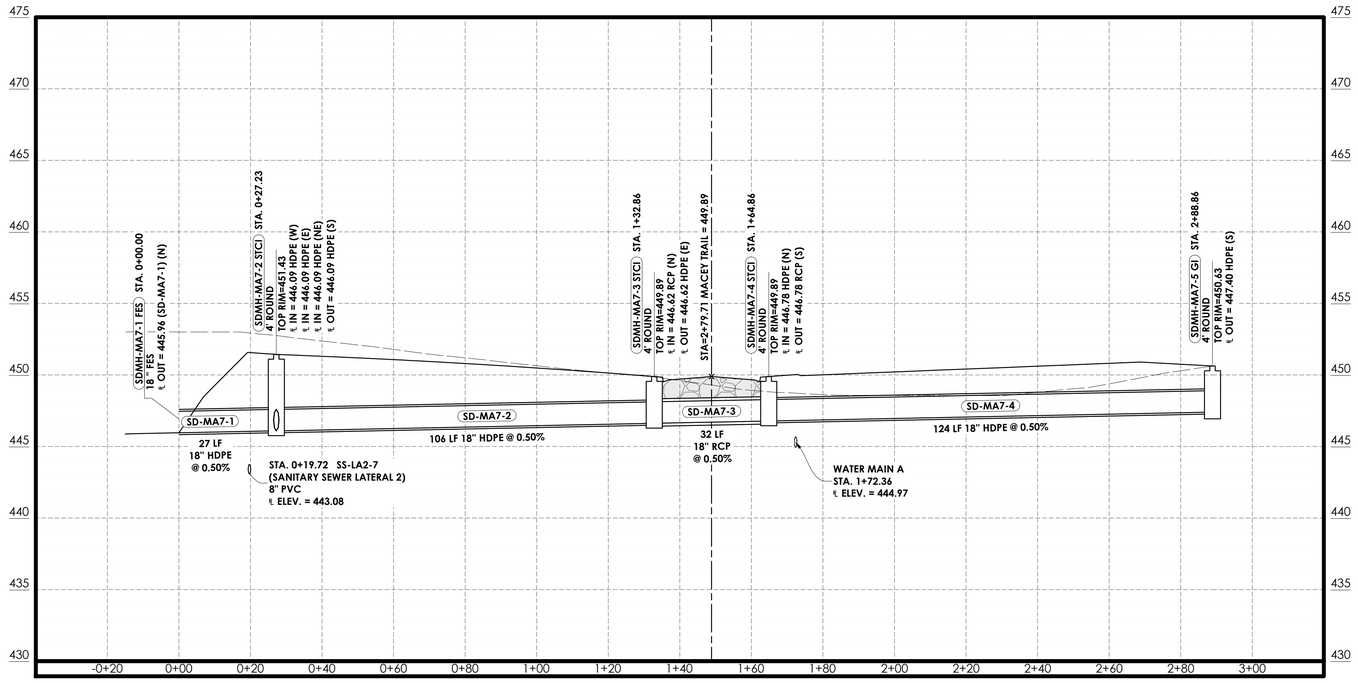
PLAN VIEW - SCALE 1"=20'



PROFILE VIEW - SCALE 1"=20'



PROPOSED
EXISTING

STORM SEWER MAIN 7
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

CLASS 7 BACKFILL MIN.
95% COMPACTION (TYP.)

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SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS

STORM SEWER P&P MAIN 7

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18998
ERIC HOLLOWAY
10/9/26

CERTIFICATE OF AUTHORIZATION
Holloway Engineering, Surveying & Civil Design, PLLC
#1879
ARKANSAS ENGINEER

JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

C2.10

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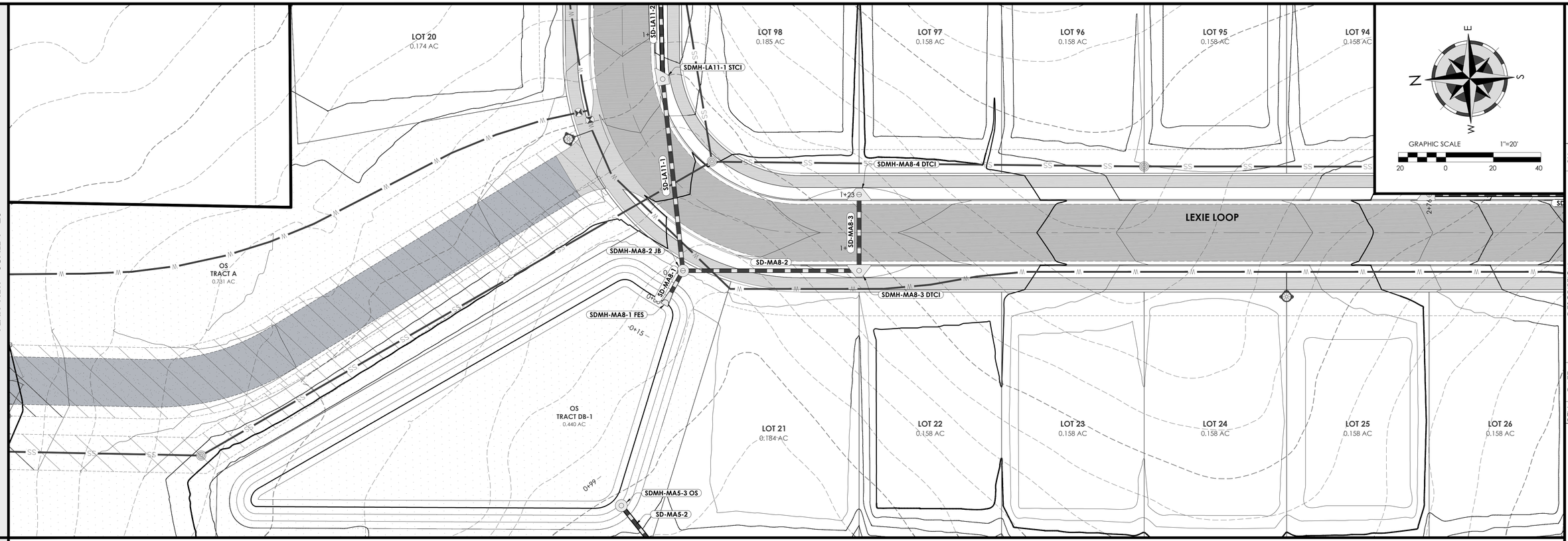
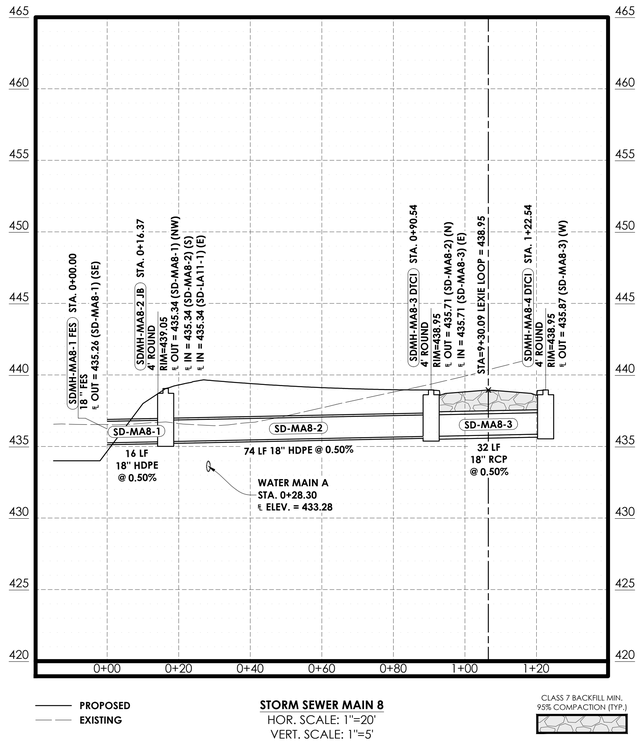


PROFILE VIEW - SCALE 1"=20'



PROPOSED
EXISTING

STORM SEWER MAIN 8
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

CLASS 7 BACKFILL MIN.
95% COMPACTION (TYP.)

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REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS

STORM SEWER P&P MAIN 8

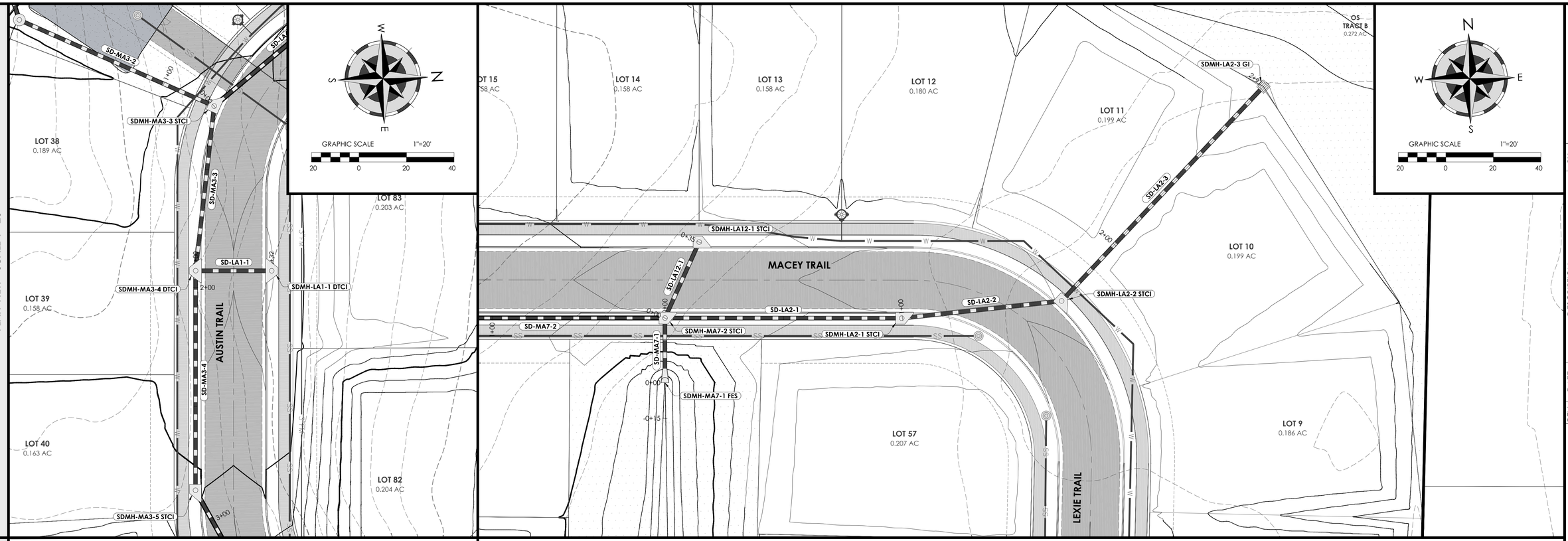
STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18998
ERIC HOLLOWAY
10/9/26

CERTIFICATE OF AUTHORIZATION
Holloway Engineering, Surveying & Civil Design, PLLC
#1879
EXPIRES 12/31/27

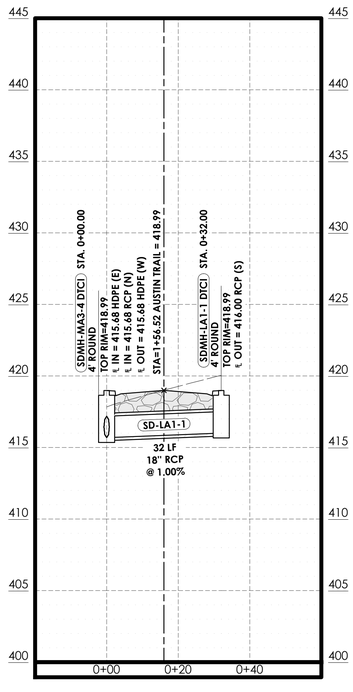
JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

C2.11

PLAN VIEW - SCALE 1"=20'



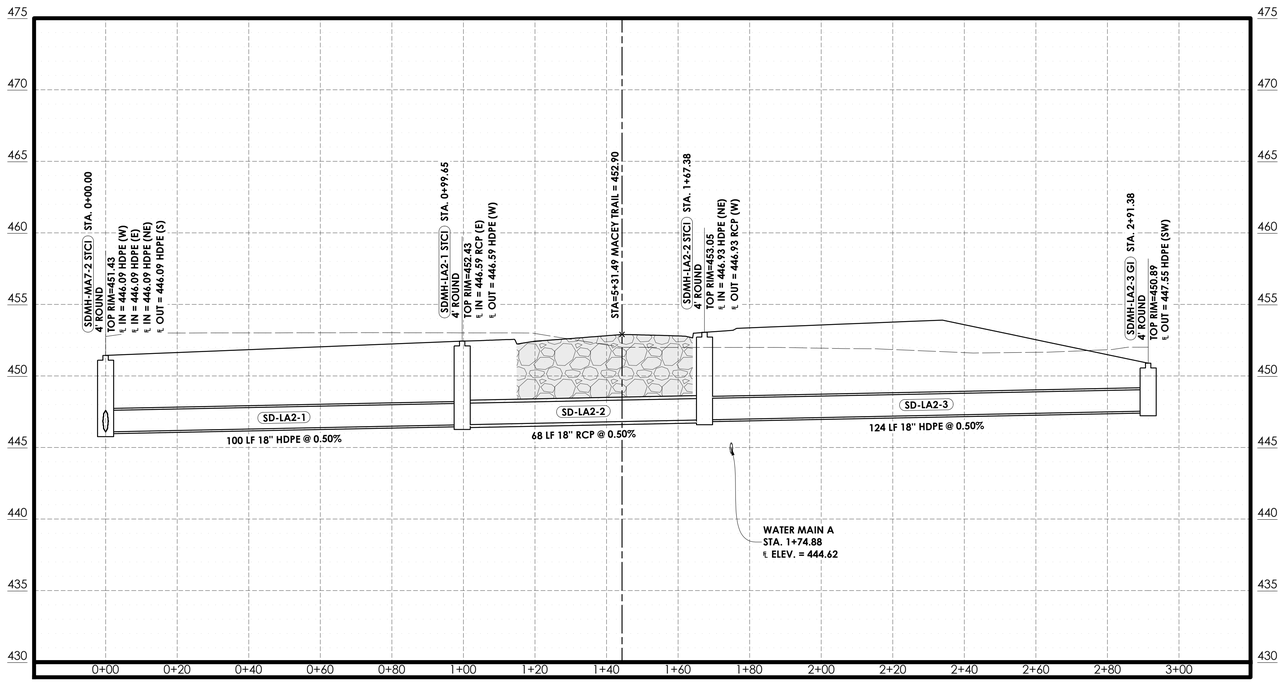
PROFILE VIEW - SCALE 1"=20'



PROPOSED
EXISTING

STORM SEWER LATERAL 1
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

CLASS 7 BACKFILL MIN.
95% COMPACTION (TYP.)



PROPOSED
EXISTING

STORM SEWER LATERAL 2
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

CLASS 7 BACKFILL MIN.
95% COMPACTION (TYP.)

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REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS

STORM SEWER P&P LATERALS 1 & 2

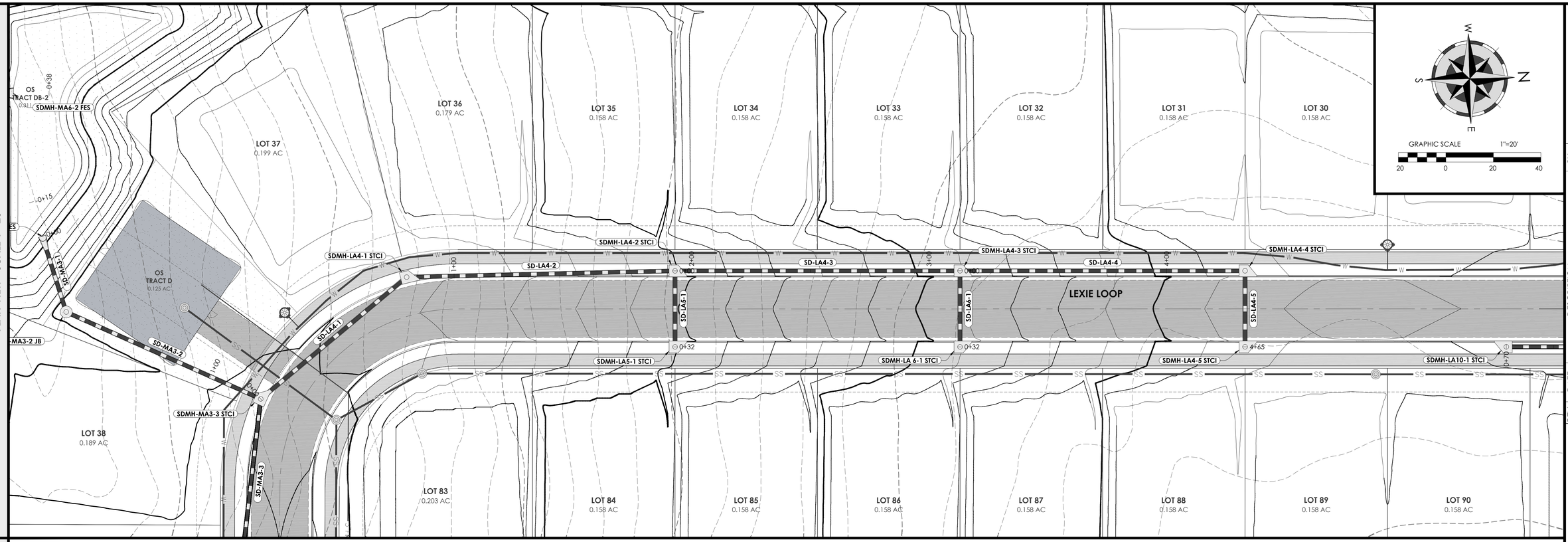
STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18898
ERIC HOLLOWAY
10/9/26

Holloway Engineering, Surveying & Civil Design, PLLC
#1879
CERTIFICATE OF AUTHORIZATION TO PRACTICE ENGINEERING IN ARKANSAS

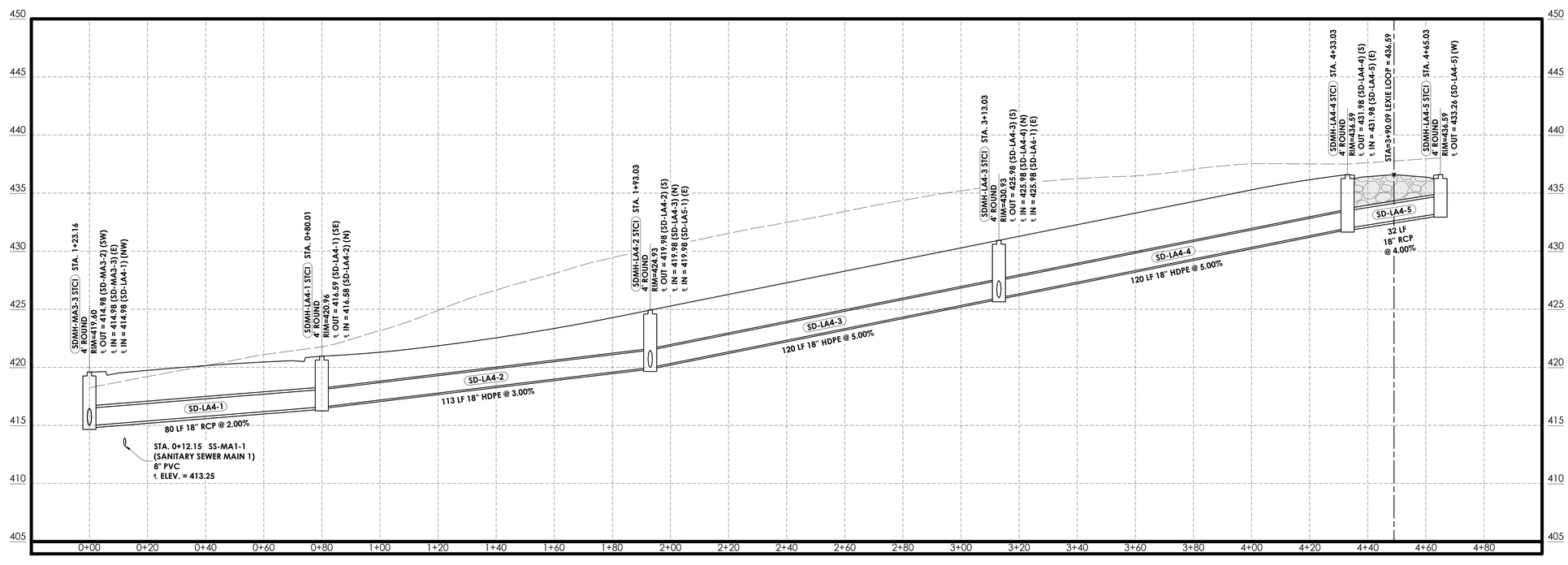
JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

C2.12

PLAN VIEW - SCALE 1"=20'



PROFILE VIEW - SCALE 1"=20'



PROPOSED
EXISTING

STORM SEWER LATERAL 4
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

CLASS 7 BACKFILL MIN.
95% COMPACTION (TYP.)

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REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS

STORM SEWER P&P LATERAL 4

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18898
ERIC HOLLOWAY
10/9/26

CERTIFICATE OF AUTHORIZATION
Holloway Engineering, Surveying & Civil Design, PLLC
#1879
ARKANSAS

JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

C2.13

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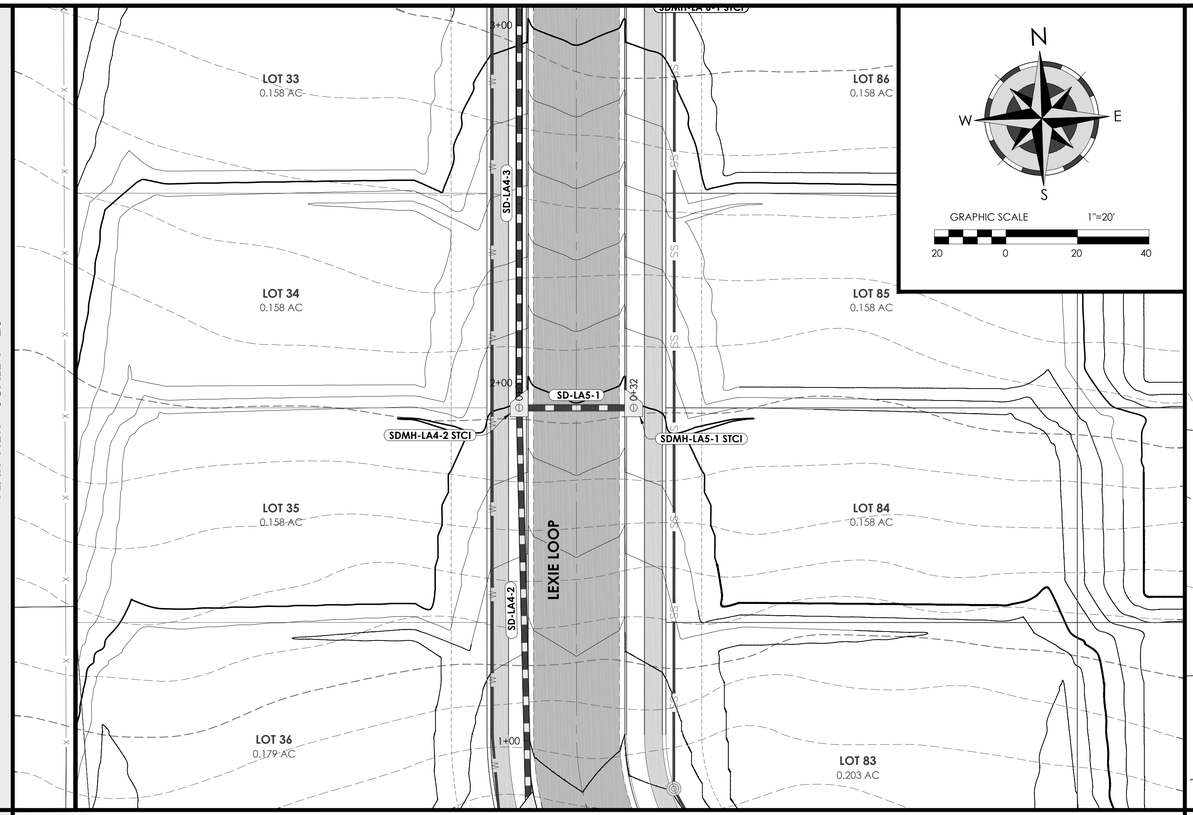
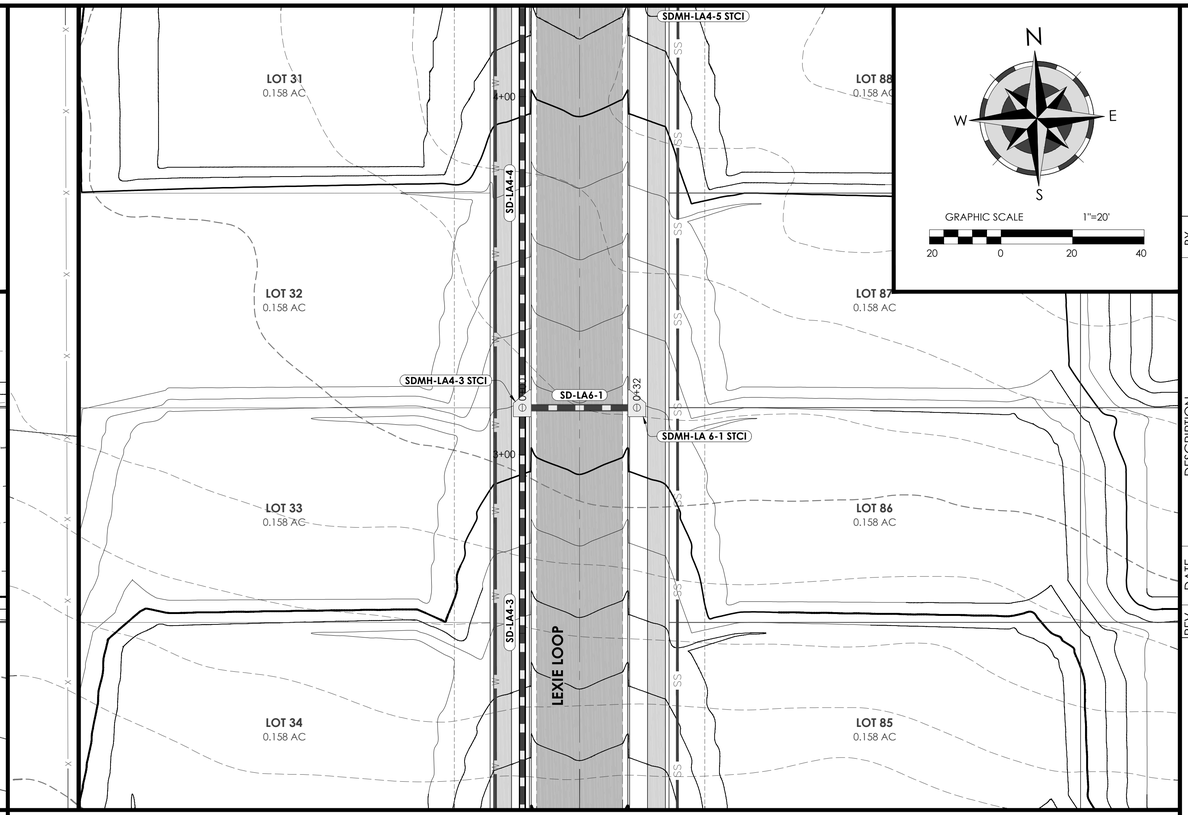
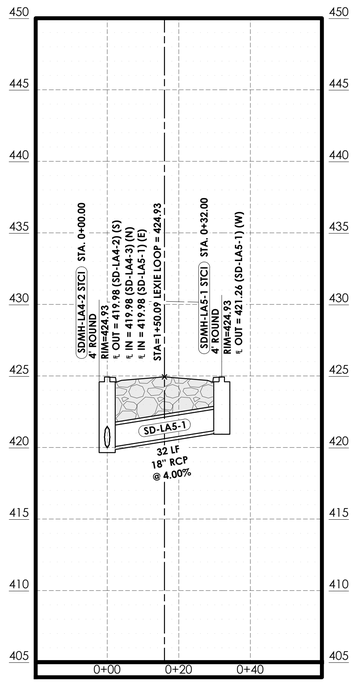
PLAN VIEW - SCALE 1"=20'

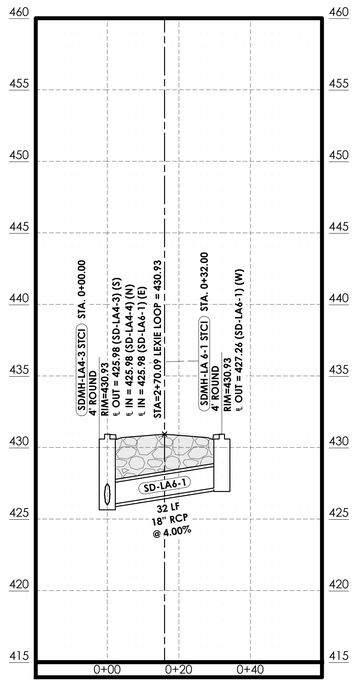




PROFILE VIEW - SCALE 1"=20'



PROPOSED
EXISTING
STORM SEWER LATERAL 5
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'
CLASS 7 BACKFILL MIN. 95% COMPACTION (TYP.)



PROPOSED
EXISTING
STORM SEWER LATERAL 6
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'
CLASS 7 BACKFILL MIN. 95% COMPACTION (TYP.)

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REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS

STORM SEWER P&P LATERALS 5 & 6

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18898
ERIC HOLLOWAY
10/9/26

CERTIFICATE OF AUTHORIZATION
Holloway Engineering, Surveying & Civil Design, PLLC
#1879
CERTIFICATE OF AUTHORIZATION EXPIRES AS - ENGINEERING

JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

C2.14

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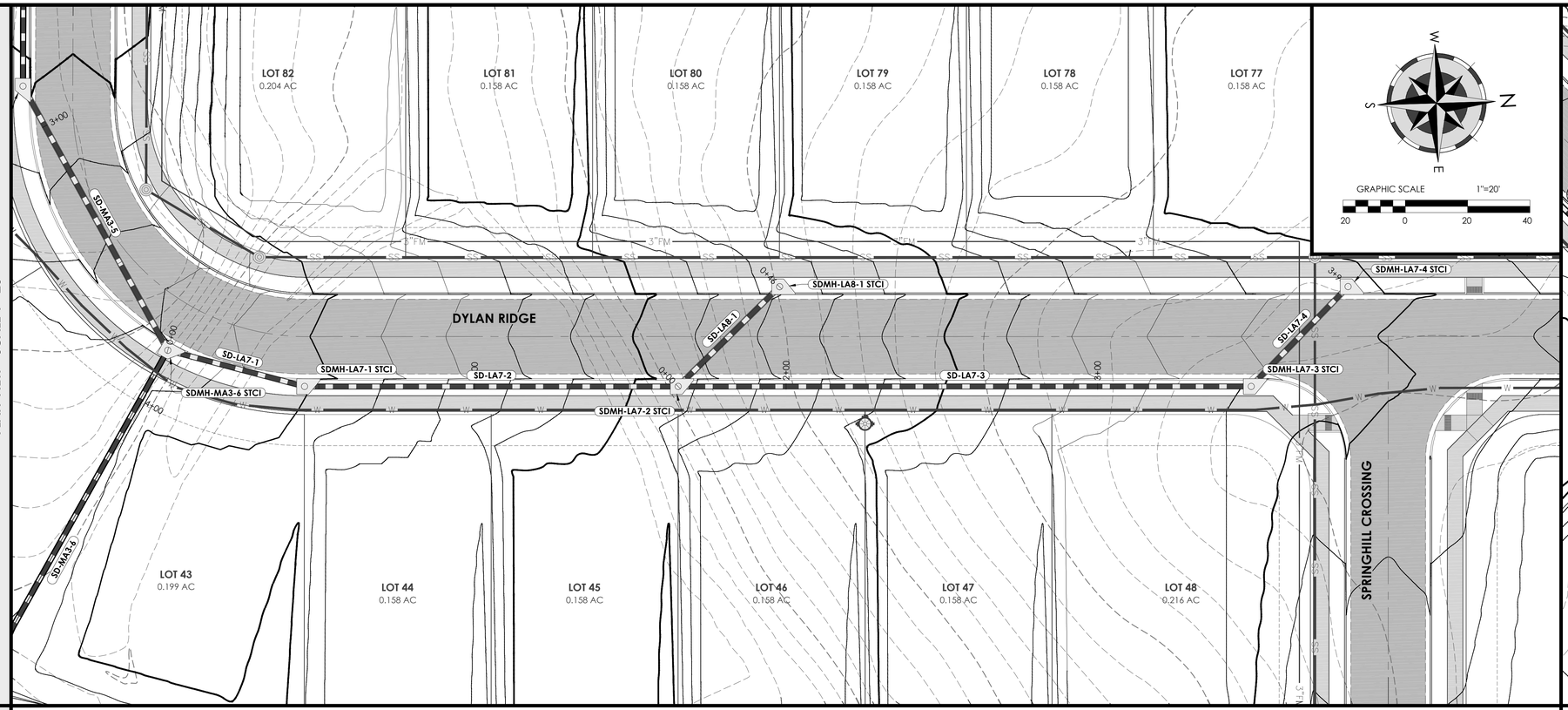
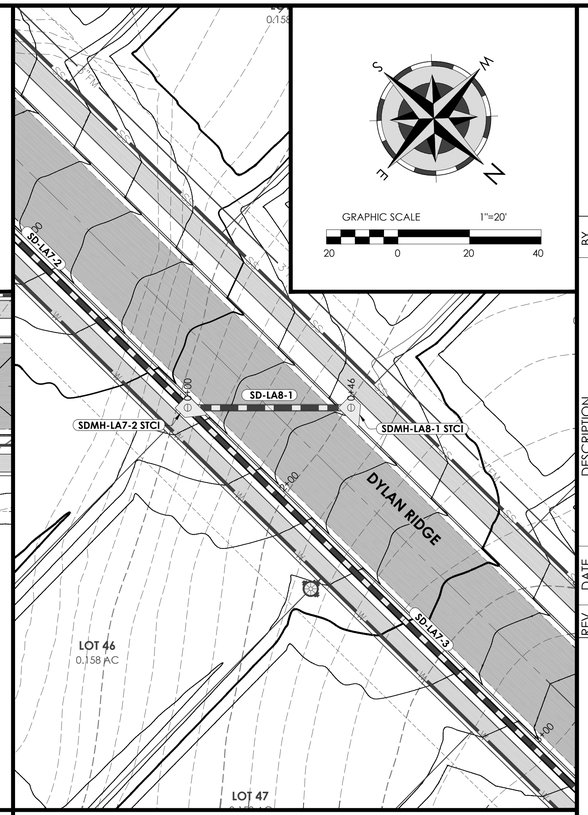
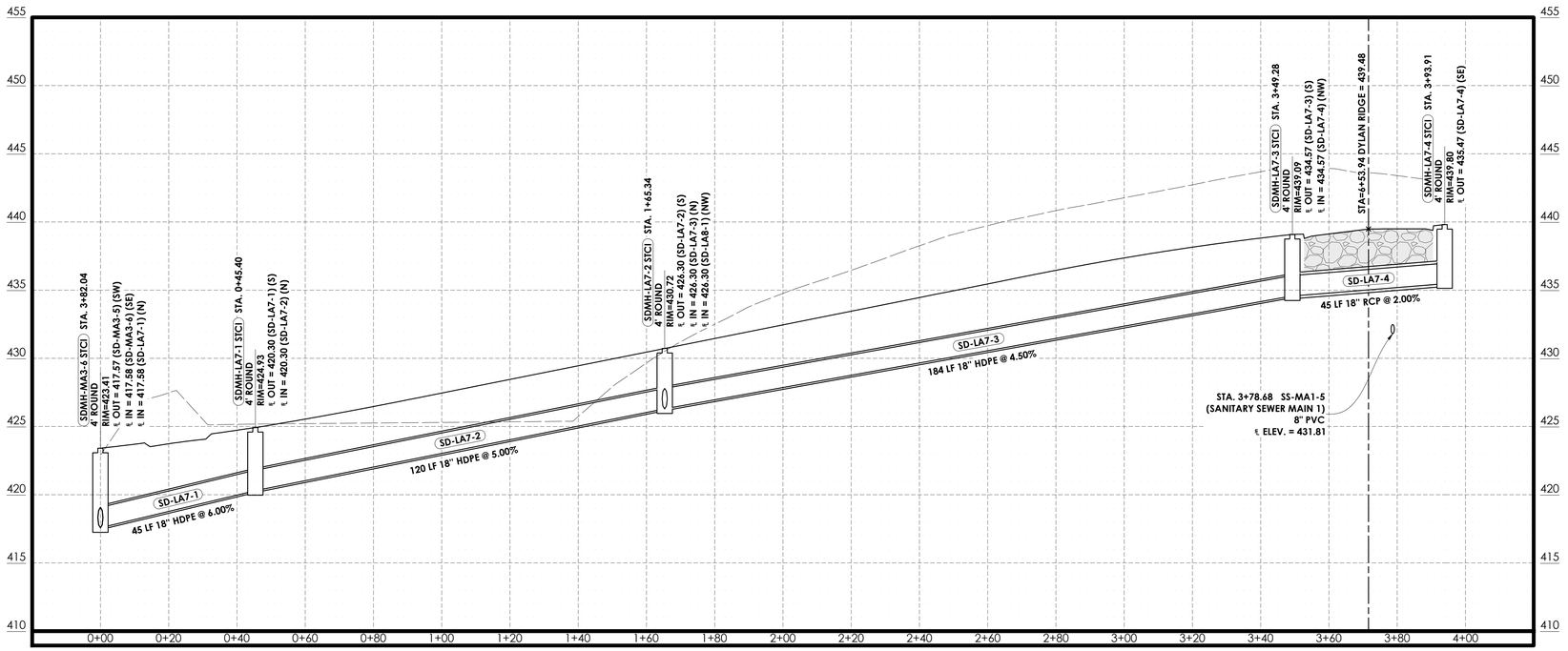
PLAN VIEW - SCALE 1"=20'





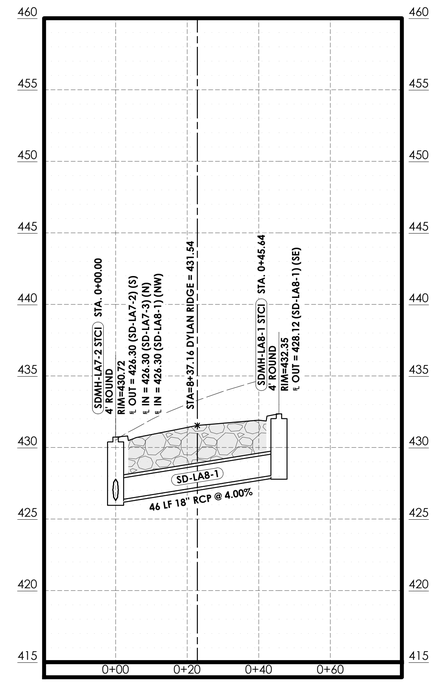
PROFILE VIEW - SCALE 1"=20'



PROPOSED
EXISTING

STORM SEWER LATERAL 7
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

CLASS 7 BACKFILL MIN.
95% COMPACTION (TYP.)



PROPOSED
EXISTING

STORM SEWER LATERAL 8
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

CLASS 7 BACKFILL MIN.
95% COMPACTION (TYP.)

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REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS

STORM SEWER P&P LATERALS 7 & 8

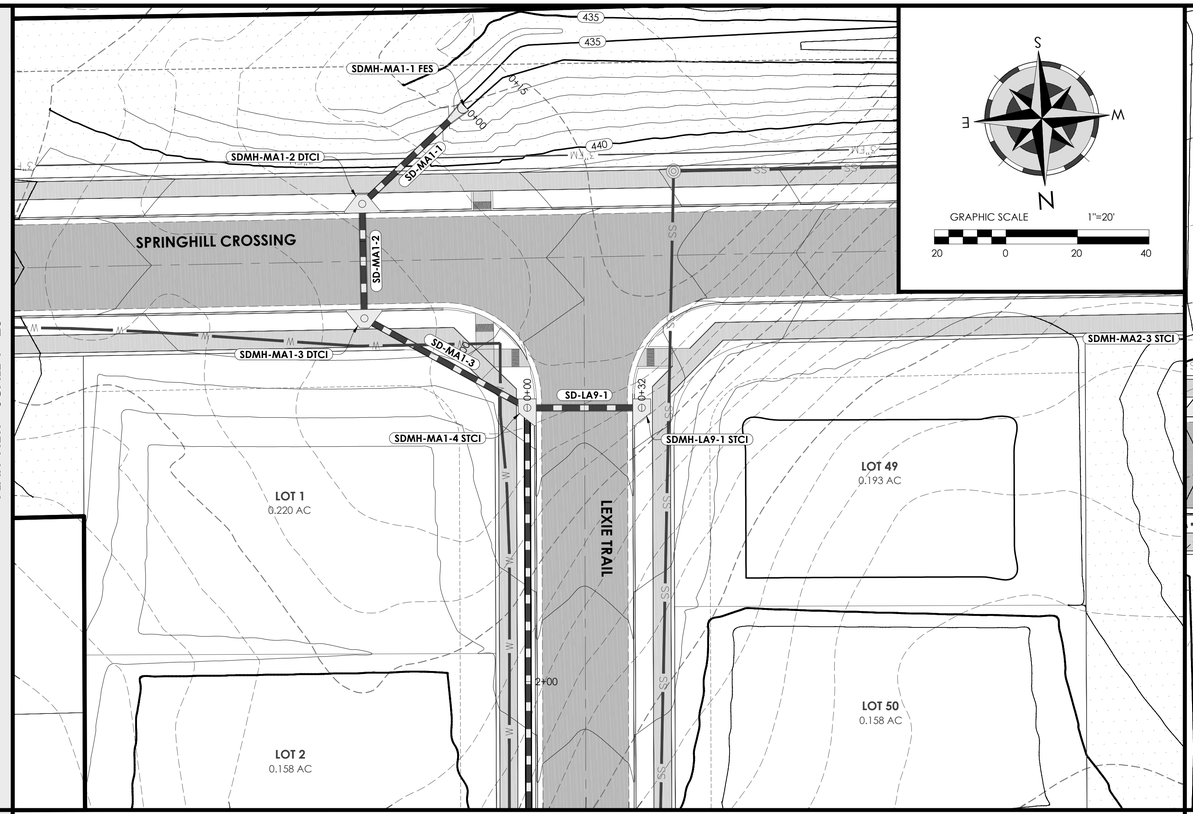
STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18898
ERIC HOLLOWAY
10/9/26

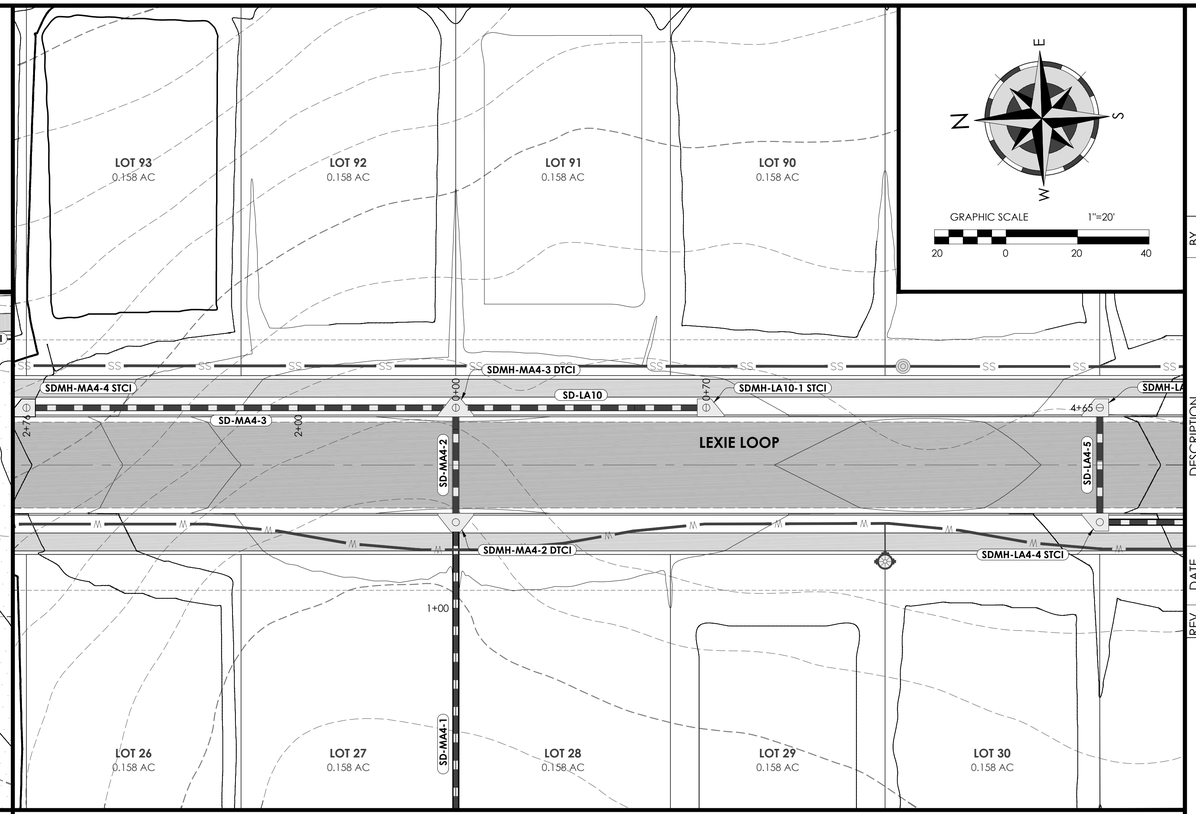
CERTIFICATE OF AUTHORIZATION
Holloway Engineering, Surveying & Civil Design, PLLC
#1879
CERTIFICATE OF AUTHORIZATION EXPIRES 6/30/2027
ARKANSAS - ENGINEERING

JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

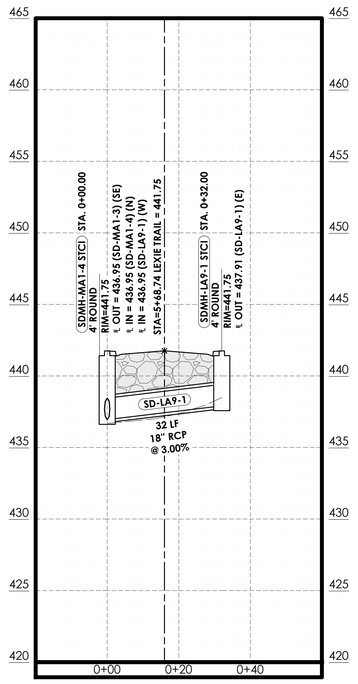
C2.15

PLAN VIEW - SCALE 1"=20'





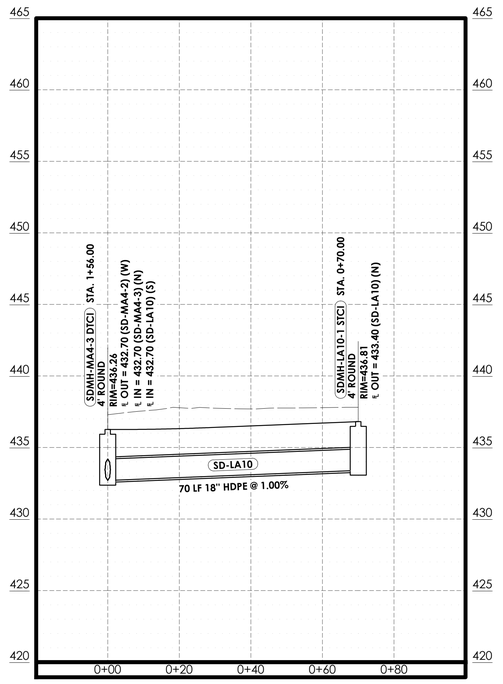
PROFILE VIEW - SCALE 1"=20'



PROPOSED
EXISTING

STORM SEWER LATERAL 9
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

CLASS 7 BACKFILL MIN. 95% COMPACTION (TYP.)



PROPOSED
EXISTING

STORM SEWER LATERAL 10
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

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REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS

STORM SEWER P&P LATERALS 9 & 10

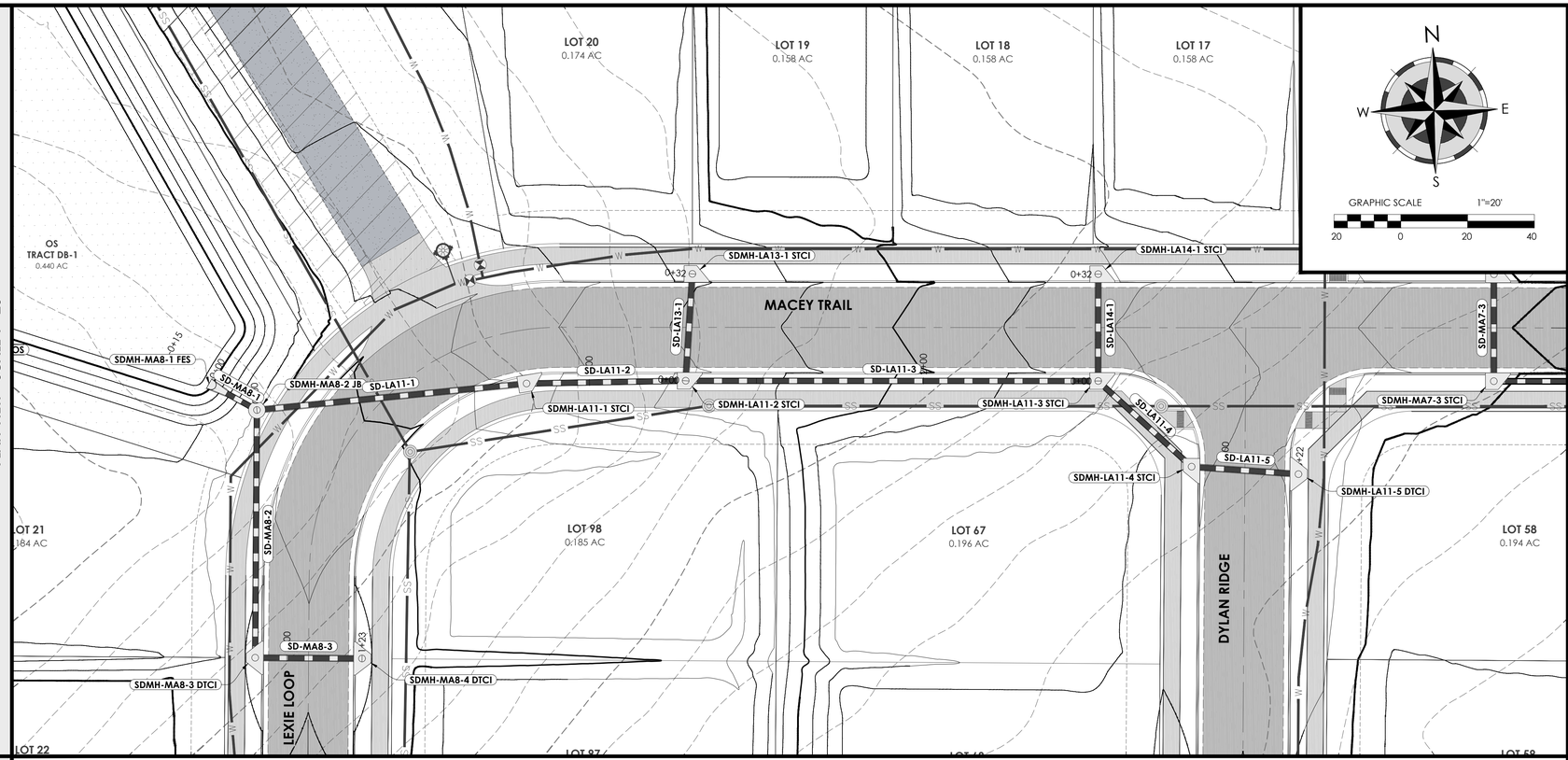
STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18998
ERIC HOLLOWAY
10/9/26

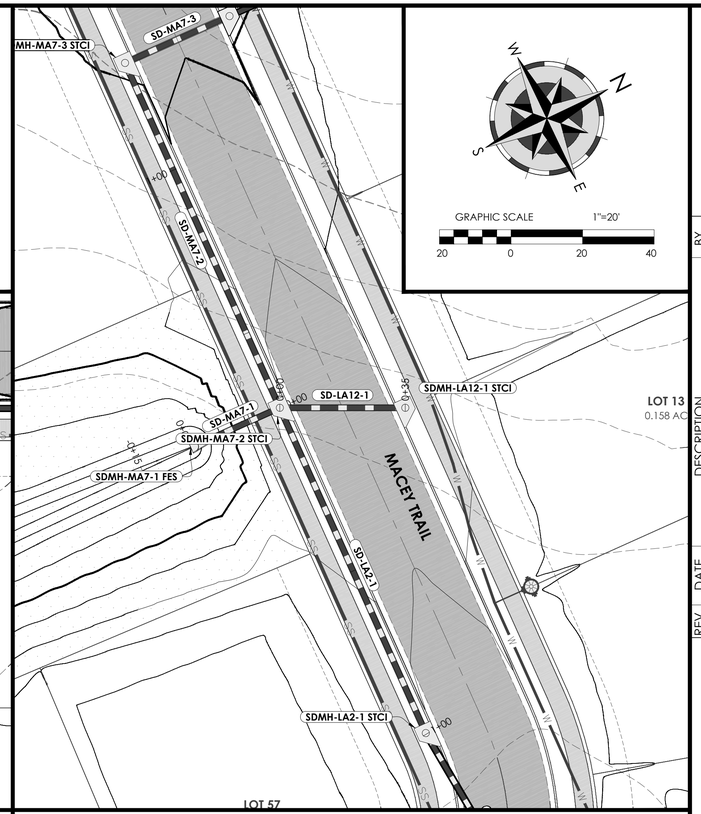
CERTIFICATE OF AUTHORIZATION
Holloway Engineering, Surveying & Civil Design, PLLC
#1879
ARKANSAS ENGINEER

JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

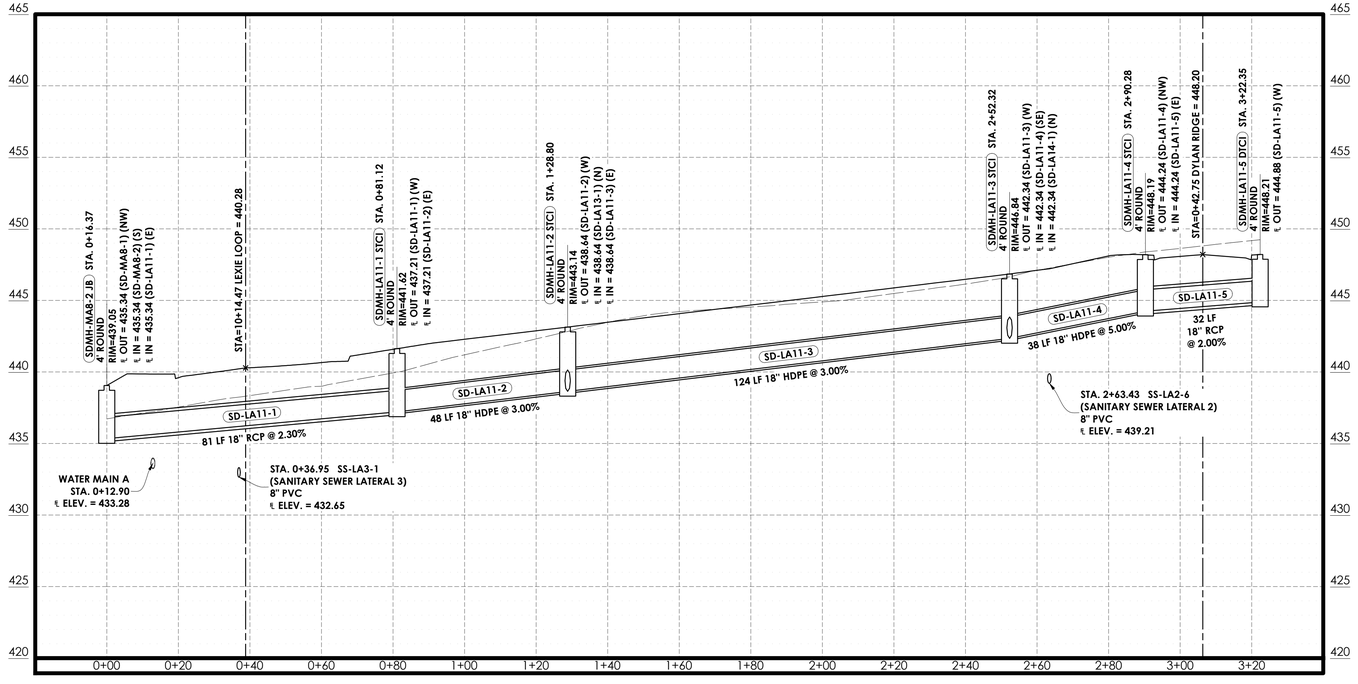
C2.16

PLAN VIEW - SCALE 1"=20'





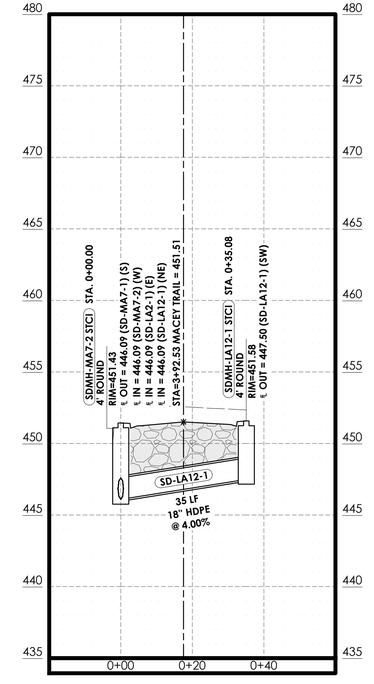
PROFILE VIEW - SCALE 1"=20'



PROPOSED
EXISTING

STORM SEWER LATERAL 11
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

CLASS 7 BACKFILL MIN.
95% COMPACTION (TYP.)



PROPOSED
EXISTING

STORM SEWER LATERAL 12
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

CLASS 7 BACKFILL MIN.
95% COMPACTION (TYP.)

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REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS

STORM SEWER P&P LATERALS 11 & 12

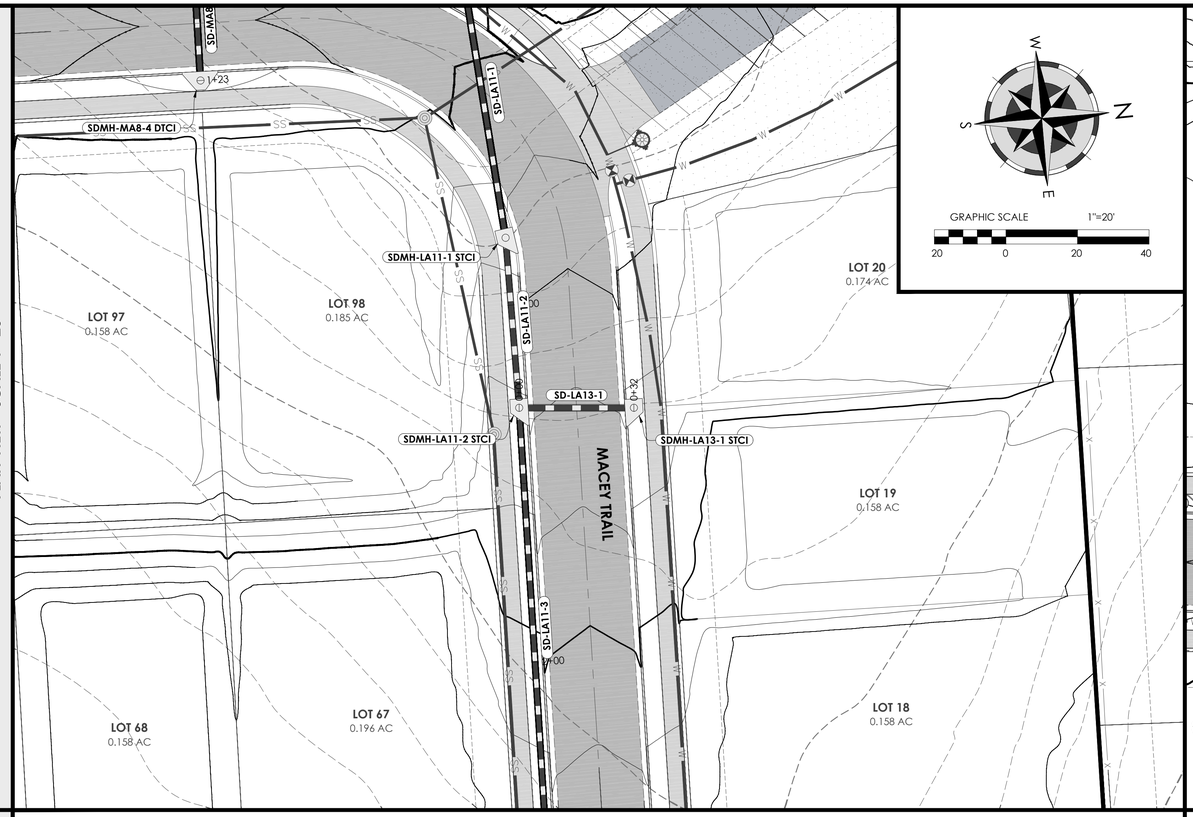
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 18998
ERIC HOLLOWAY
10/9/26

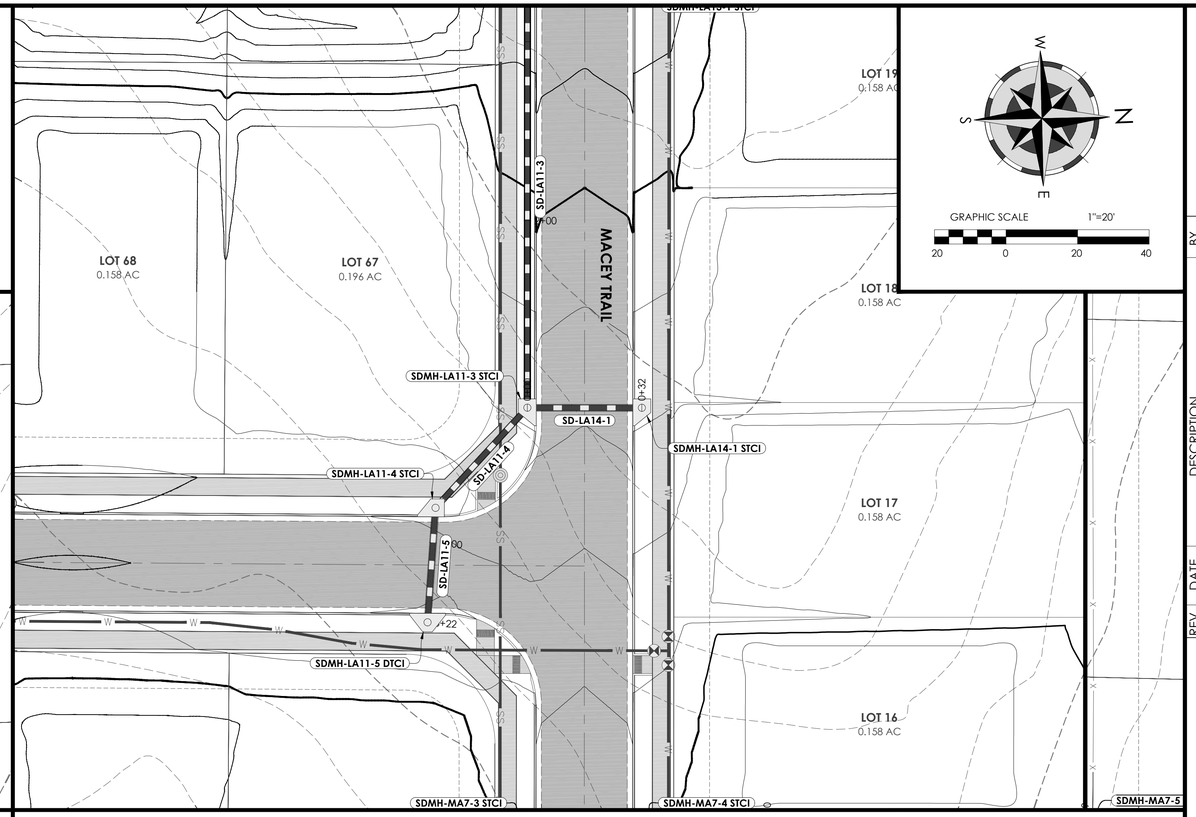
CERTIFICATE OF AUTHORIZATION
Holloway Engineering, Surveying & Civil Design, PLLC
#1879
EXPIRES: 12/31/2027

JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

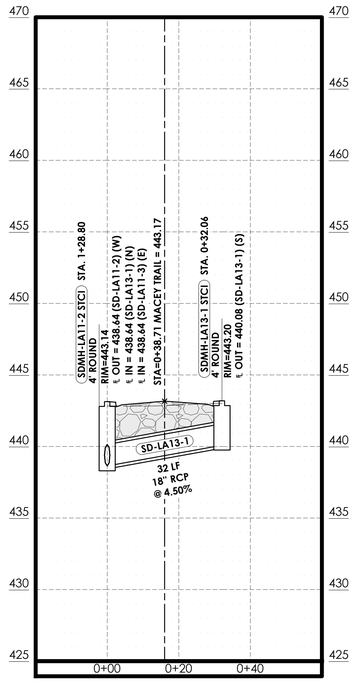
C2.17

PLAN VIEW - SCALE 1"=20'

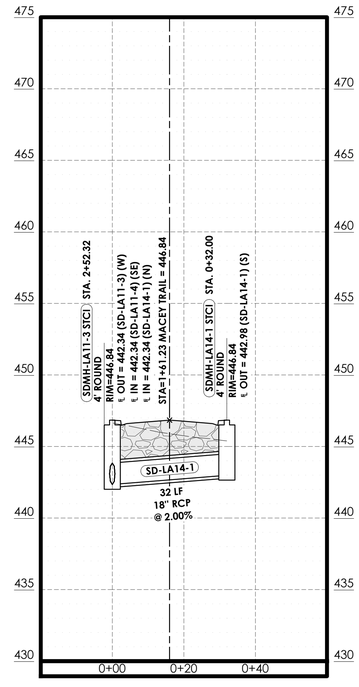




PROFILE VIEW - SCALE 1"=20'



PROPOSED STORM SEWER LATERAL 13
EXISTING
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'
CLASS 7 BACKFILL MIN. 95% COMPACTION (TYP.)



PROPOSED STORM SEWER LATERAL 14
EXISTING
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'
CLASS 7 BACKFILL MIN. 95% COMPACTION (TYP.)

Holloway Engineering, Surveying & Civil Design

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REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS

STORM SEWER P&P LATERALS 13 & 14

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18998
ERIC HOLLOWAY
10/9/26

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Holloway Engineering, Surveying & Civil Design, PLLC
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JOB NO.: 2026-071
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C2.18

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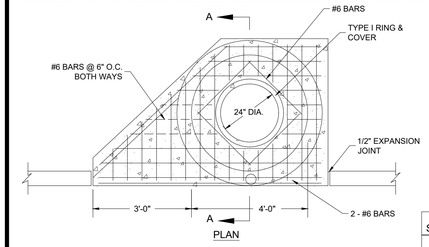
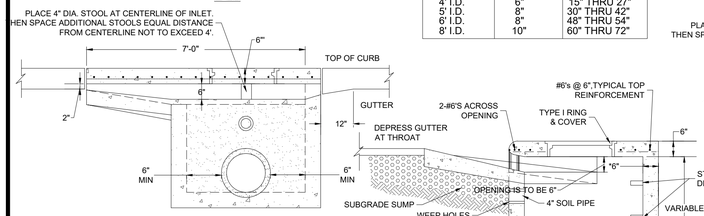
GENERAL NOTES:
1. ALL EXPOSED CORNERS TO HAVE 3/4" CHAMFER.
2. STEPS SHALL BE INSTALLED IN ALL INLETS 4'-0" HIGH AND OVER OR AS DIRECTED BY THE ENGINEER
3. ALL REINFORCING BARS SHALL BE GRADE 60 AND HAVE MINIMUM 1" COVER.
4. ALL WORK SHALL COMPLY WITH SECTION 609 OF THE AHTD STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2014 EDITION.
5. DROP INLETS AND EXTENSION ON CURVED SECTIONS SHALL CONFORM TO THE CURVATURE OF THE CURB.
6. 4" DIAMETER COLUMNS SPACED AT MAX 4'0-0" INTERVALS SHALL BE INSTALLED ALONG INLET AND EXTENSION SUPPORT TOP.
7. BASE AND INLET WALLS SHALL BE CAST MONOLITHICALLY.
8. THE THROAT SHALL BE CAST INTEGRALLY WITH THE GUTTER.
9. PIPES MAY ENTER DROP INLET FROM ANY ANGLE OR ELEVATION AS MAY BE APPROVED BY THE ENGINEER.
10. ALTERNATE DROP INLET DESIGNS MAY BE SUBSTITUTED AS APPROVED BY THE ENGINEER.
11. DURING CONSTRUCTION OF THE ROADWAY THE CONTRACTOR SHALL MAINTAIN DRAINAGE INTO OR AROUND THE DROP INLET AS APPROVED BY THE ENGINEER.
12. 3-1/2"X1-1/2" NOTCH SHALL BE FORMED IN ALL DROP INLETS TO SUPPORT SIDEWALK CONSTRUCTION. REFER TO DETAIL OF NOTCH FOR SIDEWALKS.
13. HEAVY DUTY RING AND COVER SHALL BE USED WHEN INLET IS LOCATED WITHIN A RADIUS. STANDARD DUTY ("NON-TRAFFIC" RATED) RING AND COVER MAY BE USED IN OTHER AREAS OUTSIDE OF ROADWAY.
14. HEAVY DUTY RING AND COVER TO BE EAST JORDAN V-1600-2 & 1346A OR APPROVED EQUAL.
15. STANDARD DUTY RING AND COVER TO BE EAST JORDAN V-1865 MANHOLE ASSEMBLY OR APPROVED EQUAL.



PLAN

*DIA. OF STRUCTURE	WALL THICKNESS	DIA. OF OUTLET PIPE
4' I.D.	6"	15" THRU 27"
5' I.D.	8"	30" THRU 42"
6' I.D.	8"	48" THRU 54"
8' I.D.	10"	60" THRU 72"



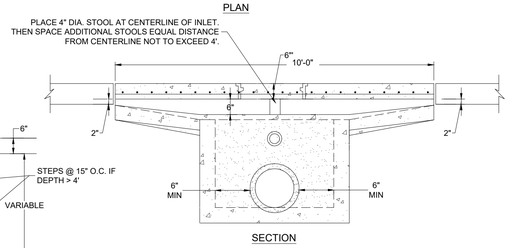
SECTION

NOTE:
TYPE II RING & COVER REQUIRED WHEN SUBJECTED TO TRAFFIC.

SINGLE THROAT CURB INLET

SECTION A-A

PLAN

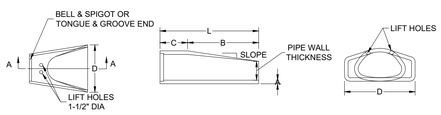


SECTION

NOTE:
TYPE II RING & COVER REQUIRED WHEN SUBJECTED TO TRAFFIC.

DOUBLE THROAT CURB INLET

C-1
C1.50 N.T.S.



PLAN

SECTION A-A

ARCH FLARED END SECTION DIMENSIONS

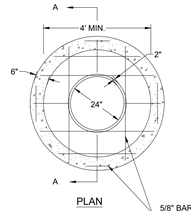
EQUIV. SIZE	SPAN-RISE (NOMINAL)	METRIC EQUIV.	WALL THICK.	WT. LBS/SEC	SLOPE	A IN.	B IN.	C IN.	D IN.	L IN.
18"	22X13	560X345	2-1/2	1,050	3:1	7	27	45	36	72
24"	29X18	725X460	3	1,580	3:1	8	39	33	48	72
30"	36X23	920X570	3-1/2	2,250	3:1	10	48	24	60	72
36"	44X27	1110X675	4	3,900	3:1	10	60	36	72	96
42"	51X31	1300X795	4-1/2	5,420	3:1	15	60	36	78	96
48"	58X36	1485X915	5	6,540	3:1	21	60	36	84	96
54"	65X40	1650X1015	5-1/2	7,640	3:1	25	60	36	90	96
60"	73X45	1855X1145	6	9,510	3:1	26	75	21	96	96
72"	88X54	2235X1370	7	14,840	3:1	35	78	22	120	100

ROUND FLARED END SECTION DIMENSIONS

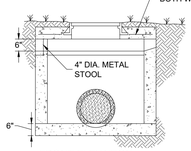
PIPE DIA.	METRIC EQUIV.	WALL THICK.	WT. LBS./SEC	SLOPE	A IN.	B IN.	C IN.	D IN.	L IN.
15"	375	2-1/4	1000	3:1	6	27	46	32	73
18"	450	2-1/2	1180	3:1	9	27	46	36	73
24"	600	3	1666	3:1	10	44	30	48	74
30"	750	3-1/2	1960	3:1	12	54	20	60	74
36"	900	4	4430	3:1	15	63	35	72	98
42"	1050	4-1/2	5630	3:1	21	63	35	78	98
48"	1200	5	6870	3:1	24	72	26	84	98
54"	1350	5-1/2	8320	3:1	28	78	22	90	100
60"	1500	6	10,660	3:1	34	78	22	96	100
66"	1650	6-1/2	12,700	3:1	40	78	22	102	100
72"	1800	7	14,820	3:1	46	78	22	102	100

C-2
C1.50 N.T.S.

NOTE: RING AND COVER ARE 24" TRAFFIC RATED TYPE MATERIALS. PROJECTIONS THROUGH PAVEMENT SUCH AS MANHOLE RINGS, VALVE BOXES, ETC. ARE TO BE WRAPPED WITH EXP. JOINT MATERIAL TO PREVENT BOND WITH CONCRETE BOXES 4' DEEP OR GREATER ARE TO HAVE STANDARD MANHOLE STEPS.

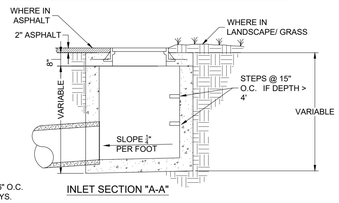


PLAN



FRONT ELEVATION

SEE PLANS FOR JUNCTION BOX LOCATION. WHEN IN LANDSCAPE BEDS OR GRASS AREAS ALLOW FOR 3" OF TOPSOIL AND SOD OR PLANT MATERIAL TO BE PLACED OVER THE BOX SO THAT MANHOLE LID IS VISIBLE BUT CONCRETE TOP IS NOT.



INLET SECTION "A-A"

*DIA. OF STRUCTURE	WALL THICKNESS	DIA. OF OUTLET PIPE
4' I.D.	6"	15" THRU 27"
5' I.D.	8"	30" THRU 42"
6' I.D.	8"	48" THRU 54"
8' I.D.	10"	60" THRU 72"

NOTE:
TYPE II RING & COVER REQUIRED WHEN SUBJECTED TO TRAFFIC.

C-3
C1.50 N.T.S.

Holloway Engineering, Surveying & Civil Design

200 Casey Drive
Maumelle, AR 72113
(501) 851-3366
www.holloway-eng.com

REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS

GRADING & DRAINAGE DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18898
ERIC HOLLOWAY
10/9/26

CERTIFICATE OF AUTHORIZATION
Holloway Engineering, Surveying & Civil Design, PLLC
#1879
ARKANSAS ENGINEERING

JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

C2.50

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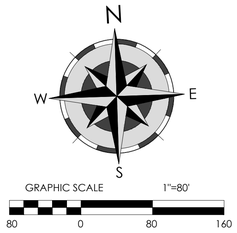
EROSION CONTROL LEGEND

SYMBOL	DESCRIPTION
SF	SILT FENCE
	CENTER DITCH & FLOW DIRECTION



SWPPP NOTES:

1. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION BY CALLING ARKANSAS ONE-CALL AT 1-800-482-8998 OR 811.
2. WHEN SOIL IS EXPOSED FOR MORE THAN 14 DAYS WITH NO CONSTRUCTION ACTIVITY IMMINENT, THE SOIL SHALL BE STABILIZED WITH SEED AND MULCH.
3. ADDITIONAL EROSION CONTROL MEASURES SHALL BE EMPLOYED AS CONDITIONS WARRANT.
4. CONSTRUCTION EXITS SHALL BE MAINTAINED TO PREVENT THE TRACKING OR FLOW OF MUD AND DEBRIS ONTO PUBLIC RIGHT-OF-WAYS.
5. ALL EROSION CONTROL DEVICES MUST BE INSPECTED WEEKLY AND AFTER EVERY PRECIPITATION EVENT. THE DEVICES MUST BE REPAIRED OR REPLACED IF THEIR CONDITION WARRANTS IT. A RECORD OF ALL INSPECTIONS AND REPAIRS MUST BE KEPT ONSITE.
6. EROSION CONTROL DEVICES MUST REMAIN IN PLACE UNTIL ALL UPSTREAM GROUND HAS BEEN STABILIZED.
7. SEDIMENT MUST BE REMOVED FROM SILT FENCES, SEDIMENT TRAPS AND BASINS ONCE THE VOLUME OF SEDIMENT REACHES ONE HALF OF THE DEVICES' CAPACITY.
8. A CONCRETE WASH OUT AREA MUST BE PROVIDED BY THE CONTRACTOR IN ORDER TO ISOLATE THE WASHOUT FROM CONCRETE TRUCKS FROM INTERMINGLING WITH STORMWATER.
9. THE CONTRACTOR MUST STORE ALL ON-SITE FUELS AND HAZARDOUS MATERIALS SUCH THAT NO SPILL OF THE HAZARDOUS MATERIAL CAN CONTAMINATE STORMWATER RUNOFF, SURFACE OR GROUND WATER.

Holloway Engineering,
Surveying & Civil Design

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(501) 851-3366
www.holloway-eng.com

REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS

SWPPP-EROSION CONTROL PLAN INITIAL

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18898
ERIC HOLLOWAY
10/9/26

CERTIFICATE OF AUTHORIZATION
Holloway Engineering, Surveying & Civil Design, PLLC
#1879

JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

C3.00

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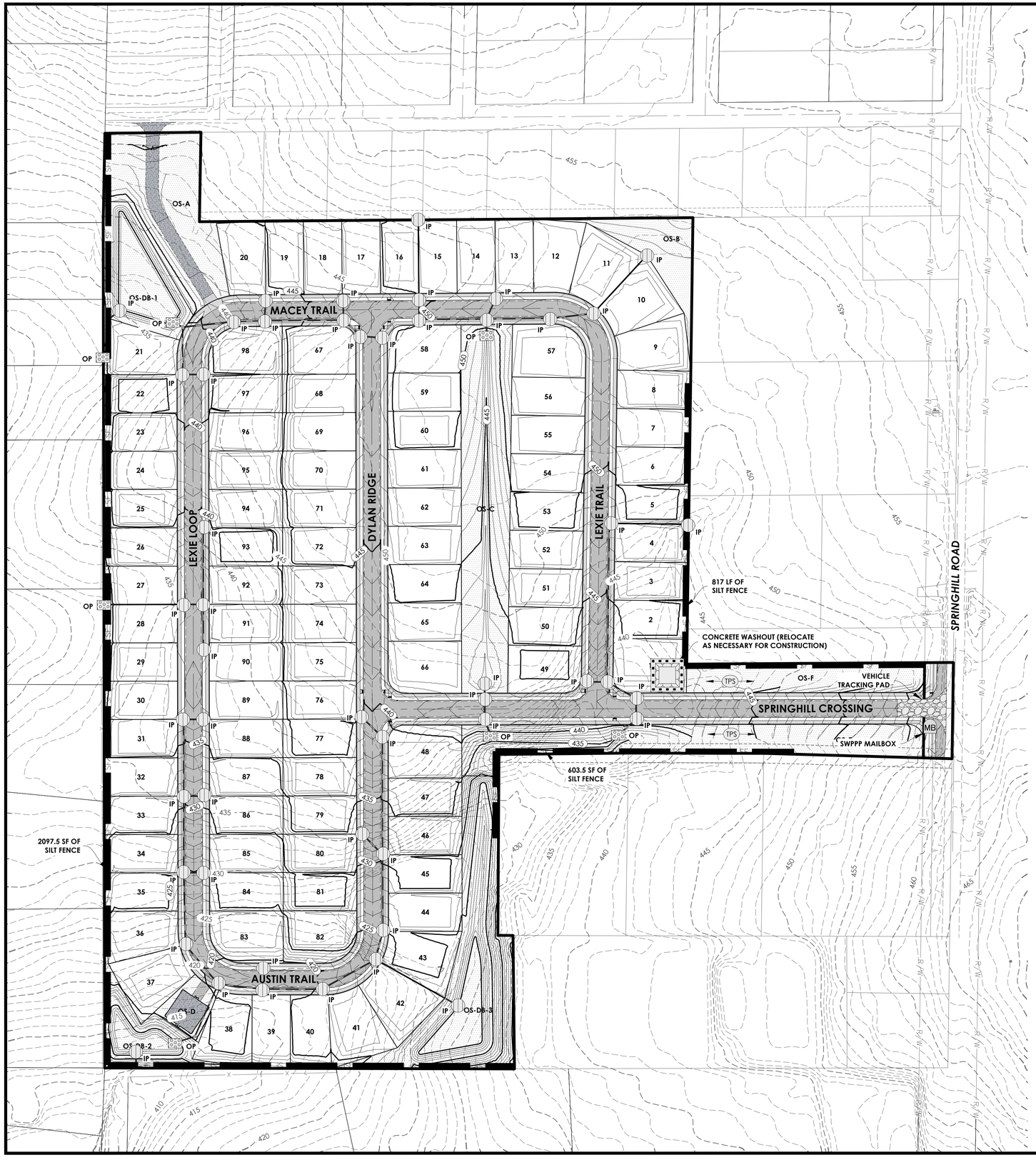

EROSION CONTROL LEGEND

SYMBOL	DESCRIPTION
SF	SILT FENCE
	CENTER DITCH & FLOW DIRECTION
	VEHICULAR TRACKING PAD (CONSTRUCTION ENTRANCE)
IP	INLET PROTECTION
TPS	TEMPORARY PARKING & STORAGE
OP	OUTLET PROTECTION RIPRAP PAD

N
W E
S

GRAPHIC SCALE 1"=80'
80 0 80 160

SWPPP NOTES:

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(501) 851-3366
www.holloway-eng.com

REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS

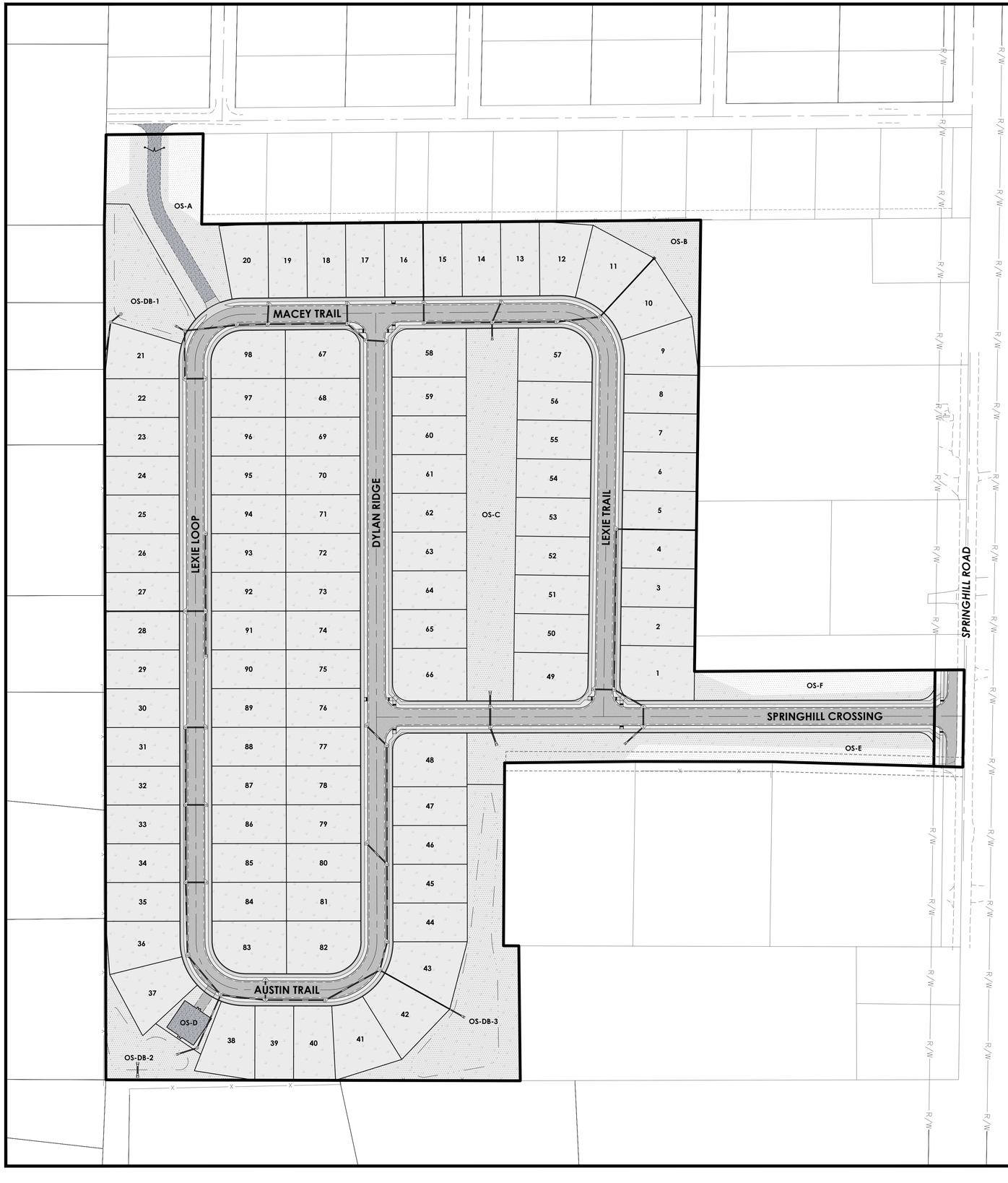
SWPPP-EROSION CONTROL PLAN
INTERMEDIATE

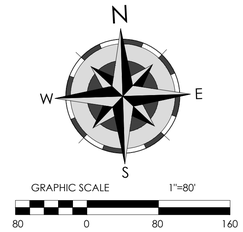
STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18898
ERIC HOLLOWAY
10/9/26

CERTIFICATE OF AUTHORIZATION
Holloway Engineering, Surveying & Civil Design, PLLC
#1879
EXPIRATION: 6/30/2027

JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

C3.01





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REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS

SWPPP-EROSION CONTROL PLAN FINAL

STATE OF ARKANSAS
ERIC HOLLOWAY
LICENSED PROFESSIONAL ENGINEER
No. 18698

10/9/26

CERTIFICATE OF AUTHORIZATION
Holloway Engineering, Surveying & Civil Design, PLLC
#1879
ARKANSAS - ENGINEERING

JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

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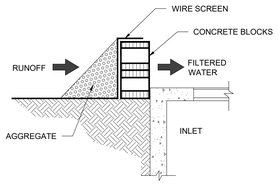

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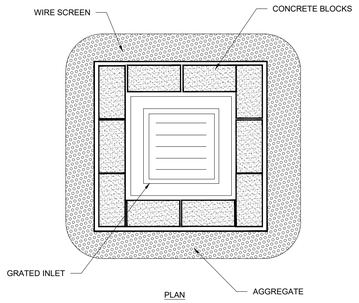
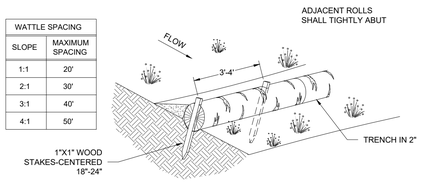


PLAN

C-1 / C3.10 BLOCK & STONE INLET PROTECTION
N.T.S.

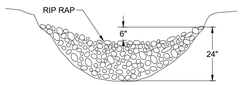
WATTLE SPACING	
SLOPE	MAXIMUM SPACING
1:1	20'
2:1	30'
3:1	40'
4:1	50'



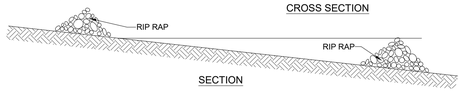
INSTALLATION NOTES
1. WATTLES SHALL CONSIST OF STRAW, COMPOST, EXCELSIOR, OR COCONUT FIBER.
2. NOT FOR USE IN CONCENTRATED FLOW AREAS.
3. THE WATTLES SHALL BE TRENCHED INTO THE GROUND A MINIMUM OF TWO (2) INCHES.
4. WATTLES SHALL BE INSTALLED PER MANUFACTURERS SPECIFICATIONS.
5. ON SLOPES, WATTLES SHOULD BE INSTALLED ON CONTOUR WITH A SLIGHT UPWARD CURVE AT THE END OF THE ROW IN ORDER TO CREATE PONDING.
6. RUNNING LENGTHS OF WATTLES SHOULD BE ABUTTED FIRMLY TO ENSURE NO LEAKAGE AT THE ABUTMENTS.
7. WHEN INSTALLING RUNNING LENGTHS OF WATTLES, BUTT THE SECOND WATTLE TIGHTLY AGAINST THE FIRST, DO NOT OVERLAP THE ENDS. STAKE THE WATTLES AT EACH END AND FOUR FOOT ON CENTER.
8. STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE WATTLE. LEAVING 2 - 3 INCHES OF THE STAKE PROTRUDING ABOVE THE WATTLE. WHEN INSTALLING WATTLES ON SLOPES, DRIVE THE STAKES PERPENDICULAR TO THE SLOPE.
9. DRIVE THE FIRST END STAKE OF THE SECOND WATTLE AT AN ANGLE TOWARD THE FIRST WATTLE IN ORDER TO HELP ABUT THEM TIGHTLY TOGETHER.
10. THE CITY RECOMMENDS USING WOOD STAKES TO SECURE THE WATTLES. 1/2" TO 5/8" REBAR IS ALSO ACCEPTABLE WITH A SAFETY CAP. BE SURE TO USE A STAKE THAT IS LONG ENOUGH TO PROTRUDE SEVERAL INCHES ABOVE THE WATTLE.
11. THE CONTRACTOR SHALL INSPECT WATTLES EVERY TWO WEEKS AND AFTER ANY SIGNIFICANT STORM EVENT AND MAKE REPAIRS OR REMOVE SEDIMENT ACCUMULATED BEHIND WATTLE AS NECESSARY.
12. SEDIMENT ACCUMULATED BEHIND WATTLE SHALL BE REMOVED WHEN THE SEDIMENT HAS ACCUMULATED TO ONE HALF THE DIAMETER OF THE WATTLE.
13. WATTLES SHALL REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND IS ACCEPTED BY THE CITY.

C-2 / C3.10 WATTLE
N.T.S.

NOTES:
1. THE MAXIMUM HEIGHT OF THE CHECK DAM IS 2 FEET.
2. CHECK DAM CENTER MUST BE BE 6 INCHES LOWER THAN OUTER EDGES.
3. THE MAXIMUM SPACING BETWEEN DAMS SHOULD BE SUCH THAT THE TOE OF THE UPSTREAM DAM IS AT THE SAME AT THE SAME ELEVATION AS THE TOP OF THE DOWNSTREAM DAM.
4. ACCUMULATED SEDIMENT IS TO BE REMOVED FROM BEHIND CHECKDAMS WHEN IT REACHES ONE HALF THE DAM HEIGHT.
5. EROSION AROUND DAM EDGES IS TO BE CORRECTED IMMEDIATELY.

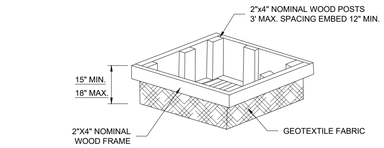


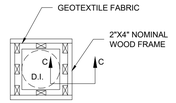
CROSS SECTION



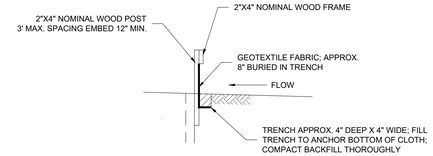
SECTION

C-3 / C3.10 CHECK DAM
N.T.S.



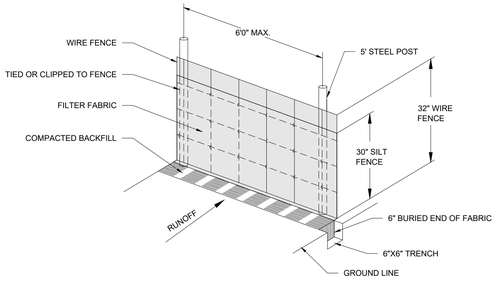


PLAN



SECTION C-C

C-4 / C3.10 SILT FENCE AT DROP INLET
N.T.S.

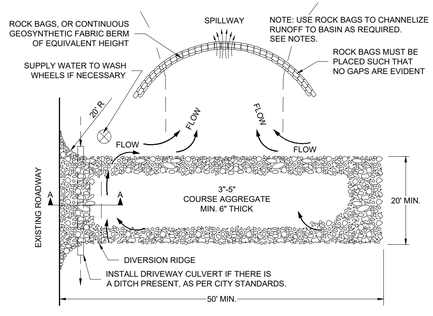


SILT FENCE NOTES
1. POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF ONE FOOT.
2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN (e.g. PAVEMENT), WEIGHT FABRIC FLAP WITH ROCK ON UPHILL SIDE TO PREVENT FLOW FROM SEEPING UNDER FENCE.
3. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
4. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH SUPPORT POST OR TO WOVEN WIRE, WHICH IN TURN IS ATTACHED TO THE FENCE POST. THERE SHALL BE A 3 FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.
5. REPAIR OF REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF HALF THE HEIGHT OF THE FENCE. THE SILT SHALL BE DISPOSED OF AT AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.

C-5 / C3.10 WIRE REINFORCED SILT FENCE
N.T.S.



SECTION A-A

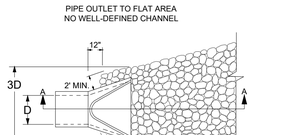


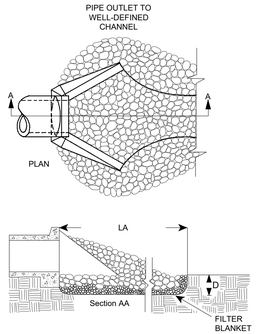
PLAN

NOTE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

NOTES:
1. STONE SIZE: 3"-5" OPEN GRADED ROCK.
2. LENGTH: AS EFFECTIVE BUT NOT LESS THAN 50'.
3. THICKNESS: NOT LESS THAN 8".
4. WIDTH: NOT LESS THAN 8".
WIDTH: NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS/EGRESS.
5. WASHING - WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.
6. MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE CONDITIONS DEMAND, AND REPAIR AND CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENTS SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADWAY MUST BE REMOVED IMMEDIATELY.
7. DRAINAGE: ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.

C-6 / C3.10 STABILIZED CONSTRUCTION EXIT
N.T.S.

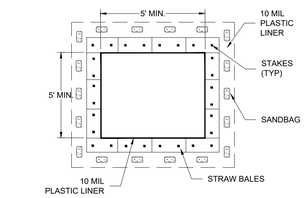




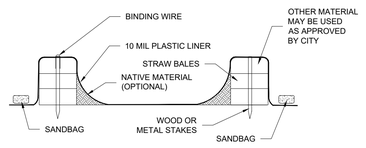
NOTES:
1. LA IS THE LENGTH OF THE RIPRAP APRON. PLEASE SEE DESIGN PLANS FOR LENGTH.
2. D = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6".
3. IN A WELL-DEFINED CHANNEL BANK TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OF TO THE TOP OF THE BANK, WHICHEVER IS LESS.
4. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION COMPLYING WITH AASHTO M288.
5. PLEASE SEE DETAIL PW-60 FOR GROUTING.

C-7 / C3.10 FLARED END CHECK DAM
N.T.S.

WASHOUT NOTES:
1. NO WASHING OUT OF CONCRETE TRUCKS OR WASHING OF SWEEPINGS FROM EXPOSED AGGREGATE CONCRETE INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS IS ALLOWED.
2. EXCESS CONCRETE IS NOT ALLOWED TO BE DUMPED ON-SITE, EXCEPT IN DESIGNATED TEMPORARY CONCRETE WASHOUT PIT AREAS.
3. ON-SITE TEMPORARY CONCRETE WASHOUT AREAS WILL BE LOCATED AT LEAST 50 FEET FROM STORM DRAINS, OPEN DITCHES, OR WATER BODIES AS DETERMINED IN THE FIELD.
4. TEMPORARY CONCRETE WASHOUT FACILITIES WILL BE CONSTRUCTED AND MAINTAINED IN SUFFICIENT QUANTITY AND SIZE TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.
5. WASHOUT FACILITIES WILL BE CLEANED OUT OR REPLACED ONCE THE WASHOUT IS 75% FULL.
6. PLASTIC LINING MATERIAL WILL BE MINIMUM OF 10 MIL POLYETHYLENE SHEETING AND WILL BE FREE OF HOLES, TEARS, OR OTHER DEFECTS.
7. WHEN WASHOUT FACILITIES ARE NO LONGER REQUIRED FOR WORK, THE HARDENED CONCRETE WILL BE REMOVED AND DISPOSED OF OFFSITE. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES WILL BE REMOVED FROM THE SITE AND DISPOSED OF.



PLAN



SECTION

C-8 / C3.10 CONCRETE WASHOUT
N.T.S.

Holloway Engineering, Surveying & Civil Design

200 Casey Drive
Maumelle, AR 72113
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www.holloway-eng.com

REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS

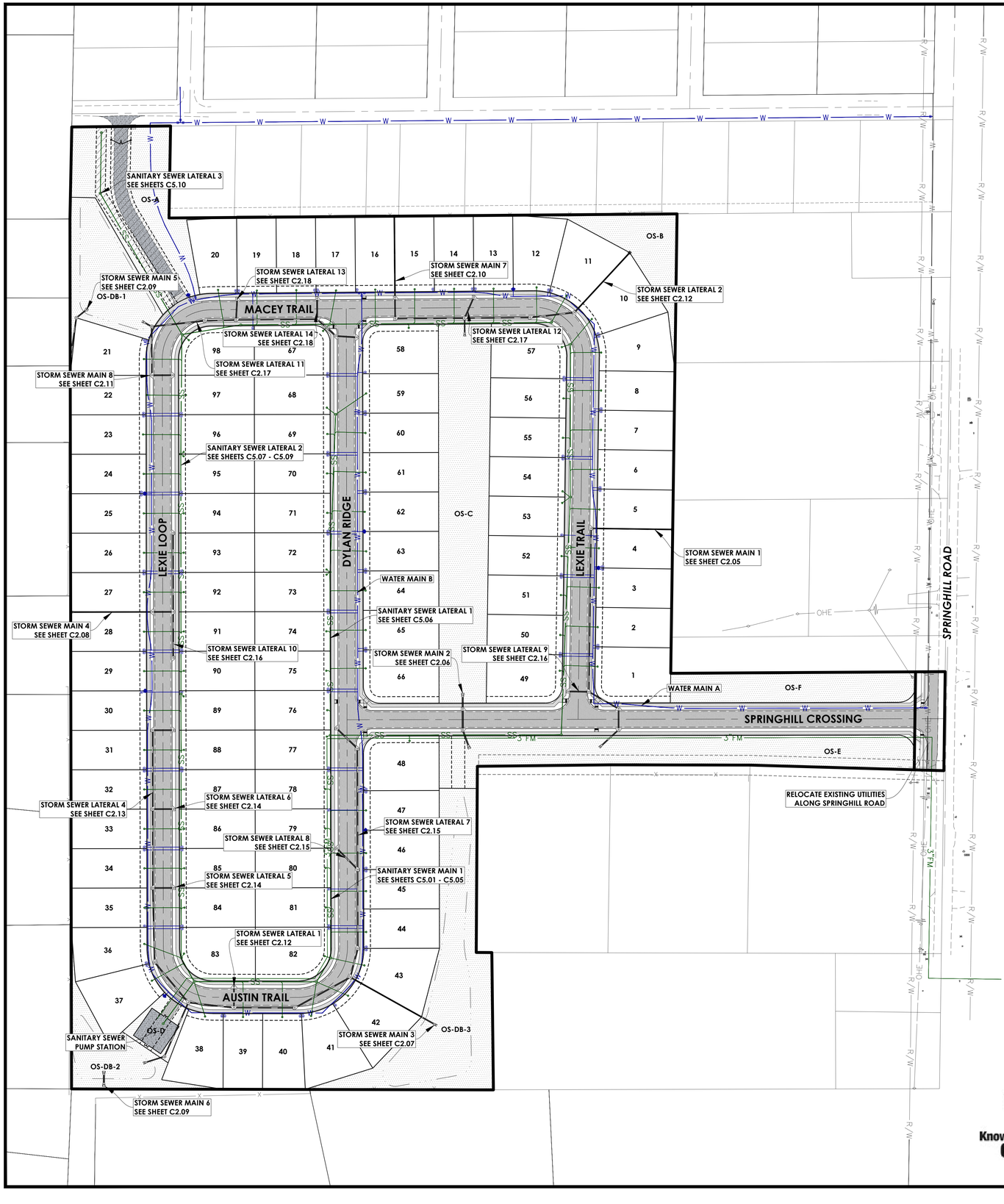
SWPPP DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18898
ERIC HOLLOWAY
10/9/26

STATE OF ALABAMA
CERTIFICATE OF AUTHORIZATION
Holloway Engineering, Surveying & Civil Design, PLLC
#1879
REGISTERED

JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

C3.10



LEGEND

	BOUNDARY FINAL
R/W	BOUNDARY ADJOINER
	RIGHT-OF-WAY
	EASEMENT
	BUILDING SETBACK
W	WATER LINE
SS	SANITARY SEWER LINE
UGE	UNDERGROUND ELECTRIC LINE
	STORM DRAINAGE PIPE
X-X	DRAINAGE STRUCTURE - NO.
	CURB INLET/JUNCTION BOX
M	WATER METER
	WATER VALVE
	FIRE HYDRANT
	SANITARY SEWER MANHOLE
	LIGHT POLE
E	ELECTRICAL BOX
	TELEPHONE PEDESTAL/RISER

N
W E
S

GRAPHIC SCALE 1"=80'
80 0 80 160

UTILITY COORDINATION PLAN NOTES:

1. ALL WATER UTILITY CONSTRUCTION SHALL COMPLY WITH THE LATEST EDITION OF BRYANT WATER DISTRIBUTION'S STANDARD SPECIFICATIONS AND DETAILS.
2. ALL WATER MAINS TO BE DUCTILE IRON WATER PIPE, CLASS DETERMINED BY SIZE OF MAINS. ALL WATERLINE 3" OR GREATER SHALL BE CLASS 50 DUCTILE IRON & ALL WATERLINES LESS THAN 3" SHALL BE PVC SDR 17 RATED FOR 250 PSI.
3. ALL SEWER PIPE SHALL BE APPROVED SEWER PIPE AS SPECIFIED IN THE LATEST EDITION OF BRYANT WASTEWATER UTILITIES STANDARDS. ALL SEWER MAIN LINES 8" OR LARGER SHALL BE PVC SDR 26 & ALL 4"-6" SEWER SERVICE LINES SHALL BE PVC SDR 21. ALL SANITARY SEWER SERVICE LINES SHALL HAVE CLEANOUTS LOCATED EVERY 80 LF MIN. & AT EVERY CHANGE IN DIRECTION.
4. ALL WATER AND SEWER MAINS AND SERVICES CROSSING ROADWAYS ARE TO BE BACKFILLED WITH CLASS 7 AGGREGATE BASE COURSE AND COMPACTED WITH A SHEEPS FOOT VIBRATORY ROLLER AS DIRECTED IN THE SPECIFICATION BOOK.
5. ALL WATER MAINS ARE TO BE A MINIMUM OF 1' BELOW STORM DRAINS OR AS DIRECTED BY CENTRAL ARKANSAS WATER PERSONNEL. ALL UTILITIES SHALL HAVE 24" OF MIN. COVER & ALL WATERLINES SHALL HAVE 36" OF MIN. COVER.
6. CONTRACTOR WILL NEED TO CALCULATE THE EXACT NUMBER OF DUCTILE IRON FITTINGS THIS PROJECT REQUIRES.
7. CONTROL POINTS AND PROPERTY PINS EXCAVATED BY CONTRACTOR ARE TO BE REPLACED PRIOR TO FINAL PAYMENT.
8. ALL WATER MAINS ARE TO BE PRESSURE TESTED AT 200 PSI OR DOUBLE THE SYSTEM PRESSURE, WHICHEVER IS THE HIGHEST ACCORDING TO THE LATEST EDITION OF THE BRYANT WATER DISTRIBUTION'S STANDARDS AND SPECIFICATIONS.
9. ALL SEWER MAINS AND SERVICES ARE TO BE AIR TESTED AS STATED IN THE LATEST EDITION OF BRYANT WASTEWATER UTILITIES STANDARDS.
10. ALL PVC SEWER MAINS ARE TO BE MANDREL TESTED AS STATED IN THE LATEST EDITION OF BRYANT WASTEWATER UTILITIES STANDARDS.
11. ALL MANHOLES ARE TO BE VACUUM TESTED AS STATED IN THE LATEST EDITION OF BRYANT WASTEWATER UTILITIES STANDARDS.
12. WATER SERVICES ARE TO BE INSTALLED BY EXCAVATING WITH A TRENCHING DEVICE OR AS DIRECTED BY CENTRAL ARKANSAS WATER PERSONNEL.
13. ALL SEWER LINES AND MANHOLES SHALL BE DRY AND FREE OF ALL DEBRIS WHEN TESTING AND UPON ACCEPTANCE OF MANHOLES, MAINS AND SERVICES.
14. ALL EXISTING UTILITIES ARE TO BE LOCATED PRIOR TO ANY EXCAVATING.
15. CONTRACTOR SHALL DISPOSE OF ALL TREES AND BRUSH EXCAVATED IN THIS PROJECT. THE COST OF CLEARING AND DISPOSING TREES AND BRUSH IS TO BE INCLUDED IN THE PRICE FOR TRENCHING.
16. ALL SEWER PIPE SHALL BE ENCASED IN CLEAN WASHED STONE OR CRUSHED STONE OF 3/4" MAXIMUM SIZE.
17. THE COST OF ALL STUB OUTS, WATER TIGHT PLUGS, CAPS AND WATERTIGHT GASKETS IN MANHOLES ARE TO BE INCLUDED IN PRICE OF MANHOLES.
18. ALL FIRE HYDRANT LEADS ARE TO BE INCLUDED IN THE PRICE OF FIRE HYDRANTS.
19. RETAINER GLANDS WITH SET SCREWS ARE TO BE USED ON ALL DUCTILE IRON WATER MAIN FITTINGS.
20. ALL WATER AND SEWER SERVICES ARE TO BE MARKED WITH PAINTED 2" PLASTIC PIPE.
21. ROCK EXCAVATION AS A PAY ITEM WILL INCLUDE ONLY THAT MATERIAL WHICH, IN THE OPINION OF THE ENGINEER, CAN NOT BE EXCAVATED EFFICIENTLY WITHOUT BLASTING OR USING A HYDRAULIC JACKHAMMER.
22. REVIEW TRENCH SAFETY, AS A PAY ITEM, AS DESCRIBED IN THE SPECIFICATION BOOK.
23. ALL TREES THAT DO NOT DIRECTLY INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE SPARED AS DIRECTED BY THE ENGINEER. CARE AND DISCRETION SHALL BE USED TO ENSURE THAT ALL TREES NOT TO BE REMOVED SHALL BE HARMED AS LITTLE AS POSSIBLE DURING THE CONSTRUCTION OPERATIONS.
24. A MINIMUM HORIZONTAL DISTANCE OF TEN FEET SHOULD BE MAINTAINED BETWEEN WATER LINES AND SEWER LINES. WATER MAINS NECESSARILY IN CLOSE PROXIMITY TO SEWERS MUST BE PLACED SO THAT THE BOTTOM OF THE WATER LINE WILL BE AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER LINE AT ITS HIGHEST POINT. IF THIS DISTANCE MUST UNAVOIDABLY BE REDUCED, THE WATER LINE OR THE SEWER LINE MUST BE ENCASED IN WATERTIGHT PIPE WITH SEALED WATERTIGHT ENDS EXTENDING AT LEAST TEN FEET EITHER SIDE OF THE CROSSING. ANY JOINT IN THE ENCASEMENT PIPE IS TO BE MECHANICALLY RESTRAINED. THE ENCASEMENT PIPE MAY BE VENTED TO THE SURFACE IF CARRYING WATER OR SEWER UNDER PRESSURE. WHERE A WATER LINE MUST UNAVOIDABLY PASS BENEATH THE SEWER LINE, AT LEAST 18 INCHES OF SEPARATION MUST BE MAINTAINED BETWEEN THE OUTSIDE OF THE TWO PIPES IN ADDITION TO THE PRECEDING ENCASEMENT REQUIREMENT. EXCEPTIONS TO THIS MUST BE APPROVED IN WRITING BY THE ARKANSAS DEPARTMENT OF HEALTH. A MINIMUM HORIZONTAL DISTANCE OF THREE FEET SHALL BE MAINTAINED BETWEEN WATER LINES AND OTHER UNDERGROUND UTILITIES OF A NON SANITARY NATURE (GAS, ELECTRIC, ETC.). EXCEPTIONS TO THIS MUST BE APPROVED IN WRITING BY THE ARKANSAS DEPARTMENT OF HEALTH AND HUMAN SERVICES.

Know what's below. Call before you dig.

CAUTION: UNDERGROUND UTILITIES EXIST WITHIN AND ADJACENT TO THE LIMITS OF CONSTRUCTION AND AN ATTEMPT HAS BEEN MADE TO LOCATE THESE UTILITIES ON THE PLANS. HOWEVER, ALL EXISTING UTILITIES MAY NOT BE SHOWN AND THE ACTUAL LOCATIONS OF THE UTILITIES MAY VARY FROM THE LOCATIONS SHOWN. PRIOR TO BEGINNING ANY TYPE OF EXCAVATION, THE CONTRACTOR SHALL CONTACT THE UTILITIES INVOLVED AND MAKE ARRANGEMENTS FOR THE LOCATION OF THE UTILITIES ON THE GROUND. THE CONTRACTOR SHALL MAINTAIN THE UTILITY LOCATION MARKINGS UNTIL THEY ARE NO LONGER NECESSARY.

ARKANSAS STATE LAW, THE UNDERGROUND FACILITIES DAMAGE PREVENTION ACT, REQUIRES TWO WORKING DAYS ADVANCE NOTIFICATION THROUGH THE ARKANSAS ONE-CALL SYSTEM CENTER BEFORE EXCAVATING USING MECHANIZED EQUIPMENT OR EXPLOSIVES (EXCEPT IN THE CASE OF AN EMERGENCY). THE ONE-CALL SYSTEM PHONE NUMBER IS 1-800-482-8998. THE CONTRACTOR IS ADVISED THAT THERE IS A SEVERE PENALTY FOR NOT MAKING THIS CALL. NOT ALL UTILITY COMPANIES ARE MEMBERS OF THE ARKANSAS ONE-CALL SYSTEM; THEREFORE, THE CONTRACTOR IS ADVISED TO CONTACT ALL NON-MEMBER UTILITIES, AS WELL AS THE ONE-CALL SYSTEM.

Holloway Engineering, Surveying & Civil Design

200 Casey Drive
Maumelle, AR 72113
(501) 851-3366
www.holloway-eng.com

REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS

UTILITY COORDINATION PLAN

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18898
CHRIS HOLLOWAY
10/9/26

CERTIFICATE OF AUTHORIZATION
Holloway Engineering, Surveying & Civil Design, PLLC
#1879
EXPIRES: 6/30/2027

JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

C4.00

L:\2026\2026-071 - Daryl Bryant 26 Ac project\Drawings\Sheets\C4.00 UTILITY COORDINATION PLAN.dwg

SPRINGHILL CROSSING

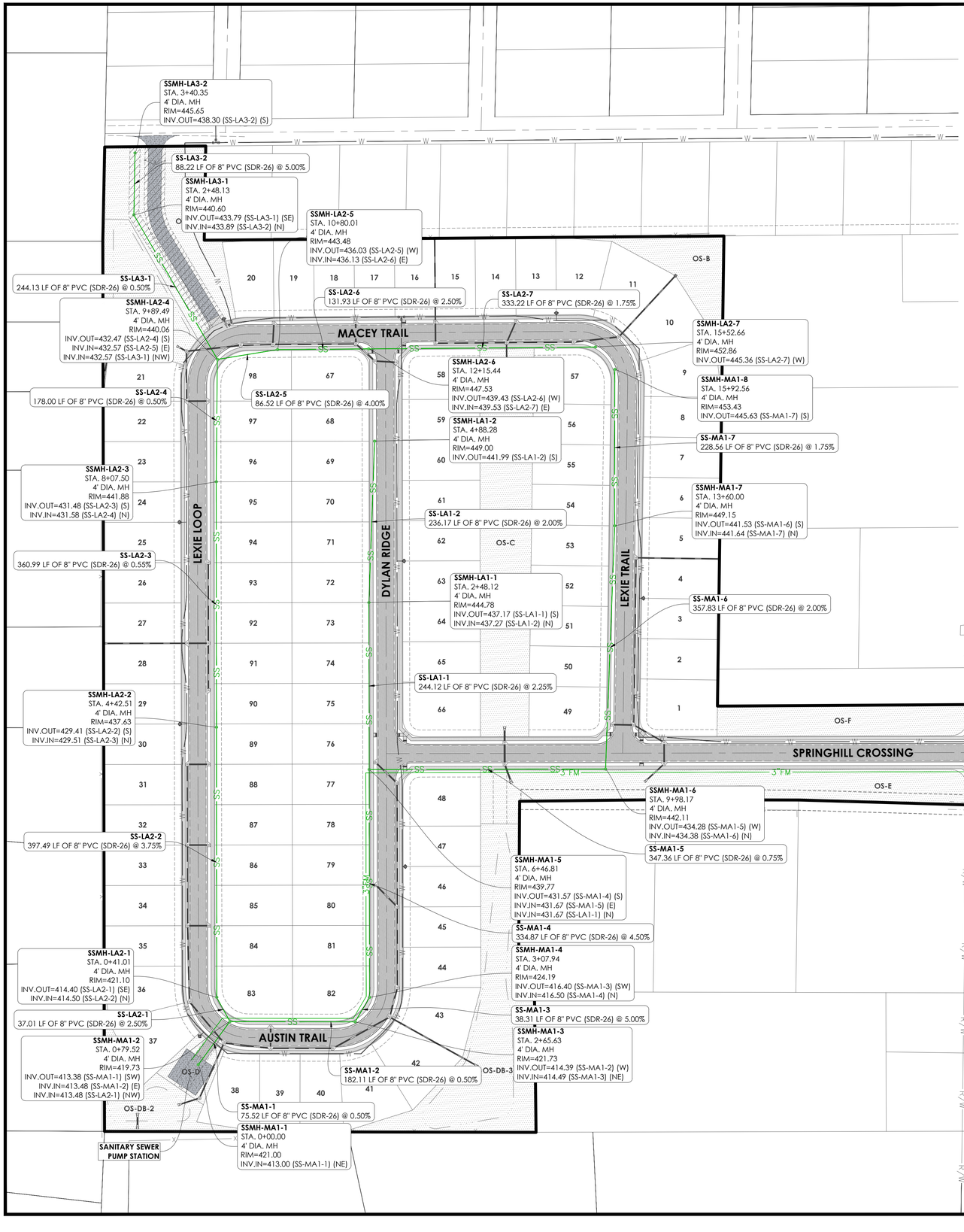
RESIDENTIAL SUBDIVISION

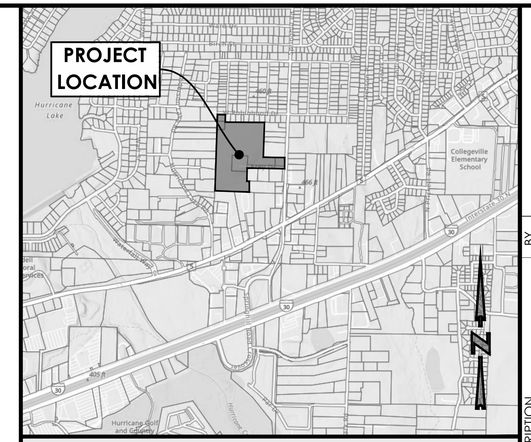
BRYANT, SALINE COUNTY, ARKANSAS

SANITARY SEWER PLANS

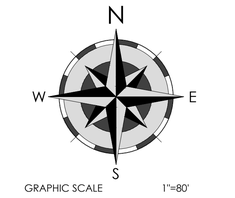
October 2026

HOLLOWAY ENGINEERING JOB NO. 2026-071





VICINITY MAP



SANITARY SEWER NOTES:

1. CONTRACTOR TO NOTIFY "ARKANSAS ONE-CALL" AND ALL UTILITY, CABLE COMPANIES, ETC. PRIOR TO COMMENCING ANY EXCAVATION. DIAL 811.
2. SEWER LINE CONSTRUCTION TO BE IN ACCORDANCE WITH ALL AHJ STANDARD SPECIFICATIONS AND STANDARD DETAILS AS SUBMITTED FOR THE PROJECT.
3. ALL SEWER LINE MAIN CONSTRUCTION TO BE PVC (SDR-26) OR AS NOTED ON PLANS.
4. A MINIMUM HORIZONTAL DISTANCE OF TEN FEET SHOULD BE MAINTAINED BETWEEN WATER LINES AND SEWER LINES. WATER MAINS NECESSARILY IN CLOSE PROXIMITY TO SEWERS MUST BE PLACED SO THAT THE BOTTOM OF THE WATER LINE WILL BE AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER LINE AT ITS HIGHEST POINT. IF THIS DISTANCE MUST UNAVOIDABLY BE REDUCED, THE WATER LINE OR THE SEWER LINE MUST BE ENCASED IN WATERTIGHT PIPE WITH SEALED WATERTIGHT ENDS EXTENDING AT LEAST TEN FEET EITHER SIDE OF THE CROSSING. ANY JOINT IN THE ENCASEMENT PIPE IS TO BE MECHANICALLY RESTRAINED. THE ENCASEMENT PIPE MAY BE VENTED TO THE SURFACE IF CARRYING WATER OR SEWER UNDER PRESSURE. WHERE A WATER LINE MUST UNAVOIDABLY PASS BENEATH THE SEWER LINE, AT LEAST 18 INCHES OF SEPARATION MUST BE MAINTAINED BETWEEN THE OUTSIDE OF THE TWO PIPES IN ADDITION TO THE PRECEDING ENCASEMENT REQUIREMENT. EXCEPTIONS TO THIS MUST BE APPROVED IN WRITING BY THE ARKANSAS DEPARTMENT OF HEALTH. A MINIMUM HORIZONTAL DISTANCE OF THREE FEET SHALL BE MAINTAINED BETWEEN WATER LINES AND OTHER UNDERGROUND UTILITIES OF A NON SANITARY NATURE (GAS, ELECTRIC, ETC.). EXCEPTIONS TO THIS MUST BE APPROVED IN WRITING BY THE ARKANSAS DEPARTMENT OF HEALTH AND HUMAN SERVICES.
5. ALL CONSTRUCTION TO COMPLY WITH CURRENT EDITIONS OF ALL APPLICABLE BUILDING, ELECTRIC & FIRE CODE, IN ADDITION TO ANY LOCAL, REGIONAL OR NATIONAL CODE REQUIREMENTS AND MANUFACTURER'S RECOMMENDED SPECIFICATIONS.
6. ALL EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE.
7. SEWER SERVICE LINES TO BE CAST IRON OR SDR-26. IF SDR-26 IS USED FOR THE SERVICE LINES IT SHALL BE INSTALLED IN 6" OF #57 GRAVEL ON ALL SIDES OF THE PIPE. ALL SERVICE ENDS TO BE MARKED WITH T-POST TO EXTEND AT LEAST 4' ABOVE FINISHED GRADE. SEWER STUBS TO HAVE A MAXIMUM 5' DEPTH WHERE TERMINATED.

SANITARY SEWER PIPE TABLE

NAME	SIZE / PIPE MATERIAL	LENGTH	SLOPE %
SS-LA1-1	8" PVC (SDR-26)	244.12'	2.25%
SS-LA1-2	8" PVC (SDR-26)	236.17'	2.00%
SS-LA2-1	8" PVC (SDR-26)	37.01'	2.50%
SS-LA2-2	8" PVC (SDR-26)	397.49'	3.75%
SS-LA2-3	8" PVC (SDR-26)	360.99'	0.55%
SS-LA2-4	8" PVC (SDR-26)	178.00'	0.50%
SS-LA2-5	8" PVC (SDR-26)	86.52'	4.00%
SS-LA2-6	8" PVC (SDR-26)	131.93'	2.50%
SS-LA2-7	8" PVC (SDR-26)	333.22'	1.75%
SS-LA3-1	8" PVC (SDR-26)	244.13'	0.50%
SS-LA3-2	8" PVC (SDR-26)	88.22'	5.00%
SS-MA1-1	8" PVC (SDR-26)	75.52'	0.50%
SS-MA1-2	8" PVC (SDR-26)	182.11'	0.50%
SS-MA1-3	8" PVC (SDR-26)	38.31'	5.00%
SS-MA1-4	8" PVC (SDR-26)	334.87'	4.50%
SS-MA1-5	8" PVC (SDR-26)	347.36'	0.75%
SS-MA1-6	8" PVC (SDR-26)	357.83'	2.00%
SS-MA1-7	8" PVC (SDR-26)	228.56'	1.75%

SANITARY SEWER STRUCTURE TABLE

STRUCTURE NAME	DETAILS	PIPES IN	PIPES OUT	DEPTH
SSMH-LA1-1	RIM ELEV. = 444.78	SS-LA1-2, 8" PVC INV IN =437.27	SS-LA1-1, 8" PVC INV OUT =437.17	7.61
SSMH-LA1-2	RIM ELEV. = 449.00		SS-LA1-2, 8" PVC INV OUT =441.99	7.01
SSMH-LA2-1	RIM ELEV. = 421.10	SS-LA2-2, 8" PVC INV IN =414.50	SS-LA2-1, 8" PVC INV OUT =414.40	6.70
SSMH-LA2-2	RIM ELEV. = 437.63	SS-LA2-3, 8" PVC INV IN =429.51	SS-LA2-2, 8" PVC INV OUT =429.41	8.22
SSMH-LA2-3	RIM ELEV. = 441.88	SS-LA2-4, 8" PVC INV IN =431.58	SS-LA2-3, 8" PVC INV OUT =431.48	10.40
SSMH-LA2-4	RIM ELEV. = 440.06	SS-LA2-5, 8" PVC INV IN =432.57 SS-LA3-1, 8" PVC INV IN =432.57	SS-LA2-4, 8" PVC INV OUT =432.47	7.61
SSMH-LA2-5	RIM ELEV. = 443.48	SS-LA2-6, 8" PVC INV IN =436.13	SS-LA2-5, 8" PVC INV OUT =436.03	7.45
SSMH-LA2-6	RIM ELEV. = 447.53	SS-LA2-7, 8" PVC INV IN =439.53	SS-LA2-6, 8" PVC INV OUT =439.43	8.10
SSMH-LA2-7	RIM ELEV. = 452.86		SS-LA2-7, 8" PVC INV OUT =445.36	7.50
SSMH-LA3-1	RIM ELEV. = 440.60	SS-LA3-2, 8" PVC INV IN =433.89	SS-LA3-1, 8" PVC INV OUT =433.79	6.81
SSMH-LA3-2	RIM ELEV. = 445.65		SS-LA3-2, 8" PVC INV OUT =438.30	7.35
SSMH-MA1-1	RIM ELEV. = 421.00	SS-MA1-1, 8" PVC INV IN =413.00		8.00
SSMH-MA1-2	RIM ELEV. = 419.73	SS-MA1-2, 8" PVC INV IN =413.48 SS-LA2-1, 8" PVC INV IN =413.48	SS-MA1-1, 8" PVC INV OUT =413.38	6.35
SSMH-MA1-3	RIM ELEV. = 421.73	SS-MA1-3, 8" PVC INV IN =414.49	SS-MA1-2, 8" PVC INV OUT =414.39	7.34
SSMH-MA1-4	RIM ELEV. = 424.19	SS-MA1-4, 8" PVC INV IN =416.50	SS-MA1-3, 8" PVC INV OUT =416.40	7.78
SSMH-MA1-5	RIM ELEV. = 439.77	SS-MA1-5, 8" PVC INV IN =431.67 SS-LA1-1, 8" PVC INV IN =431.67	SS-MA1-4, 8" PVC INV OUT =431.57	8.20
SSMH-MA1-6	RIM ELEV. = 442.11	SS-MA1-6, 8" PVC INV IN =434.38	SS-MA1-5, 8" PVC INV OUT =434.28	7.84
SSMH-MA1-7	RIM ELEV. = 449.15	SS-MA1-7, 8" PVC INV IN =441.64	SS-MA1-6, 8" PVC INV OUT =441.53	7.62
SSMH-MA1-8	RIM ELEV. = 453.43		SS-MA1-7, 8" PVC INV OUT =445.63	7.80

Holloway Engineering, Surveying & Civil Design

200 Casey Drive
Maumelle, AR 72113
(501) 851-3366
www.holloway-eng.com

REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS
SANITARY SEWER OVERVIEW

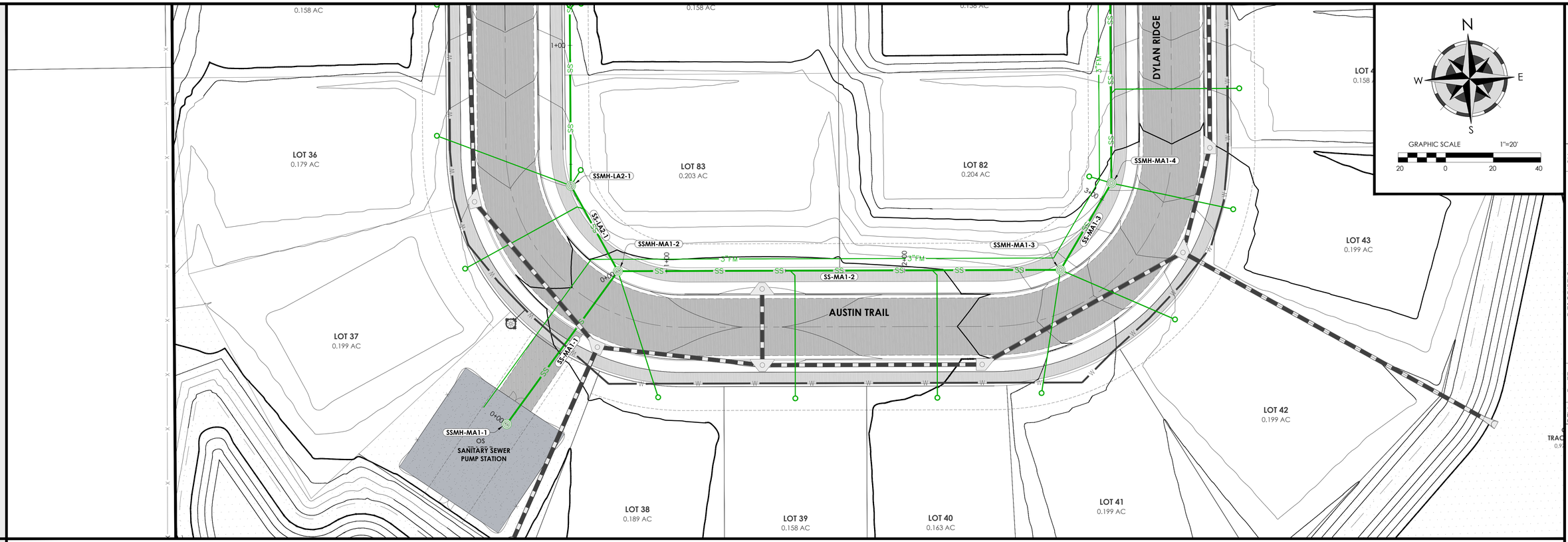
STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18898
ERIC HOLLOWAY
10/9/26

CERTIFICATE OF AUTHORIZATION
Holloway Engineering, Surveying & Civil Design, PLLC
#1879
EXPIRES: 12/31/2026

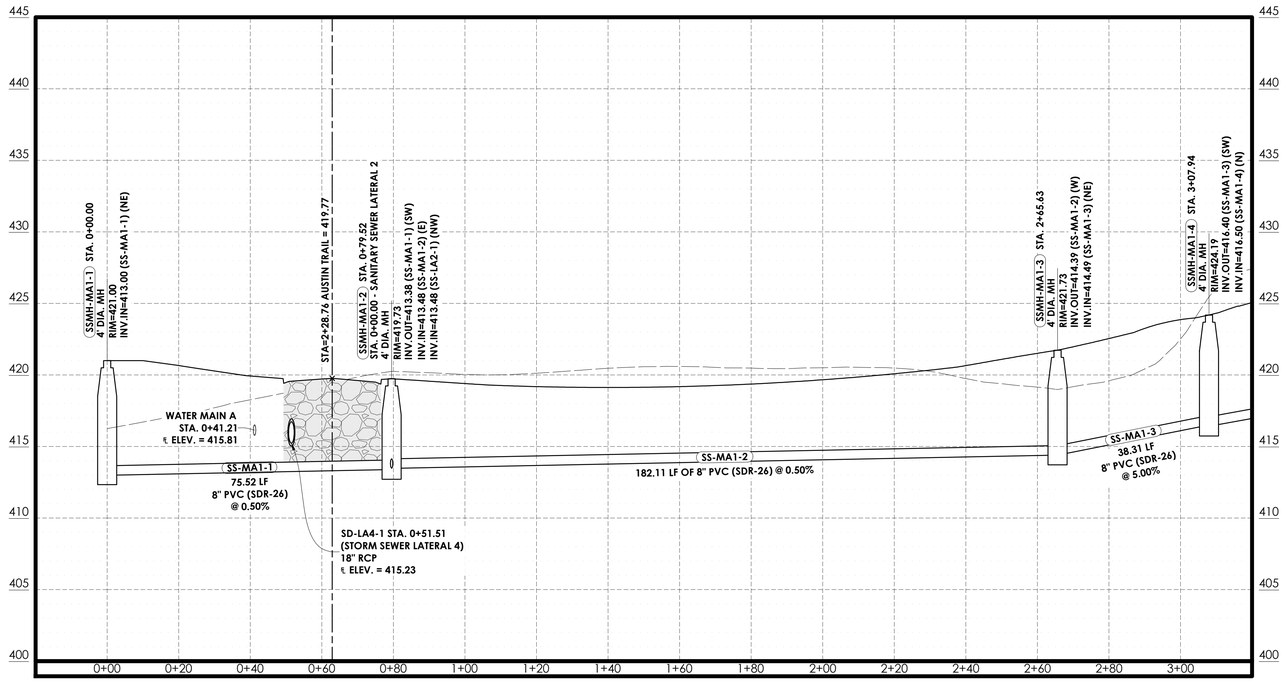
JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

C5.00

PLAN VIEW - SCALE 1"=20'



PROFILE VIEW - SCALE 1"=20'



PROPOSED
EXISTING

SANITARY SEWER MAIN 1
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

CLASS 7 BACKFILL MIN.
95% COMPACTION (TYP.)

Holloway Engineering,
Surveying & Civil Design

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Maumelle, AR 72113
(501) 851-3366
www.holloway-eng.com

REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS

SANITARY SEWER P&P MAIN 1 (1 OF 5)

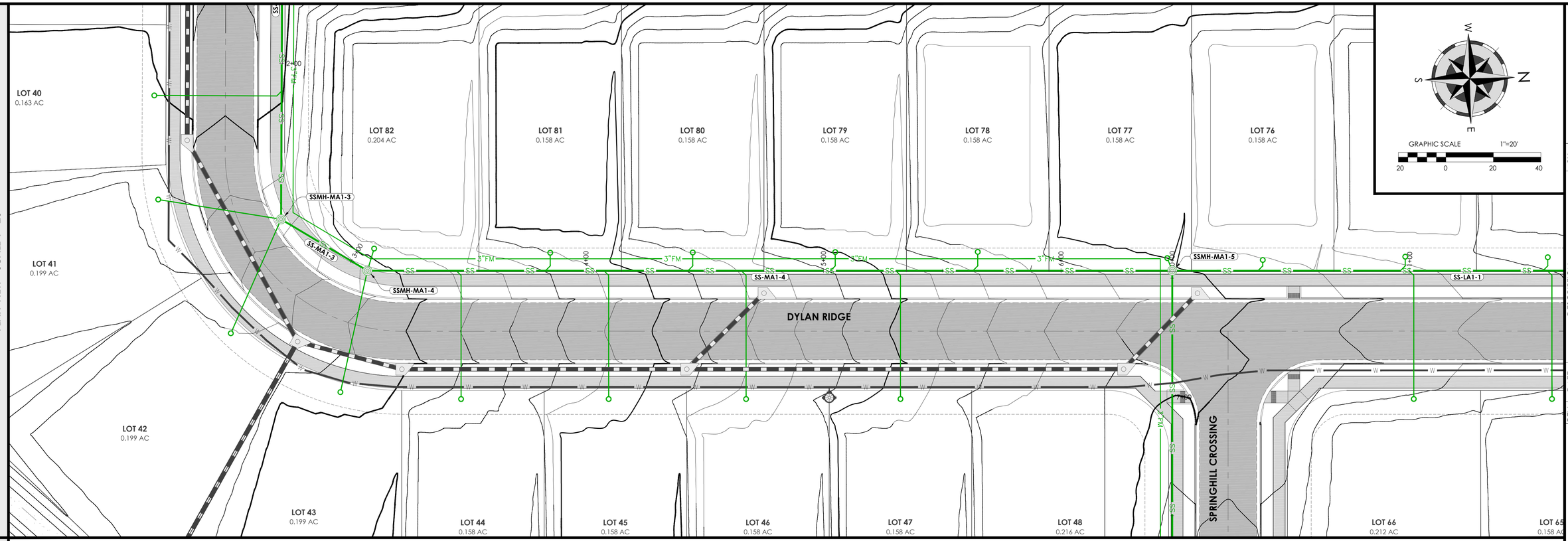
STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18898
TROY HOLLOWAY
10/9/26

CERTIFICATE OF AUTHORIZATION
Holloway Engineering, Surveying & Civil Design, PLLC
#1879
ARKANSAS ENGINEERING

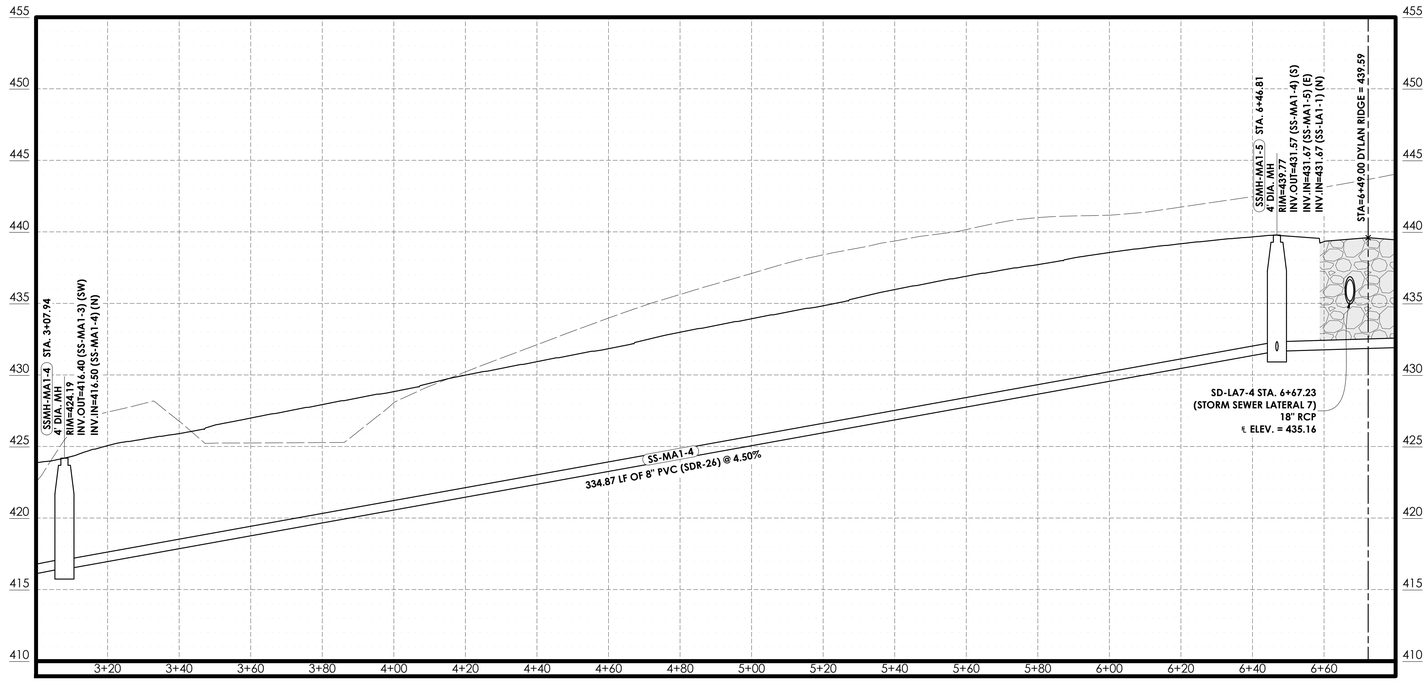
JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

C5.01

PLAN VIEW - SCALE 1"=20'



PROFILE VIEW - SCALE 1"=20'



PROPOSED
EXISTING

SANITARY SEWER MAIN 1
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

CLASS 7 BACKFILL MIN.
95% COMPACTION (TYP.)

Holloway Engineering,
Surveying & Civil Design

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Maumelle, AR 72113
(501) 851-3366
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REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS

SANITARY SEWER P&P MAIN 1 (2 OF 5)

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18898
CODY HOLLOWAY
10/9/26

CERTIFICATE OF AUTHORIZATION
Holloway Engineering, Surveying & Civil Design, PLLC
#1879
ARKANSAS ENGINEERING

JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

C5.02

L:\2026\2026-071 - Daryl Bryant 26 Ac project\Drawings\Sheets\C5.00 SANITARY SEWER OVERVIEW.dwg

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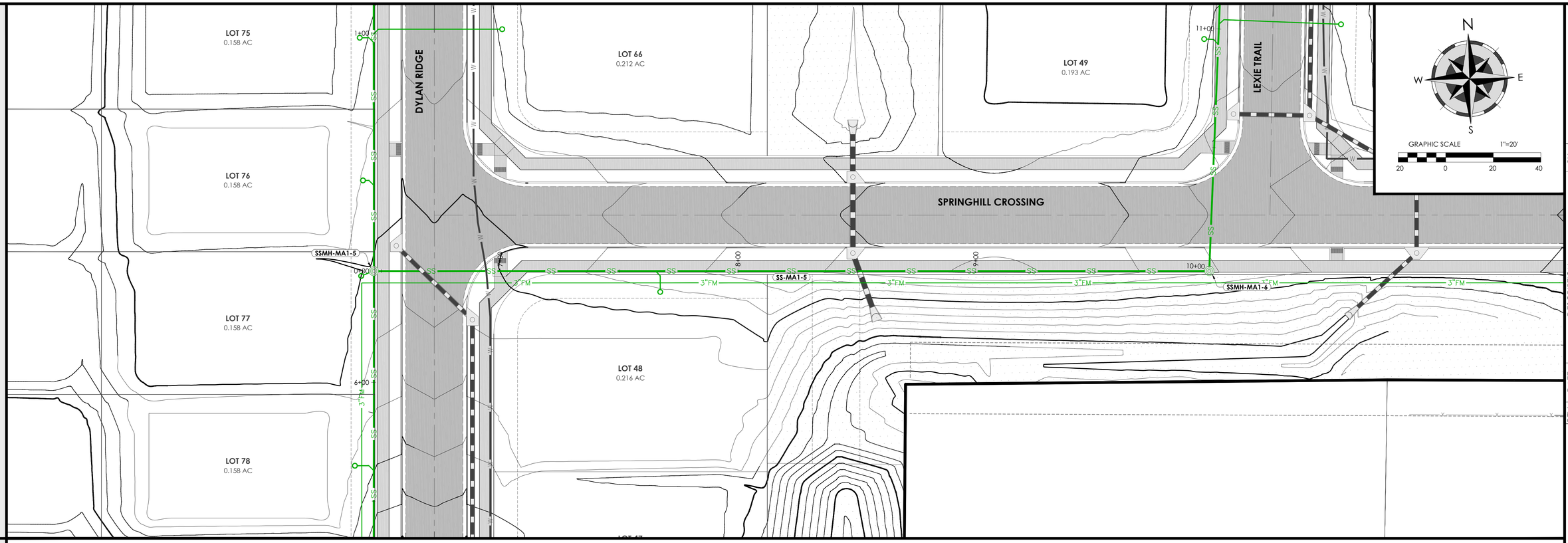
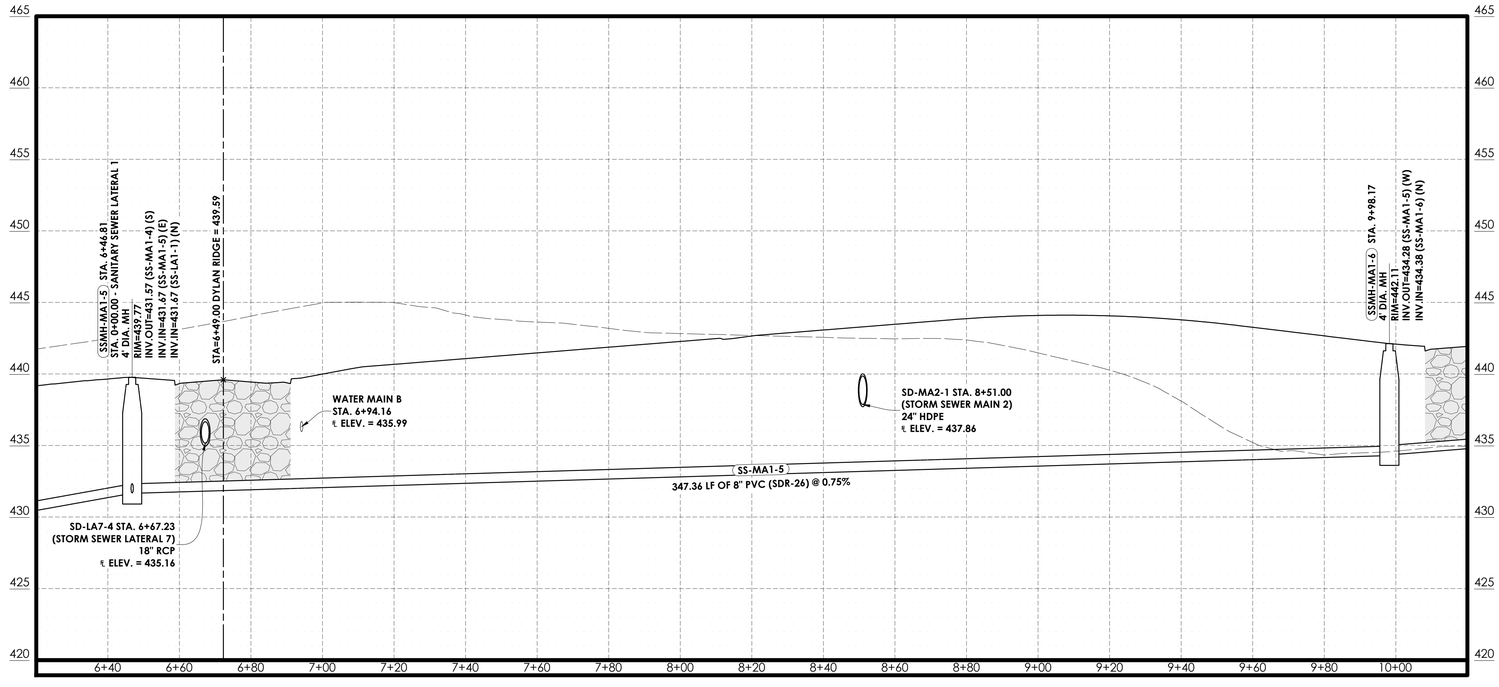


PROFILE VIEW - SCALE 1"=20'



PROPOSED
EXISTING

SANITARY SEWER MAIN 1
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

CLASS 7 BACKFILL MIN. 95% COMPACTION (TYP.)

Holloway Engineering, Surveying & Civil Design

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Maumelle, AR 72113
(501) 851-3366
www.holloway-eng.com

REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS

SANITARY SEWER P&P MAIN 1 (3 OF 5)

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18898
TROY HOLLOWAY
10/9/26

CERTIFICATE OF AUTHORIZATION
Holloway Engineering, Surveying & Civil Design, PLLC
#1879
ARKANSAS LICENSED ENGINEERING

JOB NO.: 2026-0071
DATE: 10/9/26
SHEET NUMBER:

C5.03

L:\2026\2026-071 - Daryl Bryant 26 Ac project\Drawings\Sheets\C5.00 SANITARY SEWER OVERVIEW.dwg

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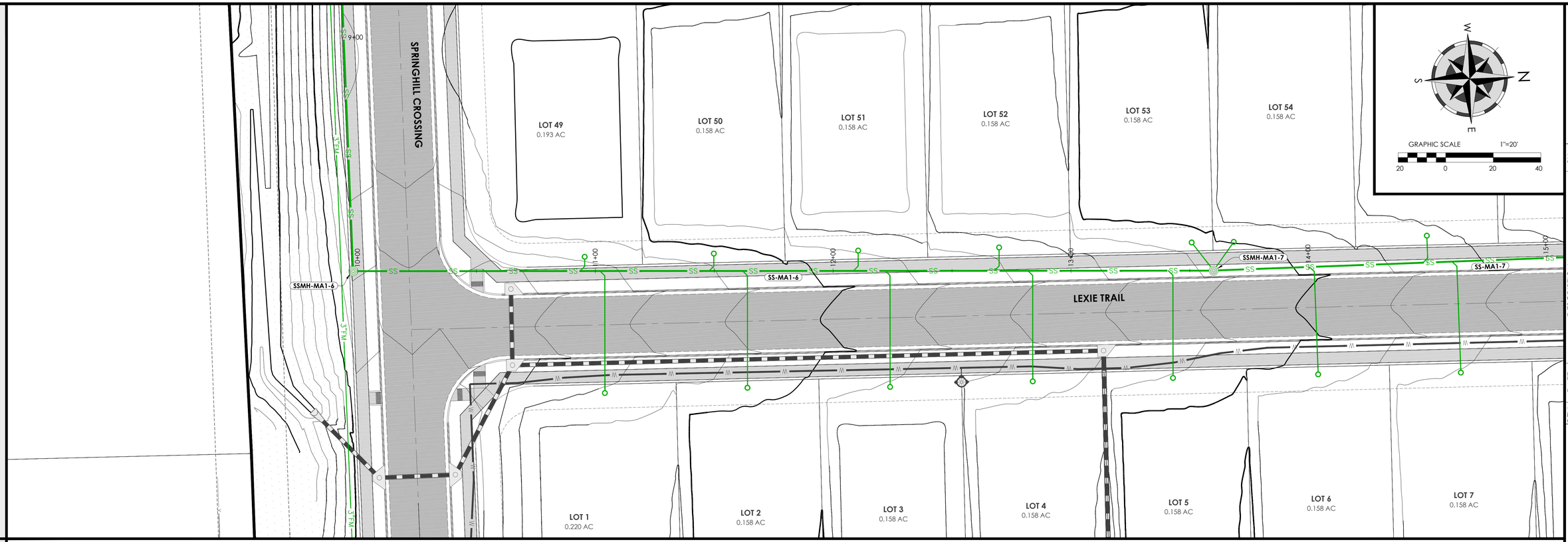

PROFILE VIEW - SCALE 1"=20'

PROPOSED
EXISTING

SANITARY SEWER MAIN 1
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

CLASS 7 BACKFILL MIN. 95% COMPACTION (TYP.)

Holloway Engineering, Surveying & Civil Design

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REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS

SANITARY SEWER P&P MAIN 1 (4 OF 5)

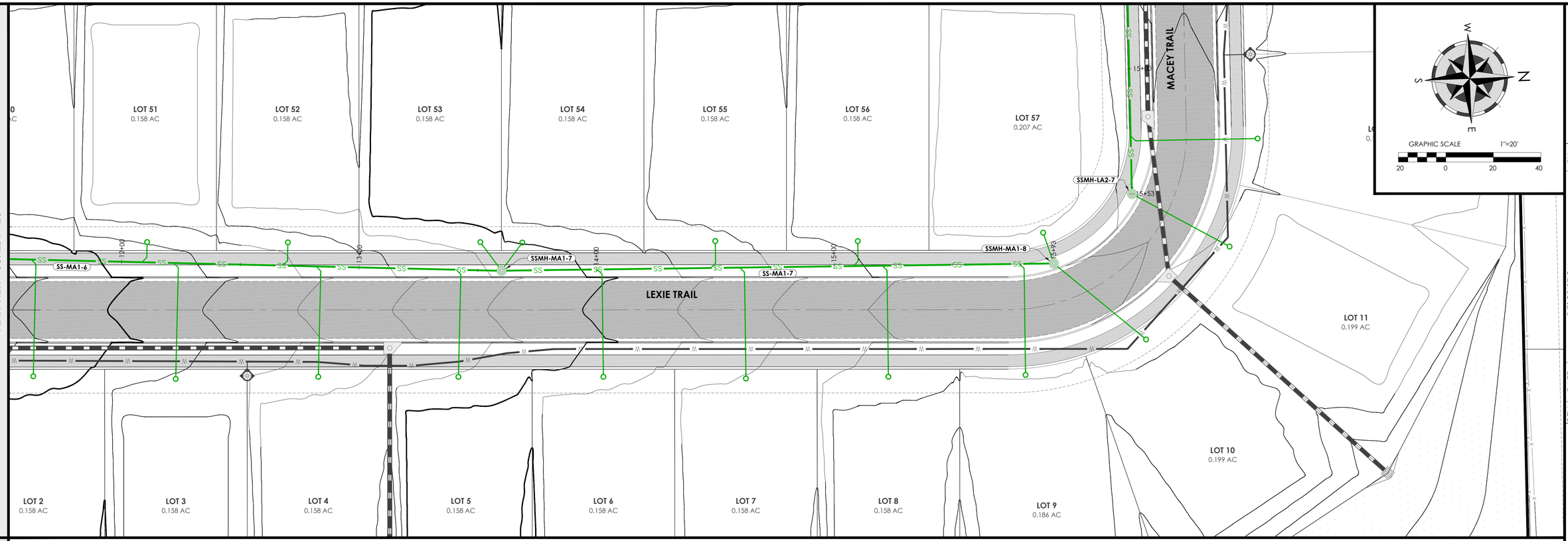
STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18898
JOSH HOLLOWAY
10/9/26

CERTIFICATE OF AUTHORIZATION
Holloway Engineering, Surveying & Civil Design, PLLC
#1879
STATE OF ARKANSAS ENGINEERING

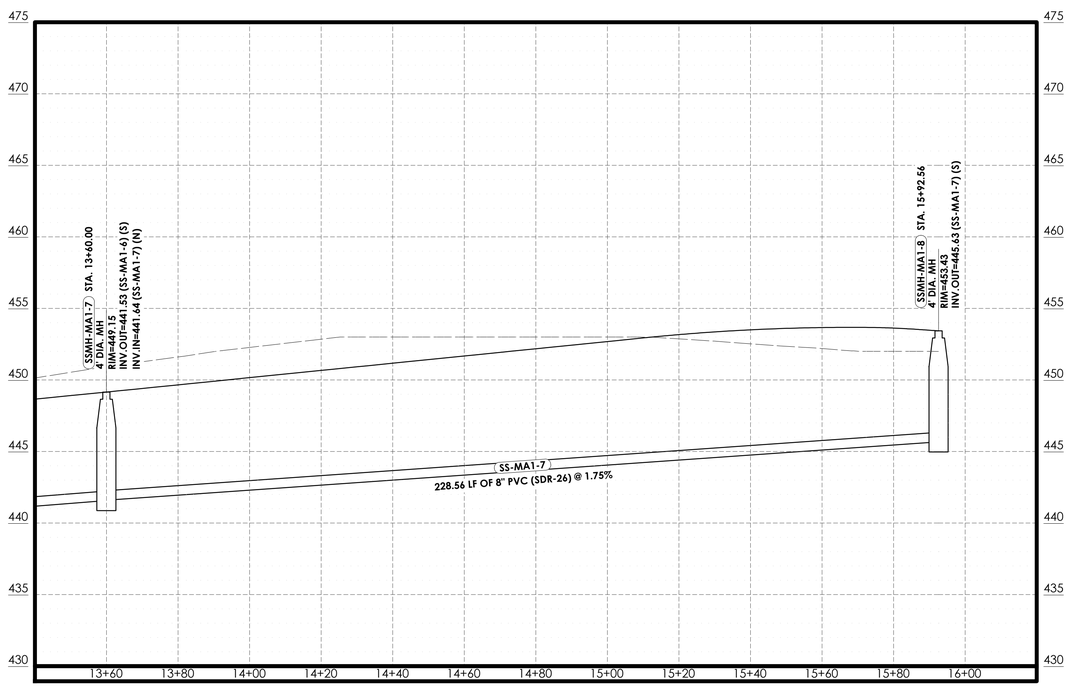
JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

C5.04

PLAN VIEW - SCALE 1"=20'



PROFILE VIEW - SCALE 1"=20'



PROPOSED
EXISTING

SANITARY SEWER MAIN 1
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

Holloway Engineering,
Surveying & Civil Design

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(501) 851-3366
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REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS

SANITARY SEWER P&P MAIN 1 (5 OF 5)

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18898
JOSH HOLLOWAY
10/9/26

CERTIFICATE OF AUTHORIZATION
Holloway Engineering, Surveying & Civil Design, PLLC
#1879
ARKANSAS LICENSED ENGINEER

JOB NO.: XXXX-XXX
DATE: 10/9/26
SHEET NUMBER:

C5.05

L:\2026\2026-071 - Daryl Bryant 26 Ac project\Drawings\Sheets\C5.00 SANITARY SEWER OVERVIEW.dwg

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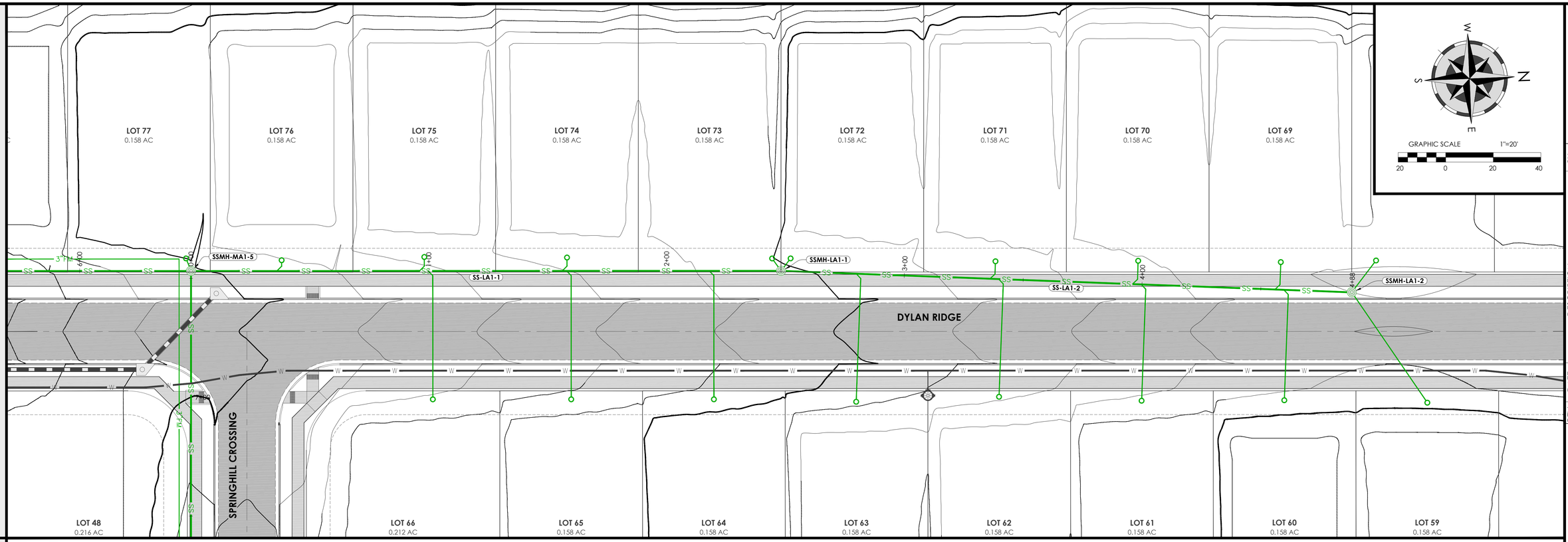
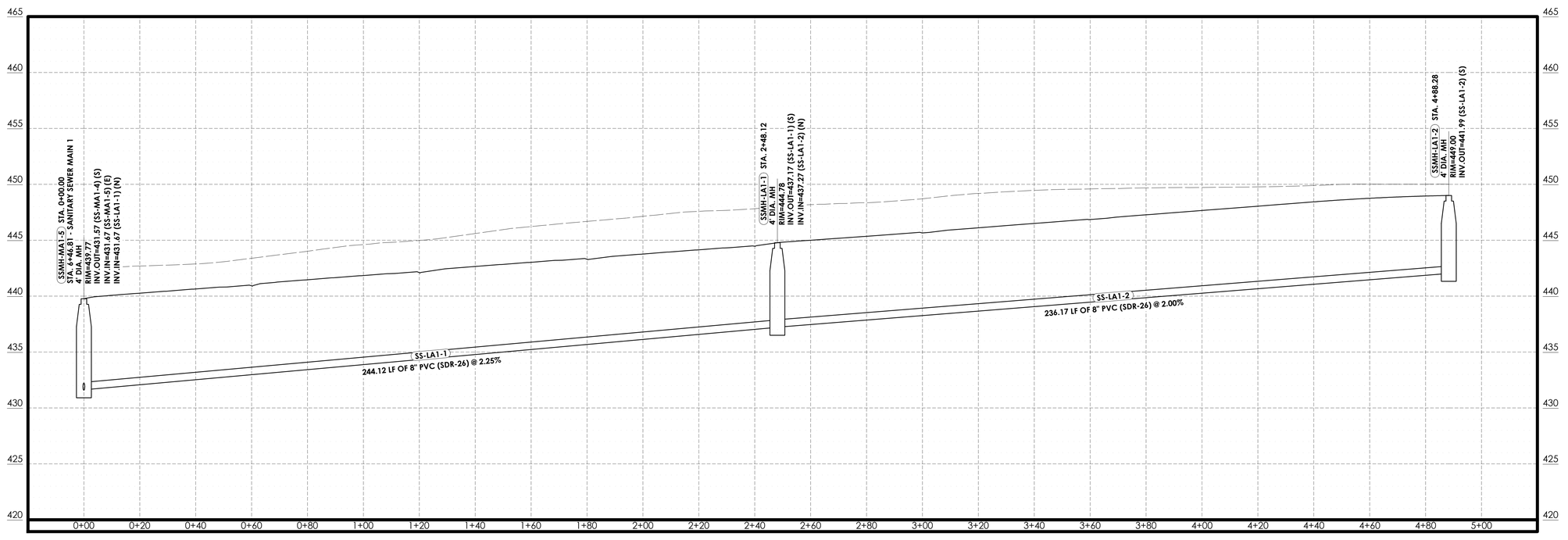


PROFILE VIEW - SCALE 1"=20'



PROPOSED
EXISTING

SANITARY SEWER LATERAL 1
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

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Surveying & Civil Design

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(501) 851-3366
www.holloway-eng.com

REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS

SANITARY SEWER P&P LATERAL 1

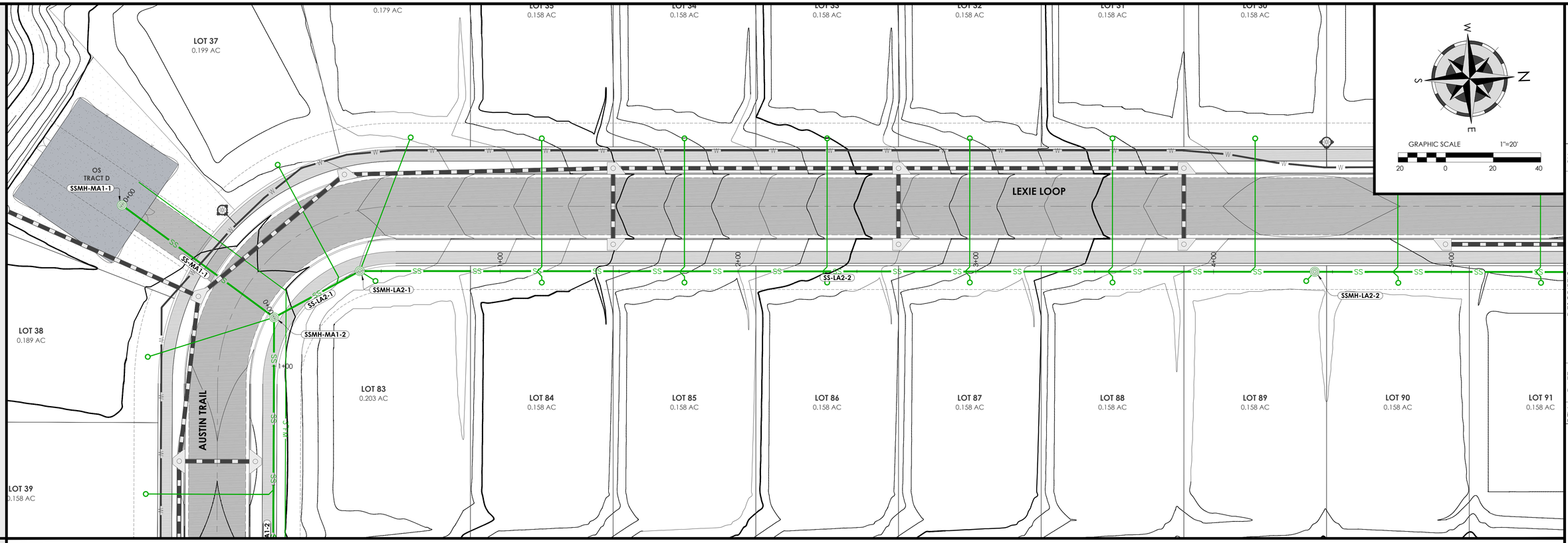
STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18698
ERIC HOLLOWAY
10/9/26

CERTIFICATE OF AUTHORIZATION
Holloway Engineering, Surveying & Civil Design, PLLC
#1879
ARKANSAS - ENGINEERING

JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

C5.06

PLAN VIEW - SCALE 1"=20'



PROFILE VIEW - SCALE 1"=20'

SANITARY SEWER LATERAL 2
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

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REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS

SANITARY SEWER P&P LATERAL 2 (1 OF 3)

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18698
ERIC HOLLOWAY
10/9/26

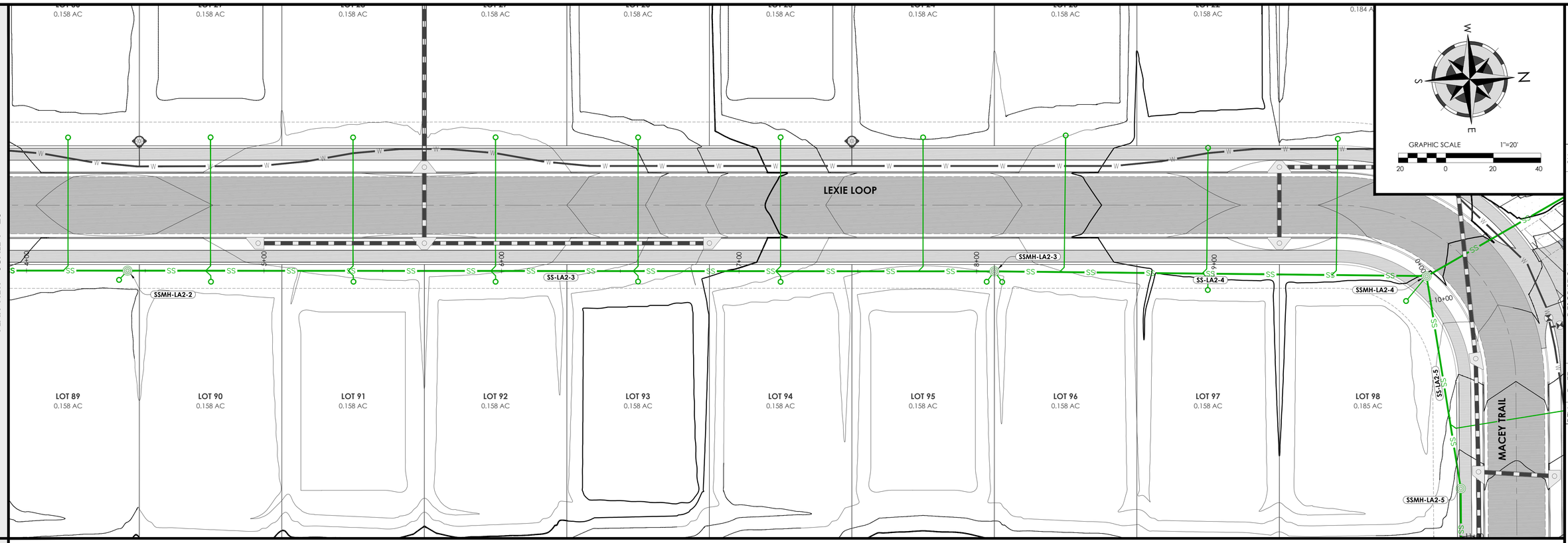
CERTIFICATE OF AUTHORIZATION
Holloway Engineering, Surveying & Civil Design, PLLC
#1879
ARKANSAS - ENGINEERING

JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

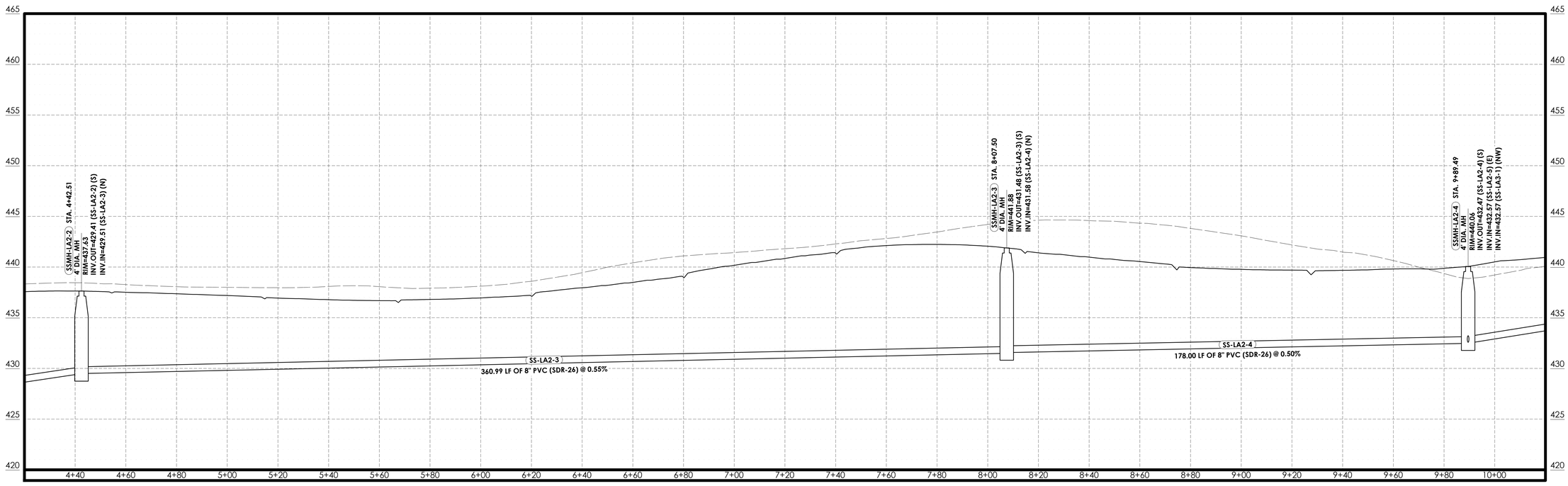
C5.07

L:\2026\2026-071 - Daryl Bryant 26 Ac project\Drawings\Sheets\C5.00 SANITARY SEWER OVERVIEW.dwg

PLAN VIEW - SCALE 1"=20'



PROFILE VIEW - SCALE 1"=20'



PROPOSED
EXISTING

SANITARY SEWER LATERAL 2
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

Holloway Engineering, Surveying & Civil Design

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www.holloway-eng.com

REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS

SANITARY SEWER P&P LATERAL 2 (2 OF 3)

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 18698
ERIC HOLLOWAY
10/9/26

CERTIFICATE OF AUTHORIZATION
Holloway Engineering, Surveying & Civil Design, PLLC
#1879
ARKANSAS · ENGINEERING

JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

C5.08

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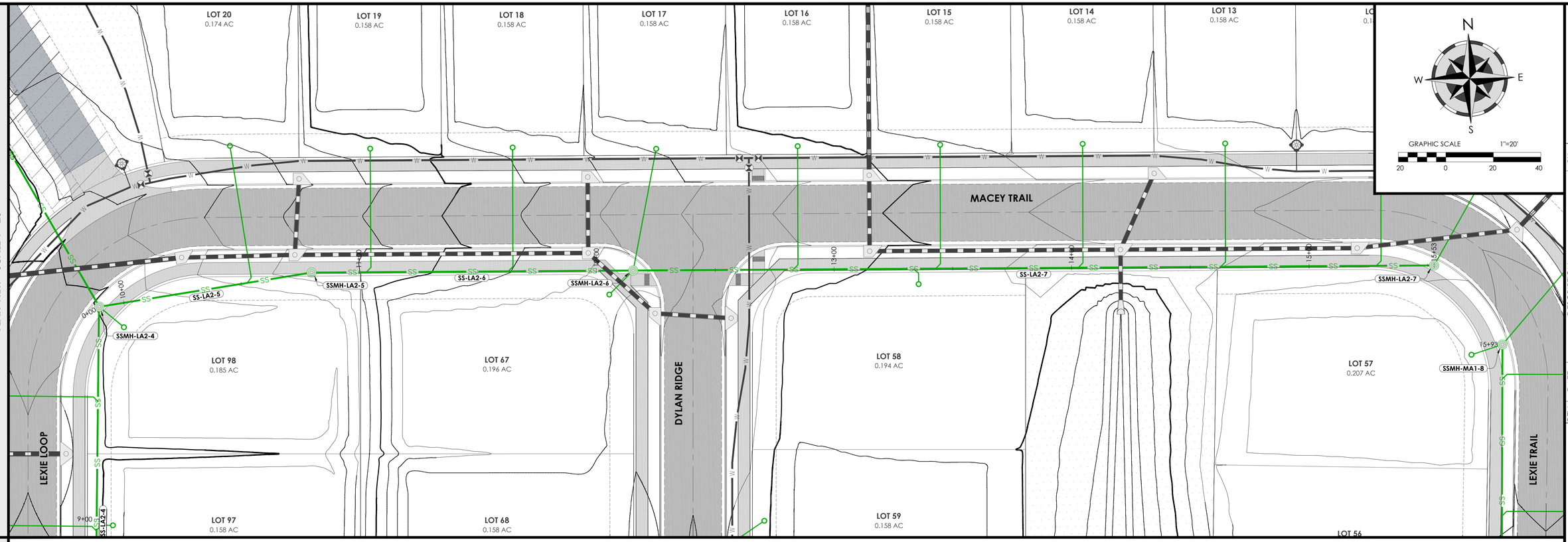

PROFILE VIEW - SCALE 1"=20'

PROPOSED
EXISTING

SANITARY SEWER LATERAL 2
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

CLASS 7 BACKFILL MIN.
95% COMPACTION (TYP.)

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(501) 851-3366
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REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS

SANITARY SEWER P&P LATERAL 2 (3 OF 3)

STATE OF ARKANSAS
ERIC HOLLOWAY
LICENSED PROFESSIONAL ENGINEER
No. 18898
10/9/26

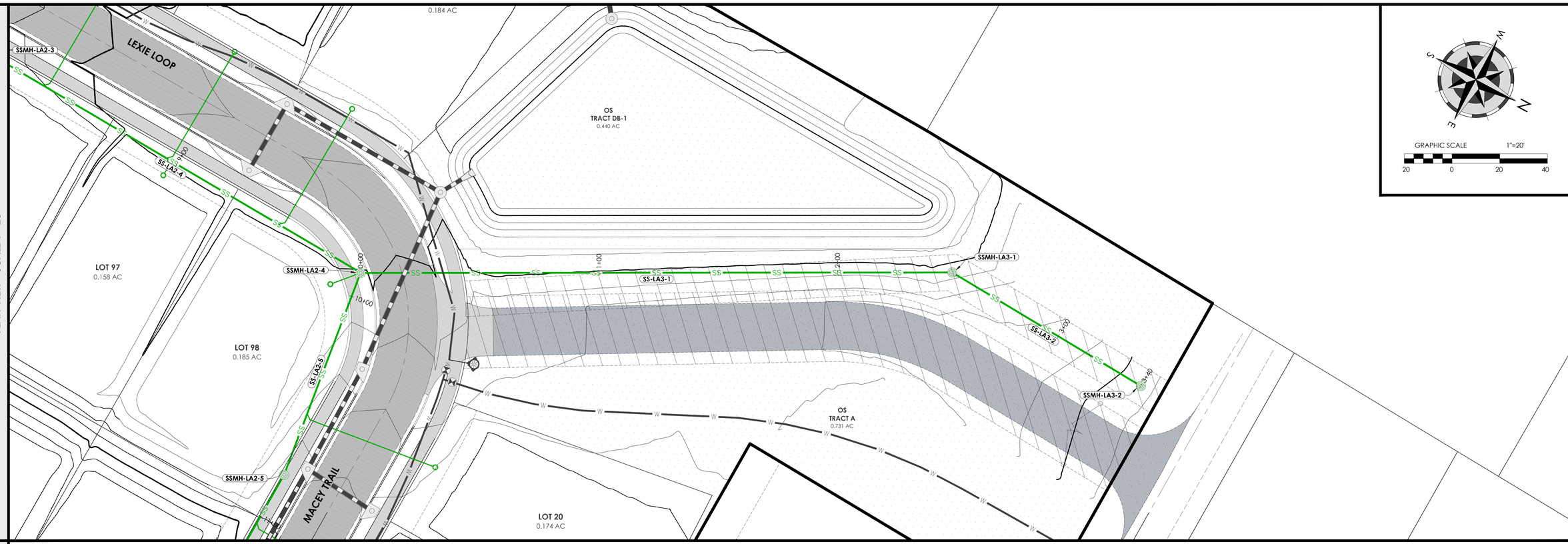
CERTIFICATE OF AUTHORIZATION
Holloway Engineering, Surveying & Civil Design, PLLC
#1879
ARKANSAS - ENGINEERING

JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

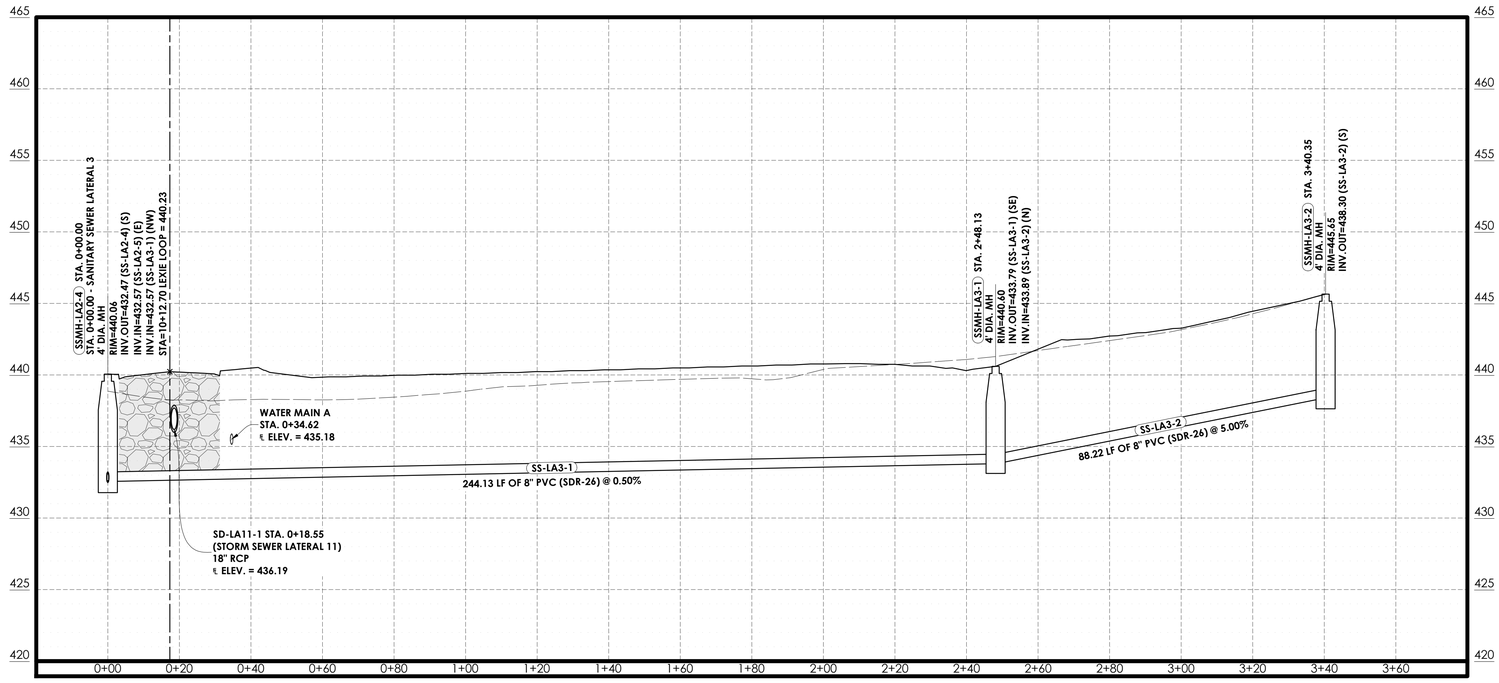
C5.09

L:\2026\2026-071 - Daryl Bryant 26 Ac project\Drawings\Sheets\C5.00 SANITARY SEWER OVERVIEW.dwg

PLAN VIEW - SCALE 1"=20'



PROFILE VIEW - SCALE 1"=20'



PROPOSED
EXISTING

SANITARY SEWER LATERAL 3
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

CLASS 7 BACKFILL MIN.
95% COMPACTION (TYP.)

Holloway Engineering,
Surveying & Civil Design

200 Casey Drive
Maumelle, AR 72113
(501) 851-3366
www.holloway-eng.com

REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS

SANITARY SEWER P&P LATERAL 3

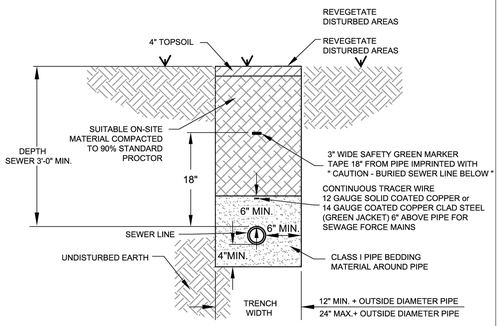
STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18698
ERIC HOLLOWAY
10/9/26

CERTIFICATE OF AUTHORIZATION
Holloway Engineering, Surveying & Civil Design, PLLC
#1879
ARKANSAS - ENGINEERING

JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

C5.10

L:\2026\2026-071 - Daryl Bryant 26 Ac project\Drawings\Sheets\C5.00 SANITARY SEWER OVERVIEW.dwg



NOTES:

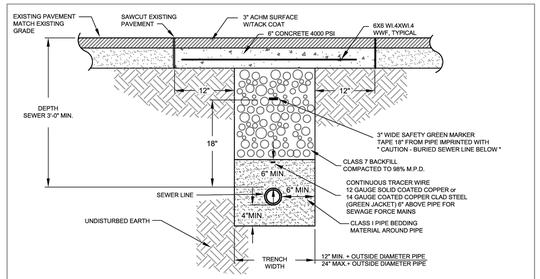
1. THE CONTRACTOR SHALL PROVIDE ALL ITEMS NECESSARY TO CONNECT WITH ANY PART OF THE EXISTING SEWER SYSTEM THAT WILL REMAIN IN ORDER TO ESTABLISH A SATISFACTORY AND ACCEPTABLE SEWER SYSTEM.
2. CONTRACTOR TO CONSTRUCT ALL TRENCH EXCAVATION IN ACCORDANCE WITH ALL OSHA REGULATIONS (29 CFR CH.XVII, SUBPART B)
3. TRENCH SHALL BE EXCAVATED BELOW GRADE REQUIRED TO PROVIDE A MINIMUM 36" OF PIPE COVER.

SEWER TRENCH

(NON-PAVED AREA)

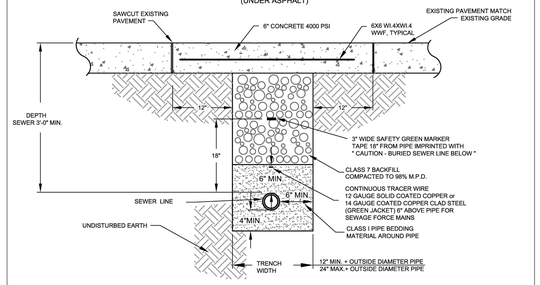
CITY OF BRYANT, AR WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0488	TITLE: **SEWER DETAILS** DESCRIPTION: **SEWER TRENCH (NON-PAVED AREA)**	DATE: APRIL 2015 REVISED ----- ----- ----- -----	SHEET: **S1**	
	DRAWN BY:	CHECKED BY:	FILE: S1--Sewer Trench (Non-Paved Area).dwg	

4/9/2015 10:56:09 AM



SEWER TRENCH

(UNDER ASPHALT)



SEWER TRENCH

(UNDER CONCRETE)

NOTES:

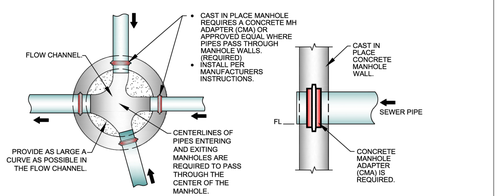
1. THE CONTRACTOR SHALL PROVIDE ALL ITEMS NECESSARY TO CONNECT WITH ANY PART OF THE EXISTING SEWER SYSTEM THAT WILL REMAIN IN ORDER TO ESTABLISH A SATISFACTORY AND ACCEPTABLE SEWER SYSTEM.
2. CONTRACTOR TO CONSTRUCT ALL TRENCH EXCAVATION IN ACCORDANCE WITH ALL OSHA REGULATIONS (29 CFR CH.XVII, SUBPART B)
3. TRENCH SHALL BE EXCAVATED BELOW GRADE REQUIRED TO PROVIDE A MINIMUM 36" OF PIPE COVER.

CITY OF BRYANT, AR WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0488	TITLE: **SEWER DETAILS** DESCRIPTION: **SEWER TRENCH (UNDER PAVEMENT)**	DATE: APRIL 2015 REVISED ----- ----- ----- -----	SHEET: **S2**	
	DRAWN BY:	CHECKED BY:	FILE: S2--Sewer Trench (Under Pavement).dwg	

4/9/2015 10:56:01 AM

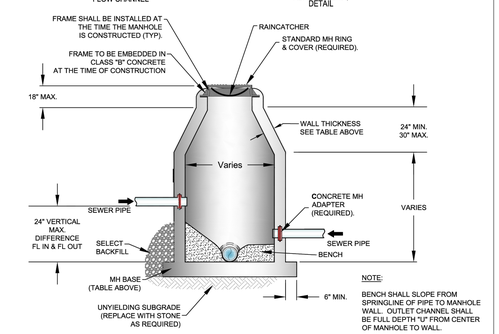
Inside Diameter of Manhole	Minimum Wall Thickness	Base Thickness	Minimum Ring & Cover Size
4' DIA	6"	6"	24" (< or Equal to 24" Pipes)
5' DIA	8"	8"	
6' DIA	8"	12"	36" (> 24" Pipes)

MANHOLE INFORMATION TABLE



MANHOLE FLOW CHANNEL

CONCRETE MANHOLE ADAPTER (CMA) DETAIL



NOTE:

BENCH SHALL SLOPE FROM SPRINGLINE OF PIPE TO MANHOLE WALL. OUTLET CHANNEL SHALL BE FULL DEPTH "U" FROM CENTER OF MANHOLE TO WALL.

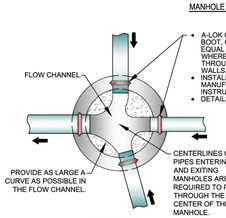
CAST-IN-PLACE MANHOLE

CITY OF BRYANT, AR WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0488	TITLE: **SEWER DETAILS** DESCRIPTION: **CAST-IN-PLACE MANHOLE**	DATE: APRIL 2015 REVISED ----- ----- ----- -----	SHEET: **S4**	
	DRAWN BY:	CHECKED BY:	FILE: S4--Cast In Place Manhole.dwg	

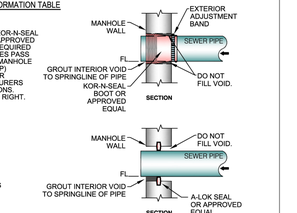
4/9/2015 10:56:22 AM

Inside Diameter of Manhole	Minimum Wall Thickness	Base Thickness	Minimum Ring & Cover Size
4' DIA	5"	6"	24" (< or Equal to 24" Pipes)
5' DIA	7"	8"	
6' DIA	7"	8"	36" (> 24" Pipes)

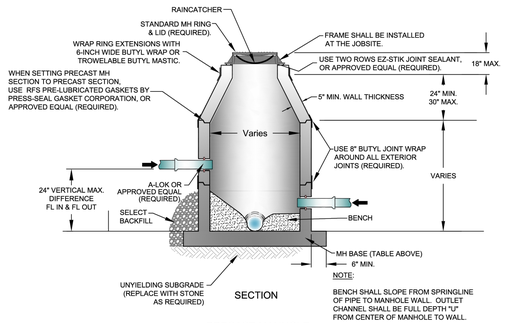
MANHOLE INFORMATION TABLE



MANHOLE FLOW CHANNEL



CONNECTION DETAILS



SECTION

NOTE:

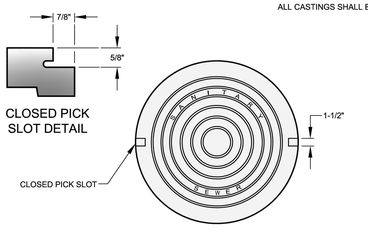
BENCH SHALL SLOPE FROM SPRINGLINE OF PIPE TO MANHOLE WALL. OUTLET CHANNEL SHALL BE FULL DEPTH "U" FROM CENTER OF MANHOLE TO WALL.

PRECAST MANHOLE

CITY OF BRYANT, AR WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0488	TITLE: **SEWER DETAILS** DESCRIPTION: **PRECAST MANHOLE**	DATE: APRIL 2015 REVISED ----- ----- ----- -----	SHEET: **S5**	
	DRAWN BY:	CHECKED BY:	FILE: S5--Precast Manhole.dwg	

4/9/2015 10:56:30 AM

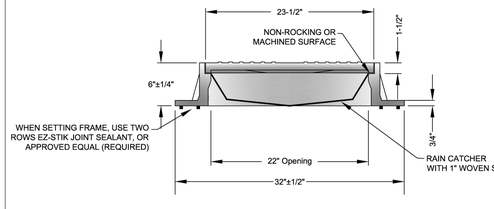
ALL CASTINGS SHALL BE "MADE IN USA"



COVER DETAIL

1. MINIMUM WEIGHT OF RING: 100 POUNDS
2. MINIMUM WEIGHT OF COVER: 110 POUNDS
3. COVERS ARE FURNISHED WITH TWO CLOSED PICK SLOTS.
4. CASTINGS SHALL BE "MADE IN USA"

* DIMENSIONAL TOLERANCES SHALL NOT EXCEED 1/16 INCH PER FOOT



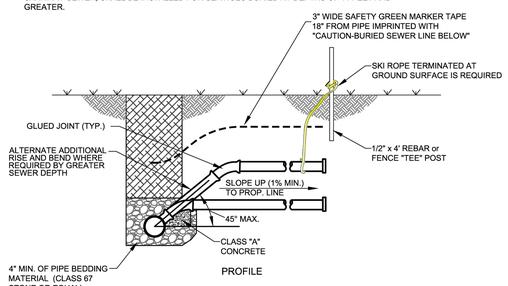
FRAME AND COVER DETAIL

CITY OF BRYANT, AR WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0488	TITLE: **SEWER DETAILS** DESCRIPTION: **MANHOLE FRAME AND COVER**	DATE: APRIL 2015 REVISED ----- ----- ----- -----	SHEET: **S6**	
	DRAWN BY:	CHECKED BY:	FILE: S6--Manhole Frame and Cover.dwg	

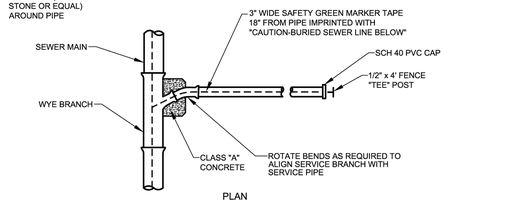
4/9/2015 10:56:51 AM

NOTES:

1. MODIFIED RISER LATERAL SHALL BE USED WHEN DEPTH OF COVER EXCEEDS 7'-0"
2. PLACE CLASS "A" CONCRETE UNDER EACH WYE BRANCH TO PREVENT CRACKING OR TWISTING UNDER EARTH LOADS.
3. SERVICE LATERAL STUBS SHALL TERMINATE AT LEAST 2 FEET INSIDE THE PROPERTY LINE BUT IN NO CASE SHALL THE SERVICE LATERAL STUB TERMINATE AT A DISTANCE LESS THAN 8 FEET FROM THE SANITARY SEWER MAIN.
4. BURY A 1/2" x 4' STEEL TEE FENCE POST AT END OF SERVICE LATERAL STUB AND BACKFILL TO FINISHED GRADE OF PROPERTY.
5. 4" DUCTILE IRON PIPE, LINED FOR SANITARY SEWER AND 4" DUCTILE IRON M.J. FITTINGS, LINED FOR SANITARY SEWER, SHALL BE INSTALLED FOR SERVICES BURIED AT DEPTHS OF 14 FEET AND GREATER.



PROFILE

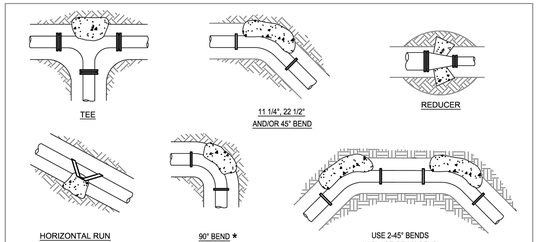


PLAN

SEWER SERVICE LATERAL

CITY OF BRYANT, AR WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0488	TITLE: **SEWER DETAILS** DESCRIPTION: **SEWER SERVICE LATERAL**	DATE: APRIL 2015 REVISED ----- ----- ----- -----	SHEET: **S15**	
	DRAWN BY:	CHECKED BY:	FILE: S15--Sewer Service Lateral.dwg	

4/9/2015 10:59:06 AM



THRUST BLOCK SCHEDULE

(2000 PSF SOIL, 200 PSI WATER PRESSURE, 160 PSI WATER HAMMER)

	BEARING AREA OF THRUST BLOCKS IN SQ. FT. (HORIZONTAL BENDS)					VOLUME OF THRUST BLOCK IN CU. FEET (VERTICAL BENDS)					
			BEND ANGLE				BEND ANGLE				
FITTING SIZE	PLUG TEE OR CAP	90° *	45°	22 1/2°	11 1/4°	FITTING SIZE	90° *	45°	22 1/2°	11 1/4°	ROD DIAM.
2, 3, & 4	1.8	2.7	1.4	0.7	0.4	2, 3, & 4	35.5	19.2	9.8	4.9	.50"
6	5.6	7.9	4.3	2.2	1.1	6	105.8	57.2	29.2	14.7	.75"
8	9.6	13.5	7.4	3.8	1.9	8	181.9	98.5	50.2	25.2	.75"
10	20.5	29.0	15.7	8.0	4.0	10	387.1	209.5	106.8	53.7	1.0"
16	35.7	50.4	27.3	13.9	7.0	16	672.6	364.0	185.8	93.2	1.0"
18	44.8	63.4	34.3	17.5	8.8	18	844.7	457.2	233.1	117.1	1.0"
24	78.4	110.8	60.0	30.6	15.4	24	1478.7	800.3	408.0	205.0	1.2"

* 90 DEGREE BENDS SHALL ONLY BE USED ON A BY-EXCEPTION BASIS, AND MUST EACH BE SPECIFICALLY APPROVED BY CITY.

THRUST BLOCK NOTES:

1. CONCRETE FOR THRUST BLOCKS - CLASS A CONCRETE SHALL DEVELOP NOT LESS THAN 3000 P.S.I. COMPRESSIVE STRENGTH AT 28 DAYS AND BE PLACED AGAINST UNDISTURBED SOIL.
2. ALL BENDS, BOTH HORIZONTAL AND VERTICAL, SHALL BE BACKED WITH CONCRETE. VERTICAL BENDS SHALL BE PLACED ON CONCRETE PADS WHERE BENDS TURN UP, OR LOADED WHERE BENDS TURN DOWN.
3. WRAP PIPE JOINTS IN 8 MIL "POLYETHLENE" BEFORE PLACING CONCRETE.
4. BEARING AREA SHOWN IN TABLE, IS BASED UPON A 2000 LB/SF. SOIL BEARING, AND UPON A PIPELINE PRESSURE OF 200 psi. PLUS 100 psi. WATER HAMMER. AREAS SHOWN SHALL BE ADJUSTED, SHOULD FIELD CONDITIONS VARY.
5. MJ RESTRAINTS ARE REQUIRED FOR ALL FITTINGS.
6. USE LONG-RADIUS FITTINGS WHEREVER POSSIBLE.
7. ALL BOLTS FOR FITTINGS SHALL BE 316 STAINLESS STEEL.
8. ALL DUCTILE IRON FITTINGS SHALL BE FUSION-BONDED EPOXY COATED INSIDE AND OUTSIDE IN ACCORDANCE WITH ANSI/AWWA/ C116/A21.16.
9. UNIT WEIGHT OF CONCRETE FOR VERTICAL THRUST BLOCKS IS 150 LBS/CU. FT.

THRUST BLOCKING

CITY OF BRYANT, AR WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0488	TITLE: **SEWER DETAILS** DESCRIPTION: **FORCE MAIN THRUST BLOCKING**	DATE: APRIL 2015 REVISED ----- ----- ----- -----	SHEET: **S25**	
	DRAWN BY:	CHECKED BY:	FILE: S25--Thrust Blocking.dwg	

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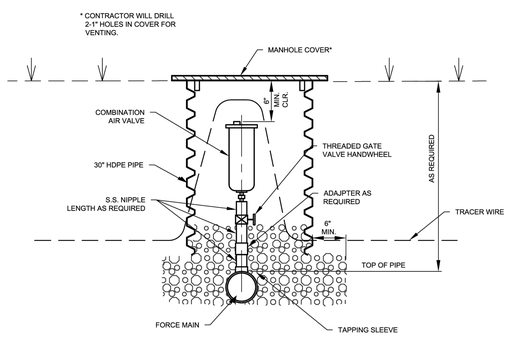
* CONTRACTOR WILL DRILL 2-1" HOLES IN COVER FOR VENTING.



AIR RELEASE VALVE

CITY OF BRYANT, AR WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0488	TITLE: **SEWER DETAILS** DESCRIPTION: **AIR RELEASE VALVE**	DATE: APRIL 2015 REVISED ----- ----- ----- -----	SHEET: **S26**	
	DRAWN BY:	CHECKED BY:	FILE: S26--Air Release Valve.dwg	

4/9/2015 10:59:50 AM

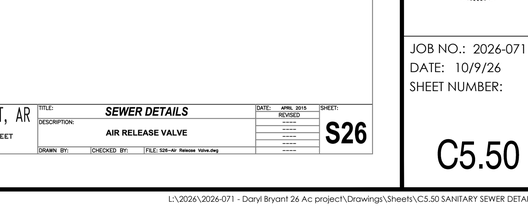
Holloway Engineering, Surveying & Civil Design

200 Casey Drive
Maumelle, AR 72113
(501) 851-3366
www.holloway-eng.com

REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS

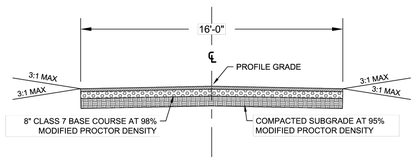
SANITARY SEWER DETAILS (1 OF 2)



JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

C5.50

L:\2026\2026-071 - Daryl Bryant 26 Ac project\Drawings\Sheets\C5.50 SANITARY SEWER DETAILS.dwg



GRAVEL DRIVE FOR SEWAGE PUMP STATION

GENERAL NOTES

1. CRUSHED STONE - MATERIAL IN EACH COURSE SHALL BE COMPACTED TO A DENSITY OF 98% MAXIMUM MODIFIED DENSITY.

CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0488

TITLE: **SEWER DETAILS**
DESCRIPTION: **GRAVEL DRIVE FOR SEWAGE PUMP STATION**
DRAWN BY: | CHECKED BY: | FILE: 532-Gravel Drive For Sewage Pump Station.dwg

DATE:	APRIL 2015
REVISED	

SHEET: **S32**

Holloway Engineering,
Surveying & Civil Design

200 Casey Drive
Maumelle, AR 72113
(501) 851-3366
www.holloway-eng.com

REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS

SANITARY SEWER DETAILS (2 OF 2)

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18898
ERIC HOLLOWAY
10/9/26

CERTIFICATE OF AUTHORIZATION
Holloway Engineering, Surveying & Civil Design, PLLC
#1879
ARKANSAS ENGINEER NO.

JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

C5.51

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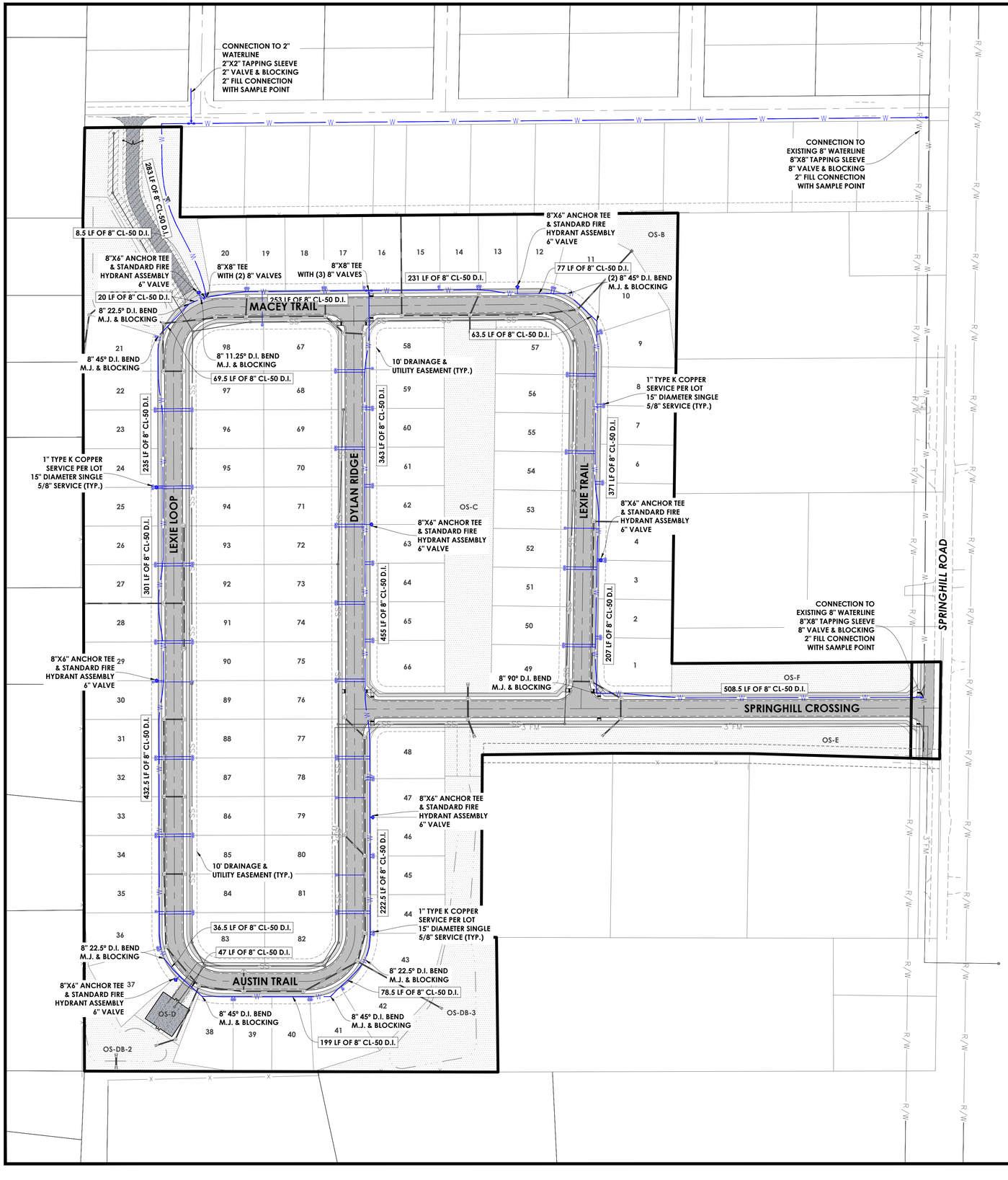
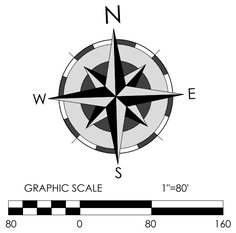


811 Know what's below. Call before you dig.

CAUTION: UNDERGROUND UTILITIES EXIST WITHIN AND ADJACENT TO THE LIMITS OF CONSTRUCTION AND AN ATTEMPT HAS BEEN MADE TO LOCATE THESE UTILITIES ON THE PLANS. HOWEVER, ALL EXISTING UTILITIES MAY NOT BE SHOWN AND THE ACTUAL LOCATIONS OF THE UTILITIES MAY VARY FROM THE LOCATIONS SHOWN. PRIOR TO BEGINNING ANY TYPE OF EXCAVATION, THE CONTRACTOR SHALL CONTACT THE UTILITIES INVOLVED AND MAKE ARRANGEMENTS FOR THE LOCATION OF THE UTILITIES ON THE GROUND. THE CONTRACTOR SHALL MAINTAIN THE UTILITY LOCATION MARKINGS UNTIL THEY ARE NO LONGER NECESSARY. ARKANSAS STATE LAW, THE UNDERGROUND FACILITIES DAMAGE PREVENTION ACT, REQUIRES TWO WORKING DAYS ADVANCE NOTIFICATION THROUGH THE ARKANSAS ONE-CALL SYSTEM CENTER BEFORE EXCAVATING USING MECHANIZED EQUIPMENT OR EXPLOSIVES (EXCEPT IN THE CASE OF AN EMERGENCY). THE ONE-CALL SYSTEM PHONE NUMBER IS 1-800-482-8998. THE CONTRACTOR IS ADVISED THAT THERE IS A SEVERE PENALTY FOR NOT MAKING THIS CALL. NOT ALL UTILITY COMPANIES ARE MEMBERS OF THE ARKANSAS ONE-CALL SYSTEM; THEREFORE, THE CONTRACTOR IS ADVISED TO CONTACT ALL NON-MEMBER UTILITIES, AS WELL AS THE ONE-CALL SYSTEM.



NOTES:

1. COORDINATE ALL UTILITY WORK WITH PULASKI COUNTY. COORDINATE AND CONSTRUCT ALL WATERLINES TO MEET THE LATEST EDITION OF BRYANT WATER DISTRIBUTION.
2. ALL WATERLINES GREATER THAN 3" SHALL BE CLASS 50 DUCTILE IRON & ALL WATERLINES LESS THAN 3" SHALL BE PVC SDR 17 RATED FOR 250 PSI. ALL WATER SERVICE LINES TO BE TYPE "K" COPPER.
3. SIZE AND LOCATION FOR SERVICES AND FIRE PROTECTION LINES TO BE COORDINATED WITH ARCHITECTURAL PLANS.
4. ALL PVC MAIN SHALL BE BEDDED IN SAND, ASTM C144, OR CRUSHED STONE, ASTM C33 #67. BEDDING SHALL BE A MINIMUM OF 4" BELOW AND 3"-6" ABOVE THE PIPE IN NON-HARD ROCK TRENCH CONDITIONS. IN HARD ROCK TRENCH CONDITIONS, PLACE A MINIMUM OF 6"-9" BELOW THE PIPE. PVC PIPE SHALL NO BE PLACED WITH WORKING PRESSURES EXCEEDING 125 PSI.
5. ALL WATER MAINS ARE TO BE A MINIMUM OF 1' BELOW STORM DRAINS OR AS DIRECTED BY BRYANT WATER DISTRIBUTION. ALL WATERLINES SHALL HAVE 36" OF MIN. COVER.
6. CONTROL POINTS AND PROPERTY PINS EXCAVATED BY CONTRACTOR ARE TO BE REPLACED PRIOR TO FINAL PAYMENT.
7. ALL WATER MAINS, APPURTENANCES, AND SERVICES ARE TO BE TESTED AS STATED IN THE LATEST EDITION OF THE BRYANT WATER DISTRIBUTION'S STANDARDS AND SPECIFICATIONS.
8. HYDRANTS TO BE 2'-7" FROM THE PROPOSED BACK OF CURB.
9. STATIC AND RESIDUAL WATER PRESSURE FOR THE PROJECT WILL BE: STATIC PRESSURE = _____ PSI FIRE FLOW @ _____ GPM OF RESIDUAL PRESSURE = _____ PSI, _____ GPM OF RESIDUAL PRESSURE = _____ PSI. (LOCATION: ADDRESS, CITY, ZIP.
10. NORTH OF THE ARKANSAS RIVER, VALVES WILL OPERATE RIGHT OR LEFT, AS DETERMINED BY EXISTING ZONES (AREAS), SOUTH OF THE ARKANSAS RIVER, VALVES THREE (3)-INCHES AND LARGER WILL OPERATE RIGHT. TWO (2)-INCH VALVES AND ALL VALVES IN THE WYE MOUNTAIN SERVICE AREA AND THE PARON-OWENSVILLE SERVICE AREA WILL OPERATE LEFT.
11. ALL FIRE HYDRANTS TO OPEN RIGHT, EXCEPT IN THE CITY OF MAUMELLE, PARON-OWENSVILLE, AND WYE MOUNTAIN WHICH SHALL OPEN LEFT.
12. REVIEW TRENCH SAFETY, AS DESCRIBED IN THE LATEST EDITION BRYANT WATER DISTRIBUTION'S STANDARDS AND SPECIFICATIONS.
13. ALL TREES THAT DO NOT DIRECTLY INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE SPARED AS DIRECTED BY THE ENGINEER. CARE AND DISCRETION SHALL BE USED TO ENSURE THAT ALL TREES NOT TO BE REMOVED SHALL BE HARMED AS LITTLE AS POSSIBLE DURING THE CONSTRUCTION OPERATIONS.
14. A MINIMUM HORIZONTAL DISTANCE OF TEN FEET SHOULD BE MAINTAINED BETWEEN WATER LINES AND SEWER LINES. WATER MAINS NECESSARILY IN CLOSE PROXIMITY TO SEWERS MUST BE PLACED SO THAT THE BOTTOM OF THE WATER LINE WILL BE AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER LINE AT ITS HIGHEST POINT. IF THIS DISTANCE MUST UNAVOIDABLY BE REDUCED, THE WATER LINE OR THE SEWER LINE MUST BE ENCASED IN WATERTIGHT PIPE WITH SEALED WATERTIGHT ENDS EXTENDING AT LEAST TEN FEET EITHER SIDE OF THE CROSSING. ANY JOINT IN THE ENCASEMENT PIPE IS TO BE MECHANICALLY RESTRAINED. THE ENCASEMENT PIPE MAY BE VENTED TO THE SURFACE IF CARRYING WATER OR SEWER UNDER PRESSURE. WHERE A WATER LINE MUST UNAVOIDABLY PASS BENEATH THE SEWER LINE, AT LEAST 18 INCHES OF SEPARATION MUST BE MAINTAINED BETWEEN THE OUTSIDE OF THE TWO PIPES IN ADDITION TO THE PRECEDING ENCASEMENT REQUIREMENT. EXCEPTIONS TO THIS MUST BE APPROVED IN WRITING BY THE ARKANSAS DEPARTMENT OF HEALTH. A MINIMUM HORIZONTAL DISTANCE OF THREE FEET SHALL BE MAINTAINED BETWEEN WATER LINES AND OTHER UNDERGROUND UTILITIES OF A NON-SANITARY NATURE (GAS, ELECTRIC, ETC.). EXCEPTIONS TO THIS MUST BE APPROVED IN WRITING BY THE ARKANSAS DEPARTMENT OF HEALTH AND HUMAN SERVICES.
15. THE WATER MAIN WILL BE PUBLIC. THE FIRE HYDRANTS WILL BE PUBLIC.
16. CAUTION: UNDERGROUND UTILITIES EXIST WITHIN AND ADJACENT TO THE LIMITS OF CONSTRUCTION AND AN ATTEMPT HAS BEEN MADE TO LOCATE THESE UTILITIES ON THE PLANS. HOWEVER, ALL EXISTING UTILITIES MAY NOT BE SHOWN AND THE ACTUAL LOCATIONS OF THE UTILITIES MAY VARY FROM THE LOCATIONS SHOWN. PRIOR TO BEGINNING ANY TYPE OF EXCAVATION, THE CONTRACTOR SHALL CONTACT THE UTILITIES INVOLVED AND MAKE ARRANGEMENTS FOR THE LOCATION OF THE UTILITIES ON THE GROUND. THE CONTRACTOR SHALL MAINTAIN THE UTILITY LOCATION MARKINGS UNTIL THEY ARE NO LONGER NECESSARY.ARKANSAS STATE LAW, THE UNDERGROUND FACILITIES DAMAGE PREVENTION ACT, REQUIRES TWO WORKING DAYS ADVANCE NOTIFICATION THROUGH THE ARKANSAS ONE-CALL SYSTEM CENTER BEFORE EXCAVATING USING MECHANIZED EQUIPMENT OR EXPLOSIVES (EXCEPT IN THE CASE OF AN EMERGENCY). THE ONE-CALL SYSTEM PHONE NUMBER IS 811. THE CONTRACTOR IS ADVISED THAT THERE IS A SEVERE PENALTY FOR NOT MAKING THIS CALL, NOT ALL UTILITY COMPANIES ARE MEMBERS OF THE ARKANSAS ONE-CALL SYSTEM; THEREFORE, THE CONTRACTOR IS ADVISED TO CONTACT ALL NON-MEMBER UTILITIES, AS WELL AS THE ONE-CALL SYSTEM.
17. ALL D.I. WATER MAINS AND APPURTENANCES TO BE POLY WRAPPED. SITE IS TO BE GRADED TO WITHIN 0.1 FT OF FINAL GRADE PRIOR TO WATER MAIN INSTALLATION. ALL VALVES INSTALLED TO BE OPEN LEFT. ALL FITTINGS ON 6" AND GREATER WATER MAINS MUST BE M.J. WITH STANDARD CONCRETE THRUST BLOCKING.
18. ALL SIZE 3" OR GREATER VALVES INSTALLED IN THIS AREA SHALL BE OPEN LEFT.
19. LOCATE METER BOX ASSEMBLY WITHIN 1' OF R.O.W. LINE OR WITHIN EASEMENT.
20. CONTRACTOR IS TO INSTALL METER BOX, LID, SETTER AND 36" COPPER SERVICE LINE AFTER SETTER.
21. 5/8" SINGLE WATER METER SETTER TO BE INSTALLED.

Holloway Engineering, Surveying & Civil Design

200 Casey Drive
Maumelle, AR 72113
(501) 851-3366
www.holloway-eng.com

REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS
WATER PLAN

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18898
ERIC HOLLOWAY
10/9/26

CERTIFICATE OF AUTHORIZATION
Holloway Engineering, Surveying & Civil Design, PLLC
#1879

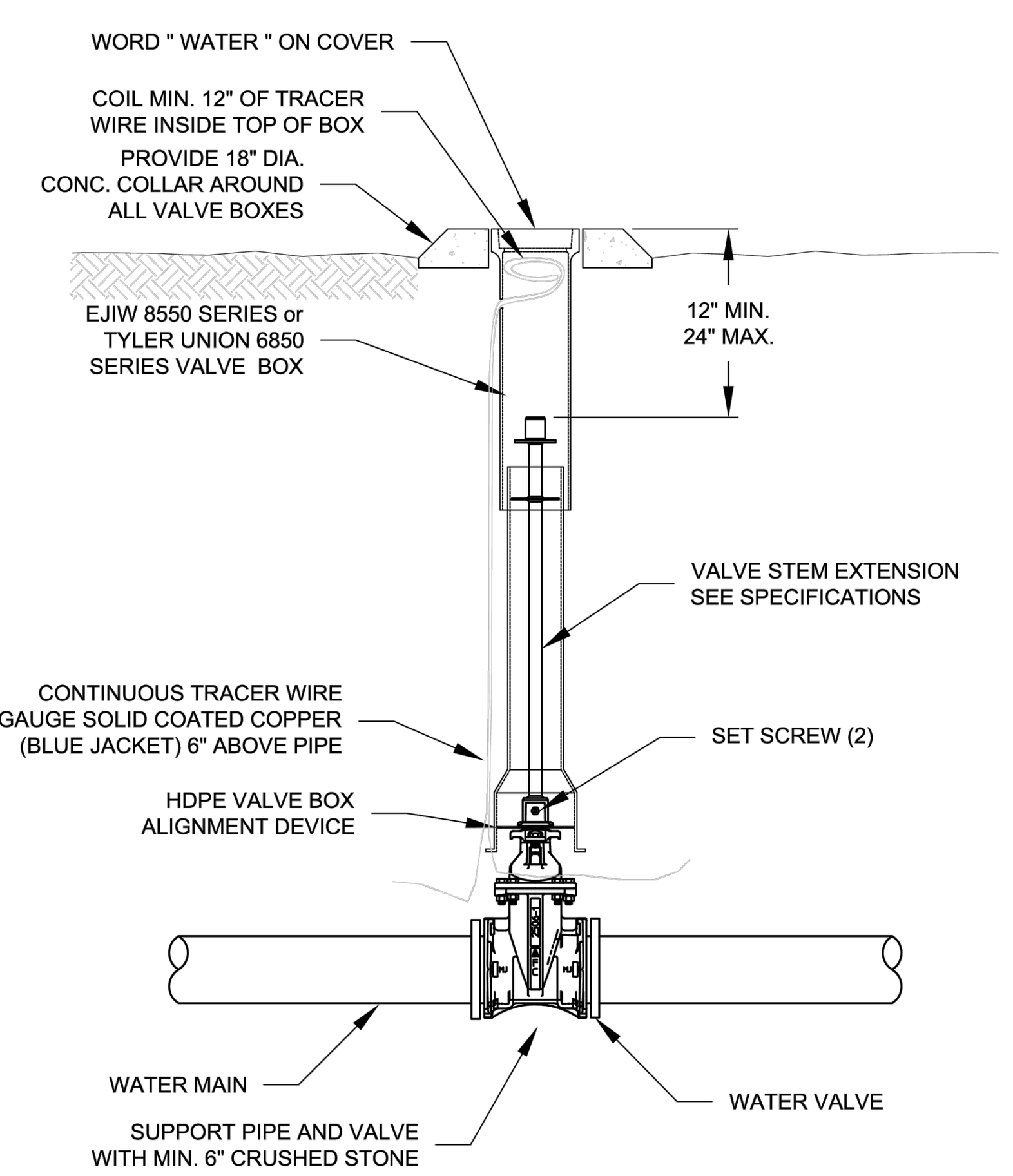
JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

C6.00

L:\2026\2026-071 - Daryl Bryant 26 Ac project\Drawings\Sheets\C6.00 WATER PLAN.dwg

NOTES:

1. OPERATING NUT EXTENSIONS SHALL BE USED WHEN THE TOP OF THE OPERATING NUT IS GREATER THAN 4 FEET FROM THE TOP OF FINISHED SURFACE.
2. THE STEM EXTENSION SHALL BE OF ADEQUATE LENGTH TO REACH FROM THE VALVE OPERATING NUT TO A POINT WITHIN 24-INCHES TO 12-INCHES OF THE FINISHED SURFACE.



VALVE WITH STEM EXTENSION

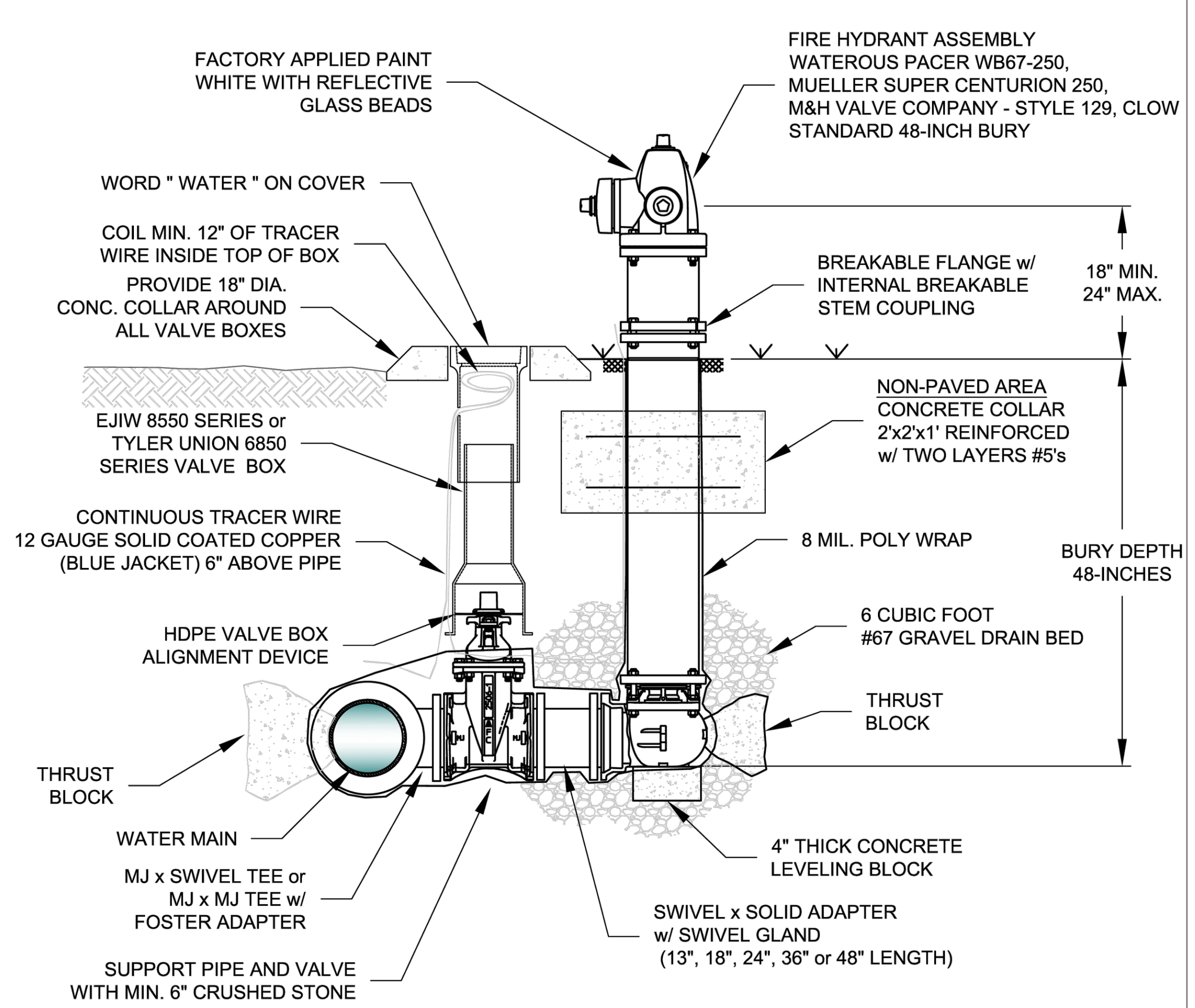
CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0468

TITLE: **WATER DETAILS** | DESCRIPTION: VALVE STEM EXTENSION | DATE: APRIL 2015 | REVISED | SHEET: **W7**
DRAWN BY: | CHECKED BY: | FILE: W7-Valve Stem Extension.dwg

4/16/2015 11:45:48 AM

NOTES:

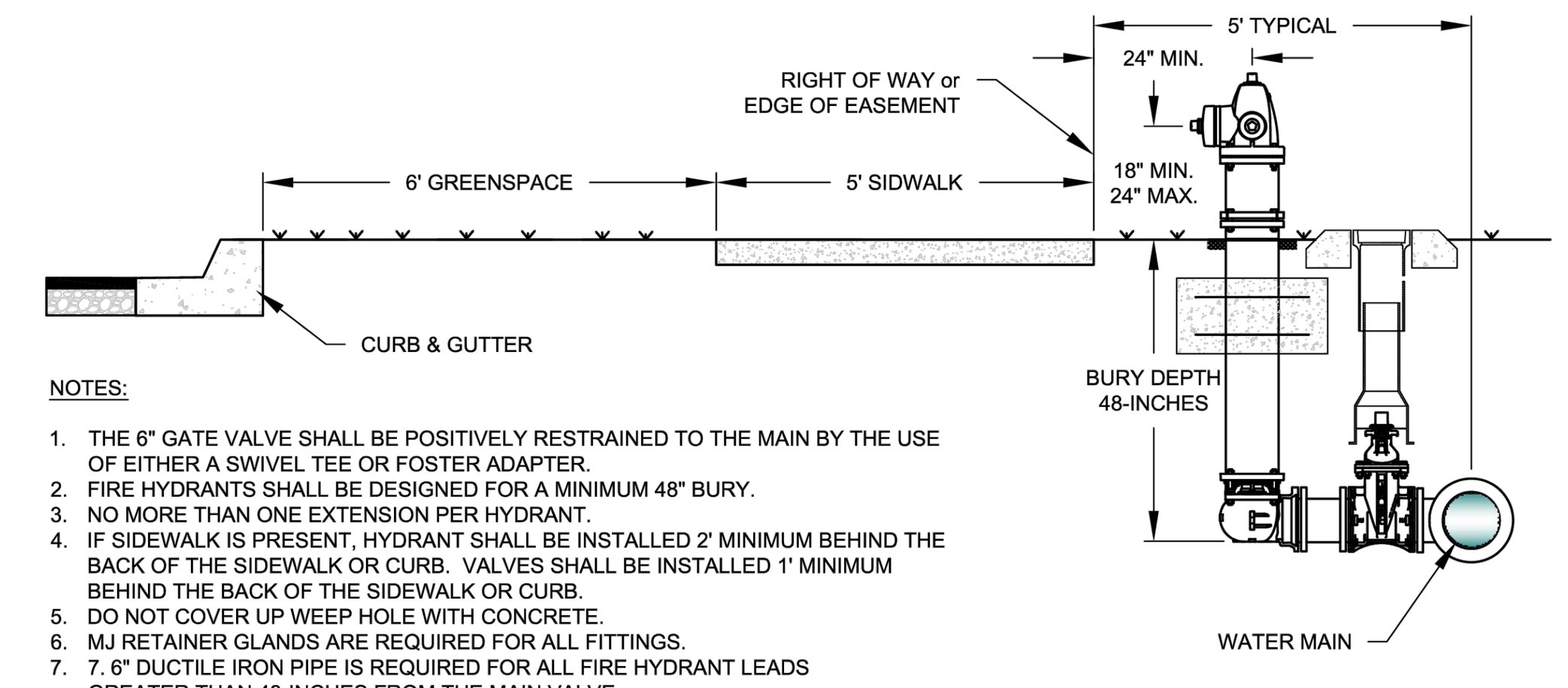
1. THE 6" GATE VALVE SHALL BE POSITIVELY RESTRAINED TO THE MAIN BY THE USE OF EITHER A SWIVEL TEE OR FOSTER ADAPTER.
2. FIRE HYDRANTS SHALL BE DESIGNED FOR A MINIMUM 48" BURY.
3. BURY LINE OF HYDRANT SHALL BE NO LESS THAN THE PROPOSED FINISHED ELEVATION OF BACK OF CURB, OR SIDEWALK, WHICHEVER IS GREATER.
4. NO MORE THAN ONE EXTENSION PER HYDRANT.
5. IF SIDEWALK IS PRESENT, HYDRANT SHALL BE INSTALLED 2' MINIMUM BEHIND THE BACK OF THE SIDEWALK OR CURB. VALVES SHALL BE INSTALLED 1' MINIMUM BEHIND THE BACK OF THE SIDEWALK OR CURB.
6. DO NOT COVER UP WEEP HOLE WITH CONCRETE.
7. MJ RETAINER GLANDS ARE REQUIRED FOR ALL FITTINGS.
8. 7. 6" DUCTILE IRON PIPE IS REQUIRED FOR ALL FIRE HYDRANT LEADS GREATER THAN 48-INCHES FROM THE MAIN VALVE.
9. AN ADDITIONAL GUARDIAN VALVE IS REQUIRED FOR ALL FIRE HYDRANT LEADS GREATER THAN 30 FEET IN LENGTH.



FIRE HYDRANT & VALVE CONNECTION

CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0468

TITLE: **WATER DETAILS** | DESCRIPTION: FIRE HYDRANT AND VALVE CONNECTION | DATE: APRIL 2015 | REVISED | SHEET: **W8**
DRAWN BY: | CHECKED BY: | FILE: W8-Fire Hydrant and Valve.dwg



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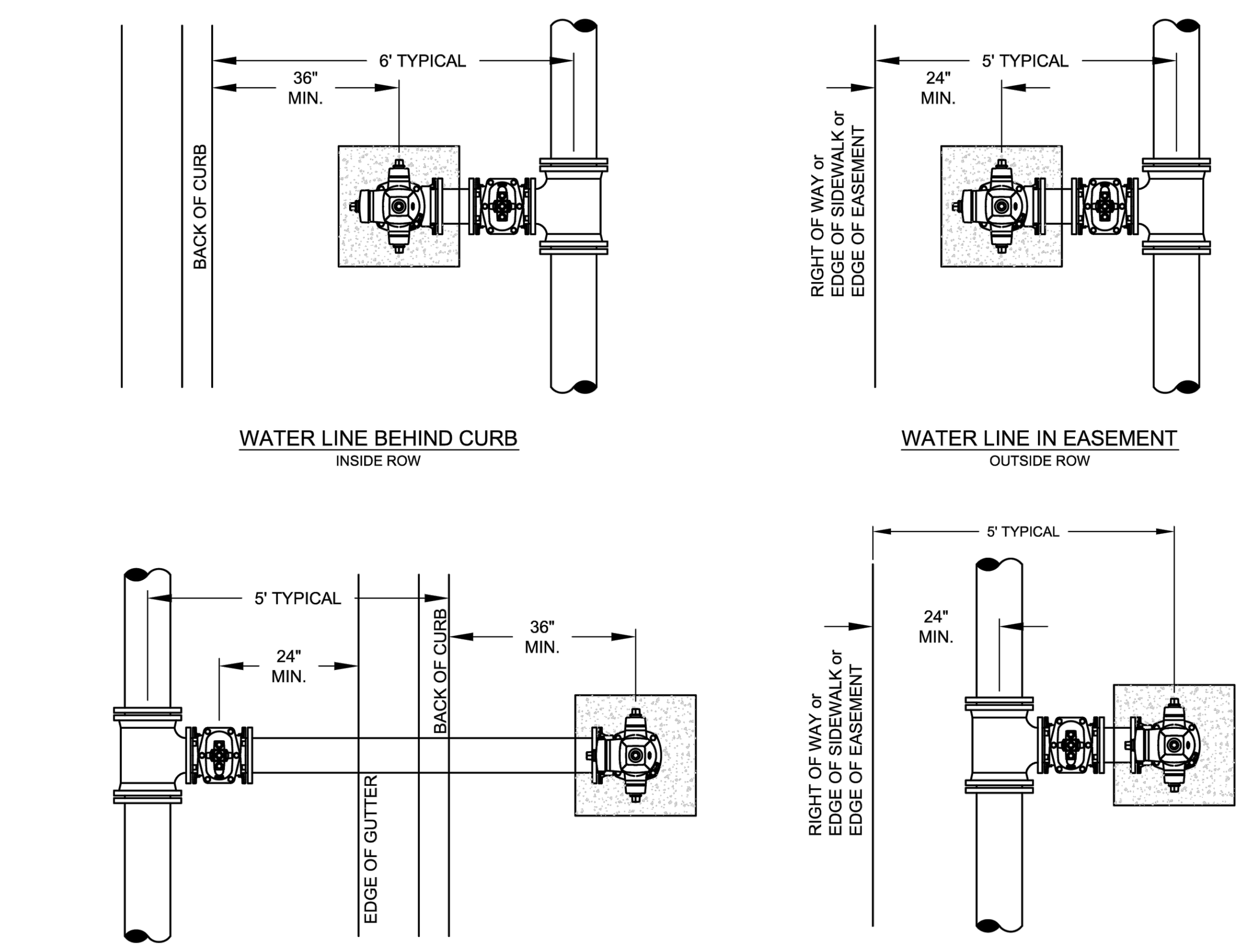


WATER LINE BEHIND CURB
INSIDE ROW

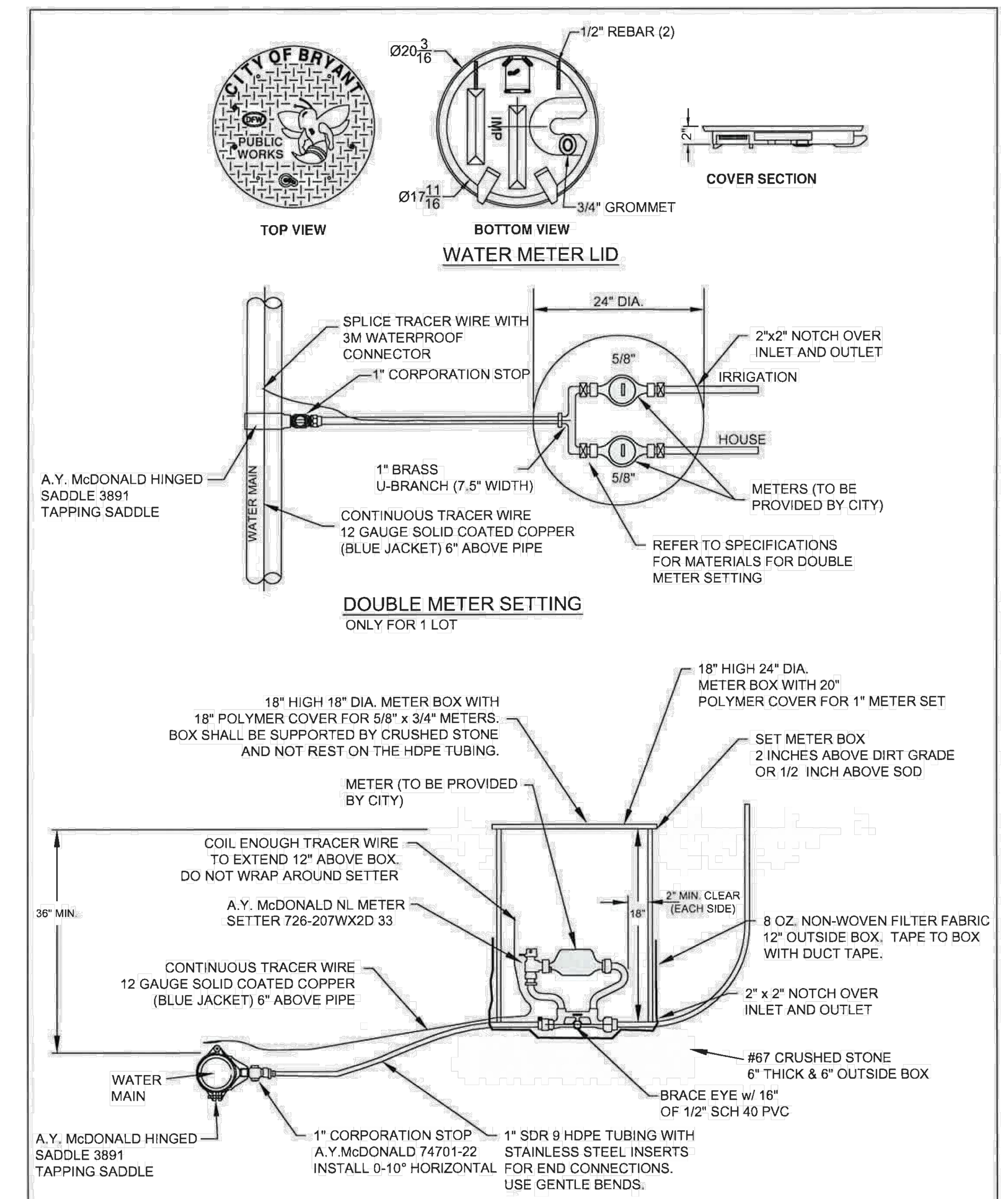
WATER LINE IN EASEMENT
OUTSIDE ROW

WATER LINE IN STREET
INSIDE ROW

WATER LINE IN EASEMENT
OUTSIDE ROW

CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0468

TITLE: **WATER DETAILS** | DESCRIPTION: FIRE HYDRANT PLACEMENT | DATE: APRIL 2015 | REVISED | SHEET: **W9**
DRAWN BY: | CHECKED BY: | FILE: W9-Fire Hydrant Placement.dwg

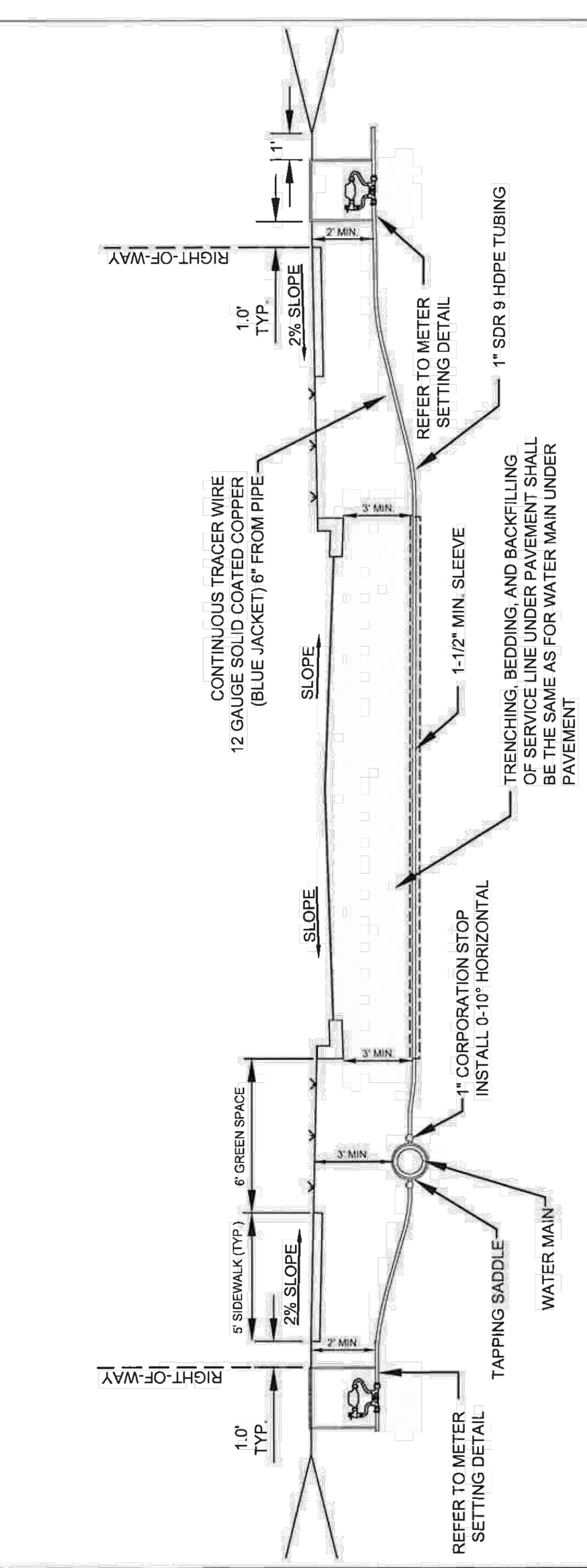


CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0468

TITLE: **WATER DETAILS** | DESCRIPTION: METER SETTINGS | DATE: APRIL 2015 | REVISED | SHEET: **W10**
DRAWN BY: | CHECKED BY: | FILE: W10-Meter Settings.dwg

NOTES:

1. ALL WATER & SANITARY SEWER TRENCHES WHICH ARE UNDER THE PROPOSED STREETS MUST BE BACKFILLED AS SHOWN ON THE TRENCHING, BEDDING, AND BACKFILL STANDARD DETAIL.
2. WATER AND SEWER LINES SHALL MAINTAIN A MINIMUM OF HORIZONTAL SEPARATION DISTANCE OF 10 FEET AT ALL TIMES.
3. WATER AND SEWER LINES SHALL MAINTAIN A MINIMUM VERTICAL SEPARATION OF 18 INCHES WITH THE WATER LINE CROSSING ABOVE THE SEWER LINE.
4. ALL CORP. STOPS SHALL BE INSTALLED AT 0-10° ANGLE FROM HORIZONTAL.
5. A MINIMUM OF 24-INCHES OF SEPARATION IS REQUIRED BETWEEN SERVICE TAPS.
6. ALL METER BOXES SHALL BE INSTALLED ON THE CUSTOMER SIDE OF THE WATER MAIN.
7. ALL METER BOXES SHALL BE INSTALLED IN NON-PAVED AREAS. ANY METER BOX THAT GETS PLACED IN A PAVED AREA SHALL BE RELOCATED AT THE OWNER'S EXPENSE BEFORE A WATER METER WILL BE INSTALLED.



SERVICE METER WITH WATER MAIN UNDER PAVEMENT

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WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0468

TITLE: **WATER DETAILS** | DESCRIPTION: METER SERVICE LINE UNDER PAVEMENT | DATE: APRIL 2015 | REVISED | SHEET: **W11**
DRAWN BY: | CHECKED BY: | FILE: W11-Meter Service Line Under Pavement.dwg

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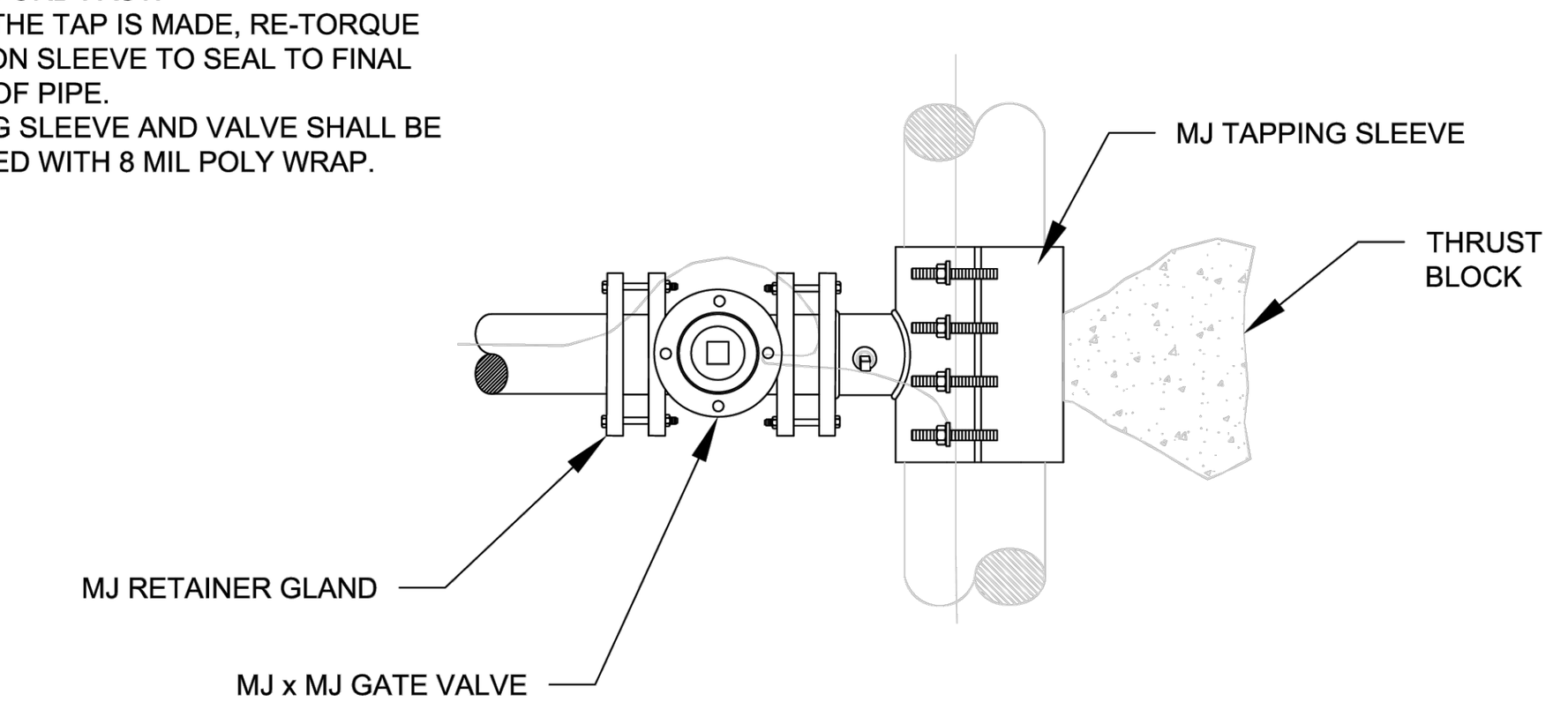
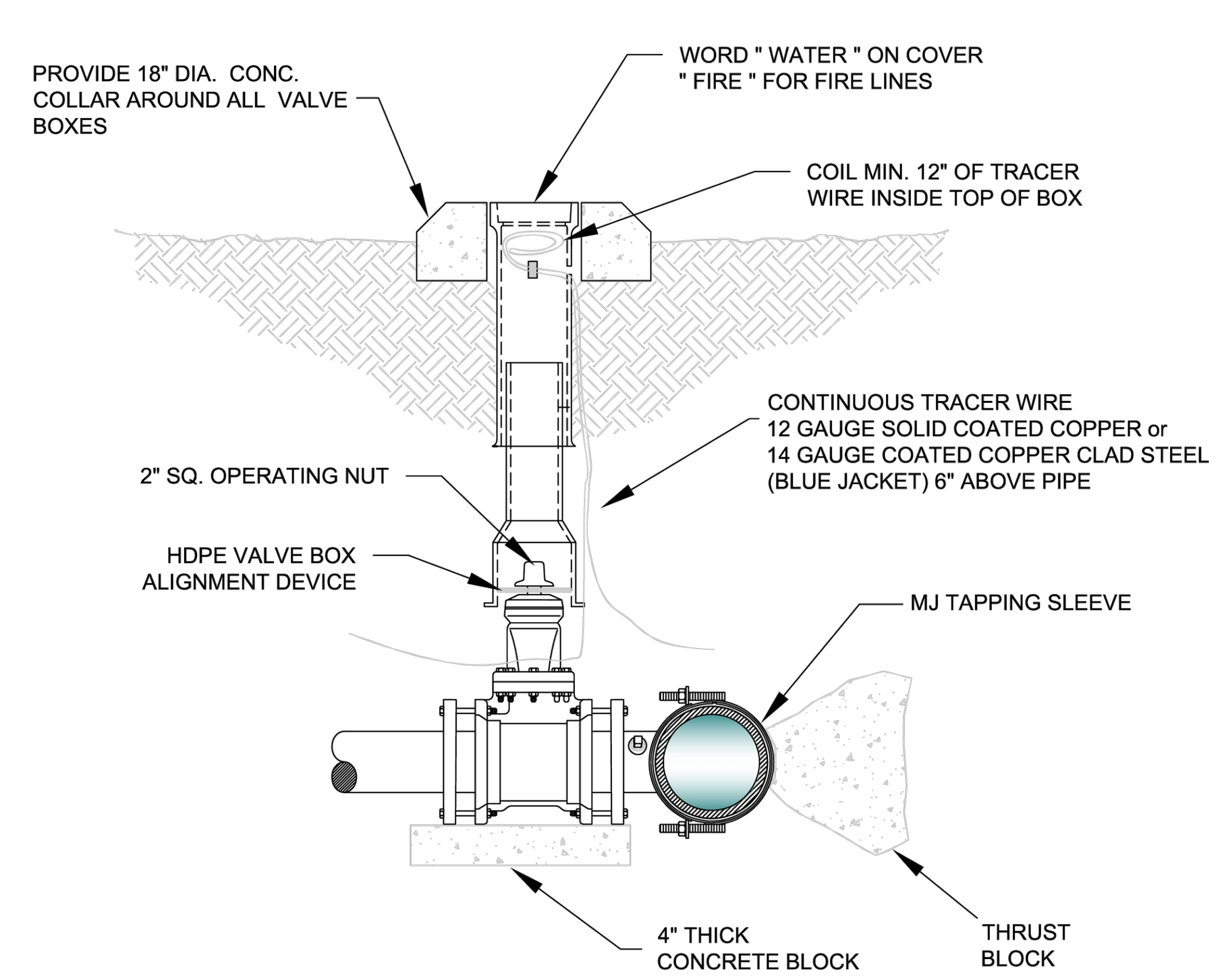
NOTES:

1. TAPPING SLEEVE SHALL BE SMITH-BLAIR 662 OR FORD FAST.
2. AFTER THE TAP IS MADE, RE-TORQUE BOLTS ON SLEEVE TO SEAL TO FINAL SHAPE OF PIPE.
3. TAPPING SLEEVE AND VALVE SHALL BE WRAPPED WITH 8 MIL POLY WRAP.



PLAN VIEW

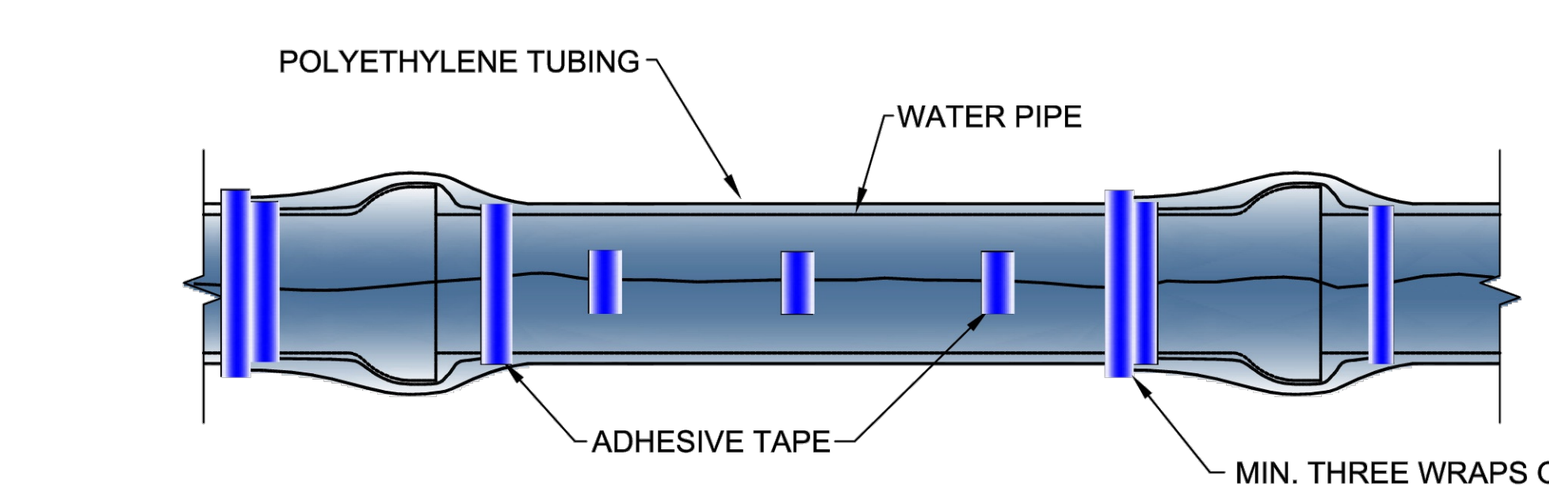


PROFILE VIEW

CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0468

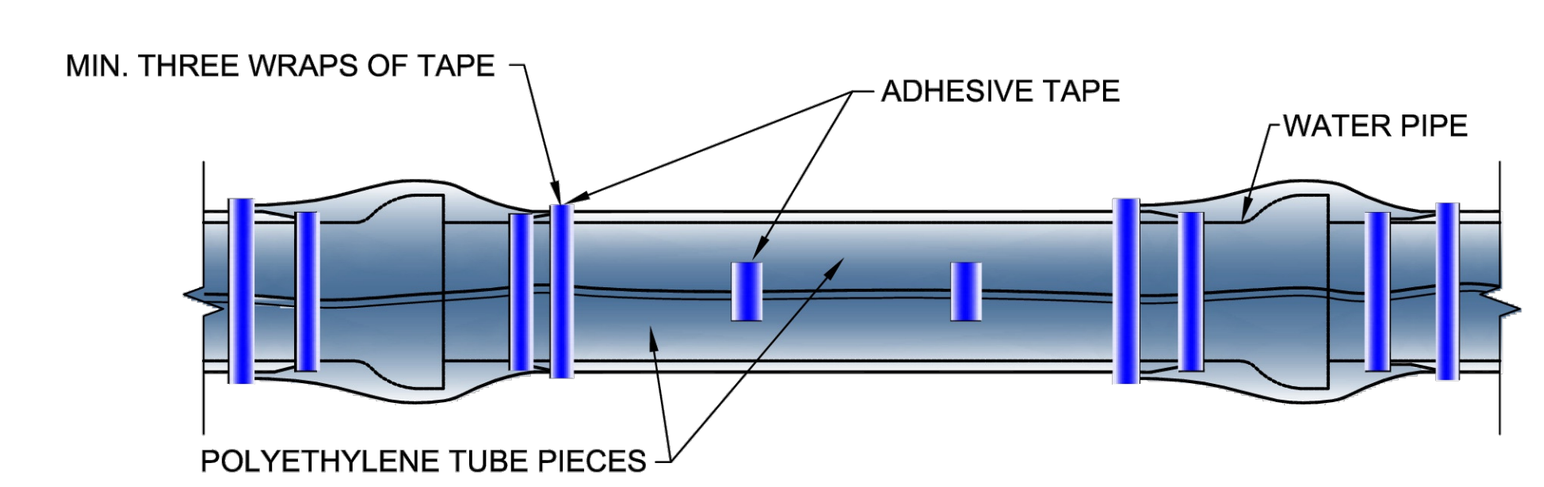
TITLE: **WATER DETAILS** | DESCRIPTION: TAPPING SLEEVE AND VALVE | DATE: APRIL 2015 | REVISED | SHEET: **W13**
DRAWN BY: | CHECKED BY: | FILE: W13-Tapping Sleeve and Valve.dwg

4/16/2015 11:46:29 AM



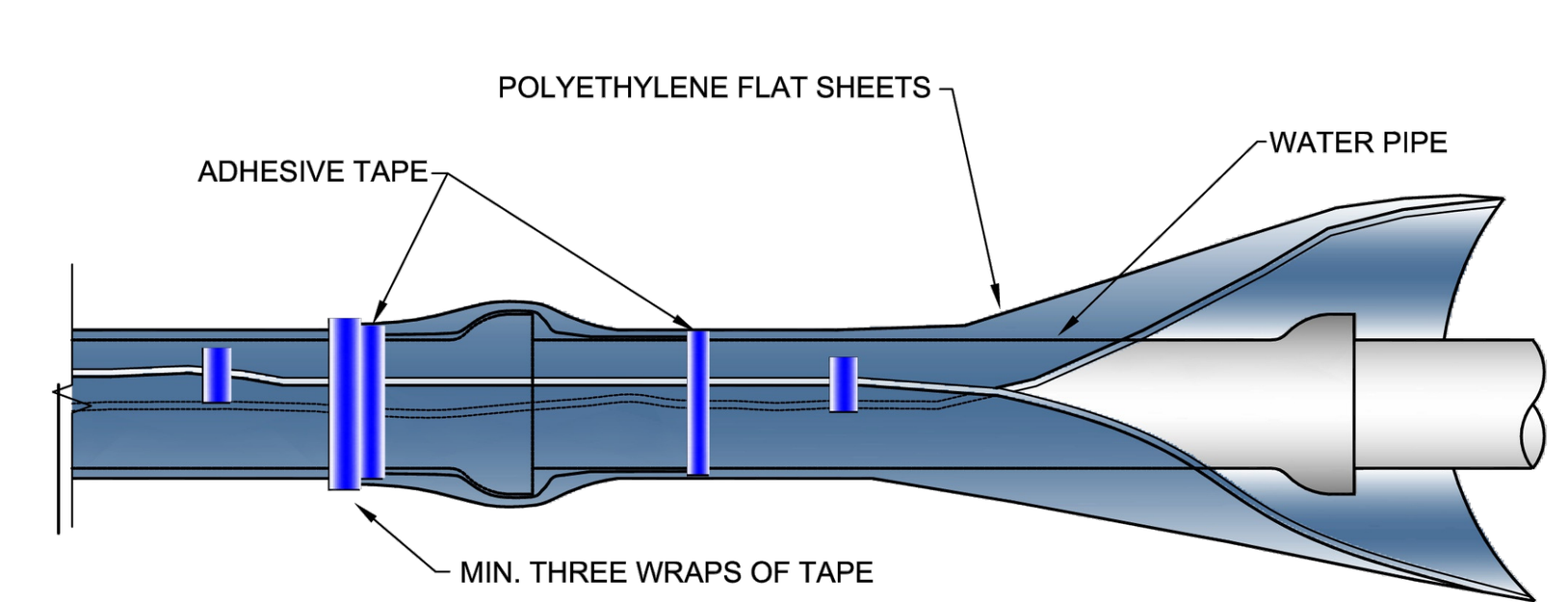
METHOD 'A'

METHOD 'A' USES ONE LENGTH OF POLYETHYLENE TUBE, OVERLAPPED AT THE JOINTS A MINIMUM OF 2 FEET.



METHOD 'B'

METHOD 'B' USES SEPARATE PIECES OF POLYETHYLENE TUBE FOR THE BARREL OF THE PIPE AND THE JOINTS. SHORT PIECES SHALL BE APPROXIMATELY 6' LONG AND OVERLAP BARREL SECTION BY A MINIMUM OF 2 FEET.



METHOD 'C'

METHOD 'C' - USED FOR PIPE-SHAPED AND ODD- SHAPED APPURTENANCES SUCH AS BENDS, REDUCERS, OFFSETS, VALVES, TEES, ETC.

ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE POLY WRAPPED.

THE ANSI/AWWA C105/A21.5 STANDARD OUTLINES THREE METHODS OF INSTALLING POLYETHYLENE ENCASEMENT/ SLEEVING.

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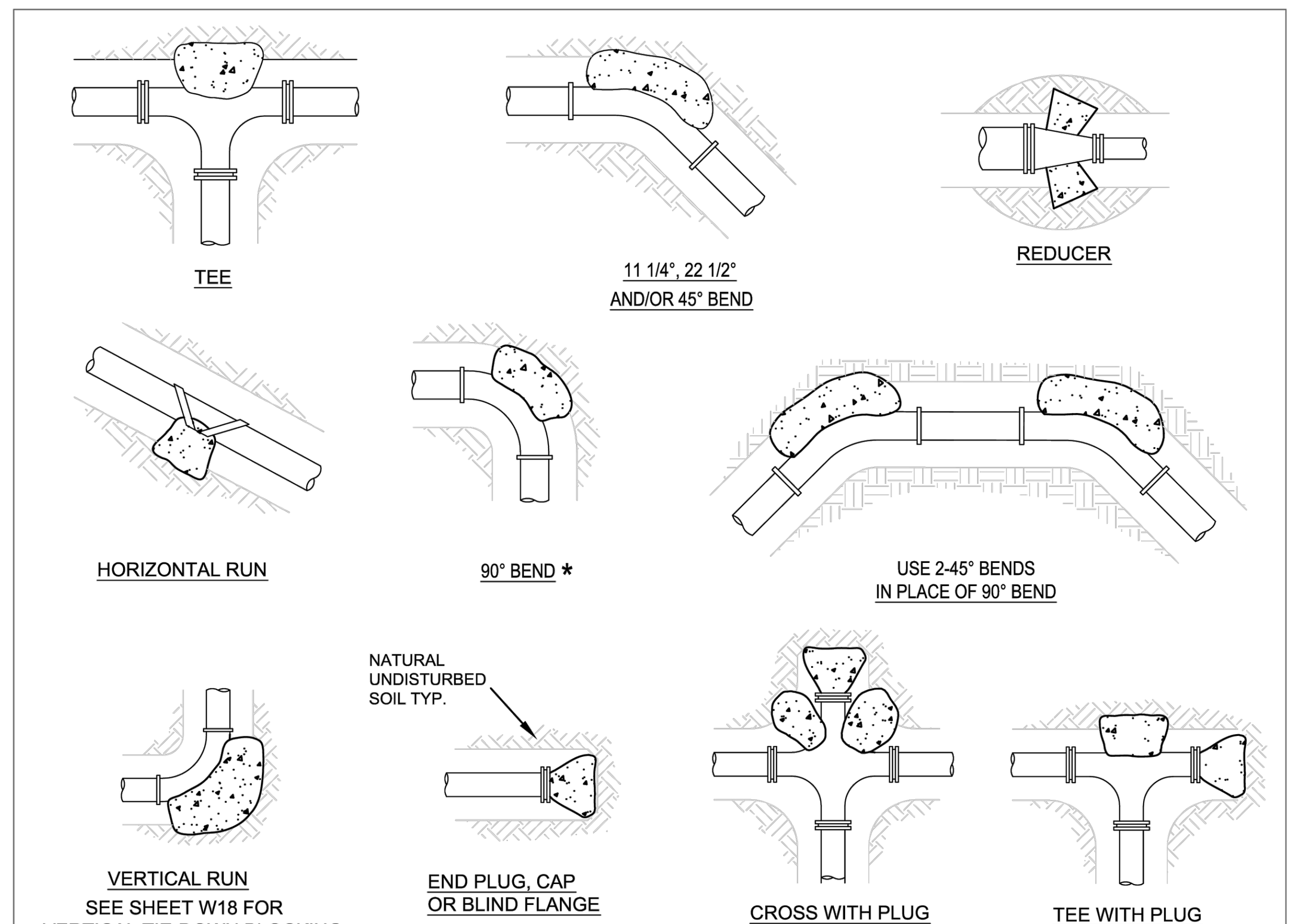
TITLE: **WATER DETAILS** | DESCRIPTION: POLYETHYLENE PROTECTION MATERIAL | DATE: APRIL 2015 | REVISED | SHEET: **W14**
DRAWN BY: | CHECKED BY: | FILE: W14-Poly Wrap.dwg

4/16/2015 11:46:57 AM



THRUST BLOCK SCHEDULE
(2000 PSF SOIL, 200 PSI WATER PRESSURE, 100 PSI WATER HAMMER)

BEARING AREA OF THRUST BLOCKS IN SQ. FT. (HORIZONTAL BENDS)						VOLUME OF THRUST BLOCK IN CU. FEET (VERTICAL BENDS)						
FITTING SIZE	PLUG TEE OR CAP	BEND ANGLE 90° *	45°	22 1/2°	11 1/4°	FITTING SIZE	BEND ANGLE 90° *	45°	22 1/2°	11 1/4°	ROD DIAM.	EMBED-MENT
2, 3, & 4	1.9	2.7	1.4	0.7	0.4	2, 3, & 4	35.5	19.2	9.8	4.9	.50"	30"
6	5.6	7.9	4.3	2.2	1.1	6	105.8	57.2	29.2	14.7	.75"	30"
8	9.6	13.6	7.4	3.8	1.9	8	181.9	98.5	50.2	25.2	.75"	30"
12	20.5	29.0	15.7	8.0	4.0	12	387.1	209.5	106.8	53.7	1.0"	30"
16	35.7	50.4	27.3	13.9	7.0	16	672.6	364.0	185.6	93.2	1.0"	36"
18	44.8	63.4	34.3	17.5	18.8	18	844.7	457.2	233.1	117.1	1.0"	36"
24	78.4	110.9	60.0	30.6	15.4	24	1478.7	800.3	408.0	205.0	1.5"	36"

* 90 DEGREE BENDS SHALL ONLY BE USED ON A BY-EXCEPTION BASIS, AND MUST EACH BE SPECIFICALLY APPROVED BY CITY.

THRUST BLOCK NOTES:

1. CONCRETE FOR THRUST BLOCKS - CLASS A CONCRETE SHALL DEVELOP NOT LESS THAN 3000 P.S.I. COMPRESSIVE STRENGTH AT 28 DAYS AND BE PLACED AGAINST UNDISTURBED SOIL.
2. ALL BENDS, BOTH HORIZONTAL AND VERTICAL, SHALL BE BACKED WITH CONCRETE. VERTICAL BENDS SHALL BE PLACED ON CONCRETE PADS WHERE BENDS TURN UP, OR LOADED WHERE BENDS TURN DOWN.
3. WRAP PIPE JOINTS IN 8 MIL "POLYETHLENE" BEFORE PLACING CONCRETE.
4. BEARING AREA SHOWN IN TABLE, IS BASED UPON A 2000 LB/SF. SOIL BEARING, AND UPON A PIPELINE PRESSURE OF 200 psi. PLUS 100 psi. WATER HAMMER. AREAS SHOWN SHALL BE ADJUSTED, SHOULD FIELD CONDITIONS VARY.
5. MJ RESTRAINTS ARE REQUIRED FOR ALL FITTINGS.
6. USE LONG-RADIUS FITTINGS WHEREVER POSSIBLE.
7. ALL BOLTS FOR FITTINGS SHALL BE 316 STAINLESS STEEL.
8. ALL DUCTILE IRON FITTINGS SHALL BE FUSION-BONDED EPOXY COATED INSIDE AND OUTSIDE IN ACCORDANCE WITH ANSI/AWWA C116/A21.16.
9. UNIT WEIGHT OF CONCRETE FOR VERTICAL THRUST BLOCKS IS 150 LBS/CU. FT.

THRUST BLOCKING

CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0468

TITLE: **WATER DETAILS** | DESCRIPTION: THRUST BLOCKING | DATE: APRIL 2015 | REVISED | SHEET: **W16**
DRAWN BY: | CHECKED BY: | FILE: W16-Thrust Blocking.dwg

Holloway Engineering, Surveying & Civil Design
200 Casey Drive
Maumelle, AR 72113
(501) 851-3366
www.holloway-eng.com

REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS

WATER DETAILS (1 OF 2)

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18898
J. ERIC HOLLOWAY
10/9/26

CERTIFICATE OF AUTHORIZATION
Holloway Engineering, Surveying & Civil Design, PLLC
#1879
ARKANSAS - ENGINEER

JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

C6.50

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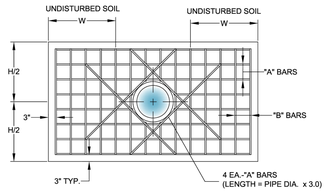
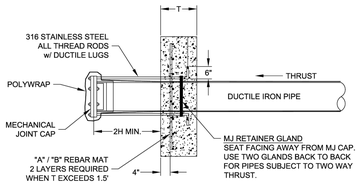
ANCHOR COLLAR SCHEDULE					
PIPE SIZE	* MINIMUM DIMENSIONS *			REINFORCING BARS	
	W	H	T	"A" BARS	"B" BARS
6"	1.5'	2.0'	1.0'	#6 @ 6"	#6 @ 6"
8"	2.0'	2.5'	1.0'	#6 @ 6"	#6 @ 6"
12"	2.5'	4.0'	1.5'	#6 @ 6"	#6 @ 6"
16"	3.5'	5.0'	1.5'	#6 @ 6"	#6 @ 6"
20"	5.0'	5.5'	2.0'	#6 @ 6"	#6 @ 6"
24"	6.5'	6.0'	2.0'	#7 @ 6"	#7 @ 10"



NOTES:

1. DESIGN PRESSURE IS 200 PSI PLUS 100 PSI SURGE AND 2,000 PSI SOIL BEARING.
2. ALL DIMENSIONS ARE MINIMUM REQUIREMENTS. ACTUAL FIELD CONDITIONS MAY REQUIRE LARGER DIMENSIONS.
3. ALL RETAINER GLANDS SHALL BE MEGA-LUG BY EBAA IRON.



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WATER UTILITIES
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BRYANT, AR
PHONE: (501) 943-0488

TITLE: **WATER DETAILS**
DESCRIPTION: **ANCHOR COLLAR**
DRAWN BY: CHECKED BY: FILE: W18-Anchor Collar.dwg
DATE: APRIL 2015 SHEET: **W18**
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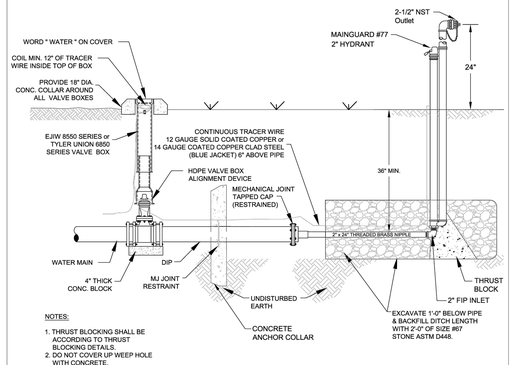
4/6/2015 11:47:39 AM



NOTES:

1. THRUST BLOCKING SHALL BE ACCORDING TO THRUST BLOCKING DETAILS.
2. DO NOT COVER UP WEEP HOLE WITH CONCRETE.

BLOW-OFF ASSEMBLY

CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0488

TITLE: **WATER DETAILS**
DESCRIPTION: **BLOW-OFF ASSEMBLY**
DRAWN BY: CHECKED BY: FILE: W19-Blow-off Assembly.dwg
DATE: APRIL 2015 SHEET: **W19**
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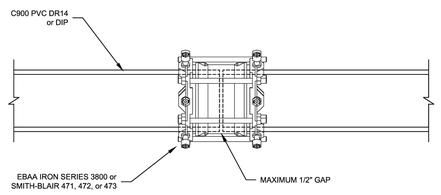
NOTE:

RESTRAINED COUPLINGS SHALL BE USED WHEN JOINING TWO CUT PIECES OF PIPE, GENERALLY WHEN CUTTING IN VALVES AND TEES.



RESTRAINED COUPLING

CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0488

TITLE: **WATER DETAILS**
DESCRIPTION: **RESTRAINED COUPLING**
DRAWN BY: CHECKED BY: FILE: W26-Restrained Coupling.dwg
DATE: APRIL 2015 SHEET: **W26**
REVISED

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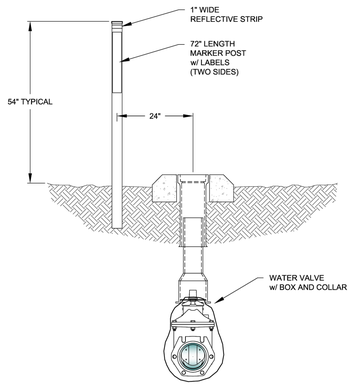
NOTES:

1. WATER LINE MARKERS SHALL BE TRI-VIEW MARKING SYSTEM BY RHINO MARKING AND PROTECTION SYSTEMS OR CARSONITE INTERNATIONAL DUAL-SIDED UTILITY MARKER (CIB-380).
2. THE UPPERMOST PORTION OF THE CARSONITE MARKER SHALL BE MADE OF VISIBILITY ENHANCER (CVE-360).
3. TRI-VIEW MARKERS DO NOT REQUIRE VISIBILITY ENHANCERS.
4. AN ADDITIONAL WHITE 1" WIDE REFLECTIVE TAPE (3M OR EQUAL) SHALL BE PLACED AROUND THE FULL CIRCUMFERENCE OF THE TOP OF THE MARKER.



VALVE MARKER

CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0488

TITLE: **WATER DETAILS**
DESCRIPTION: **VALVE MARKER**
DRAWN BY: CHECKED BY: FILE: W22-Valve Marker.dwg
DATE: APRIL 2015 SHEET: **W22**
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200 Casey Drive
Maumelle, AR 72113
(501) 851-3366
www.holloway-eng.com

REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS

WATER DETAILS (2 OF 2)

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18898
ERIC HOLLOWAY
10/9/26

CERTIFICATE OF AUTHORIZATION
Holloway Engineering, Surveying & Civil Design, PLLC
#1879
ARKANSAS - ENGINEER

JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

C6.51

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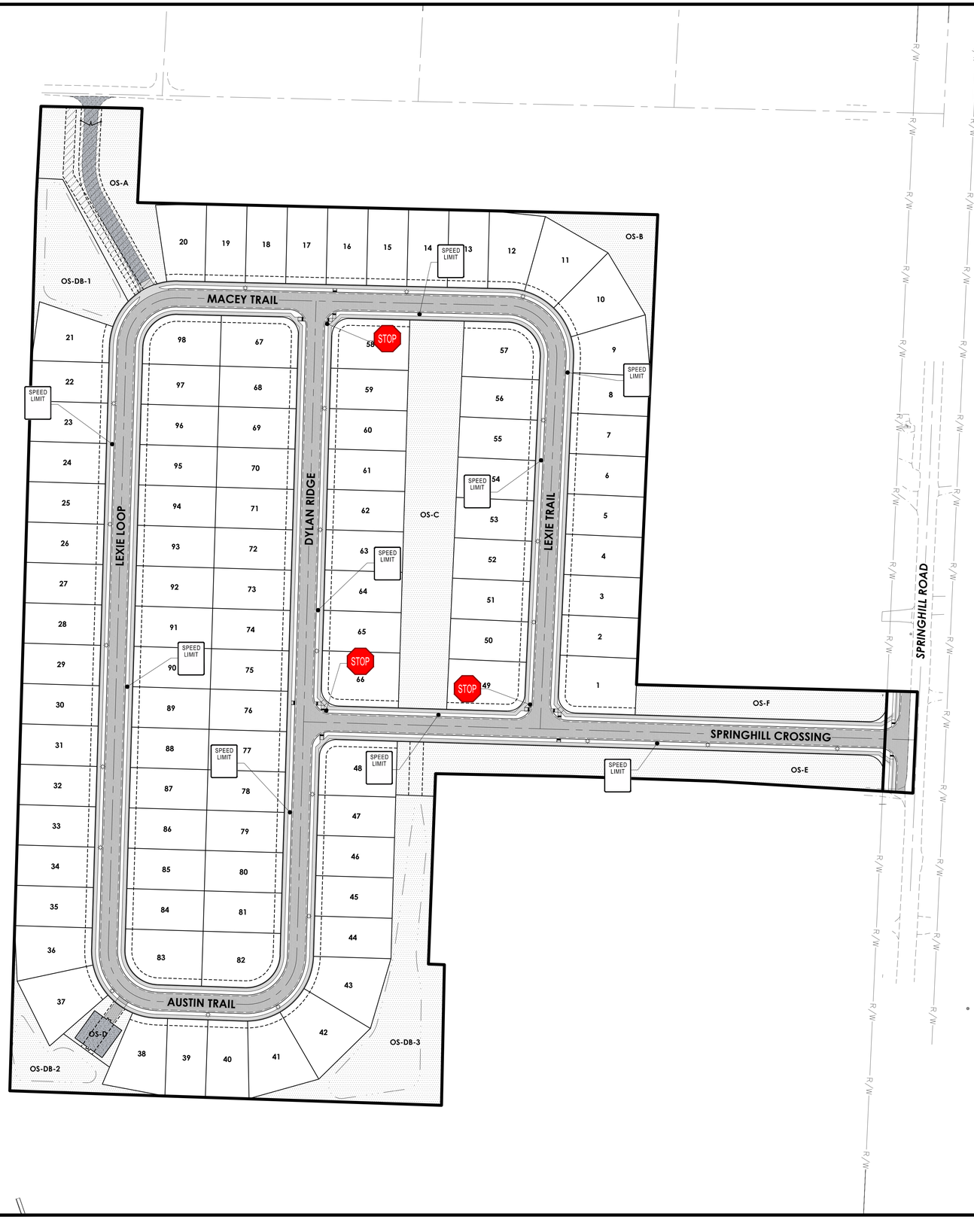

LEGEND

PROPOSED	DESCRIPTION
☼	LIGHT POLE
□	SPEED LIMIT SIGN
STOP	STOP SIGN

N
W E
S

GRAPHIC SCALE 1"=80'

80 0 80 160

Holloway Engineering, Surveying & Civil Design

200 Casey Drive
Maumelle, AR 72113
(501) 851-3366
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REV.	DATE	DESCRIPTION	BY

SPRINGHILL CROSSING
BRYANT, SALINE COUNTY, ARKANSAS

LIGHTING & SIGNAGE

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18898
JEFFREY HOLLOWAY
10/9/26

CERTIFICATE OF AUTHORIZATION
Holloway Engineering, Surveying & Civil Design, PLLC
#1879
STATE OF ARKANSAS

JOB NO.: 2026-071
DATE: 10/9/26
SHEET NUMBER:

C7.00

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