

TOWN OF ASHLAND CITY Planning Commission MeetingJuly 01, 2024 5:30 PM Agenda

Chairwoman: Nicole Binkley

Committee Members: Vivian Foston, Gerald Greer, JT Smith, Mike Stuart, Steven Stratton, Jerome Terrell

CALL TO ORDER
ROLL CALL
APPROVAL OF AGENDA
APPROVAL OF MINUTES

1. 06.03.24 PC Meeting Minutes

PUBLIC FORUM

2. Procedure for Speaking Before the Board

- * Speakers must complete the information form and submit it to the transcriber prior to the public forum. Be prepared to speak when your name is called.
- Each speaker will be allowed 4 minutes.
- * Speakers may comment on issues scheduled for consideration at the meeting or other appropriate concerns pertinent to the operation of the town.
- * Each speaker should state the following:
 - his/her name
 - whether they are an Ashland City resident and/or property owner
- * No person shall be allowed to make obscene, derogatory, or slanderous remarks while addressing the Council/Board. Persons doing so will be asked to stop speaking and will forfeit the remainder of their time.
- * All remarks shall be directed to the Council/Board as a body only.
- * No person shall be allowed to disrupt or interfere with the procedures.
- * Remarks shall end when the speaker's allotted time has expired. No time shall be shared with other speakers.
- * Questions from the council/board members may be asked for clarification as well as council/board members may have brief comments; however, no person shall be permitted to enter any discussion or debate either directly with or through any member of the Council/Board or anyone present at the meeting.
- * No one shall make open comments during the meeting.

OLD BUSINESS

- 3. AO Smith/ Ashland City Plat Approval
- 4. Site Plan Approval ACE Retail

NEW BUSINESS

5. Rezone Request: Parcel 055 019.00

OTHER

6. Zoning Ordinance Redline

ADJOURNMENT

Those with disabilities who require certain accommodations in order to allow them to observe and/or participate in this meeting, or who have questions regarding the accessibility of the meeting, should contact the ADA Coordinator at 615-792-6455, M-F 8:00 AM – 4:00 PM. The town will make reasonable accommodations for those persons.



233 Tennessee Waltz Parkway Suite 103 Ashland City TN 37015 (615) 792-6455

APPLICATION FOR SITE PLAN APPROVAL

Site Plan Review Fee: \$100.00

Date Received:								
Property Address: 1209 Highway 125.								
Ashland City, TN 37015								
Map # 0.55 Parcel # 036.00 Acreage: 5.19								
Property Owner(s): Mark Parbrough								
Phone: 615-417-7659								
Description of project being reviewed: Commercial Building								
consisting of shell retail spaces for tenant buildouts								
tenant huildowts								

Having submitted plans for review by the Ashland City Planning Commission, I understand that I am responsible for all review fees incurred by the Town of Ashland City. In understand that the fee paid at the time of submittal is not applicable for the fees incurred through review. With my signature, I verify that I fully understand that I am responsible for said fees, and that I have received a copy of Ordinance #165.

Applicant Signature

4 30/2024



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PLANNING COMMISSION SITE PLAN CHECKLIST

NAME OF SITE Ace Retail Center

LOCATION 1209 TN Hwy-12 South

OWNER Mark & Tonya Yarbrough

ENGINEER Klober Engineering Services - Josh Lyon, P.E.

- 1. Three (3) copies of the site plan. Please indicate at time of application if you would like any of the remaining copies after your case is heard and voted on.
- 2. Three (3) copies and an electronic PDF of revised site plans made available to the Fire, Building and Life Safety Department according to planner/engineer comments. Also written response to all comments to match what was changed on revised site plans.
- 3. Location map of the site at a scale of not less than 1"=2000' (USGS map is acceptable). Map must show the following:
 - a. Approximate site boundary
 - b. Public streets in the vicinity
 - c. Types of development of surrounding parcels
 - d. Public water and sewer lines serving the site
 - e. Map # and Parcel # of site location
- 4. Site boundary, stamped and signed by a registered surveyor.
- 5. The shape, size and location of all existing buildings on the lot.
- 6. The existing and intended use of the lot and of structures on it. If residential, give the number of dwelling units per building.
- 7. Topographic survey of the site with contour intervals at no greater than 5' intervals, stamped and signed by a registered surveyor.
- 8. Location of all driveways and entrances with dimensions from the centerline of the drive to the nearest property corner and to the nearest intersection (if the intersection is closer than 200 feet).
- 9. Dimensioned layout and location of all parking spaces including handicapped spaces.
- 10. Dimensioned layout and location of off-street loading bays and docks.

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- 11. Location and area of open space.
- 12. A table showing the ground coverage, total floor area and building heights.
- 13. Location, dimension and heights of all fences and walls with materials specified.
- 14. Location, type and amount of landscaping.
- 15. Proposed means of surface drainage, including locations and sizes of all culverts, ditches and detention structures, storm-water system to be designed as per the requirements of the Ashland City Planning Commission.
- 16. Dimensioned location of all easements and right-of-ways.
- 17. Location of all portions of the site that are within the floodway and the 100-year floodplain. A note will be included which gives the FEMA map number from which this information was developed. In addition, if portions of the site are in the 100-year floodplain and/or the floodway, the 100-year flood elevation(s) at the site will be listed on the plan.
- 18. Location, size and distance to all public utilities serving the site including all fire hydrants.
- 19. Location, by type and size of all proposed signs, (Please note that signs larger than 40 sq. ft. are not permitted per the sign ordinance for the Town of Ashland City.
- 20. Vegetation, show at minimum the following:
 - a. Existing tree masses and hedgerows
 - b. General description of the tree types and sizes within the tree masses
 - c. Location and identification of trees 15" in caliper (measured 4' above the ground) or larger
 - d. Description of landscaping requirements for the site based upon surrounding land uses (see Zoning Ordinance Section 3, 140)
- 21. Identification of slopes greater than 15% and identification of those soils (SCS soil mapping is acceptable) on those slopes.
- 22. Site plan application fee \$100
- 23. Additional engineering review etc., site inspection charges are subject to Section 14-301 of the Ashland City Municipal Code per Ordinance #165.
- 24. Three (3) sets of the construction plans for the site.



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- 25. Submittal must be made at least 20 working days prior to the Planning Commission meeting to be heard.
- 26. If application is requesting a variance, application is to be submitted to the Building Official in accordance with Section 7.080 of the Ashland City Zoning Ordinance.

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SITE PLAN FOR

ACE RETAIL CENTER

1209 TN HIGHWAY-12 SOUTH ASHLAND CITY, TN 37015

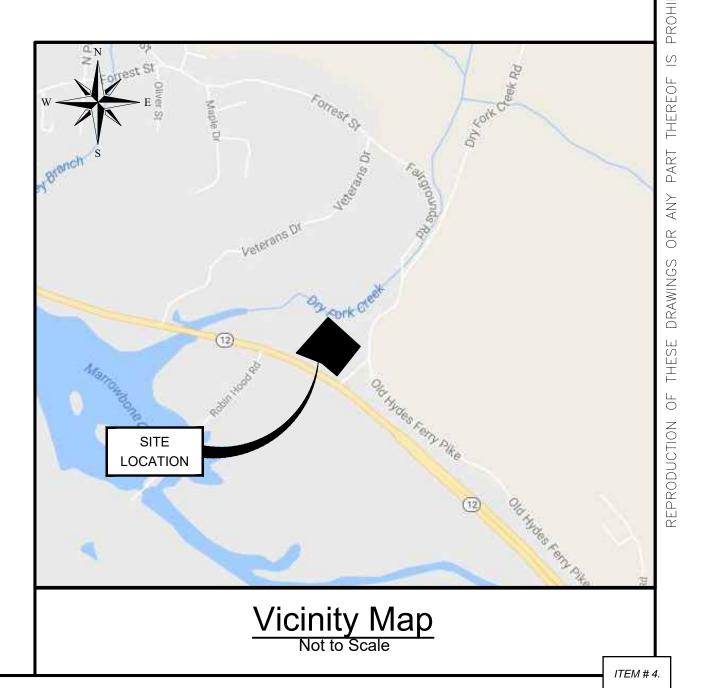
SHEET INDEX:

C1.00 —	EXISTING CONDITIONS
C1.01 —	- INITIAL EPSC PLAN
C1.02 —	- SITE PLAN
C1.03 —	— GRADING AND DRAINAGE PLAN
C1.04 —	FINAL STABILIZATION PLAN
C2.01 —	 CONSTRUCTION DETAILS
C2.02 —	CONSTRUCTION DETAILS
C2.03 —	WATERLINE DETAILS
C2.04 —	— SEWER LINE DETAILS

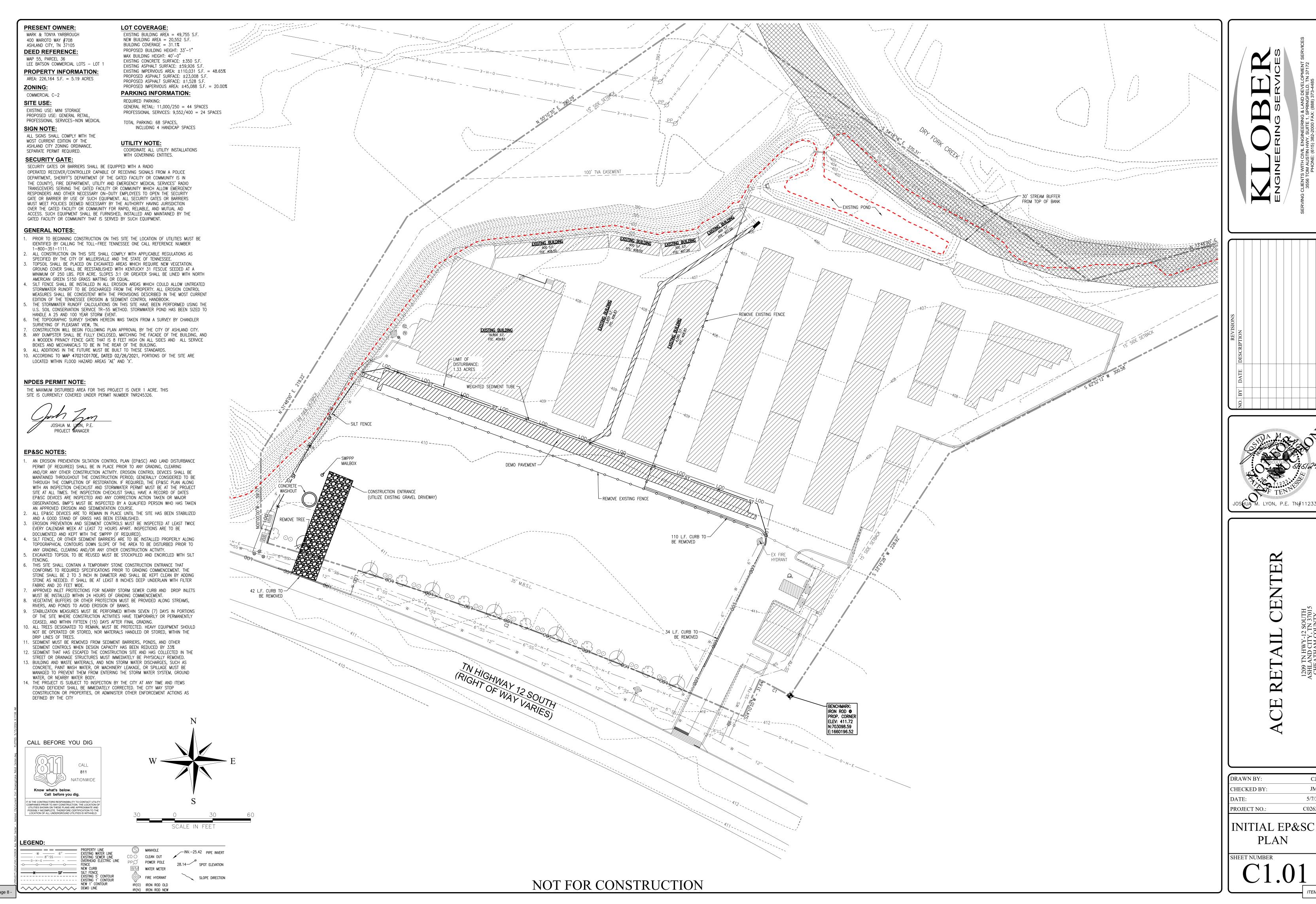


PHONE: (615) 382-2000 FAX: (888) 373-4485 www.klobereng.com

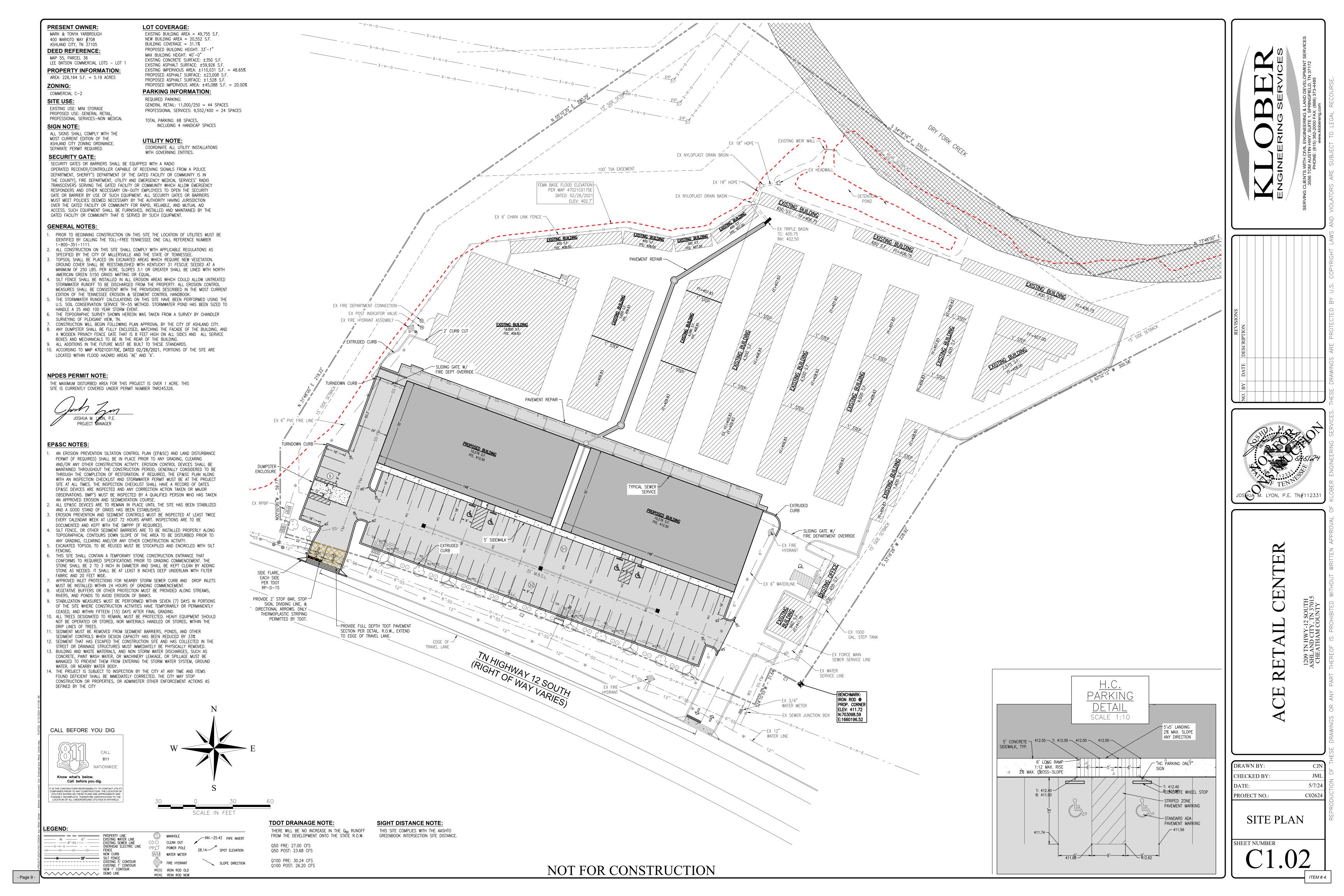


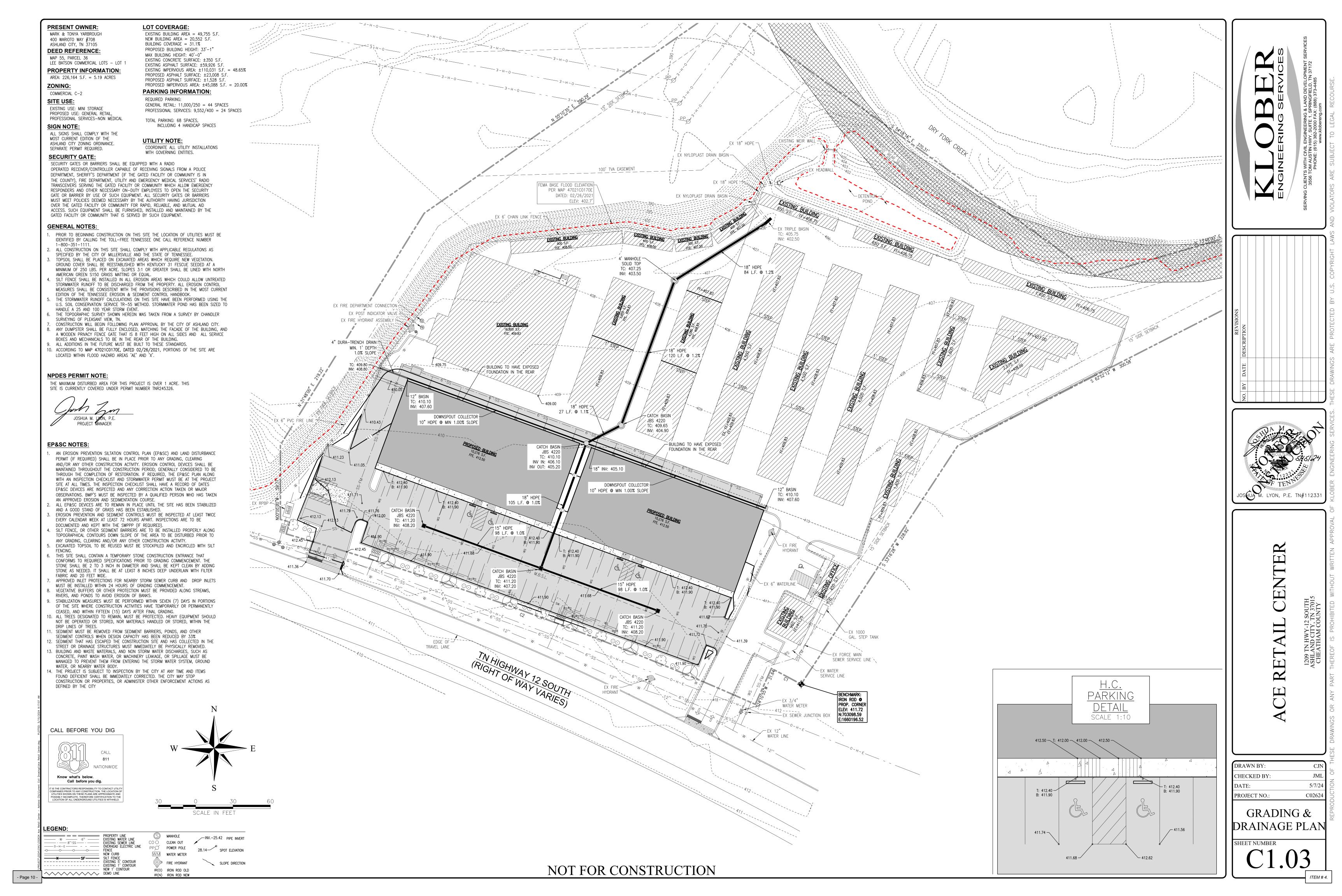


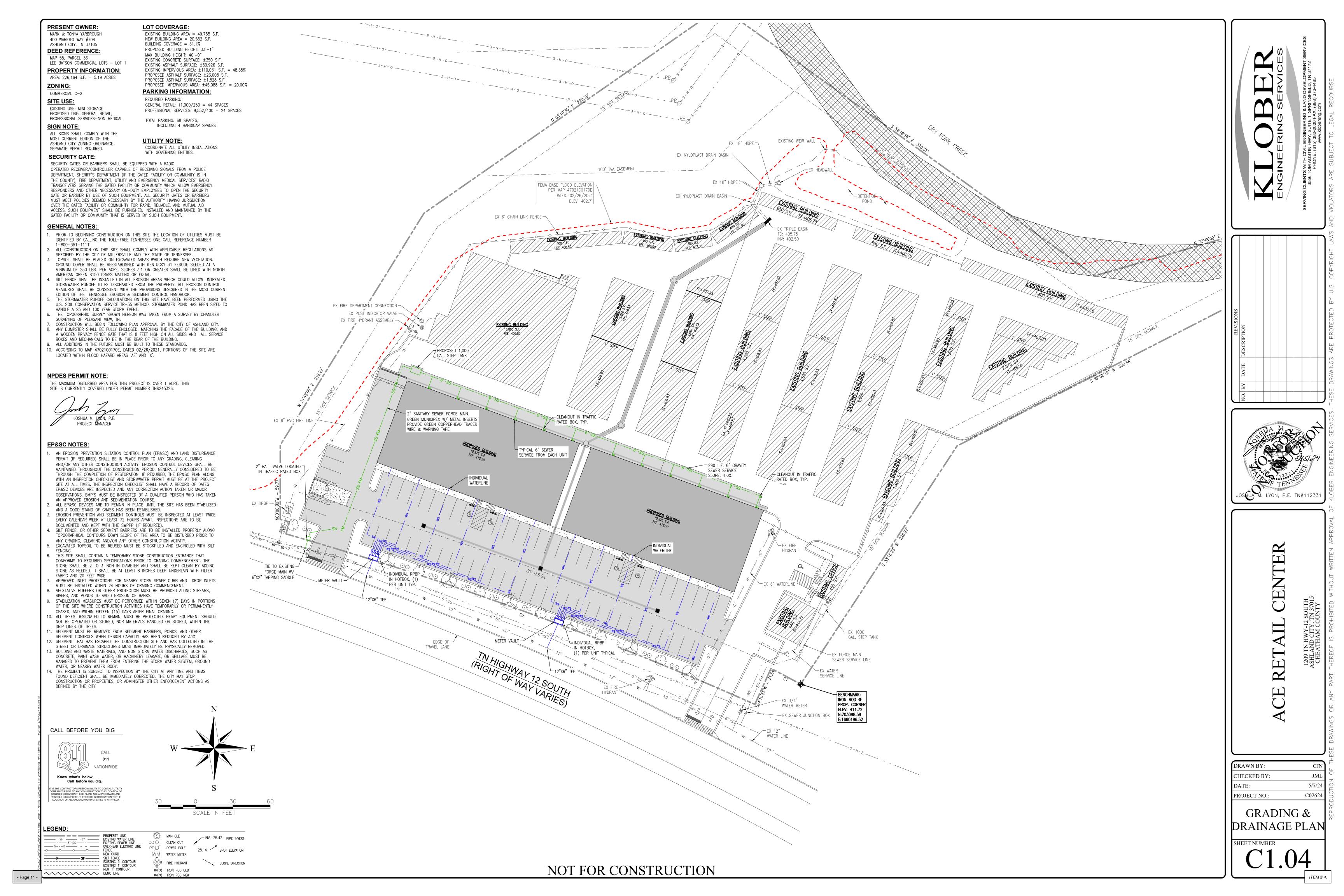


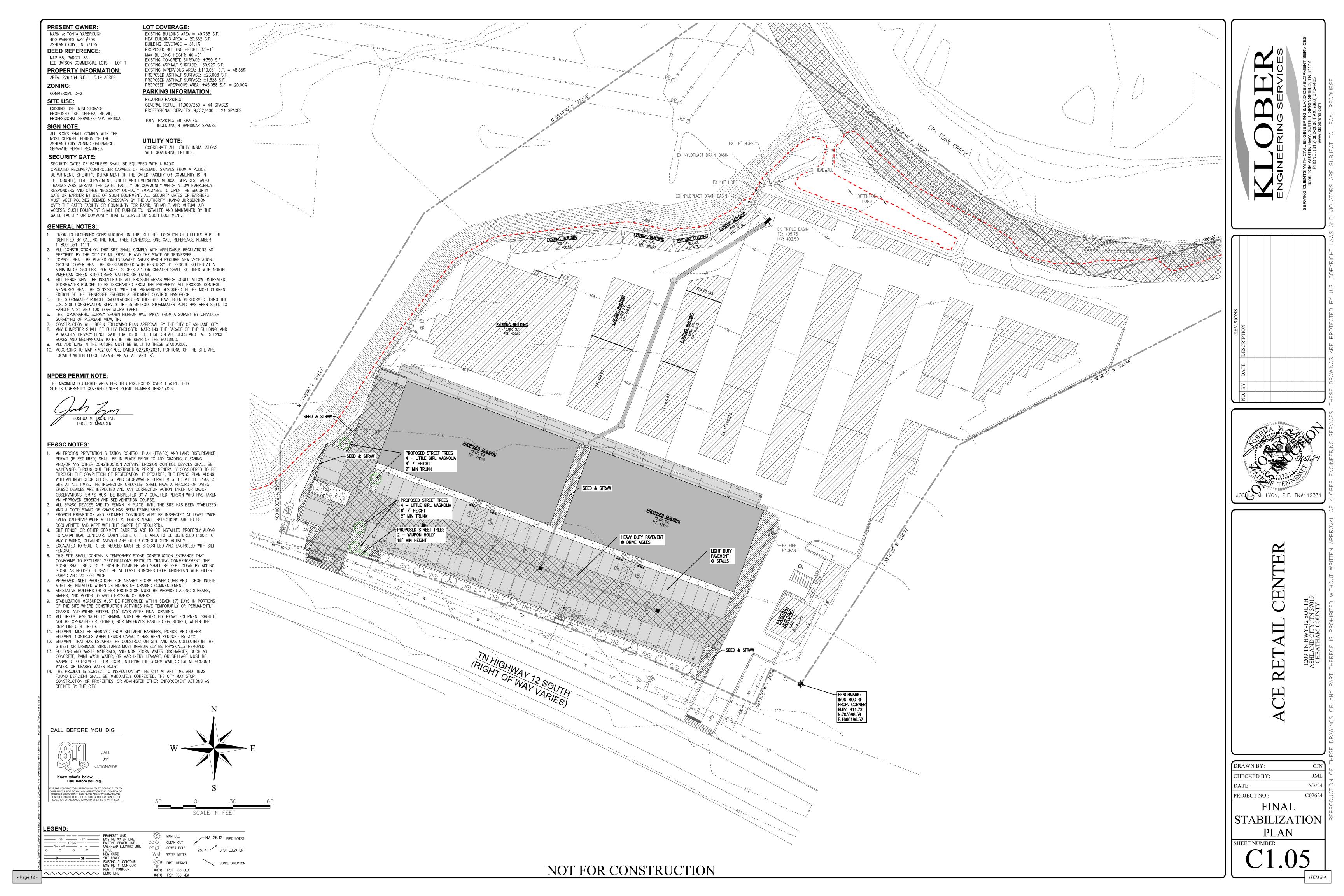


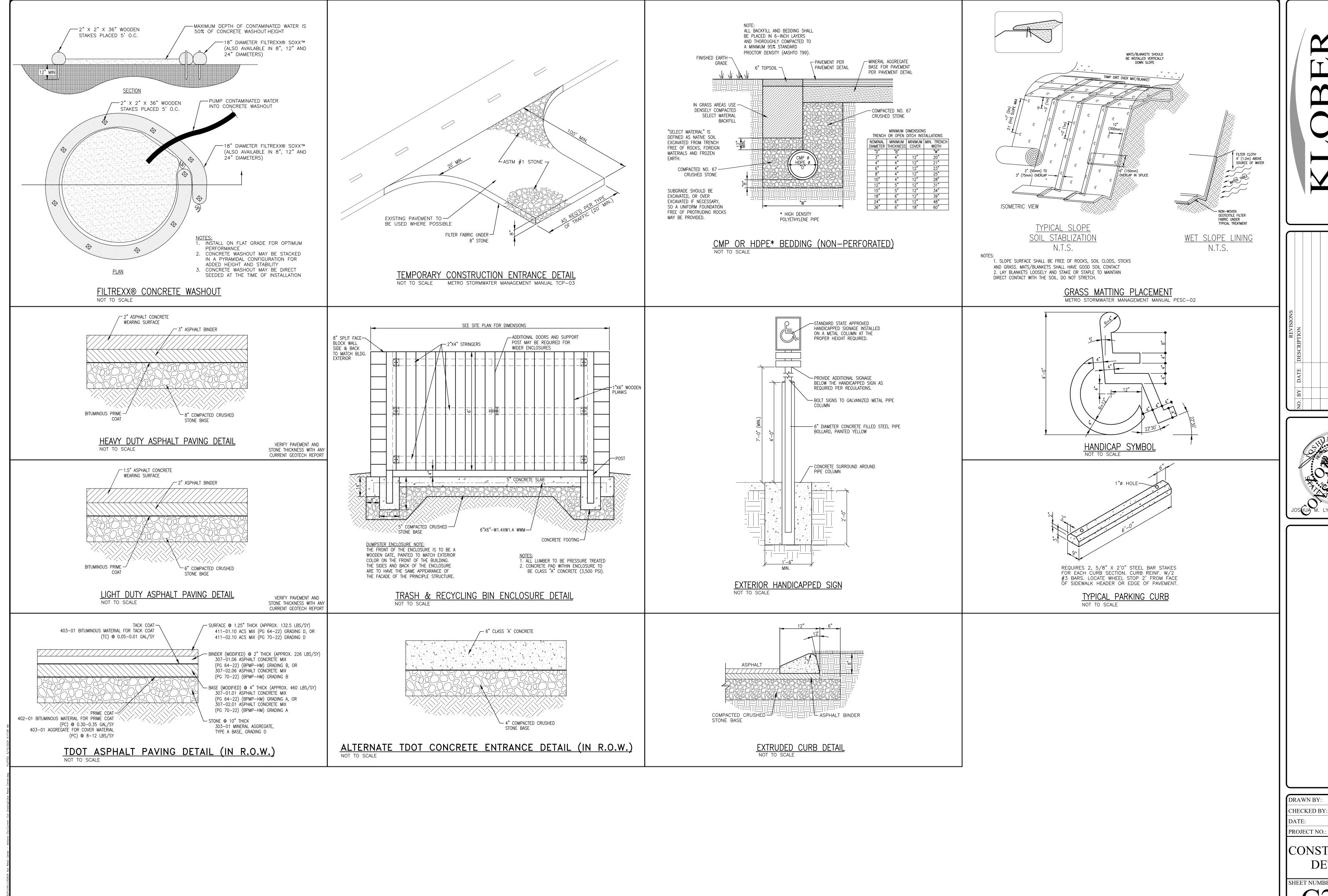
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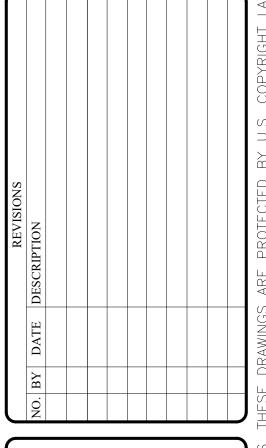


ENGINEERING & LAND DEVELOPMENT SERVICES

SERVING CLIENTS WITH CIVIL ENGINEERING & LAND DEVELOPMENT SERVICES

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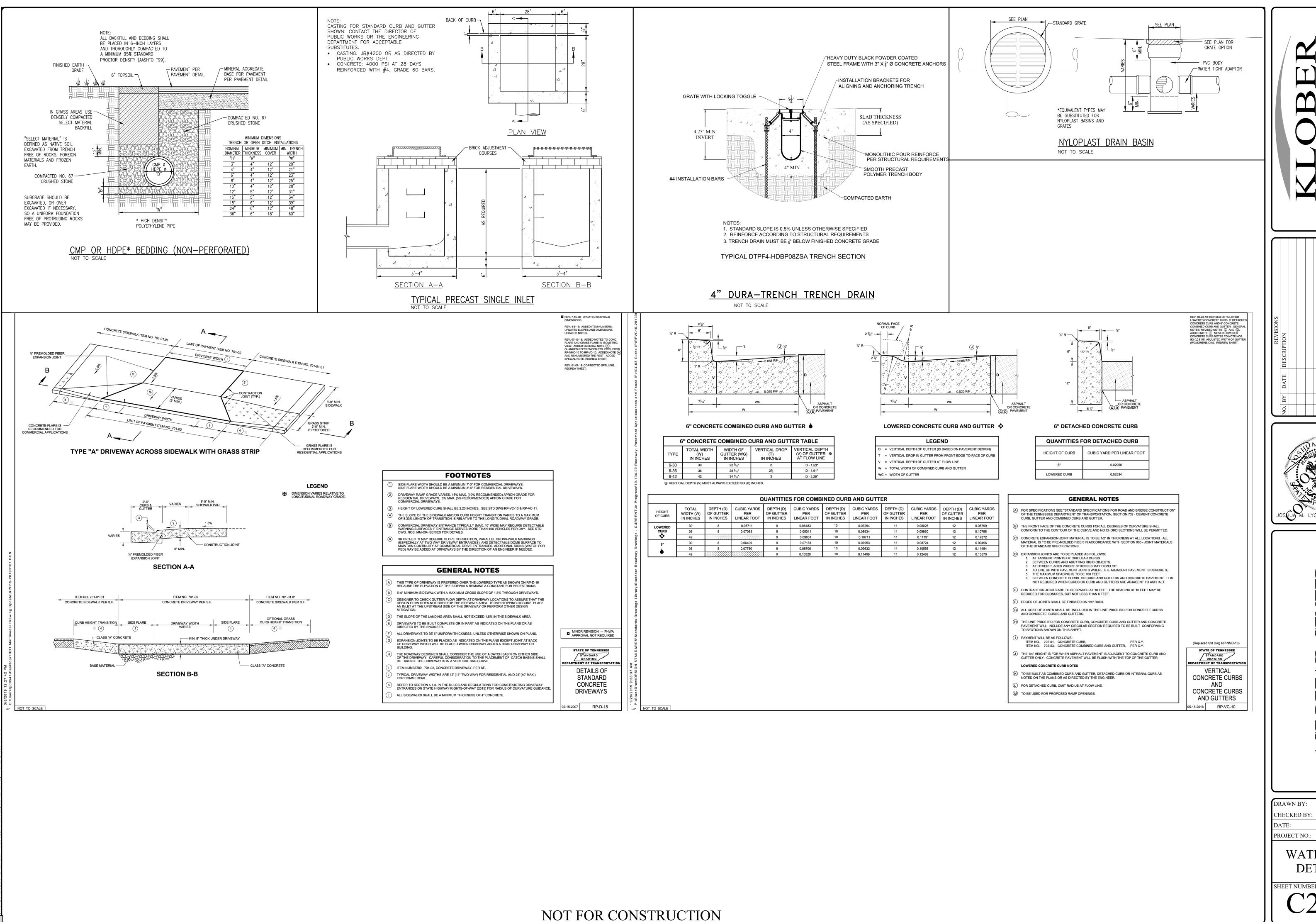
HLOON, P.E. TN#112333

E RETAIL CENTE ASHLAND CITY, TN 37015 CHEATHAM COUNTY

N BY: CJN
ED BY: JML
5/7/24
CT NO.: C02624

CONSTRUCTION DETAILS

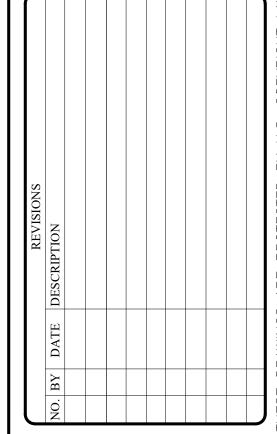
C2.01

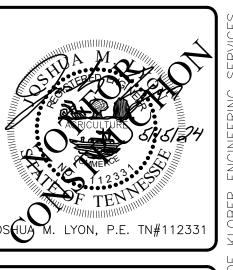


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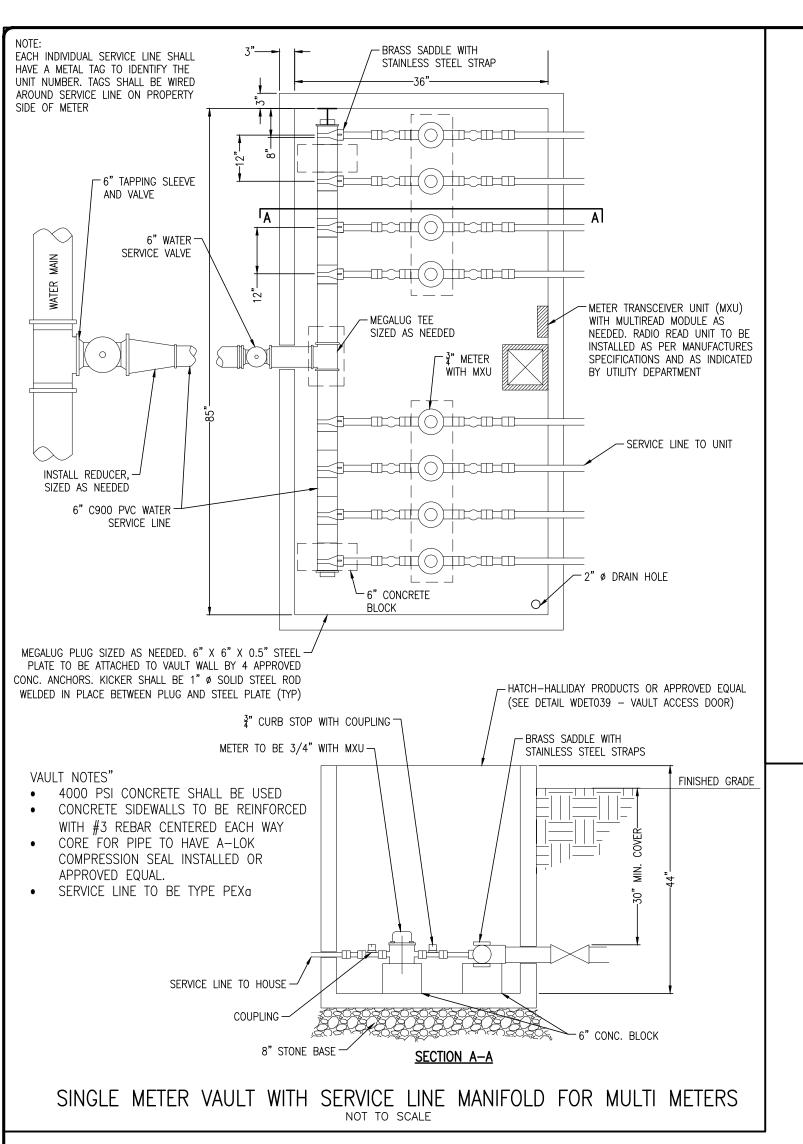
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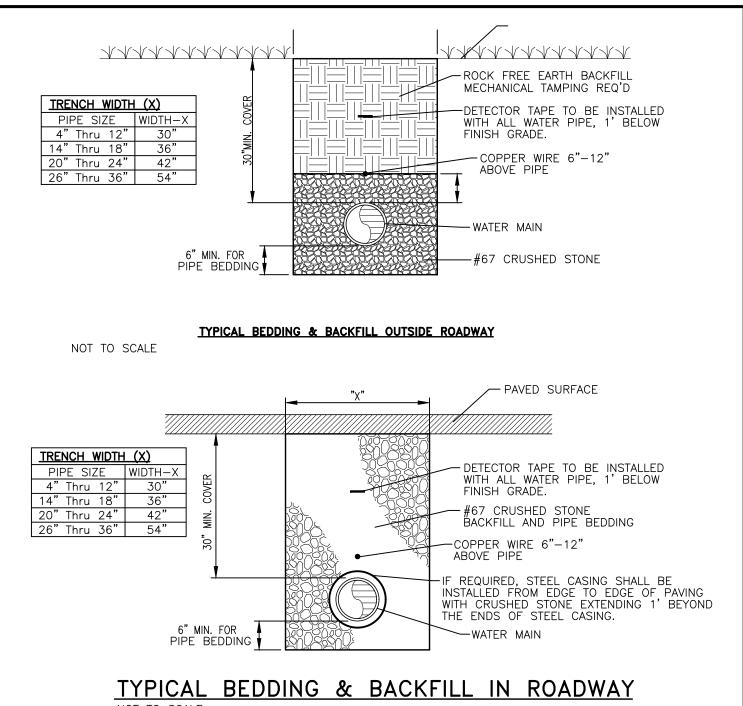
1209 TN HWY-12 SOUTH
ASHLAND CITY, TN 37015
CHEATHAM COUNTY

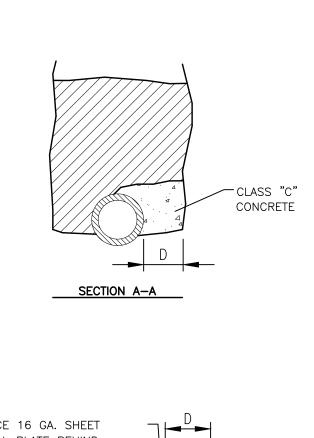
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CKED BY: JML
E: 5/7/24
ECT NO.: C02624

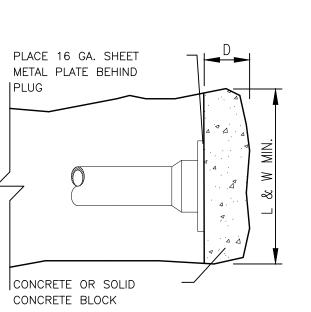
WATERLINE DETAILS

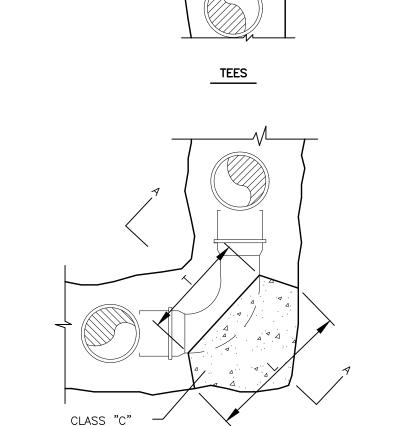
C2.02











45° & 90° BENDS

-SEE NOTE 1

CLASS "C"

CONCRETE

CONCRETE

NOTE 1:

RESTRAINED JOINTS REQUIRED:

CONCRETE THRUST BLOCKS MAY

BE USED IN ADDITION TO

RESTRAINED JOINTS, PER 3.3.1

AND 3.3.2.

NOTE 2:
FELT PAPER OR PLASTIC SHEET
SHALL BE INSTALLED AROUND TEE
BEFORE KICKER IS POURED

PLUGS & TEES											
SIZE	2"	3"	4"	6"	8"	10"	12"				
D	6"	6 "	6"	6"	6"	6"	6"				
L&W	14"	16"	18"	20"	22"	24"	24"				
		(45	5) EIGH	ITH BEN	IDS						
		(AF	:) FICE	JTLL DEV	IDC						
SIZF	2"	•				10"	12"				
SIZE	2"	3"	4"	6"	8"	10"	12"				
SIZE D	2" 6"	•				10" 6"	12" 6"				
		3"	4"	6"	8"						

° (90) QUARTER BENDS

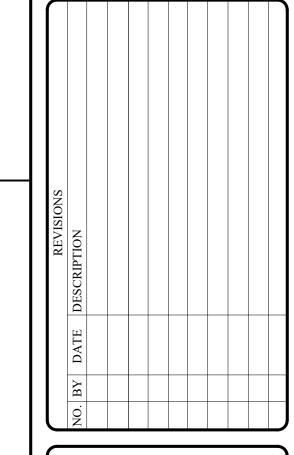
D 6" 6" 6" 8" 10" 12" 12"

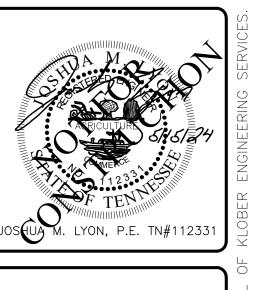
L 15" 18" 21" 24" 27" 30" 34"

T | 10" | 12" | 14" | 16" | 18" | 20" | 22"

3" | 4" | 6" | 8" | 10" | 12"

TO PROTECT HARDWARE.



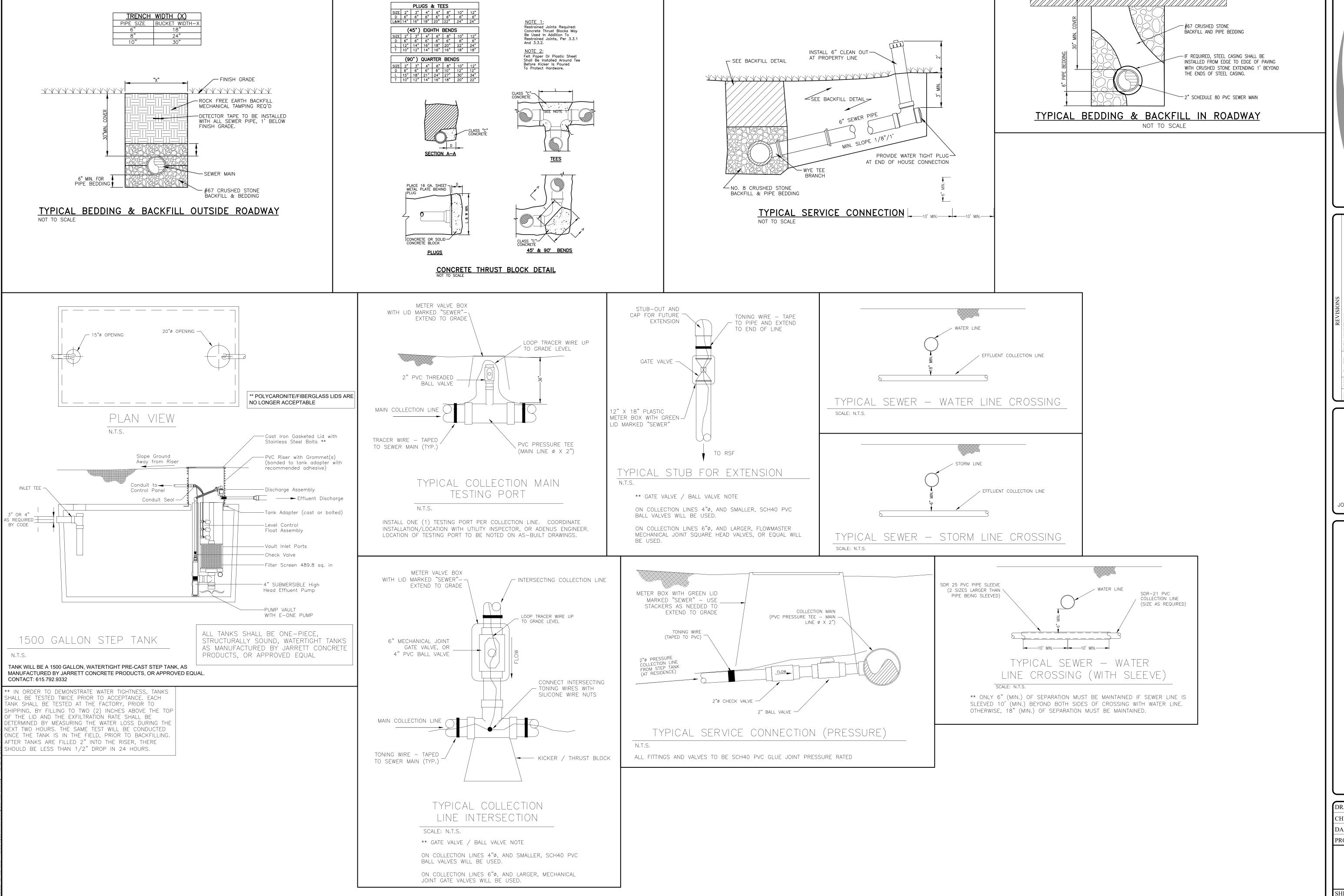


ACE RETAIL CENTER

1209 TN HWY-12 SOUTH
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CHEATHAM COUNTY

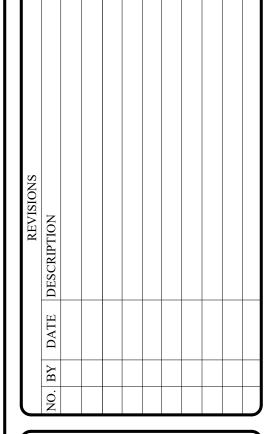
DRAWN BY: CJN
CHECKED BY: JML
DATE: 5/7/24
PROJECT NO.: C02624

WATERLINE
DETAILS



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→ PAVED SURFACE





ACE RETAIL CENTER

1209 TN HWY-12 SOUTH
ASHLAND CITY, TN 37015
CHEATHAM COUNTY

DRAWN BY:

CHECKED BY:

DATE:

5/7/24

PROJECT NO.:

C02624

SEWER LINE DETAILS

C2.04

STORMWATER DESIGN CALCULATIONS

FOR

Ace Retail Center 1209 TN-Hwy 12 Ashland City, TN 37015

May 15, 2024



Prepared By

KLOBER ENGINEERING SERVICES 3556 Tom Austin Hwy, Suite 1 Springfield, Tennessee 37172 (615) 382-2000



3556 Tom Austin Hwy, Suite 1 Springfield, Tennessee 37172 (615) 382-2000 Office (888) 373-4485 Fax

STORM WATER CALCULATIONS

NOTE: Storm water runoff is calculated using the TR-55 Method. All flow calculations are based on methods established in the Nashville / Davidson County Stormwater Management Manual.

The following pages contain calculations for the storm water drainage system.

The following table illustrates storm water runoff data for pre and post developed conditions for the above referenced property. Predeveloped runoff is based on

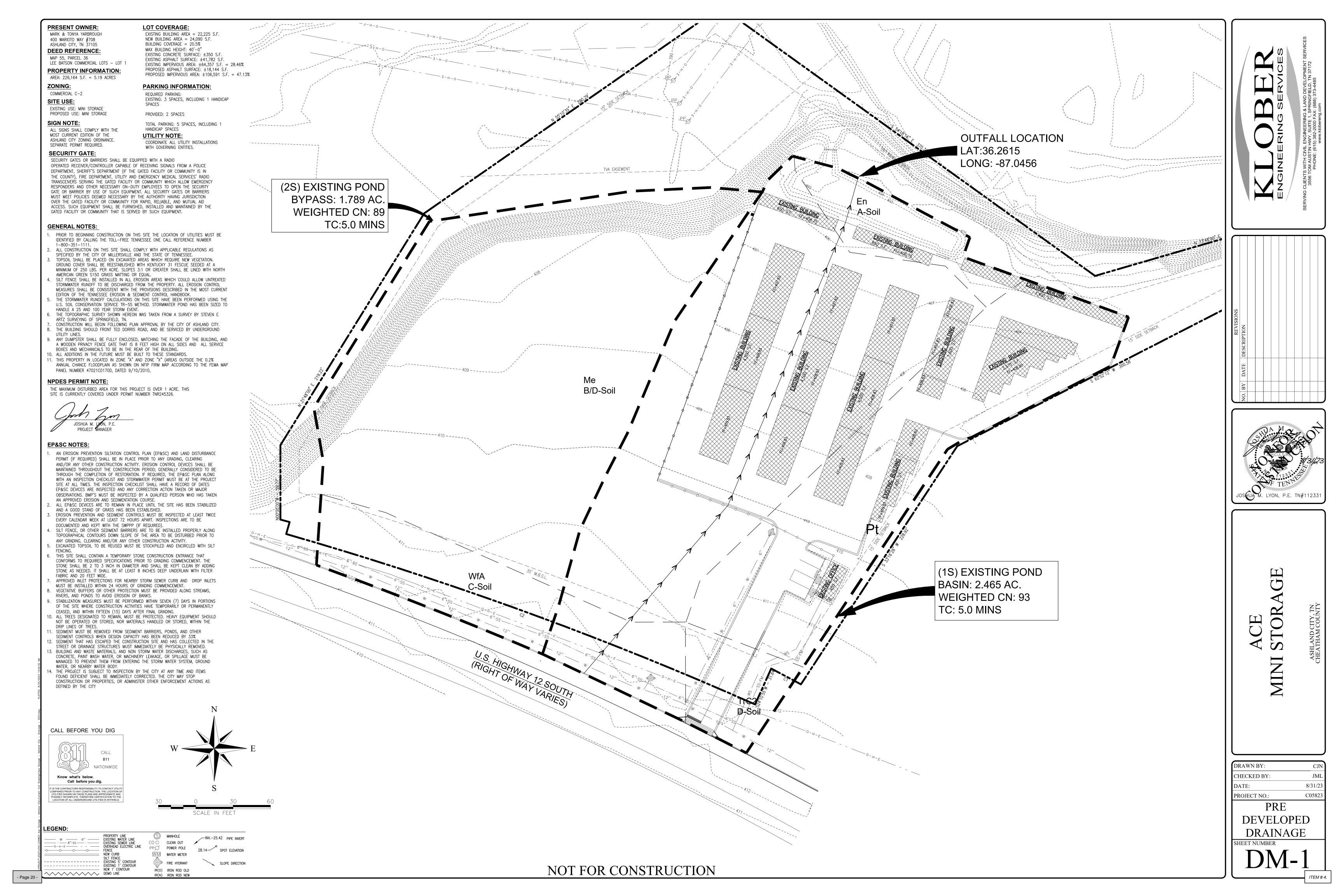
Storm Event	Total Pre- Developed Runoff (1R)	Post- Developed to Pond (3S)	Post-Developed Pond Bypass (4S)	Total Post Developed Discharge (2R)	Pond Elevation: TOB: 405.50
2 yr.	13.38	16.23	0.63	12.69	403.16
5 yr.	16.98	20.10	0.94	15.59	403.45
10 yr.	19.82	23.16	1.21	17.88	403.67
25 yr.	23.81	27.53	1.61	21.07	403.98
50 yr.	27.00	31.06	1.95	23.57	404.23
100yr.	30.24	34.67	2.31	26.05	404.49

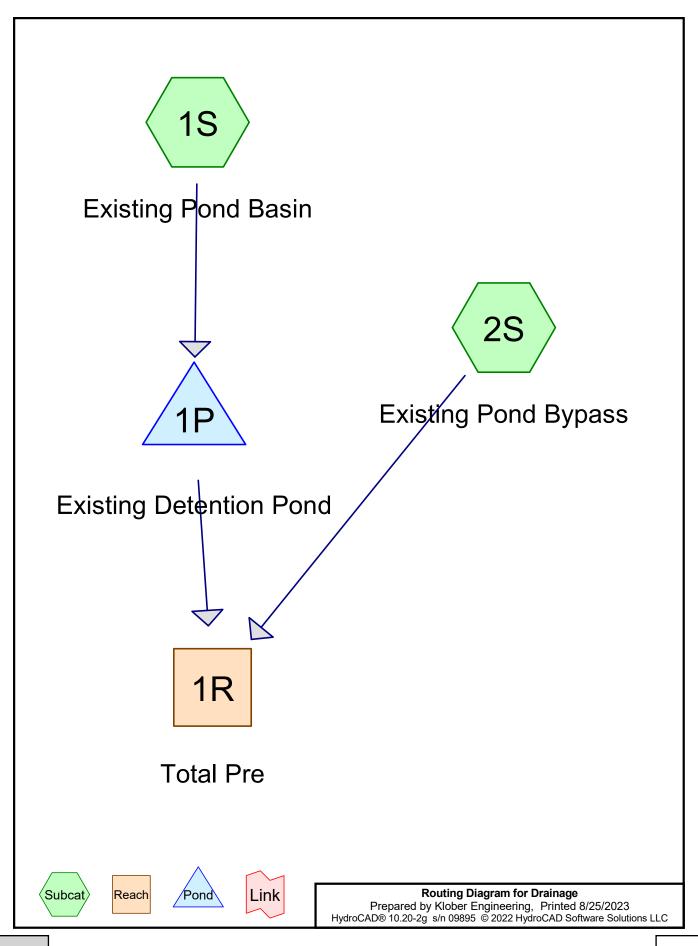
Water Quantity:

The existing detention pond on this site has been sized to handle the additional stormwater runoff generated by the site development and to reduce the peak discharge at or below predeveloped conditions. The pond and outlet structure had been designed for the complete build out of the site for all phases. Storm events are controlled by a weir structure built into the pond wall.

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PRE-DEVELOPED





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Page 2

Summary for Subcatchment 1S: Existing Pond Basin

Runoff = 9.75 cfs @ 12.11 hrs, Volume=

0.552 af, Depth> 2.69"

Routed to Pond 1P: Existing Detention Pond

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs NOAA 24-hr B 2-Year Rainfall=3.60"

_	Area	(ac)	CN	Desc	Description									
	0.	219	79	50-7	0-75% Grass cover, Fair, HSG C									
	0.	124	49	50-7	0-75% Grass cover, Fair, HSG A									
	0.	113	98	Pave	Paved parking, HSG C									
	1.	491	96	Grav	ravel surface, HSG C									
*	0.	510	98	Roof	Roofs, HSG C									
	0.	800	08 98 Unconnected pavement, HSG C											
	2.465 93 Weighted Average													
	1.	834		74.4	0% Pervio	us Area								
	0.	631		25.6	0% Imperv	ious Area								
	0.	800		1.27	% Unconn	ected								
	_													
	Tc	Leng	,	Slope	Velocity	Capacity	Description							
_	(min)	(fe	et)	(ft/ft)	(ft/sec)	(cfs)								
	5.0						Direct Entry,							

Summary for Subcatchment 2S: Existing Pond Bypass

Runoff = 6.34 cfs @ 12.11 hrs, Volume= 0.345 af, Depth> 2.31"

Routed to Reach 1R: Total Pre

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs NOAA 24-hr B 2-Year Rainfall=3.60"

/	Area	(ac)	CN	Desc	ription				
	0.	.215 79 50-75% Grass cover, Fair, HSG C							
	0.	303	69	50-7	5% Grass	cover, Fair	ir, HSG B		
	1.271 96 Gravel surface, HSG C								
	1.789 89 Weighted Average								
	1.789			100.	00% Pervi	ous Area			
<u>(r</u>	Tc min)	Lengt (fee		Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description		
	5.0						Direct Entry,		

Summary for Reach 1R: Total Pre

Inflow Area = 4.254 ac, 14.83% Impervious, Inflow Depth > 2.53" for 2-Year event

Inflow = 13.38 cfs @ 12.14 hrs, Volume= 0.896 af

Outflow = 13.38 cfs @ 12.14 hrs, Volume= 0.896 af, Atten= 0%, Lag= 0.0 min

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Page 3

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Summary for Pond 1P: Existing Detention Pond

Inflow Area = 2.465 ac, 25.60% Impervious, Inflow Depth > 2.69" for 2-Year event

Inflow = 9.75 cfs @ 12.11 hrs, Volume= 0.552 af

Outflow = 7.59 cfs @ 12.17 hrs, Volume= 0.551 af, Atten= 22%, Lag= 3.4 min

Primary = 7.59 cfs @ 12.17 hrs, Volume= 0.551 af

Routed to Reach 1R: Total Pre

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 402.65' @ 12.17 hrs Surf.Area= 2,933 sf Storage= 2,453 cf

Plug-Flow detention time= 4.9 min calculated for 0.551 af (100% of inflow)

Center-of-Mass det. time= 4.1 min (760.2 - 756.1)

Volume	Invert	Avail.St	orage	Storage Description							
#1	401.25'	11,230		11,230 cf DETENTION POND (Irregular) Listed below (Recale							
Elevation (feet)		Area sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)					
401.25		16	16.0	0	0	16					
402.00	2	2,505	355.0	680	680	10,025					
403.00	3	3,174	346.0	2,833	3,513	10,638					
404.00	3	3,860	357.0	3,511	7,025	11,346					
405.00	4	1,561	368.0	4,206	11,230	12,077					
Device R	outing	Inver	t Outle	et Devices							
#1 Primary 401.45'			2.0' long x 3.50' rise Sharp-Crested Rectangular Weir 2 End Contraction(s)								

Primary OutFlow Max=7.42 cfs @ 12.17 hrs HW=402.63' (Free Discharge)
1=Sharp-Crested Rectangular Weir (Weir Controls 7.42 cfs @ 3.56 fps)

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Page 4

Summary for Subcatchment 1S: Existing Pond Basin

Runoff = 12.21 cfs @ 12.11 hrs, Volume= 0.702 af, Depth> 3.42"

Routed to Pond 1P: Existing Detention Pond

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs NOAA 24-hr B 5-Year Rainfall=4.39"

	Area	(ac)	CN	Desc	Description									
	0.	219	79	50-7	0-75% Grass cover, Fair, HSG C									
	0.	124	49	50-7	0-75% Grass cover, Fair, HSG A									
	0.	113	98	Pave	aved parking, HSG C									
	1.	491	96	Gra۱	ravel surface, HSG C									
*	0.	510	98	Root	loofs, HSG C									
	0.	800	98	98 Unconnected pavement, HSG C										
	2.465 93 Weighted Average													
	1.	834		74.4	0% Pervio	us Area								
	0.	631		25.6	0% Imperv	rious Area								
	0.	800		1.27	% Unconn	ected								
	Tc	Leng	,	Slope	Velocity	Capacity	Description							
	(min)	(fe	et)	(ft/ft)	(ft/sec)	(cfs)								
	5.0						Direct Entry,							

7,

Summary for Subcatchment 2S: Existing Pond Bypass

Runoff = 8.15 cfs @ 12.11 hrs, Volume= 0.451 af, Depth> 3.02"

Routed to Reach 1R: Total Pre

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs NOAA 24-hr B 5-Year Rainfall=4.39"

	Area	(ac)	CN	Desc	Description						
	0.	0.215 79 50-75% Grass cover, Fair, HSG C									
	0.303 69 50-75% Grass cover, Fair,						r, HSG B				
	1.271 96 Gravel surface, HSG C										
	1.789 89 Weighted Average										
	1.789			100.	00% Pervi	ous Area					
<u>(r</u>	Tc min)	Leng (fee		Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description				
	5.0						Direct Entry,				

_**,**,

Summary for Reach 1R: Total Pre

Inflow Area = 4.254 ac, 14.83% Impervious, Inflow Depth > 3.25" for 5-Year event

Inflow = 16.98 cfs @ 12.14 hrs, Volume= 1.152 af

Outflow = 16.98 cfs @ 12.14 hrs, Volume= 1.152 af, Atten= 0%, Lag= 0.0 min

Prepared by Klober Engineering

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Page 5

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Summary for Pond 1P: Existing Detention Pond

Inflow Area = 2.465 ac, 25.60% Impervious, Inflow Depth > 3.42" for 5-Year event

Inflow = 12.21 cfs @ 12.11 hrs, Volume= 0.702 af

Outflow = 9.52 cfs @ 12.17 hrs, Volume= 0.701 af, Atten= 22%, Lag= 3.4 min

Primary = 9.52 cfs @ 12.17 hrs, Volume= 0.701 af

Routed to Reach 1R: Total Pre

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 402.87' @ 12.17 hrs Surf.Area= 3,085 sf Storage= 3,117 cf

Plug-Flow detention time= 4.9 min calculated for 0.701 af (100% of inflow)

Center-of-Mass det. time= 4.1 min (755.8 - 751.7)

Volume	Invert	Avail.S	Storage	Storage Description							
#1	401.25'	11	,230 cf	DETENTION PO	ND (Irregular) List	ed below (Recalc))				
Elevation (feet)	Sur	f.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)					
401.25		16	16.0	0	0	16					
402.00		2,505	355.0	680	680	10,025					
403.00		3,174	346.0	2,833	3,513	10,638					
404.00		3,860	357.0	3,511	7,025	11,346					
405.00		4,561 368		4,206	11,230	12,077					
Device R	outing	Inve	rt Outle	et Devices							
			long x 3.50' rise S d Contraction(s)	harp-Crested Red	ctangular Weir						

Primary OutFlow Max=9.32 cfs @ 12.17 hrs HW=402.85' (Free Discharge) 1=Sharp-Crested Rectangular Weir (Weir Controls 9.32 cfs @ 3.87 fps)

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Summary for Subcatchment 1S: Existing Pond Basin

Runoff 14.15 cfs @ 12.11 hrs, Volume= 0.823 af, Depth> 4.00"

Routed to Pond 1P: Existing Detention Pond

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs NOAA 24-hr B 10-Year Rainfall=5.02"

	Area	(ac)	CN	Desc	Description									
	0.	219	79	50-7	0-75% Grass cover, Fair, HSG C									
	0.	124	49	50-7	0-75% Grass cover, Fair, HSG A									
	0.	113	98	Pave	aved parking, HSG C									
	1.	491	96	Gra۱	ravel surface, HSG C									
*	0.	510	98	Root	loofs, HSG C									
	0.	800	98	98 Unconnected pavement, HSG C										
	2.465 93 Weighted Average													
	1.	834		74.4	0% Pervio	us Area								
	0.	631		25.6	0% Imperv	rious Area								
	0.	800		1.27	% Unconn	ected								
	Tc	Leng	,	Slope	Velocity	Capacity	Description							
	(min)	(fe	et)	(ft/ft)	(ft/sec)	(cfs)								
	5.0						Direct Entry,							

Summary for Subcatchment 2S: Existing Pond Bypass

9.59 cfs @ 12.11 hrs, Volume= 0.536 af, Depth> 3.60" Runoff

Routed to Reach 1R: Total Pre

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs NOAA 24-hr B 10-Year Rainfall=5.02"

_	Area	(ac)	CN	Desc	Description							
	0.	215	79	50-7	50-75% Grass cover, Fair, HSG C							
	0.	303	69	50-7	5% Grass	cover, Fair	, HSG B					
_	1.	271	96	Grav	el surface	, HSG C						
	1.789 89 Weighted Average											
	1.	789		100.0	00% Pervi	ous Area						
	_											
	Tc	Leng		Slope	Velocity	Capacity	Description					
_	(min)	(fee	et)	(ft/ft)	(ft/sec)	(cfs)						
	5.0						Direct Entry,					

Direct Entry,

Summary for Reach 1R: Total Pre

4.254 ac, 14.83% Impervious, Inflow Depth > 3.83" for 10-Year event Inflow Area =

Inflow 19.82 cfs @ 12.14 hrs, Volume= 1.357 af

Outflow 19.82 cfs @ 12.14 hrs, Volume= 1.357 af, Atten= 0%, Lag= 0.0 min

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Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Summary for Pond 1P: Existing Detention Pond

Inflow Area = 2.465 ac, 25.60% Impervious, Inflow Depth > 4.00" for 10-Year event

Inflow = 14.15 cfs @ 12.11 hrs, Volume= 0.823 af

Outflow = 11.04 cfs @ 12.17 hrs, Volume= 0.821 af, Atten= 22%, Lag= 3.4 min

Primary = 11.04 cfs @ 12.17 hrs, Volume= 0.821 af

Routed to Reach 1R: Total Pre

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 403.04' @ 12.17 hrs Surf.Area= 3,201 sf Storage= 3,645 cf

Plug-Flow detention time= 4.9 min calculated for 0.819 af (100% of inflow)

Center-of-Mass det. time= 4.1 min (753.2 - 749.1)

Volume	Invert	Avail	l.Storage	Storage Descripti	ion		
#1	401.25'	•	11,230 cf	DETENTION POI	ND (Irregular) List	ed below (Recalc)	
Elevation (feet)	Sı	ırf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)	
401.25		16	16.0	0	0	16	
402.00		2,505	355.0	680	680	10,025	
403.00		3,174	346.0	2,833	3,513	10,638	
404.00		3,860	357.0	3,511	7,025	11,346	
405.00		4,561	368.0	4,206	11,230	12,077	
Device R	outing	Inv	vert Outle	et Devices			
#1 Pi	rimary	401		ong x 3.50' rise S d Contraction(s)	harp-Crested Red	ctangular Weir	

Primary OutFlow Max=10.81 cfs @ 12.17 hrs HW=403.02' (Free Discharge) 1=Sharp-Crested Rectangular Weir (Weir Controls 10.81 cfs @ 4.09 fps)

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Summary for Subcatchment 1S: Existing Pond Basin

Runoff = 16.92 cfs @ 12.11 hrs, Volume= 0.994 af, Depth> 4.84"

Routed to Pond 1P: Existing Detention Pond

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs NOAA 24-hr B 25-Year Rainfall=5.92"

_	Area	(ac)	CN	Desc	cription								
	0.	219	79	50-7	50-75% Grass cover, Fair, HSG C								
	0.	124	49	50-7	5% Grass	cover, Fair	r, HSG A						
	0.	113	98	Pave	ed parking,	HSG C							
	1.	491	96	Gra۱	el surface	, HSG C							
*	0.	510	98	Roof	fs, HSG C								
	0.	800	98 Unconnected pavement, HSG C										
	2.	2.465 93 Weighted Average											
	1.834 74.40% Pervious Area												
	0.	631		25.6	0% Imperv	rious Area							
	0.008 1.27% Unconnected												
	_			01			D 1.0						
	Tc	Leng	•	Slope	Velocity	Capacity	Description						
_	(min)	(fee	et)	(ft/ft)	(ft/sec)	(cfs)							
	5.0						Direct Entry,						

Summary for Subcatchment 2S: Existing Pond Bypass

Runoff = 11.64 cfs @ 12.11 hrs, Volume= 0.659 af, Depth> 4.42"

Routed to Reach 1R: Total Pre

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs NOAA 24-hr B 25-Year Rainfall=5.92"

Area	ı (ac)	CN	Desc	ription						
).215	215 79 50-75% Grass cover, Fair, HSG C								
(0.303	3 69 50-75% Grass cover, Fair, HSG B								
1	1.271	271 96 Gravel surface, HSG C								
1	1.789	89	Weig	hted Aver	age					
1	1.789		100.	00% Pervi	ous Area					
Tc (min)	Leng (fee		Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description				
5.0	·					Direct Entry,				

Summary for Reach 1R: Total Pre

Inflow Area = 4.254 ac, 14.83% Impervious, Inflow Depth > 4.66" for 25-Year event

Inflow = 23.81 cfs @ 12.13 hrs, Volume= 1.652 af

Outflow = 23.81 cfs @ 12.13 hrs, Volume= 1.652 af, Atten= 0%, Lag= 0.0 min

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Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Summary for Pond 1P: Existing Detention Pond

Inflow Area = 2.465 ac, 25.60% Impervious, Inflow Depth > 4.84" for 25-Year event

Inflow = 16.92 cfs @ 12.11 hrs, Volume= 0.994 af

Outflow = 13.16 cfs @ 12.17 hrs, Volume= 0.993 af, Atten= 22%, Lag= 3.4 min

Primary = 13.16 cfs @ 12.17 hrs, Volume= 0.993 af

Routed to Reach 1R: Total Pre

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 403.27' @ 12.17 hrs Surf.Area= 3,355 sf Storage= 4,404 cf

Plug-Flow detention time= 4.9 min calculated for 0.990 af (100% of inflow)

Center-of-Mass det. time= 4.2 min (750.3 - 746.1)

Volume	Invert	Avail	l.Storage	Storage Descripti	ion		
#1	401.25'	•	11,230 cf	DETENTION POI	ND (Irregular) List	ed below (Recalc)	
Elevation (feet)	Sı	ırf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)	
401.25		16	16.0	0	0	16	
402.00		2,505	355.0	680	680	10,025	
403.00		3,174	346.0	2,833	3,513	10,638	
404.00		3,860	357.0	3,511	7,025	11,346	
405.00		4,561	368.0	4,206	11,230	12,077	
Device R	outing	Inv	vert Outle	et Devices			
#1 Pi	rimary	401		ong x 3.50' rise S d Contraction(s)	harp-Crested Red	ctangular Weir	

Primary OutFlow Max=12.89 cfs @ 12.17 hrs HW=403.24' (Free Discharge) 1=Sharp-Crested Rectangular Weir (Weir Controls 12.89 cfs @ 4.38 fps)

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Summary for Subcatchment 1S: Existing Pond Basin

Runoff = 19.16 cfs @ 12.11 hrs, Volume= 1.134 af, Depth> 5.52"

Routed to Pond 1P: Existing Detention Pond

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs NOAA 24-hr B 50-Year Rainfall=6.65"

_	Area	(ac)	CN	Desc	cription								
	0.	219	79	50-7	50-75% Grass cover, Fair, HSG C								
	0.	124	49	50-7	5% Grass	cover, Fair	, HSG A						
	0.	113	98	Pave	ed parking,	HSG C							
	1.	491	96	Grav	el surface	, HSG C							
*	0.	510	98	Roof	s, HSG C								
	0.	800	98 Unconnected pavement, HSG C										
	2.	2.465 93 Weighted Average											
	1.834 74.40% Pervious Area												
	0.	631		25.6	0% Imperv	ious Area							
	0.	800		1.27	% Unconn	ected							
	_												
	Tc	Leng	,	Slope	Velocity	Capacity	Description						
_	(min)	(fe	et)	(ft/ft)	(ft/sec)	(cfs)							
	5.0						Direct Entry,						

Summary for Subcatchment 2S: Existing Pond Bypass

Runoff = 13.29 cfs @ 12.11 hrs, Volume= 0.760 af, Depth> 5.10"

Routed to Reach 1R: Total Pre

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs NOAA 24-hr B 50-Year Rainfall=6.65"

Area	(ac)	CN	Desc	Description							
0	215 79 50-75% Grass cover, Fair, HSG C										
0	.303	303 69 50-75% Grass cover, Fair, HSG B									
1	.271	271 96 Gravel surface, HSG C									
1	.789	89	Weig	hted Aver	age						
1				00% Pervi	ous Area						
Tc (min)	Leng		Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description					
5.0						Direct Entry,					

Summary for Reach 1R: Total Pre

Inflow Area = 4.254 ac, 14.83% Impervious, Inflow Depth > 5.34" for 50-Year event

Inflow = 27.00 cfs @ 12.13 hrs, Volume= 1.892 af

Outflow = 27.00 cfs @ 12.13 hrs, Volume= 1.892 af, Atten= 0%, Lag= 0.0 min

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Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Summary for Pond 1P: Existing Detention Pond

Inflow Area = 2.465 ac, 25.60% Impervious, Inflow Depth > 5.52" for 50-Year event

Inflow = 19.16 cfs @ 12.11 hrs, Volume= 1.134 af

Outflow = 14.84 cfs @ 12.17 hrs, Volume= 1.132 af, Atten= 23%, Lag= 3.4 min

Primary = 14.84 cfs @ 12.17 hrs, Volume= 1.132 af

Routed to Reach 1R: Total Pre

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 403.45' @ 12.17 hrs Surf.Area= 3,478 sf Storage= 5,026 cf

Plug-Flow detention time= 4.9 min calculated for 1.129 af (100% of inflow)

Center-of-Mass det. time= 4.2 min (748.5 - 744.2)

Volume	Invert	Avail	l.Storage	Storage Descripti	ion		
#1	401.25'	•	11,230 cf	DETENTION POI	ND (Irregular) List	ed below (Recalc)	
Elevation (feet)	Sı	ırf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)	
401.25		16	16.0	0	0	16	
402.00		2,505	355.0	680	680	10,025	
403.00		3,174	346.0	2,833	3,513	10,638	
404.00		3,860	357.0	3,511	7,025	11,346	
405.00		4,561	368.0	4,206	11,230	12,077	
Device R	outing	Inv	vert Outle	et Devices			
#1 Pi	rimary	401		ong x 3.50' rise S d Contraction(s)	harp-Crested Red	ctangular Weir	

Primary OutFlow Max=14.54 cfs @ 12.17 hrs HW=403.42' (Free Discharge) 1=Sharp-Crested Rectangular Weir (Weir Controls 14.54 cfs @ 4.59 fps)

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Summary for Subcatchment 1S: Existing Pond Basin

Runoff = 21.45 cfs @ 12.11 hrs, Volume= 1.277 af, Depth> 6.22"

Routed to Pond 1P: Existing Detention Pond

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs NOAA 24-hr B 100-Year Rainfall=7.40"

	Area	(ac)	CN	Desc	cription								
	0.	219	79	50-7	50-75% Grass cover, Fair, HSG C								
	0.	124	49	50-7	50-75% Grass cover, Fair, HSG A								
	0.	113	98	Pave	ed parking,	HSG C							
	1.	491	96	Gra۱	el surface	, HSG C							
*	0.	510	98	Root	Roofs, HSG C								
	0.	800	8 98 Unconnected pavement, HSG C										
	2.	2.465 93 Weighted Average											
	1.	1.834 74.40% Pervious Area											
	0.	631		25.6	0% Imperv	rious Area							
	0.008 1.27% Unconnected												
	Тс	Leng	th	Slope	Velocity	Capacity	Description						
	(min)	(fee		(ft/ft)	(ft/sec)	(cfs)	Description						
_	5.0	(100	<i></i>	(10/10)	(1000)	(616)	Direct Entry,						
	5.0						Direct Entry,						

Summary for Subcatchment 2S: Existing Pond Bypass

Runoff = 14.98 cfs @ 12.11 hrs, Volume= 0.864 af, Depth> 5.79"

Routed to Reach 1R: Total Pre

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs NOAA 24-hr B 100-Year Rainfall=7.40"

Area	(ac)	CN	Desc	Description							
0	215 79 50-75% Grass cover, Fair, HSG C										
0	.303	303 69 50-75% Grass cover, Fair, HSG B									
1	.271	271 96 Gravel surface, HSG C									
1	.789	89	Weig	hted Aver	age						
1				00% Pervi	ous Area						
Tc (min)	Leng		Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description					
5.0						Direct Entry,					

Summary for Reach 1R: Total Pre

Inflow Area = 4.254 ac, 14.83% Impervious, Inflow Depth > 6.03" for 100-Year event

Inflow = 30.24 cfs @ 12.13 hrs, Volume= 2.139 af

Outflow = 30.24 cfs @ 12.13 hrs, Volume= 2.139 af, Atten= 0%, Lag= 0.0 min

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Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Summary for Pond 1P: Existing Detention Pond

Inflow Area = 2.465 ac, 25.60% Impervious, Inflow Depth > 6.22" for 100-Year event

Inflow = 21.45 cfs @ 12.11 hrs, Volume= 1.277 af

Outflow = 16.53 cfs @ 12.17 hrs, Volume= 1.276 af, Atten= 23%, Lag= 3.4 min

Primary = 16.53 cfs @ 12.17 hrs, Volume= 1.276 af

Routed to Reach 1R: Total Pre

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 403.64' @ 12.17 hrs Surf.Area= 3,604 sf Storage= 5,673 cf

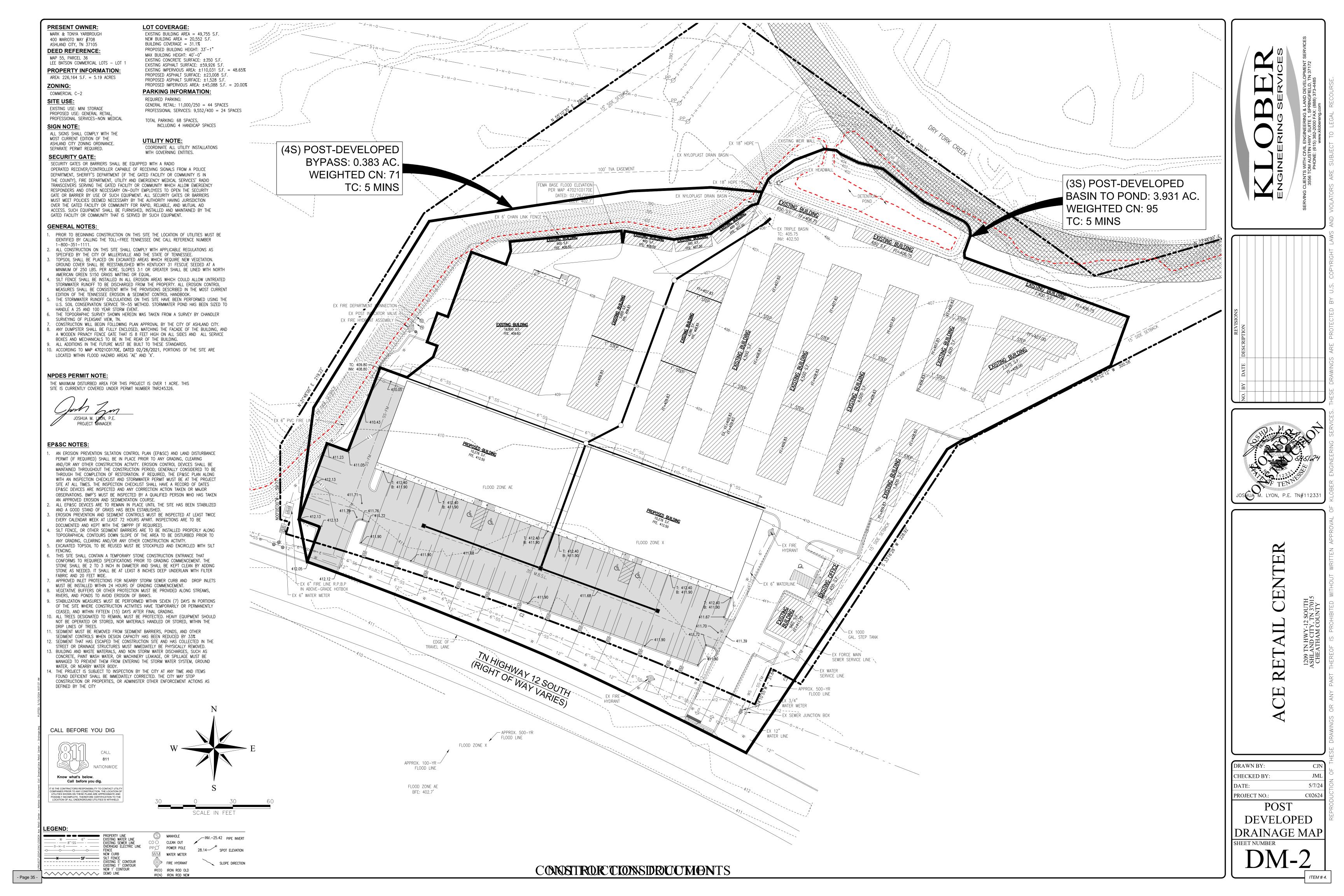
Plug-Flow detention time= 4.9 min calculated for 1.271 af (100% of inflow)

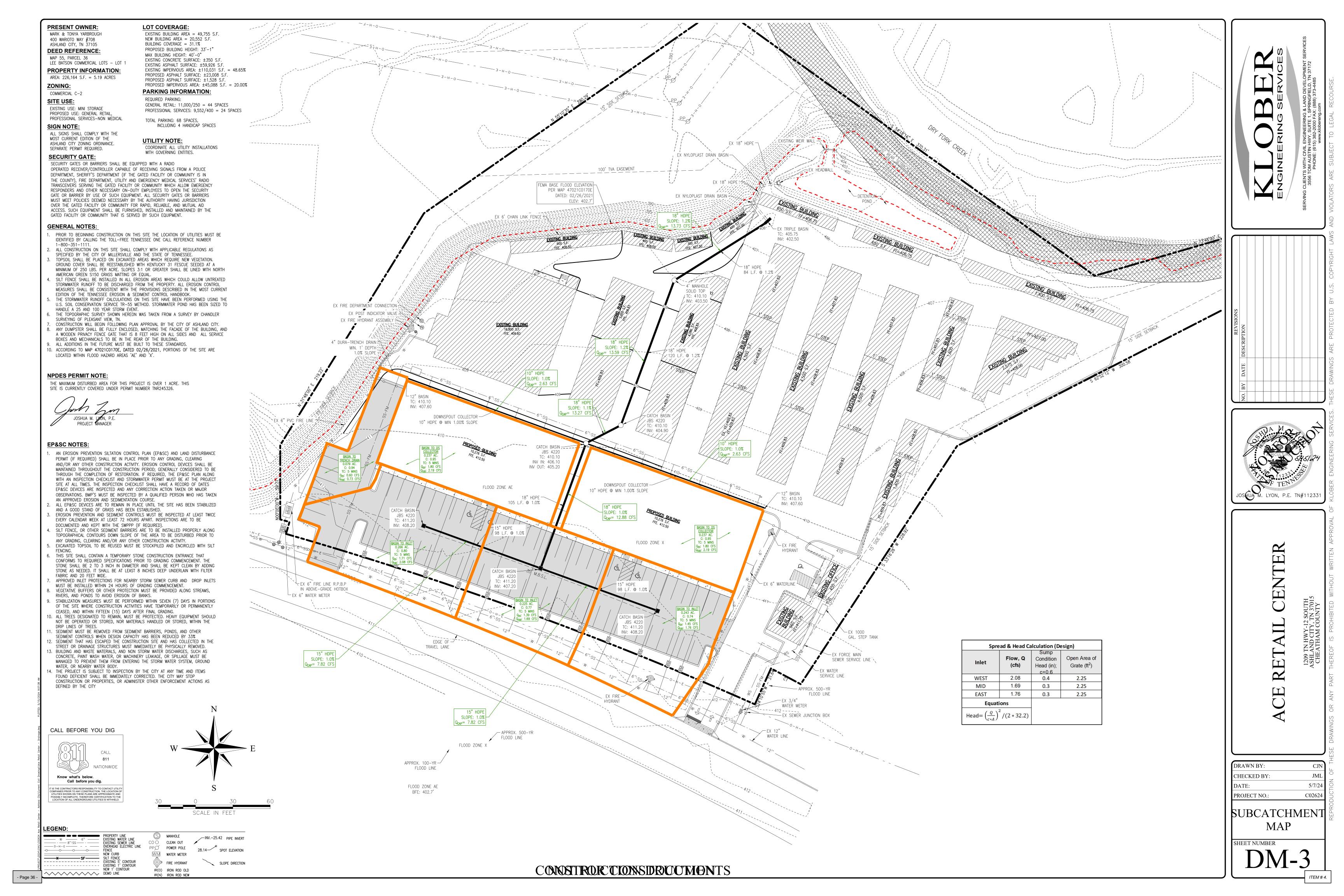
Center-of-Mass det. time= 4.3 min (746.9 - 742.7)

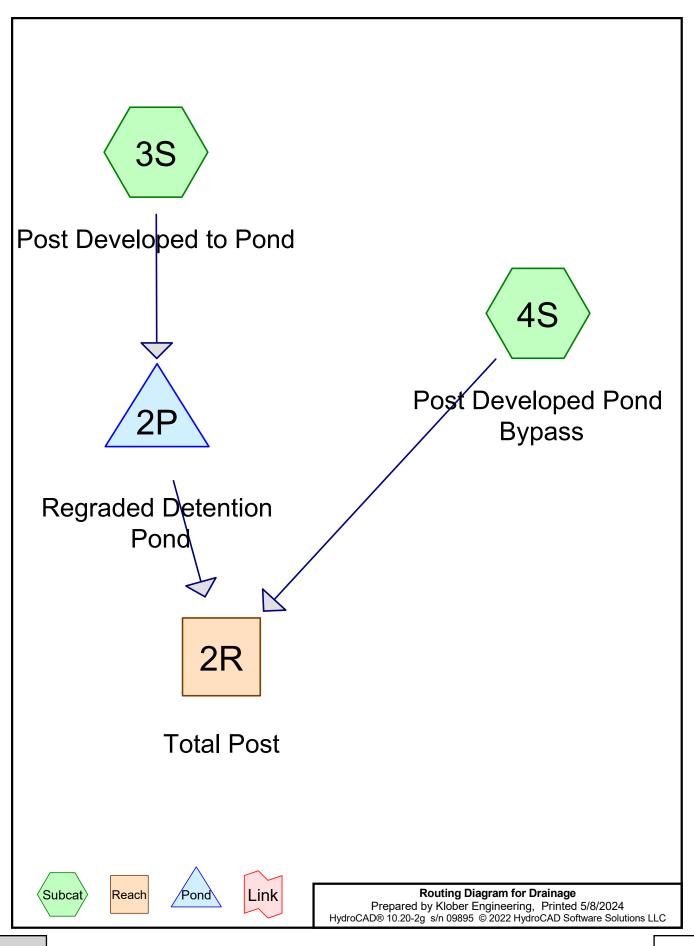
<u>Volume</u>	Invert	Avail	l.Storage	Storage Descript	ion		
#1	401.25'	,	11,230 cf	DETENTION PO	ND (Irregular) List	ed below (Recalc)	
Elevation (feet)	Sı	ırf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)	
401.25		16	16.0	0	0	16	
402.00		2,505	355.0	680	680	10,025	
403.00		3,174	346.0	2,833	3,513	10,638	
404.00		3,860	357.0	3,511	7,025	11,346	
405.00		4,561	368.0	4,206	11,230	12,077	
Device R	outing	Inv	vert Outle	et Devices			
#1 P	rimary	401		long x 3.50' rise S d Contraction(s)	Sharp-Crested Red	ctangular Weir	

Primary OutFlow Max=16.21 cfs @ 12.17 hrs HW=403.60' (Free Discharge)
1=Sharp-Crested Rectangular Weir (Weir Controls 16.21 cfs @ 4.80 fps)

POST-DEVELOPED







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Summary for Subcatchment 3S: Post Developed to Pond

Runoff = 16.23 cfs @ 12.11 hrs, Volume=

0.945 af, Depth> 2.88"

Routed to Pond 2P: Regraded Detention Pond

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs NOAA 24-hr B 2-Year Rainfall=3.60"

	Area	(ac)	CN	Desc	cription					
	0.	139	49	50-7	5% Grass	cover, Fair	, HSG A			
	0.062 79 50-75% Grass cover, Fair, HSG C									
	0.228 79 50-75% Grass cover, Fair, HSG C									
	0.074 84 50-75% Grass cover, Fair, HSG D									
	0.	091	96	Grav	el surface	, HSG C				
*	1.	428	98	Roof	s, HSG C					
	1.909 98 Unconnected pavement, HSG C									
	3.	931	95	Weig	ghted Aver	age				
	0.	594		15.1	1% Pervio	us Area				
	3.	337		84.89	9% Imperv	ious Area				
	1.	909		57.2	1% Uncon	nected				
	Тс	Leng	th	Slope	Velocity	Capacity	Description			
_	(min)	(fee	et)	(ft/ft)	(ft/sec)	(cfs)				
	5.0						Direct Entry,			

Summary for Subcatchment 4S: Post Developed Pond Bypass

Runoff = 0.63 cfs @ 12.13 hrs, Volume= 0.033 af, Depth> 1.03"

Routed to Reach 2R: Total Post

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs NOAA 24-hr B 2-Year Rainfall=3.60"

Area	(ac)	CN	Desc	cription		
0.	.362	69	50-7	5% Grass	cover, Fair	ir, HSG B
0.	.021	98	Pave	ed parking,	HSG B	
0.	.383	71	Weig	ghted Aver	age	
0.	.362		94.5	2% Pervio	us Area	
0.	.021		5.48	% Impervi	ous Area	
Tc (min)	Lengt (fee		Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	·
5.0						Direct Entry,

Volume

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Summary for Reach 2R: Total Post

Inflow Area = 4.314 ac, 77.84% Impervious, Inflow Depth > 2.72" for 2-Year event

Inflow = 12.69 cfs @ 12.17 hrs, Volume= 0.977 af

Outflow = 12.69 cfs @ 12.17 hrs, Volume= 0.977 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Summary for Pond 2P: Regraded Detention Pond

Inflow Area = 3.931 ac, 84.89% Impervious, Inflow Depth > 2.88" for 2-Year event

Inflow = 16.23 cfs @ 12.11 hrs, Volume= 0.945 af

Outflow = 12.15 cfs @ 12.17 hrs, Volume= 0.944 af, Atten= 25%, Lag= 3.6 min

Primary = 12.15 cfs @ 12.17 hrs, Volume= 0.944 af

Routed to Reach 2R: Total Post

Invert

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 403.16' @ 12.17 hrs Surf.Area= 4,137 sf Storage= 3,864 cf

Plug-Flow detention time= 2.7 min calculated for 0.941 af (100% of inflow)

Avail.Storage Storage Description

Center-of-Mass det. time= 2.6 min (751.2 - 748.6)

VOIGITIE	1111	711	n.otorage	Ctorage Description	011					
#1	401.	45'	12,821 cf	DETENTION PON	ID (Irregular) Liste	ed below (Recalc)				
Elevation	on	Surf.Area	Perim.	Inc.Store	Cum.Store	Wet.Area				
(fee	et)	(sq-ft)	(feet)	(cubic-feet)	(cubic-feet)	(sq-ft)				
401.4	45	16	16.0	0	0	16				
402.0	00	1,807	216.0	365	365	3,709				
403.0	00	4,007	353.0	2,835	3,200	9,919				
404.0	00	4,834	361.0	4,414	7,614	10,497				
405.0	00	5,589	331.0	5,207	12,821	12,185				
Device	Routing	In	vert Outl	et Devices						
#1	Primary	401	1.45' 2.0'	long x 3.50' rise S	harp-Crested Rec	tangular Weir				
	•		2 Er	nd Contraction(s)	-	-				
#2	Rectangular Weir									
	Head (feet) 0.20 0.40 0.60 0.80 1.00									
Coef. (English) 2.80 2.92 3.08 3.30 3.32										

Primary OutFlow Max=11.93 cfs @ 12.17 hrs HW=403.14' (Free Discharge)

1=Sharp-Crested Rectangular Weir (Weir Controls 11.93 cfs @ 4.25 fps)

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Summary for Subcatchment 3S: Post Developed to Pond

Runoff = 20.10 cfs @ 12.11 hrs, Volume= 1.185 af, Depth> 3.62"

Routed to Pond 2P: Regraded Detention Pond

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs NOAA 24-hr B 5-Year Rainfall=4.39"

	Area	(ac)	CN	Desc	cription							
	0.	139										
	0.	062	, , ,									
	0.	0.228 79 50-75% Grass cover, Fair, HSG C										
	0.	0.074 84 50-75% Grass cover, Fair, HSG D										
	0.091 96 Gravel surface, HSG C											
*	1.420 90 K001S, NOG C											
	1.909 98 Unconnected pavement, HSG C											
	3.931 95 Weighted Average											
	0.	594		15.1	1% Pervio	us Area						
	3.337 84.89% Impervious Area											
	1.909 57.21% Unconnected											
	Тс	Leng	th	Slope	Velocity	Capacity	Description					
	(min)	(fee	et)	(ft/ft)	(ft/sec)	(cfs)						
	5.0						Direct Entry,					

Summary for Subcatchment 4S: Post Developed Pond Bypass

Runoff = 0.94 cfs @ 12.12 hrs, Volume= 0.049 af, Depth> 1.54"

Routed to Reach 2R: Total Post

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs NOAA 24-hr B 5-Year Rainfall=4.39"

 Area	(ac)	CN	Desc	ription		
0.	362	69	50-7	5% Grass	cover, Fair	ir, HSG B
0.	021	98	Pave	ed parking,	HSG B	
0.	383	71	Weig	hted Aver	age	
0.	362		94.5	2% Pervio	us Area	
0.	021		5.48	% Impervi	ous Area	
 Tc (min)	Leng (fee		Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0						Direct Entry,

Volume

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Summary for Reach 2R: Total Post

Inflow Area = 4.314 ac, 77.84% Impervious, Inflow Depth > 3.43" for 5-Year event

Inflow = 15.59 cfs @ 12.17 hrs, Volume= 1.234 af

Outflow = 15.59 cfs @ 12.17 hrs, Volume= 1.234 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Summary for Pond 2P: Regraded Detention Pond

Inflow Area = 3.931 ac, 84.89% Impervious, Inflow Depth > 3.62" for 5-Year event

Inflow = 20.10 cfs @ 12.11 hrs, Volume= 1.185 af

Outflow = 14.80 cfs @ 12.17 hrs, Volume= 1.185 af, Atten= 26%, Lag= 3.8 min

Primary = 14.80 cfs @ 12.17 hrs, Volume= 1.185 af

Routed to Reach 2R: Total Post

Invert

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 403.45' @ 12.17 hrs Surf.Area= 4,370 sf Storage= 5,086 cf

Plug-Flow detention time= 3.0 min calculated for 1.181 af (100% of inflow)

Avail.Storage Storage Description

Center-of-Mass det. time= 2.9 min (748.0 - 745.1)

VOIGITIE	1111	711	n.otorage	Ctorage Description	011					
#1	401.	45'	12,821 cf	DETENTION PON	ID (Irregular) Liste	ed below (Recalc)				
Elevation	on	Surf.Area	Perim.	Inc.Store	Cum.Store	Wet.Area				
(fee	et)	(sq-ft)	(feet)	(cubic-feet)	(cubic-feet)	(sq-ft)				
401.4	45	16	16.0	0	0	16				
402.0	00	1,807	216.0	365	365	3,709				
403.0	00	4,007	353.0	2,835	3,200	9,919				
404.0	00	4,834	361.0	4,414	7,614	10,497				
405.0	00	5,589	331.0	5,207	12,821	12,185				
Device	Routing	In	vert Outl	et Devices						
#1	Primary	401	1.45' 2.0'	long x 3.50' rise S	harp-Crested Rec	tangular Weir				
	•		2 Er	nd Contraction(s)	-	-				
#2	Rectangular Weir									
	Head (feet) 0.20 0.40 0.60 0.80 1.00									
Coef. (English) 2.80 2.92 3.08 3.30 3.32										

Primary OutFlow Max=14.53 cfs @ 12.17 hrs HW=403.42' (Free Discharge)

1=Sharp-Crested Rectangular Weir (Weir Controls 14.53 cfs @ 4.59 fps)

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Summary for Subcatchment 3S: Post Developed to Pond

Runoff = 23.16 cfs @ 12.11 hrs, Volume=

1.377 af, Depth> 4.20"

Routed to Pond 2P: Regraded Detention Pond

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs NOAA 24-hr B 10-Year Rainfall=5.02"

	Area	(ac)	CN	Desc	cription					
	0.	139	49	50-7	5% Grass	cover, Fair	, HSG A			
	0.062 79 50-75% Grass cover, Fair, HSG C									
	0.228 79 50-75% Grass cover, Fair, HSG C									
	0.074 84 50-75% Grass cover, Fair, HSG D									
	0.	091	96	Grav	el surface	, HSG C				
*	1.	428	98	Roof	s, HSG C					
	1.909 98 Unconnected pavement, HSG C									
	3.	931	95	Weig	ghted Aver	age				
	0.	594		15.1	1% Pervio	us Area				
	3.	337		84.89	9% Imperv	ious Area				
	1.	909		57.2	1% Uncon	nected				
	Тс	Leng	th	Slope	Velocity	Capacity	Description			
_	(min)	(fee	et)	(ft/ft)	(ft/sec)	(cfs)				
	5.0						Direct Entry,			

Summary for Subcatchment 4S: Post Developed Pond Bypass

Runoff = 1.21 cfs @ 12.12 hrs, Volume= 0.

0.063 af, Depth> 1.98"

Routed to Reach 2R: Total Post

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs NOAA 24-hr B 10-Year Rainfall=5.02"

Aı	ea (ac)	CN	Desc	cription			
	0.362	69	50-7	5% Grass	cover, Fair	r, HSG B	
	0.021	98	Pave	ed parking,	HSG B		
	0.383	71	Weig	ghted Aver	age		
	0.362		94.5	2% Pervio	us Area		
	0.021		5.48	% Impervi	ous Area		
	Tc Ler in) (fo	igth eet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description	
	5.0					Direct Entry,	

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Summary for Reach 2R: Total Post

Inflow Area = 4.314 ac, 77.84% Impervious, Inflow Depth > 4.01" for 10-Year event

Inflow 17.88 cfs @ 12.17 hrs, Volume= 1.440 af

Outflow 17.88 cfs @ 12.17 hrs, Volume= 1.440 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Summary for Pond 2P: Regraded Detention Pond

Inflow Area = 3.931 ac, 84.89% Impervious, Inflow Depth > 4.20" for 10-Year event

23.16 cfs @ 12.11 hrs, Volume= Inflow 1.377 af

16.81 cfs @ 12.18 hrs, Volume= Outflow 1.377 af, Atten= 27%, Lag= 3.9 min

Primary 16.81 cfs @ 12.18 hrs, Volume= 1.377 af

Routed to Reach 2R: Total Post

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 403.67' @ 12.18 hrs Surf.Area= 4,551 sf Storage= 6,055 cf

Plug-Flow detention time= 3.2 min calculated for 1.372 af (100% of inflow)

Center-of-Mass det. time= 3.1 min (746.1 - 743.1)

Volume	Inv	ert Ava	il.Storage	Storage Descript	ion		
#1	401.	45'	12,821 cf	DETENTION PO	ND (Irregular) List	ed below (Recalc)	
Elevatio		Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)	
401.4	! 5	16	16.0	0	0	16	
402.0	00	1,807	216.0	365	365	3,709	
403.0	00	4,007	353.0	2,835	3,200	9,919	
404.0	00	4,834	361.0	4,414	7,614	10,497	
405.0	00	5,589	331.0	5,207	12,821	12,185	
Device	Routing	In	vert Outl	et Devices			
#1	Primary	401			Sharp-Crested Red	ctangular Weir	
				nd Contraction(s)			
#2	Primary	404		_	dth Broad-Creste	d Rectangular We	eir eine eine eine eine eine eine eine e
				d (feet) 0.20 0.40		00	
			Coe	t. (Engiish) 2.80 2	2.92 3.08 3.30 3.	.32	

Primary OutFlow Max=16.57 cfs @ 12.18 hrs HW=403.64' (Free Discharge)

-1=Sharp-Crested Rectangular Weir (Weir Controls 16.57 cfs @ 4.84 fps)

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Summary for Subcatchment 3S: Post Developed to Pond

Runoff = 27.53 cfs @ 12.11 hrs, Volume= 1.65²

1.651 af, Depth> 5.04"

Routed to Pond 2P: Regraded Detention Pond

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs NOAA 24-hr B 25-Year Rainfall=5.92"

	Area	(ac)	CN	Desc	cription					
	0.	139	49	50-7	5% Grass	cover, Fair	, HSG A			
	0.062 79 50-75% Grass cover, Fair, HSG C									
	0.228 79 50-75% Grass cover, Fair, HSG C									
	0.074 84 50-75% Grass cover, Fair, HSG D									
	0.	091	96	Grav	el surface	, HSG C				
*	1.	428	98	Roof	s, HSG C					
	1.909 98 Unconnected pavement, HSG C									
	3.	931	95	Weig	ghted Aver	age				
	0.	594		15.1	1% Pervio	us Area				
	3.	337		84.89	9% Imperv	ious Area				
	1.	909		57.2	1% Uncon	nected				
	Тс	Leng	th	Slope	Velocity	Capacity	Description			
_	(min)	(fee	et)	(ft/ft)	(ft/sec)	(cfs)				
	5.0						Direct Entry,			

Summary for Subcatchment 4S: Post Developed Pond Bypass

Runoff = 1.61 cfs @ 12.12 hrs, Volume= 0.084 af, Depth> 2.64"

Routed to Reach 2R: Total Post

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs NOAA 24-hr B 25-Year Rainfall=5.92"

Area	(ac)	CN	Desc	cription		
0	.362	69	50-7	5% Grass	cover, Fair	r, HSG B
0	.021	98	Pave	ed parking,	HSG B	
0	.383	71	Weig	ghted Aver	age	
0.	.362		94.5	2% Pervio	us Area	
0	.021		5.48	% Impervi	ous Area	
Tc (min)	Leng (fee		Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0	,		· /	, ,		Direct Entry,

Volume

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Summary for Reach 2R: Total Post

Inflow Area = 4.314 ac, 77.84% Impervious, Inflow Depth > 4.83" for 25-Year event

Inflow = 21.07 cfs @ 12.17 hrs, Volume= 1.735 af

Outflow = 21.07 cfs @ 12.17 hrs, Volume= 1.735 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Summary for Pond 2P: Regraded Detention Pond

Inflow Area = 3.931 ac, 84.89% Impervious, Inflow Depth > 5.04" for 25-Year event

Inflow = 27.53 cfs @ 12.11 hrs, Volume= 1.651 af

Outflow = 19.68 cfs @ 12.18 hrs, Volume= 1.651 af, Atten= 29%, Lag= 4.0 min

Primary = 19.68 cfs @ 12.18 hrs, Volume= 1.651 af

Routed to Reach 2R: Total Post

Invert

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 403.98' @ 12.18 hrs Surf.Area= 4,819 sf Storage= 7,528 cf

Plug-Flow detention time= 3.4 min calculated for 1.645 af (100% of inflow) Center-of-Mass det. time= 3.3 min (744.1 - 740.8)

Avail.Storage Storage Description

#1	401.45'	12,821 cf	DETENTION PONE	O (Irregular) Listed	below (Recalc)
Elevation	Surf.Area	Perim.	Inc.Store	Cum.Store	Wet.Area
(feet)	(sq-ft)	(feet)	(cubic-feet)	(cubic-feet)	(sq-ft)
401.45	16	16.0	0	0	16
402.00	1,807	216.0	365	365	3,709
403.00	4,007	353.0	2,835	3,200	9,919
404.00	4,834	361.0	4,414	7,614	10,497
405.00	5,589	331.0	5,207	12,821	12,185

Device	Routing	Invert	Outlet Devices
#1	Primary	401.45'	2.0' long x 3.50' rise Sharp-Crested Rectangular Weir
	•		2 End Contraction(s)
#2	Primary	404.95'	10.0' long x 0.5' breadth Broad-Crested Rectangular Weir
	-		Head (feet) 0.20 0.40 0.60 0.80 1.00
			Coef (English) 2.80 2.92 3.08 3.30 3.32

Primary OutFlow Max=19.42 cfs @ 12.18 hrs HW=403.95' (Free Discharge)

1=Sharp-Crested Rectangular Weir (Weir Controls 19.42 cfs @ 5.17 fps)

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Summary for Subcatchment 3S: Post Developed to Pond

Runoff = 31.06 cfs @ 12.11 hrs, Volume= 1.873 af, Depth> 5.72"

Routed to Pond 2P: Regraded Detention Pond

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs NOAA 24-hr B 50-Year Rainfall=6.65"

	Area	(ac)	CN	Desc	cription				
	0.	139	49	50-7	5% Grass	cover, Fair	, HSG A		
	0.	062	79	50-7	5% Grass	cover, Fair	, HSG C		
	0.	228	79	50-7	5% Grass	cover, Fair	, HSG C		
	0.	074	84	50-7	5% Grass	cover, Fair	, HSG D		
	0.	091	96	Grav	Gravel surface, HSG C				
*	1.	428	98	Roof	s, HSG C				
	1.	909	98	Unco	Jnconnected pavement, HSG C				
	3.	931	95	Weig	ghted Aver	age			
	0.	594		15.1	1% Pervio	us Area			
	3.	337		84.8	9% Imperv	ious Area			
	1.	909		57.2	1% Uncon	nected			
	Тс	Leng	th	Slope	Velocity	Capacity	Description		
	(min)	(fee	et)	(ft/ft)	(ft/sec)	(cfs)			
	5.0						Direct Entry,		

Summary for Subcatchment 4S: Post Developed Pond Bypass

Runoff = 1.95 cfs @ 12.12 hrs, Volume= 0.102 af, Depth> 3.21"

Routed to Reach 2R: Total Post

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs NOAA 24-hr B 50-Year Rainfall=6.65"

Aı	ea (ac)	CN	Desc	cription			
	0.362	69	50-7	5% Grass	cover, Fair	r, HSG B	
	0.021	98	Pave	ed parking,	HSG B		
	0.383	71	Weig	ghted Aver	age		
	0.362		94.5	2% Pervio	us Area		
	0.021		5.48	% Impervi	ous Area		
	Tc Ler in) (fo	igth eet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description	
	5.0					Direct Entry,	

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Summary for Reach 2R: Total Post

Inflow Area = 4.314 ac, 77.84% Impervious, Inflow Depth > 5.49" for 50-Year event

Inflow 23.57 cfs @ 12.17 hrs, Volume= 1.975 af

Outflow 23.57 cfs @ 12.17 hrs, Volume= 1.975 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Summary for Pond 2P: Regraded Detention Pond

Inflow Area = 3.931 ac, 84.89% Impervious, Inflow Depth > 5.72" for 50-Year event

31.06 cfs @ 12.11 hrs, Volume= Inflow 1.873 af

21.93 cfs @ 12.18 hrs, Volume= Outflow 1.872 af, Atten= 29%, Lag= 4.1 min

Primary 21.93 cfs @ 12.18 hrs, Volume= 1.872 af

Routed to Reach 2R: Total Post

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 404.23' @ 12.18 hrs Surf.Area= 5,006 sf Storage= 8,766 cf

Plug-Flow detention time= 3.6 min calculated for 1.872 af (100% of inflow)

Center-of-Mass det. time= 3.5 min (742.9 - 739.4)

Volume	lnv	ert Ava	il.Storage	Storage Descript	ion		
#1	401.	45'	12,821 cf	DETENTION PO	ND (Irregular) List	ed below (Recalc)	1
Elevatio (fee		Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)	
401.4	-5	16	16.0	0	0	16	
402.0	0	1,807	216.0	365	365	3,709	
403.0	0	4,007	353.0	2,835	3,200	9,919	
404.0	0	4,834	361.0	4,414	7,614	10,497	
405.0	0	5,589	331.0	5,207	12,821	12,185	
Device	Routing	Ir	vert Outl	et Devices			
#1	Primary	401		long x 3.50' rise S	Sharp-Crested Red	ctangular Weir	
				nd Contraction(s)			
#2	Primary	404	Hea	' long x 0.5' brea d d (feet) 0.20 0.40 f. (English) 2.80 2	0.60 0.80 1.00	_	ir

Primary OutFlow Max=21.65 cfs @ 12.18 hrs HW=404.20' (Free Discharge)

-1=Sharp-Crested Rectangular Weir (Weir Controls 21.65 cfs @ 5.43 fps)

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Summary for Subcatchment 3S: Post Developed to Pond

Runoff = 34.67 cfs @ 12.11 hrs, Volume=

2.100 af, Depth> 6.41"

Routed to Pond 2P: Regraded Detention Pond

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs NOAA 24-hr B 100-Year Rainfall=7.40"

	Area	(ac)	CN	Desc	cription						
	0.	139	49	50-7	5% Grass	cover, Fair	, HSG A				
	0.	062	79	50-7	5% Grass	cover, Fair	, HSG C				
	0.	228	79	50-7	5% Grass	cover, Fair	, HSG C				
	0.	074	84	50-7	60-75% Grass cover, Fair, HSG D						
	0.	091	96	Grav	el surface	, HSG C					
*	1.	428	98	Roof	s, HSG C						
	1.	909	98	Unco	Inconnected pavement, HSG C						
	3.	931	95	Weig	ghted Aver	age					
	0.	594		15.1	1% Pervio	us Area					
	3.	337		84.89	9% Imperv	ious Area					
	1.	909		57.2	1% Uncon	nected					
	Тс	Leng	th	Slope	Velocity	Capacity	Description				
_	(min)	(fee	et)	(ft/ft)	(ft/sec)	(cfs)					
	5.0						Direct Entry,				

Summary for Subcatchment 4S: Post Developed Pond Bypass

Runoff = 2.31 cfs @ 12.12 hrs, Volume= 0.122 af, Depth> 3.81"

Routed to Reach 2R: Total Post

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs NOAA 24-hr B 100-Year Rainfall=7.40"

Aı	ea (ac)	CN	Desc	cription			
	0.362	69	50-7	5% Grass	cover, Fair	r, HSG B	
	0.021	98	Pave	ed parking,	HSG B		
	0.383	71	Weig	ghted Aver	age		
	0.362		94.5	2% Pervio	us Area		
	0.021		5.48	% Impervi	ous Area		
	Tc Ler in) (fo	igth eet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description	
	5.0					Direct Entry,	

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Summary for Reach 2R: Total Post

Inflow Area = 4.314 ac, 77.84% Impervious, Inflow Depth > 6.18" for 100-Year event

Inflow 26.05 cfs @ 12.17 hrs, Volume= 2.221 af

Outflow 26.05 cfs @ 12.17 hrs, Volume= 2.221 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Summary for Pond 2P: Regraded Detention Pond

Inflow Area = 3.931 ac, 84.89% Impervious, Inflow Depth > 6.41" for 100-Year event

34.67 cfs @ 12.11 hrs, Volume= 2.100 af Inflow

24.15 cfs @ 12.18 hrs, Volume= 2.100 af, Atten= 30%, Lag= 4.2 min Outflow

Primary 24.15 cfs @ 12.18 hrs, Volume= 2.100 af

Routed to Reach 2R: Total Post

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 404.49' @ 12.18 hrs Surf.Area= 5,198 sf Storage= 10,080 cf

Plug-Flow detention time= 3.8 min calculated for 2.093 af (100% of inflow) Center-of-Mass det. time= 3.6 min (741.9 - 738.3)

Volume	Invert Ava	il.Storage	Storage Description	n		
#1	401.45'	12,821 cf	DETENTION PON	D (Irregular) Liste	ed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)	
401.45	16	16.0	0	0	16	
402.00	1,807	216.0	365	365	3,709	
403.00	4,007	353.0	2,835	3,200	9,919	
404.00	4,834	361.0	4,414	7,614	10,497	
405.00	5,589	331.0	5,207	12,821	12,185	
Device R	outing Ir	vert Outl	et Devices			

DCVICC	rtouting	IIIVCIL	Outlet Devices
#1	Primary	401.45'	2.0' long x 3.50' rise Sharp-Crested Rectangular Weir
			2 End Contraction(s)
#2	Primary	404.95'	10.0' long x 0.5' breadth Broad-Crested Rectangular Weir
			Head (feet) 0.20 0.40 0.60 0.80 1.00
			Coef. (English) 2.80 2.92 3.08 3.30 3.32

Primary OutFlow Max=23.86 cfs @ 12.18 hrs HW=404.46' (Free Discharge)

-1=Sharp-Crested Rectangular Weir (Weir Controls 23.86 cfs @ 5.67 fps)

4 INTERNAL TRENCH WIDTH

0.013 MANNINGS ROUGHNESS (CONC)0.009 MANNINGS ROUGHNESS (FRP)

0.75 GRATE HEIGHT (IN)

2 BOTTOM CORNER RADIUS (IN)

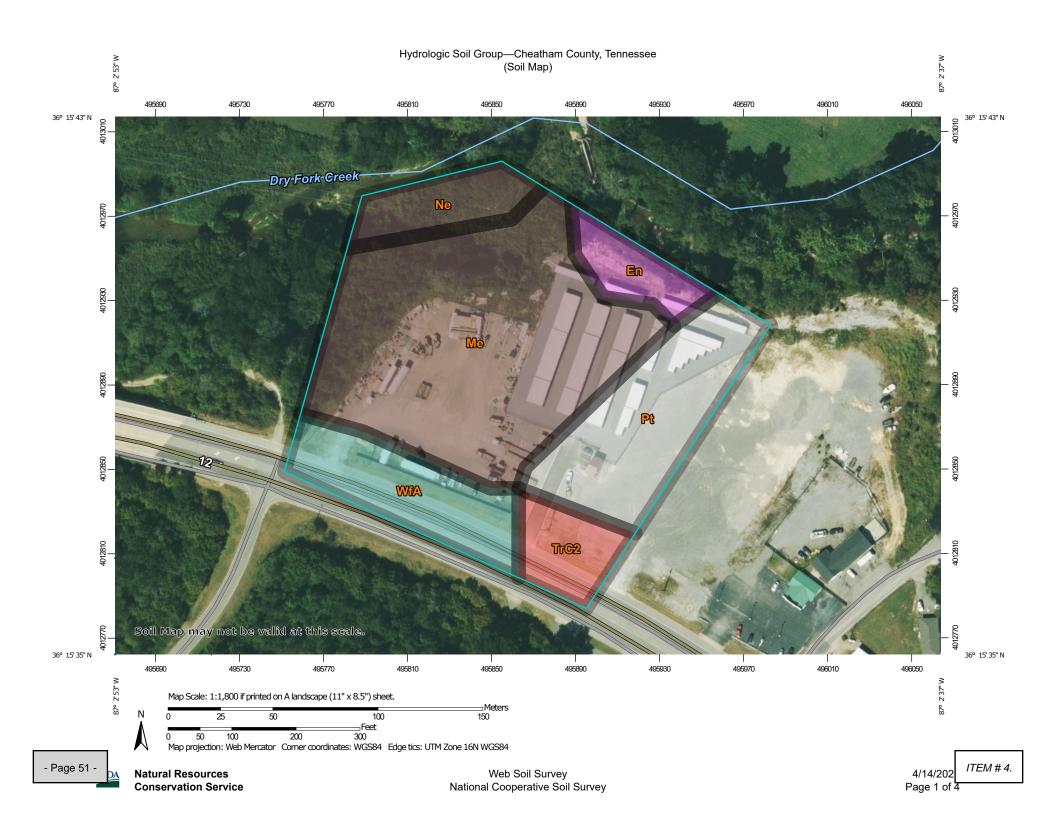
*NOTES: All flow and volume calculations are below grate

All section depths can be made with no slope. Sections shown are 8' long (typ.)

4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0 8.5 9.0 9.5	START INVERT (IN) 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0	END INVERT (IN) 4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0	RATE FORMING SYSTEMS (CFS) 0.17 0.21 0.24 0.27 0.31 0.34	RATE FORMING SYSTEMS (GPM) 78 93 108 122 137	RATE PRECAST SYSTEM (CFS) 0.25 0.30 0.35 0.39	RATE PRECAST SYSTEM (GPM) 113 134 155	RADIUS SECTION STORAGE (GAL) 5.5 6.4 7.2
4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0 8.5 9.0	4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0	4.5 5.0 5.5 6.0 6.5 7.0 7.5	SYSTEMS (CFS) 0.17 0.21 0.24 0.27 0.31	SYSTEMS (GPM) 78 93 108 122	(CFS) 0.25 0.30 0.35	(GPM) 113 134 155	STORAGE (GAL) 5.5 6.4
5.0 5.5 6.0 6.5 7.0 7.5 8.0 8.5 9.0	4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0	4.5 5.0 5.5 6.0 6.5 7.0 7.5	(CFS) 0.17 0.21 0.24 0.27 0.31	(GPM) 78 93 108 122	(CFS) 0.25 0.30 0.35	(GPM) 113 134 155	(GAL) 5.5 6.4
5.0 5.5 6.0 6.5 7.0 7.5 8.0 8.5 9.0	4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0	5.0 5.5 6.0 6.5 7.0 7.5	0.17 0.21 0.24 0.27 0.31	78 93 108 122	0.25 0.30 0.35	113 134 155	5.5 6.4
5.0 5.5 6.0 6.5 7.0 7.5 8.0 8.5 9.0	4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0	5.0 5.5 6.0 6.5 7.0 7.5	0.21 0.24 0.27 0.31	93 108 122	0.30 0.35	134 155	6.4
5.5 6.0 6.5 7.0 7.5 8.0 8.5 9.0 9.5	5.0 5.5 6.0 6.5 7.0 7.5 8.0	5.5 6.0 6.5 7.0 7.5	0.24 0.27 0.31	108 122	0.35	155	
6.0 6.5 7.0 7.5 8.0 8.5 9.0 9.5	5.5 6.0 6.5 7.0 7.5 8.0	6.0 6.5 7.0 7.5	0.27 0.31	122			7.2
6.5 7.0 7.5 8.0 8.5 9.0 9.5	6.0 6.5 7.0 7.5 8.0	6.5 7.0 7.5	0.31		0.39		
7.0 7.5 8.0 8.5 9.0 9.5	6.5 7.0 7.5 8.0	7.0 7.5		137		177	8.0
7.5 8.0 8.5 9.0 9.5	7.0 7.5 8.0	7.5	0.34	107	0.44	198	8.8
8.0 8.5 9.0 9.5	7.5 8.0			152	0.49	219	9.7
9.0 9.5	8.0	8.0	0.37	167	0.54	241	10.5
9.0 9.5		0.0	0.41	182	0.59	263	11.3
9.5		8.5	0.44	197	0.63	284	12.2
	8.5	9.0	0.47	212	0.68	306	13.0
10.0	9.0	9.5	0.51	227	0.73	328	13.8
10.0	9.5	10.0	0.54	242	0.78	350	14.7
10.5	10.0	10.5	0.57	257	0.83	371	15.5
11.0	10.5	11.0	0.61	272	0.88	393	16.3
11.5	11.0	11.5	0.64	287	0.92	415	17.2
12.0	11.5	12.0	0.67	303	0.97	437	18.0
12.5	12.0	12.5	0.71	318	1.02	459	18.8
13.0	12.5	13.0	0.74	333	1.07	481	19.6
13.5	13.0	13.5	0.78	348	1.12	503	20.5
14.0	13.5	14.0	0.81	363	1.17	525	21.3
14.5	14.0	14.5	0.84	378	1.22	547	22.1
15.0	14.5	15.0	0.88	394	1.27	569	23.0
15.5	15.0	15.5	0.91	409	1.32	591	23.8
16.0	15.5	16.0	0.94	424	1.36	613	24.6
16.5	16.0	16.5	0.98	439	1.41	635	25.5
17.0	16.5	17.0	1.01	455	1.46	657	26.3
17.5	17.0	17.5	1.05	470	1.51	679	27.1
18.0	17.5	18.0	1.08	485	1.56	701	28.0
18.5	18.0	18.5	1.11	500	1.61	723	28.8
19.0	18.5	19.0	1.15	515	1.66	745	29.6
19.5	19.0	19.5	1.18	531	1.71	767	30.5
20.0	19.5	20.0	1.22	546	1.76	789	31.3
20.5	20.0	20.5	1.25	561	1.81	811	32.1
21.0	20.5	21.0	1.28	576	1.86	833	32.9
21.5	21.0	21.5	1.32	592	1.90	855	33.8
22.0	21.5	22.0	1.35	607	1.95	877	34.6
22.5	22.0	22.5	1.39				
	12.5 13.0 13.5 14.0 14.5 15.0 15.5 16.0 16.5 17.0 17.5 18.0 18.5 19.0 19.5 20.0 20.5 21.0 21.5 22.0	12.5 12.0 13.0 12.5 13.5 13.0 14.0 13.5 14.5 14.0 15.0 14.5 15.5 15.0 16.0 15.5 16.5 16.0 17.0 16.5 17.5 17.0 18.0 17.5 18.5 18.0 19.0 18.5 19.5 19.0 20.0 19.5 20.5 20.0 21.0 20.5 22.0 21.5	12.5 12.0 12.5 13.0 12.5 13.0 13.5 13.0 13.5 14.0 13.5 14.0 14.5 14.0 14.5 15.0 14.5 15.0 15.5 15.0 15.5 16.0 15.5 16.0 16.5 17.0 16.5 17.0 16.5 17.0 17.5 17.0 17.5 18.0 17.5 18.0 18.5 18.0 18.5 19.0 19.5 20.0 20.0 20.5 20.0 20.5 20.0 20.5 21.0 21.5 22.0	12.5 12.0 12.5 0.71 13.0 12.5 13.0 0.74 13.5 13.0 13.5 0.78 14.0 13.5 14.0 0.81 14.5 14.0 14.5 0.84 15.0 14.5 15.0 0.88 15.5 15.0 15.5 0.91 16.0 15.5 16.0 0.94 16.5 16.0 16.5 0.98 17.0 16.5 17.0 1.01 17.5 17.0 17.5 1.05 18.0 17.5 18.0 1.08 18.5 18.0 18.5 1.11 19.0 18.5 19.0 1.15 19.5 19.0 19.5 1.18 20.0 20.5 20.0 1.22 20.5 20.0 20.5 1.25 21.0 21.5 1.32 22.0 21.5 1.35	12.5 12.0 12.5 0.71 318 13.0 12.5 13.0 0.74 333 13.5 13.0 13.5 0.78 348 14.0 13.5 14.0 0.81 363 14.5 14.0 14.5 0.84 378 15.0 14.5 15.0 0.88 394 15.5 15.0 15.5 0.91 409 16.0 15.5 16.0 0.94 424 16.5 16.0 16.5 0.98 439 17.0 16.5 17.0 1.01 455 17.5 17.0 17.5 1.05 470 18.0 17.5 18.0 1.08 485 18.5 18.0 18.5 1.11 500 19.0 18.5 19.0 1.15 515 19.5 19.0 19.5 1.18 531 20.0 20.5 20.0 1.22 546 </td <td>12.5 12.0 12.5 0.71 318 1.02 13.0 12.5 13.0 0.74 333 1.07 13.5 13.0 13.5 0.78 348 1.12 14.0 13.5 14.0 0.81 363 1.17 14.5 14.0 14.5 0.84 378 1.22 15.0 14.5 15.0 0.88 394 1.27 15.5 15.0 15.5 0.91 409 1.32 16.0 15.5 16.0 0.94 424 1.36 16.5 16.0 16.5 0.98 439 1.41 17.0 16.5 17.0 1.01 455 1.46 17.5 17.0 17.5 1.05 470 1.51 18.0 17.5 18.0 1.08 485 1.56 18.5 18.0 1.15 515 1.66 19.5 19.0 19.5 1.18 531<td>12.5 12.0 12.5 0.71 318 1.02 459 13.0 12.5 13.0 0.74 333 1.07 481 13.5 13.0 13.5 0.78 348 1.12 503 14.0 13.5 14.0 0.81 363 1.17 525 14.5 14.0 14.5 0.84 378 1.22 547 15.0 14.5 15.0 0.88 394 1.27 569 15.5 15.0 15.5 0.91 409 1.32 591 16.0 15.5 16.0 0.94 424 1.36 613 16.5 16.0 16.5 0.98 439 1.41 635 17.0 16.5 17.0 1.01 455 1.46 657 17.5 17.0 17.5 1.05 470 1.51 679 18.0 17.5 18.0 1.08 485 1.56 701</td></td>	12.5 12.0 12.5 0.71 318 1.02 13.0 12.5 13.0 0.74 333 1.07 13.5 13.0 13.5 0.78 348 1.12 14.0 13.5 14.0 0.81 363 1.17 14.5 14.0 14.5 0.84 378 1.22 15.0 14.5 15.0 0.88 394 1.27 15.5 15.0 15.5 0.91 409 1.32 16.0 15.5 16.0 0.94 424 1.36 16.5 16.0 16.5 0.98 439 1.41 17.0 16.5 17.0 1.01 455 1.46 17.5 17.0 17.5 1.05 470 1.51 18.0 17.5 18.0 1.08 485 1.56 18.5 18.0 1.15 515 1.66 19.5 19.0 19.5 1.18 531 <td>12.5 12.0 12.5 0.71 318 1.02 459 13.0 12.5 13.0 0.74 333 1.07 481 13.5 13.0 13.5 0.78 348 1.12 503 14.0 13.5 14.0 0.81 363 1.17 525 14.5 14.0 14.5 0.84 378 1.22 547 15.0 14.5 15.0 0.88 394 1.27 569 15.5 15.0 15.5 0.91 409 1.32 591 16.0 15.5 16.0 0.94 424 1.36 613 16.5 16.0 16.5 0.98 439 1.41 635 17.0 16.5 17.0 1.01 455 1.46 657 17.5 17.0 17.5 1.05 470 1.51 679 18.0 17.5 18.0 1.08 485 1.56 701</td>	12.5 12.0 12.5 0.71 318 1.02 459 13.0 12.5 13.0 0.74 333 1.07 481 13.5 13.0 13.5 0.78 348 1.12 503 14.0 13.5 14.0 0.81 363 1.17 525 14.5 14.0 14.5 0.84 378 1.22 547 15.0 14.5 15.0 0.88 394 1.27 569 15.5 15.0 15.5 0.91 409 1.32 591 16.0 15.5 16.0 0.94 424 1.36 613 16.5 16.0 16.5 0.98 439 1.41 635 17.0 16.5 17.0 1.01 455 1.46 657 17.5 17.0 17.5 1.05 470 1.51 679 18.0 17.5 18.0 1.08 485 1.56 701

				FLOW	FLOW	FLOW	FLOW	DADILLE
CLODE		START	END	RATE	RATE	RATE	RATE	RADIUS
SLOPE	SECTION#	INVERT	INVERT	FORMING	FORMING	PRECAST	PRECAST	SECTION
(%)		(IN)	(IN)	SYSTEMS	SYSTEMS	SYSTEM	SYSTEM	STORAGE
				(CFS)	(GPM)	(CFS)	(GPM)	(GAL)
1.0	5	4.0	5.0	0.29	131	0.42	190	6.4
	6	5.0	6.0	0.39	173	0.56	250	8.0
	7	6.0	7.0	0.48	215	0.69	310	9.7
	8	7.0	8.0	0.57	257	0.83	371	11.3
	9	8.0	9.0	0.67	300	0.96	433	13.0
	10	9.0	10.0	0.76	342	1.10	494	14.7
	11	10.0	11.0	0.86	385	1.24	556	16.3
	12	11.0	12.0	0.95	428	1.38	618	18.0
	13	12.0	13.0	1.05	471	1.51	680	19.6
	14	13.0	14.0	1.14	514	1.65	742	21.3
	15	14.0	15.0	1.24	557	1.79	804	23.0
	16	15.0	16.0	1.34	600	1.93	866	24.6
	17	16.0	17.0	1.43	643	2.07	928	26.3
	18	17.0	18.0	1.53	686	2.21	991	28.0
	19	18.0	19.0	1.62	729	2.35	1053	29.6
	20	19.0	20.0	1.72	772	2.48	1115	31.3
	21	20.0	21.0	1.82	815	2.62	1178	32.9
	22	21.0	22.0	1.91	858	2.76	1240	34.6
	23	22.0	23.0	2.01	902	2.90	1302	36.3
	24	23.0	24.0	2.10	945	3.04	1365	37.9
	25	24.0	25.0	2.20	988	3.18	1427	39.6
	26	25.0	26.0	2.30	1031	3.32	1489	41.3
	27	26.0	27.0	2.39	1074	3.46	1552	42.9
	28	27.0	28.0	2.49	1118	3.60	1614	44.6
	29	28.0	29.0	2.59	1161	3.74	1677	46.2
	30	29.0	30.0	2.68	1204	3.87	1739	47.9
	31	30.0	31.0	2.78	1247	4.01	1801	49.6
	32	31.0	32.0	2.87	1290	4.15	1864	51.2
	33	32.0	33.0	2.97	1334	4.29	1926	52.9
	34	33.0	34.0	3.07	1377	4.43	1989	54.6
	35	34.0	35.0	3.16	1420	4.57	2051	56.2
	36	35.0	36.0	3.26	1463	4.71	2114	57.9
	37	36.0	37.0	3.36	1506	4.85	2176	59.5
	38	37.0	38.0	3.45	1550	4.99	2238	61.2
	39	38.0	39.0	3.55	1593	5.13	2301	62.9
	40	39.0	40.0	3.65	1636	5.27	2363	64.5
	41	40.0	41.0	3.74	1679	5.40	2426	66.2

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MAP LEGEND MAP INFORMATION The soil surveys that comprise your AOI were mapped at Area of Interest (AOI) С 1:24.000. Area of Interest (AOI) C/D Soils Warning: Soil Map may not be valid at this scale. D Soil Rating Polygons Enlargement of maps beyond the scale of mapping can cause Not rated or not available Α misunderstanding of the detail of mapping and accuracy of soil **Water Features** line placement. The maps do not show the small areas of A/D Streams and Canals contrasting soils that could have been shown at a more detailed Transportation B/D Rails ---Please rely on the bar scale on each map sheet for map measurements. Interstate Highways C/D Source of Map: Natural Resources Conservation Service **US Routes** Web Soil Survey URL: D Major Roads Coordinate System: Web Mercator (EPSG:3857) Not rated or not available -Local Roads Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts Soil Rating Lines Background distance and area. A projection that preserves area, such as the Aerial Photography Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required. This product is generated from the USDA-NRCS certified data as of the version date(s) listed below. Soil Survey Area: Cheatham County, Tennessee Survey Area Data: Version 14, May 29, 2020 Soil map units are labeled (as space allows) for map scales 1:50.000 or larger. Not rated or not available Date(s) aerial images were photographed: Sep 21, 2019—Apr 10. 2020 **Soil Rating Points** The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background A/D imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident. B/D

Page 2 of 2

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
En	Ennis gravelly silt loam, occasionally flooded	А	0.4	5.6%
Me	Melvin silt loam, frequently flooded	B/D	3.6	48.9%
Ne	Newark silt loam, frequently flooded	B/D	0.5	7.1%
Pt	Pits, quarry		1.4	19.3%
TrC2	Tarklin gravelly silt loam, 5 to 12 percent slopes, eroded	D	0.5	6.4%
WfA	Wolftever silty clay loam, 0 to 2 percent slopes, occasionally flooded	С	1.0	12.8%
Totals for Area of Inter	rest	1	7.4	100.0%

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher





233 Tennessee Waltz Parkway Suite 103 Ashland City TN 37015 (615) 792-6455

Application for Reclassification of Property Under the Zoning Ordinance

Application Fee: \$100.00

Application is hereby made to the Mayor and City Council, which first must be reviewed by the City Planning Commission, to reclassify the property described below now in a district.
Description of Property (Attach Map): Map 055 Parcel 019.00 1.58 Ac at marrowbone creek bridge Hwy 12 by the lake
Reason for Reclassification Request: Request for C-2 ZONING for highest and best use. Address: 1070 Hwy 12 South Ashland City TN 37015
 NOTE: All applications for rezoning must be turned into City Hall no later than thirty (30) days prior to the upcoming planning commission meeting if they are to be entertained at said meeting. An accurate graphic plat prepared and stamped by a registered design professional and a legal description of property to be rezoned must be submitted to the Building Official prior to consideration by the Town Planning Commissioners. In certain circumstances (i.e. large annexation requests having irregular boundaries) these legal descriptions must be submitted prior to planning.
 irregular boundaries) these legal descriptions must be submitted prior to planning commission consideration. 3. The applicant will submit the names and addresses of all owners of adjacent property within 1,000 feet. The applicant must also submit a map showing the property within 200 feet of said property.

Send application and other documents to amartin@ashlandcitytn.gov

5-28-24

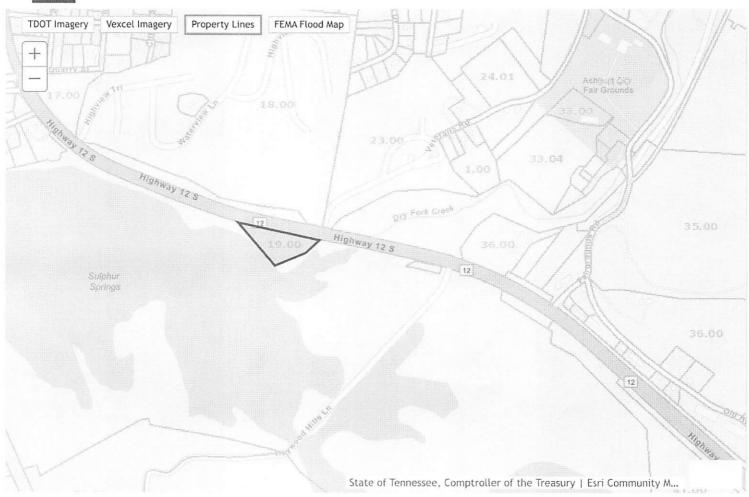
Date

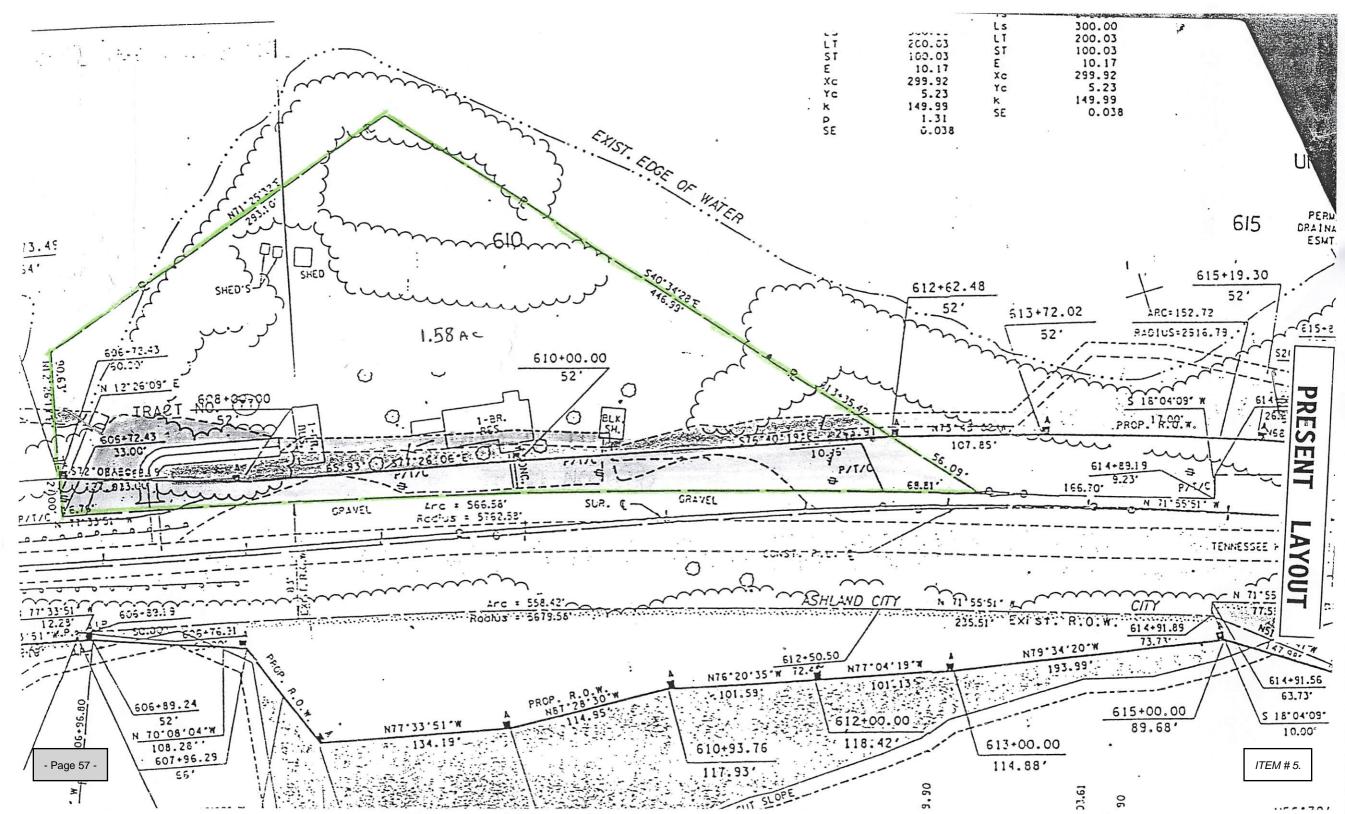
Applicant

John W. MELTON



Tennessee Property Viewer







233 Tennessee Waltz Parkway Suite 103 Ashland City TN 37015 (615) 792-6455

PLANNING COMMISSION SITE PLAN CHECKLIST

NAME OF SITE	
LOCATION	ZONING DISTRICT
OWNER	
ENGINEER	

- 1. Three (3) copies of the site plan at a scale no smaller than 1"=60. Please indicate at time of application if you would like any of the remaining copies after your case is heard and voted on.
- 2. Three (3) copies and an electronic PDF of revised site plans made available to the Building and Codes Department according to planner/engineer comments. Also written response to all comments to match what was changed on revised site plans.
- 3. Location map of the site at a scale of not less than 1" = 2000' (USGS map is acceptable). Map must show the following:
 - a. Approximate site boundary
 - b. Public streets in the vicinity
 - c. Types of development of surrounding parcels
 - d. Public water and sewer lines serving the site
 - e. Map # and Parcel # of site location
- 4. Site boundary, stamped and signed by a registered surveyor.
- 5. The number of stories of all proposed structures on the site (residential and commercial structures three (3) or more stories in height must have their plans approved by the State Fire Marshall's Office)..
- 6. The number of dwelling units per acre, if applicable.
- 7. The shape, size, and location of all existing buildings on the lot.
- 8. The existing zoning and existing and intended use of the lot and of structures on it. If residential, give the number of dwelling units per building.
- 9. Topographic survey of the entire site development with contour intervals at no greater than 2' intervals (no less than 10' beyond the limits of proposed grading), stamped and signed by a registered surveyor.
- 10. Location of all driveways and entrances with dimensions from the centerline of the drive to the nearest property corner and to the nearest intersection (if the intersection is closer than 200 feet).
- 11. All required building setbacks and other yard requirements.



233 Tennessee Waltz Parkway Suite 103 Ashland City TN 37015 (615) 792-6455

- 12. List minimum parking requirements and parking provided.
- 13. Dimensioned layout and location of all parking spaces including handicapped spaces and statement that plans meet all applicable handicap rules and regulations.
- 14. Indication/Notation of any major design criteria utilized in development and aiding in design intent of the site plans.
- 15. Dimensioned layout and location of on-site and off-street loading bays, docks and maneuvering areas.
- 16. Location and area of open space.
- 17. A table showing the ground coverage, total floor area and building heights.
- 18. Location, dimension and heights of all fences and walls with materials specified.
- 19. Location, type and amount of landscaping demonstrating compliance with Town regulations.
- 20. Proposed means of surface drainage, including locations and sizes of all culverts, ditches and detention structures, storm-water system to be designed as per the requirements of the Ashland City Planning Commission.
- 21. Provide all finished floor elevations for all structures as required by Ordinance #477 Ashland City Municipal Floodplain Zoning Ordinance.
- 22. Provide detail sheet for items, including, but not limited to: site features, headwalls, detention structures, pavement, curb, sidewalk width and thickness, and landscape plantings, etc.
- 23. Openings for ingress and egress to public streets.
- 24. Location of the centerline, right(s)-of-way, and the edge of pavement of existing streets, as well as the location of existing curbing where applicable.
- 25. Total square footage of all on-site paved areas.
- 26. Dimensioned location of all easements and right-of-ways.
- 27. Location of all portions of the site that are within the floodway and the 100-year floodplain. A note will be included which gives the FEMA map number from which this information was developed. In addition, if portions of the site are within the 100-year floodplain and/or the floodway, the 100-year flood elevation(s) at the site will be listed on the plan.



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- 28. Location, size, and distance to all public utilities serving the site including all existing and proposed fire hydrants (dimension to nearest existing). Include all proposed private-side utility installations necessary for the site development. Details shall be included in accordance with the applicable servicing public utility.
- 29. Any offsite utility installations (public or private) that may be required as part of the site development and resultant capacity analyses provided by the utility providers.
- 30. Location, by type and size of all proposed signs, (Please note that signs larger than 50 sq. ft. are not permitted per the sign ordinance for the Town of Ashland City.
- 31. Location and details about all lighting proposed on the site and to be attached to building(s).
- 32. Location and screening methods of dumpsters.
- 33. Vegetation, show at minimum the following:
 - a. Existing tree masses and hedgerows
 - b. General description of the tree types and sizes within the tree masses
 - c. Location and identification of trees 18" in caliper (measured 4' above the ground) or larger
 - d. Description of landscaping requirements for the site based upon surrounding land uses (see Zoning Ordinance Section 3.140)
- 34. Identification of slopes greater than 15% and identification of those soils (SCS soil mapping is acceptable) on those slopes.
- 35. Location and types of all erosion control and tree protection methods in accordance with applicable Town and State requirements.
- 36. Sidewalks in accordance with Ordinance #527
- 37. Site plan application fee \$100
- 38. Additional engineering review etc., site inspection charges are subject to Section 14-301 of the Ashland City Municipal Code per Ordinance #165.
- 39. Three (3) sets of the construction plans for the site.
- 40. Submittal must be made at least 20 working days?? prior to the Planning Commission meeting to be heard.
- 41. If applicant is requesting a variance, application is to be submitted to the Building Official in accordance with Section 7.080 of the Ashland City Zoning Ordinance.