Town of Thompson's Station Municipal Planning Commission Meeting Agenda September 22, 2020

Meeting Called To Order

Statement By Chair Relating To Conducting The Planning Commission Meeting By Electronic Means Of Due To COVID-19 State Of Emergency

Documents:

INTRODUCTION STATEMENT FOR TS PC SEP 22 2020.PDF

Minutes-

Consideration Of The Minutes Of The July 28th, 2020 Meeting

Documents:

JULY 2020 MINUTES.PDF

Public Comment

Any citizen desiring to make a comment can submit their written comments to the Town, which will be included in the meeting minutes for public perusal.

Email your comments to Town Hall at INFO@THOMPSONS-STATION.COM with September Planning Commission Public Comments as the Subject Line.

Contact the Town Community Development office with any questions at (615) 794-4333 ext. 12.

Planner Report

- Update on the Dedication of Public Improvements and Release of Sureties Policy
- Administrative Plat Approval for 1738 & 1726 Old Thompson's Station Road (existing lot line revision)
- Virtual PC Training 11-13-20

New Business:

1. Pleasant Creek Preliminary Plat For The Creation Of 412 Residential Lots, Four Commercial Lots, And Associated Open Space Located Along Lewisburg Pike (Map 154 Parcel 50).

Additional Information to be provided relating to the Preliminary Plat.

Documents:

PLEASANT CREEK PRELIM PLAT PC STAFF REPORT.PDF
PLEASANT CREEK PRE PLAT 20.09.02.PDF
PLEASANT CREEK TIS - 090320 - FINAL.PDF
PLEASANT CREEK OPEN SPACES CONCEPT 9.11 REDUCED.PDF

2. Reschedule November Planning Commission Meeting From 11/24/20 To 11/17/20 Due To Thanksgiving.

Adjourn

This meeting will be held remotely due to the COVID-19 Public Health Emergency and will be live streamed at 7:00 p.m. via our website www.thompsons-station.com

STATEMENT FOR THE RECORD AT START OF MEETING Thompson's Station Planning Commission

Hello and welcome to this the September 22nd, 2020, Planning Commission meeting for the Town of Thompson's Station.

Pursuant to the Guidance from the Office of the Comptroller for the State of Tennessee and in accordance with Governor Lee's Executive Order # 60 (which was previously extended by Executive Order # 16, 34, and 51) due to the treatment and containment of COVID-19.

This Town of Thompson's Station Planning Commission meeting, with notice, is being held virtually and being recorded to protect the public health, safety, and welfare of the Citizens of Thompson's Station in light of the coronavirus and to continue to allow the Town to function and operate.

Further, it is the desire of the Planning Commission to include this determination in the minutes for this meeting.

We understand that we, the Thompson's Station Planning Commission, serves the Town of Thompson's Station, which is why we are currently recording this virtual meeting, broadcasting it live for public viewing, and uploading and preserving it for future viewing.

Minutes of the Meeting

of the Municipal Planning Commission of the Town of Thompson 's Station, Tennessee July 28, 2020

Call to Order:

The meeting of the Municipal Planning Commission of the Town of Thompson's Station was called to order at 7:00 p.m. on 28th day of July 2020 via electronic means under the authority of the Governor's Executive Order related to public meetings during the COVID-19 emergency with the required quorum.

The following statement was read by Planning Chairman Trent Harris:

This meeting is being conducted pursuant to the Guidance from the Comptroller's Office, and in accordance with Governor Lee's Executive Order No. 16 due to the treatment and containment of COVID-19.

This regular monthly meeting for July of 2020 is being held by video conference with the Planning Commission of Thompson's Station and live streamed, as necessary to protect the public's health, safety, and welfare in light of the coronavirus. Further it is requested that the governing body include this determination in the minutes for this meeting.

We understand, we the members of the Planning Commission serve at the pleasure of the citizens of Town of Thompson's Station, and due to the current situation, is why we are currently live streaming this meeting for the benefit of the public, through our website.

A recording of this meeting will be available on the Town of Thompson's Station's web site at *thompsons-station.com* within 24 hours of this meeting.

Members and staff virtually present were: Chairman Trent Harris; Commissioner Luis Parra; Commissioner Sheila Shipman; Commissioner Tara Rumpler; Commissioner Kreis White; Commissioner Bob Whitmer; Interim Town Planner Micah Wood; IT Coordinator Tyler Rainey and Town Attorney Andrew Mills. Alderman Shaun Alexander and Planning Technician Jennifer Jones were unable to attend.

Minutes:

The minutes of the June 23, 2020 regular meeting were presented.

Commissioner Shipman made a motion to approve the June 23, 2020 meeting minutes.

Roll Call Vote:

\mathbf{v}	<u>OTE</u>	VOTE	VOTE
Chairman Harris	Yea	Commissioner Parra Yea	
Commissioner Shipman	Yea	Commissioner Rumpler Yea Comm	missioner White Yea
Commissioner Whitmer	Yea		
Yea 6	Nay	0 Abstain 0	

Public Comment:

None.

Page 2			
Town Planner Report:			
None.			
New Business:			
1. Item 1 (FP 2020-005), 7 new commercial lot.	Γollgate Village Subdiv	vision Final Plat – Sectio	n 20 for the creation of 1
Mr. Wood reviewed his staff report following contingency:	and recommends the F	Planning Commission app	rove the final plat, with the
Along with the submittal of any site building square footage and propose	•		
After discussion, Commiss Village Subdivision Final I recommended			
Roll Call Vote: VOT Chairman Harris Ye Commissioner Shipman Ye Commissioner Whitmer Ye Yea 6	ca Commissioner Commissioner		<u>VOTE</u> mmissioner White Yea
There being no further business, the	e meeting was adjourned	1 at 7:10 p.m.	
	Trent I	Harris, Chairman	
Attest:			
Shaun Alexander, Secretary			

 $\begin{tabular}{ll} Municipal Planning Commission - Minutes of the Meeting \\ July 28, 2020 \end{tabular}$

Thompson's Station Planning Commission Staff Report – Item 1 (PP 2020-004) September 22, 2020

PROJECT DESCRIPTION

Pleasant Creek Investments, LLC, submitted a request for a preliminary plat for a multi-phase project which will 149 single family lots, 263, attached single family lots, 4 commercial lots, and associated open space lots. The tree removal plan, provided as an exhibit to the preliminary plat, includes the removal of trees for a total of 2,308 inches.



ANALYSIS

Site Design and Layout

The development is located within the TC zone, which includes a variety of Transect Zones to achieve the applicant's desired community mix within this subdivision. The site design has evolved slightly since the Concept Plan was present to the Planning Commission in June. This includes refinement of the open space areas to provide additional detail. Additional refinement of the overall development of the subdivision is to be expected as the construction plans and final plats are provided.

Per section 5.3.4(c) of the LDO, the approval of the Preliminary Plat in a TC zone establishes the specific zoning districts from the transect zones. This development will include a mix T1/T2 for open space areas, T3 for residential single family detached, T4 for residential single family attached, and T5 for commercial or mixed-use development, as permitted in a T5 zone. The single family detached homes have a 65' x 130 typical lot, while the attached single family includes a range of 20' - 40' x 130' lots. The proposed typical lots conform to the LDO standards for T3 and T4 zones.

Roadways

The standard for local roadways is 50 feet. Three new roads are proposed and will have at least a 50-foot right-of-way and the required sidewalks. Additional reviews of the roadways will occur as part of the construction plan process.

Open Space/Amenities

Open space is provided in a mix of styles under the Civic Space Types, required by the LDO. Open space of 47% is provided, consistent with LDO requirements. The LDO requires that neighborhoods with greater than 50 lots incorporate one of the following amenities: children's playground, swimming pool with amenities center, passive recreation areas, and trails throughout the open space where feasible. The amenity center and other proposed trails/recreations areas fulfill this requirement. The applicant has provided additional information on the development of the open space areas as exhibits to the plat.

Trees

Development of site, as proposed, will result in the removal of a total of 2,308 inches. The LDO requires the replacement of trees 18 inches and greater at a ratio of one and a half inches for every inch removed. The landscape plans submitted with the construction plans will include detailed landscaping and plating details for each section to account for all replacement requirements.

Traffic Study

A traffic study was submitted and reviewed by the Town's traffic engineer. A revised traffic study was submitted to the Town and has been reviewed by the traffic engineer. All recommended mitigation shall be incorporated into the development agreement and the construction plans for this subdivision.

Utilities

The BOMA approved a MOU for the installation of a bio-clere system for wastewater treatment at the 6-9-20 meeting. This wastewater treatment system will provide the sewer services for this subdivision. The Town will assume responsibility for the wastewater system per the terms of the approved MOU.

RECOMMENDATION

Staff recommends approval with the following contingencies:

- 1. The applicant shall set a pre-application meeting with Town Staff prior to the submittal of the constructions plans for this development.
- 2. Prior to the approval of construction plans, the developer shall enter into a development agreement for the project.
- 3. Prior to the approval of construction plans, the developer shall obtain any necessary permits through the Tennessee Department of Environment and Conservation.
- 4. Prior to the approval of construction plans, all applicable codes and regulations shall be addressed to the satisfaction of the Town Engineer.
- 5. Prior to the submittal of the first final plat for this subdivision, a copy of the CCRs shall be submitted for Town review.

- 6. Any signage proposed for the subdivision shall comply requirements set forth within the Land Development Ordinance and shall be located within the open space and maintained by the homeowner's association.
- 7. Streetlights shall be incorporated in accordance with the Land Development Ordinance and shall be documented on the construction drawings.
- 8. All recommendations within the traffic study shall be completed.
- 9. Any change of use or expansion of the project site shall conform to the requirements set forth within the Land Development Ordinance and shall be approved prior to the implementation of any changes to the project.

ATTACHMENTS

Preliminary Plat Traffic Study Open Space Exhibits Owner/Developer:

Pleasant Creek Investments, LLC
John Y. Franks Managing Member
Suite 230, 144 Southeast Parkway
Franklin, TN 37067
615-567-4420
johnfranks@live.com

Landscape Architect:

Paul A. Lebovitz, Landscape Architect 102 Winslow Road Franklin, Tennessee 37064 615-415-6855 pleb@bellsouth.net

Project Engineer:

SITE ENGINEERING CONSULTANTS, INC. RICHARD HOUZE, P.E.

850 MIDDLE TENNESSEE BLVD.
MURFREESBORO, Tennessee 37129
615-890-790
RHOUZE@SED-CIVIL.COM

Surveyor:

Tom King, RLS
Hyde Park Homes, LLC
Suite 230, 144 Southeast Parkway
Franklin, Tennessee 37067
615-238-4958
tomgking3@gmail.com

GeoTechnical Engineer:

American Geotechnical,
Bob Stickney

2712 Reams Place Franklin, TN 37064 615-791-9768 bobstickney@comcast.net

Hydrology:

Grow Environmental Solutions Tony Grow

1406 Wilson Avenue Tullahoma, Tennessee 37388 931-273-4681 tony@growenv.com

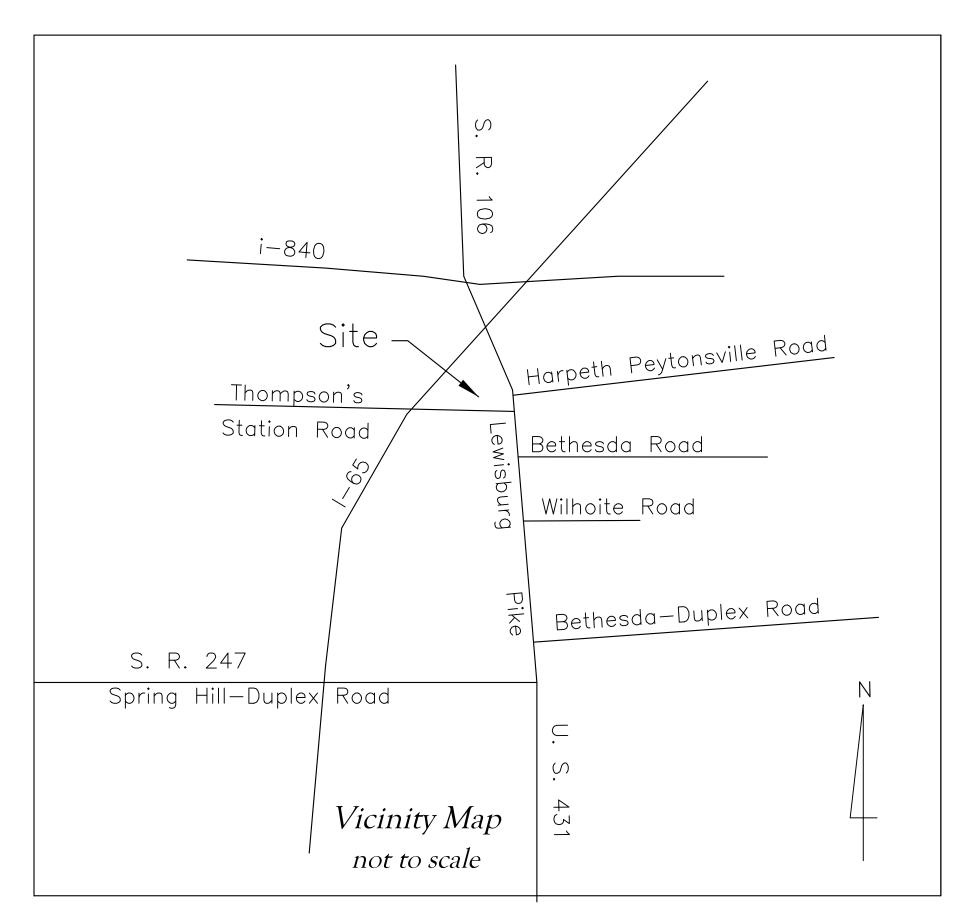
PLEASANT CREEK (TRANSECT VILLAGE) PRELIMINARY PLAT

TOWN

of

THOMPSON'S STATION, TENNESSEE

1952 LEWISBURG, PIKE MAP 154 PARCEL 50



Mayor:

Corey Napier

Aldermen:

Shaun Alexander Brandon Bell Ben Dilks Brian Stover

Thompsons Station
Planning Administrator:

Micah Wood

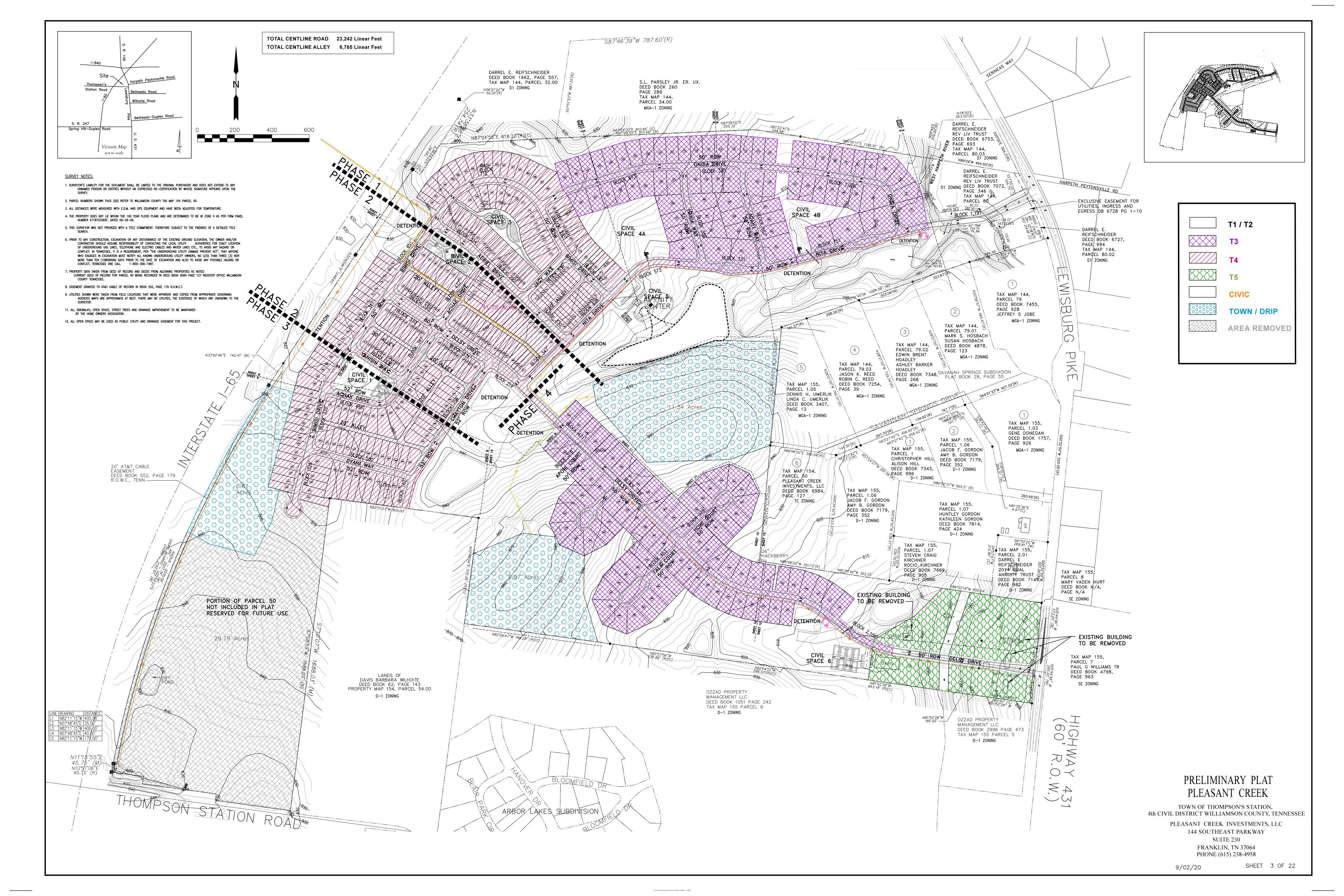
615-794-4333 Ext. 12 mwood@thompsons-station.com

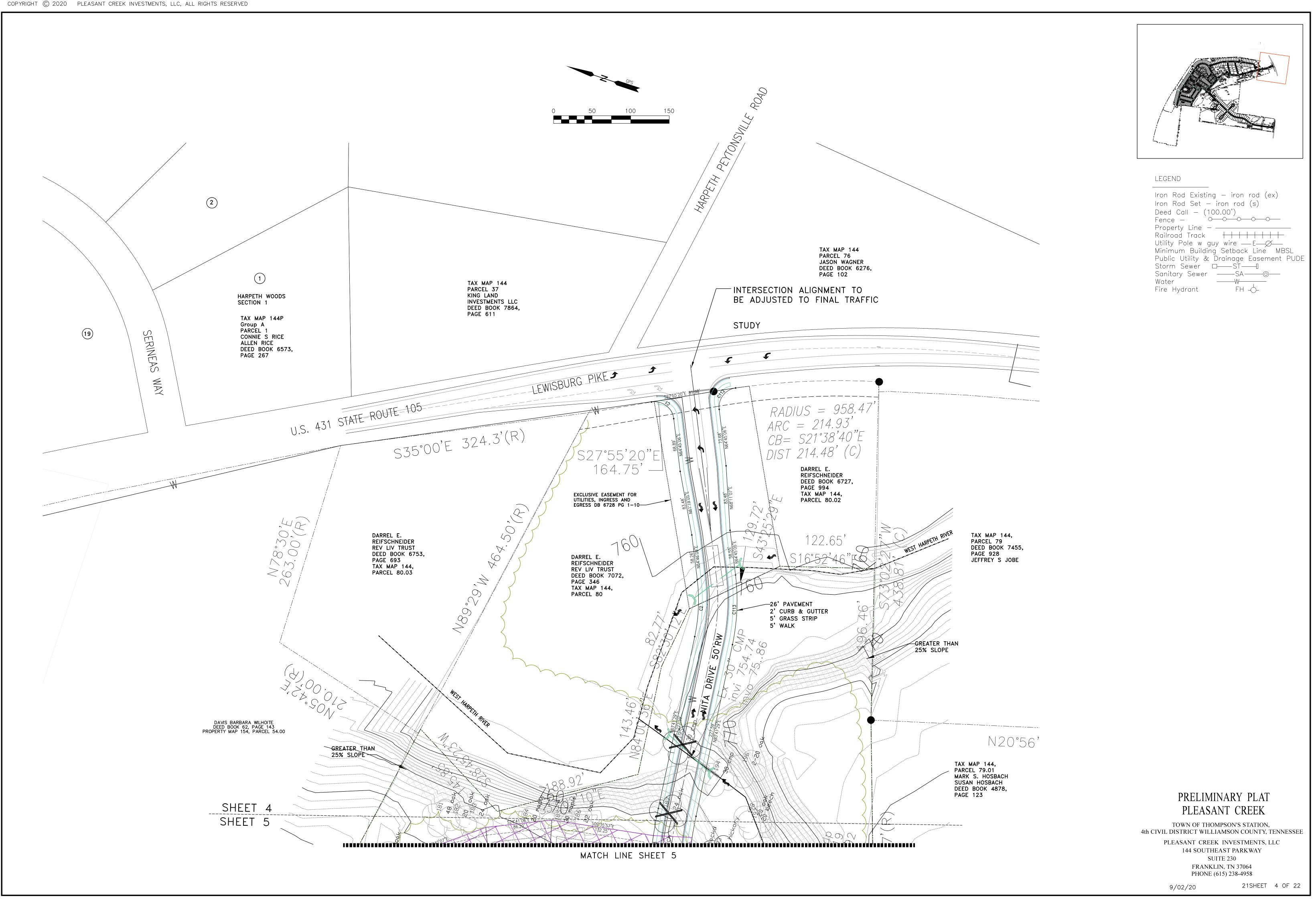
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- 16 Civic Space 2 Formal Square
- 17 Civic Space Ramble+Playground
- 18 Civic Space 4 Undeveloped Wooded Area
- 19 Civic Space 5 Recreational Pool Park
- 20 Civic Space 6 Athletic Complex
- 21 Street Buffer Yard
- 22 Tree Removal Plan

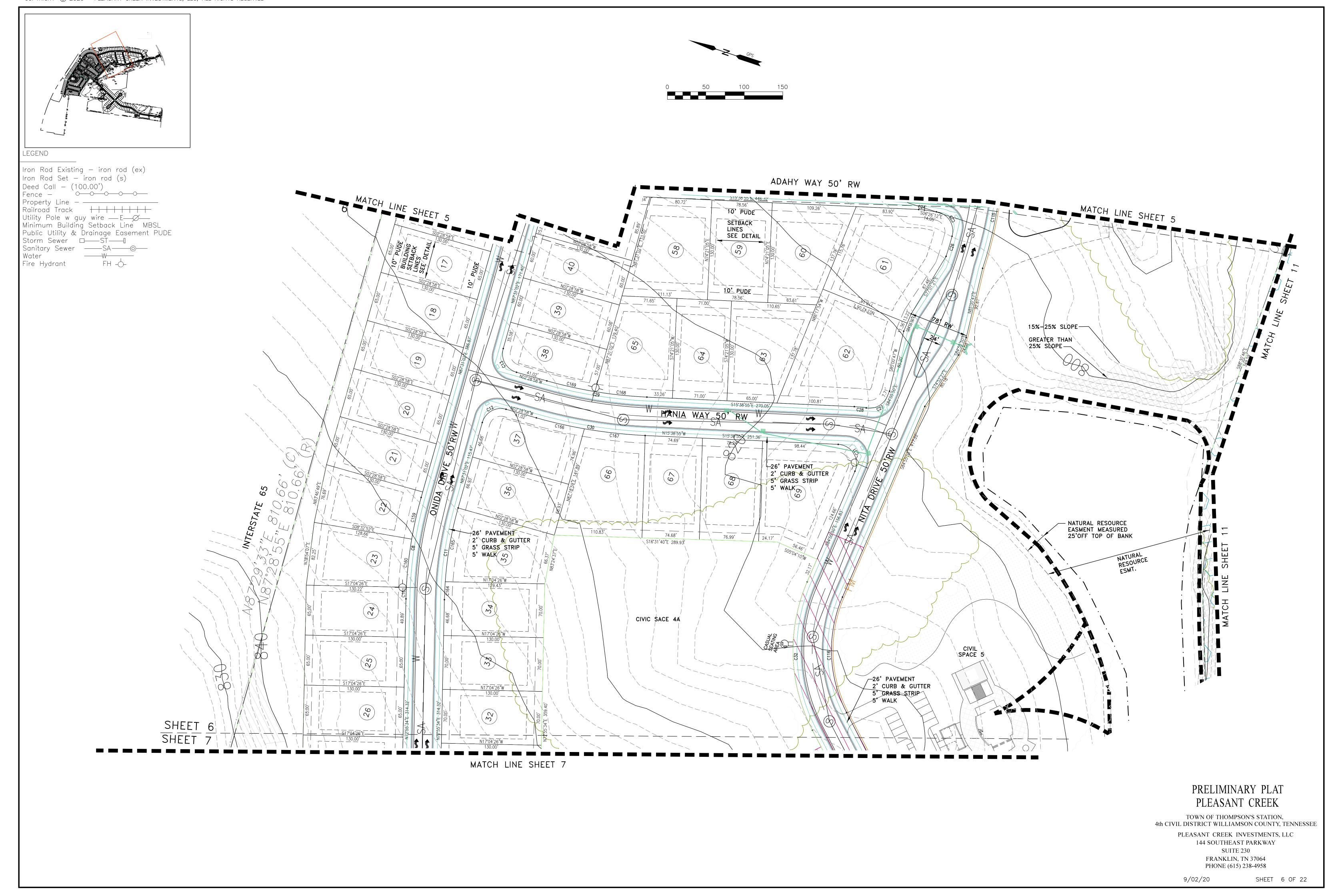
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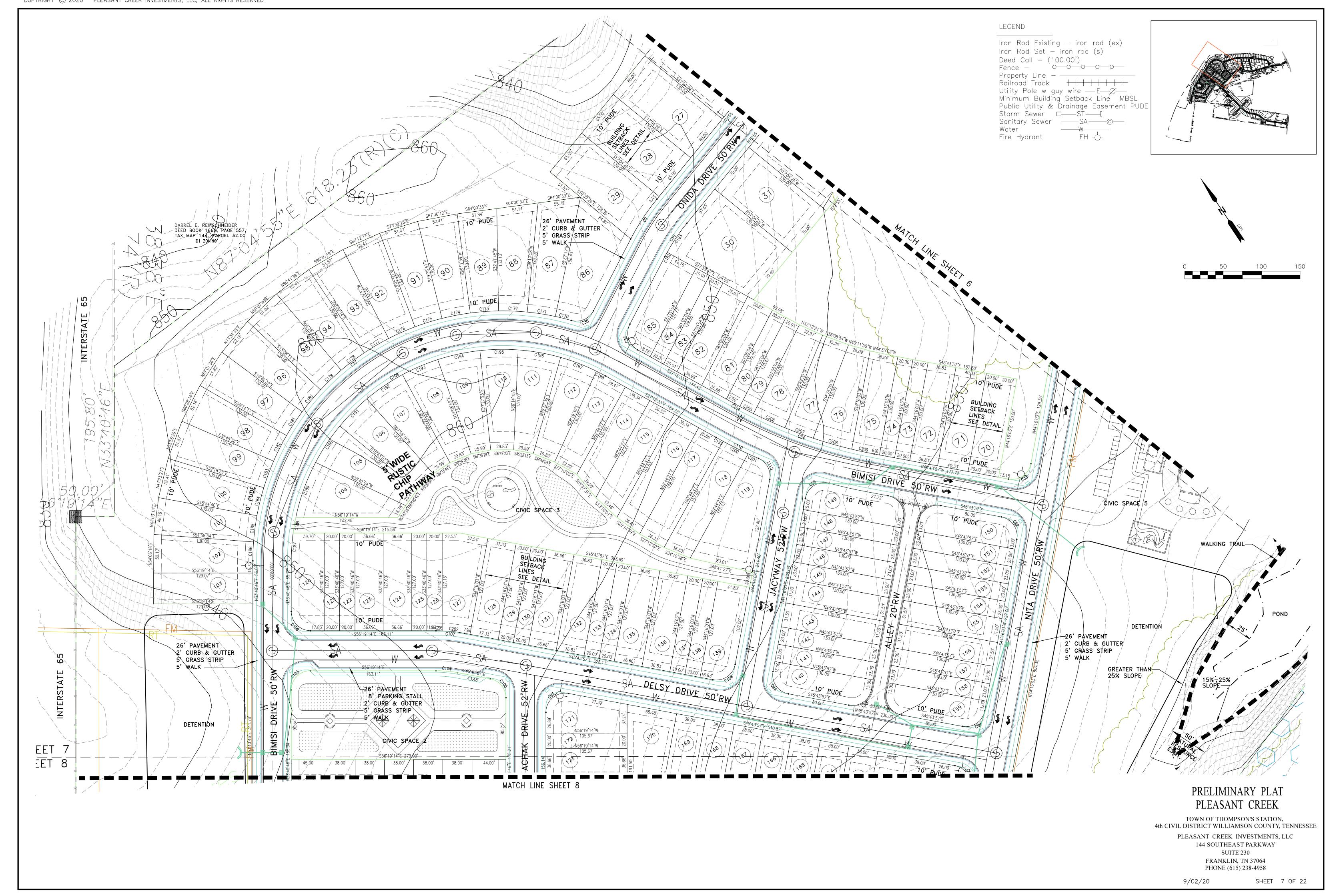


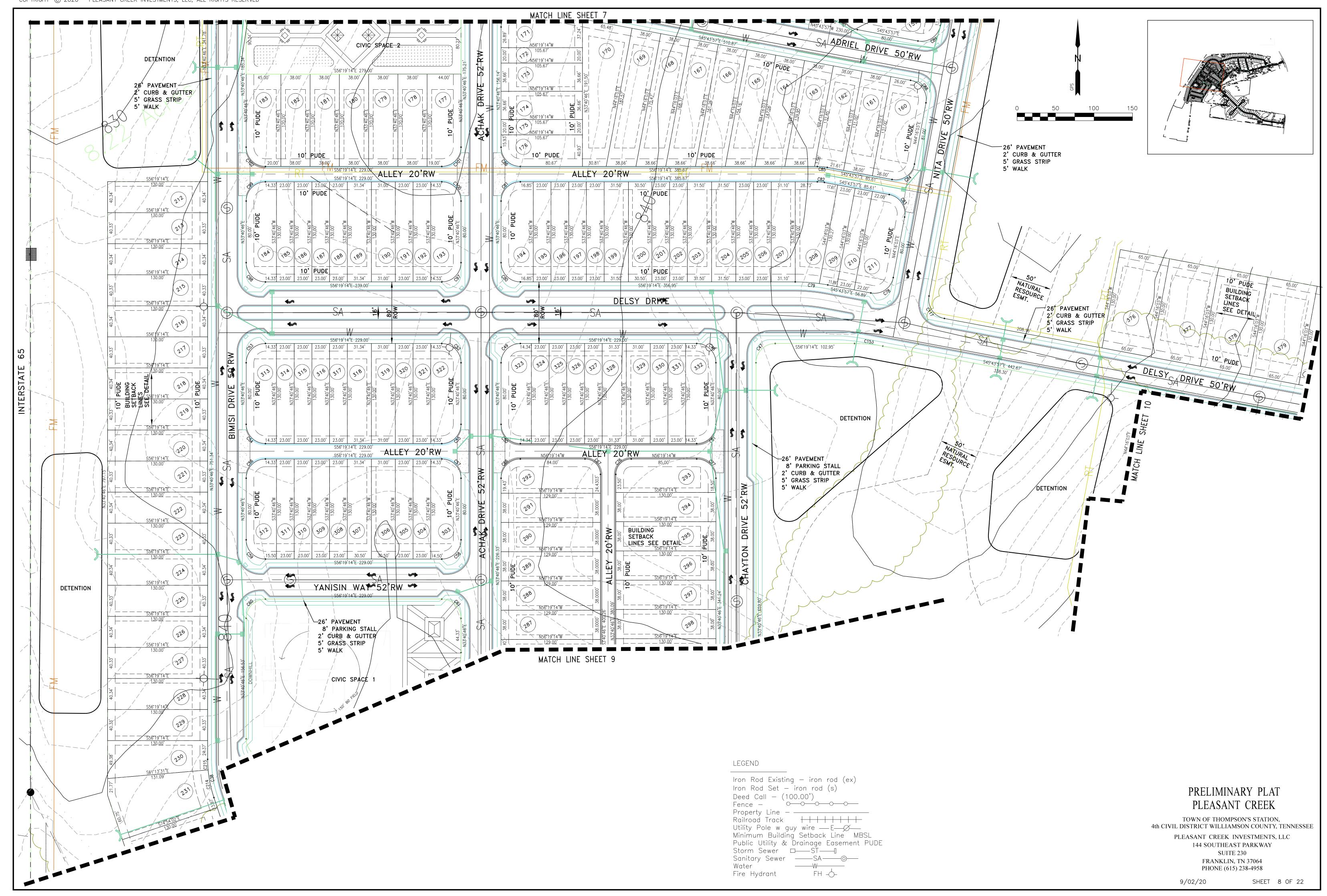


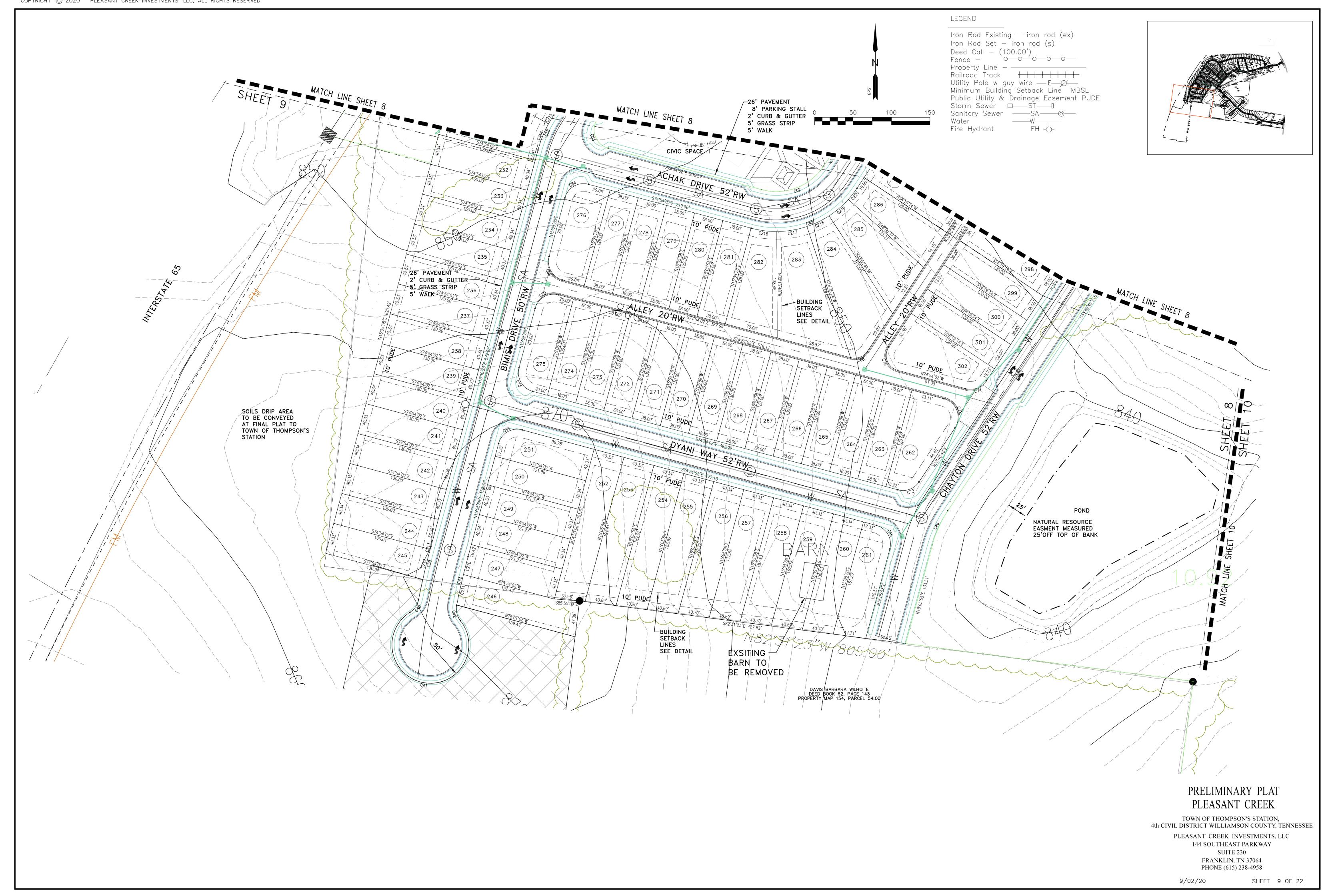


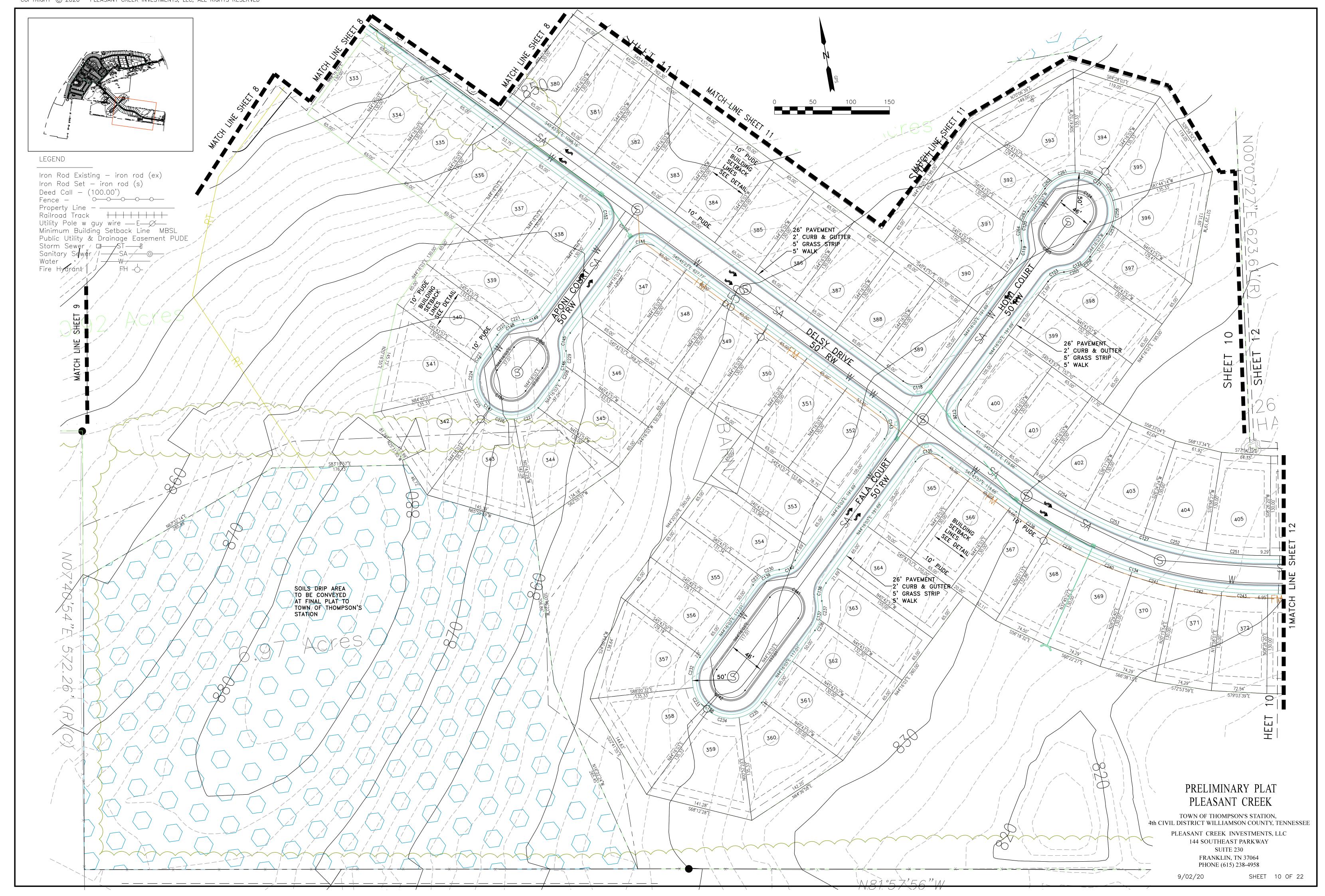


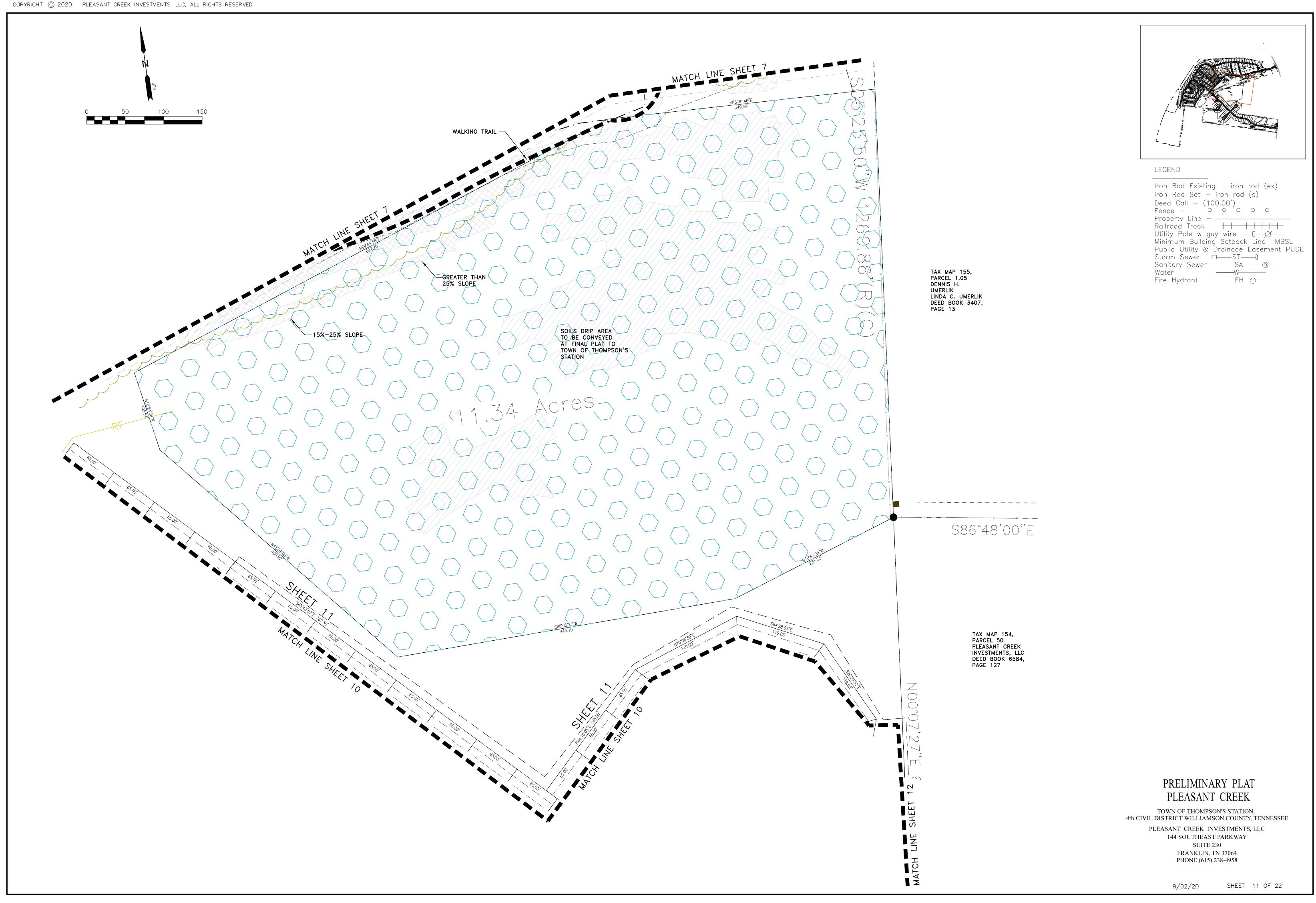


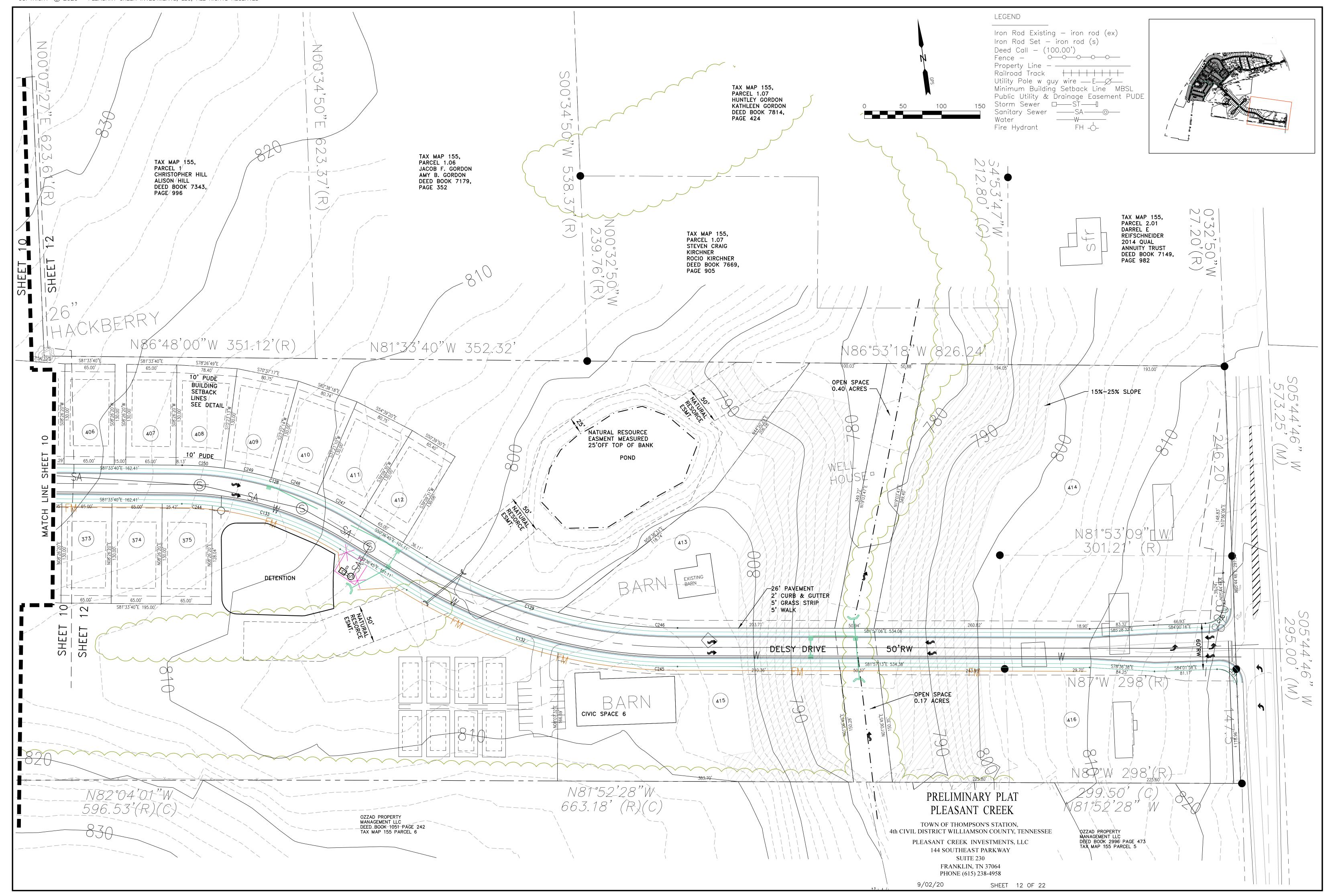












LOT AREA TABLE

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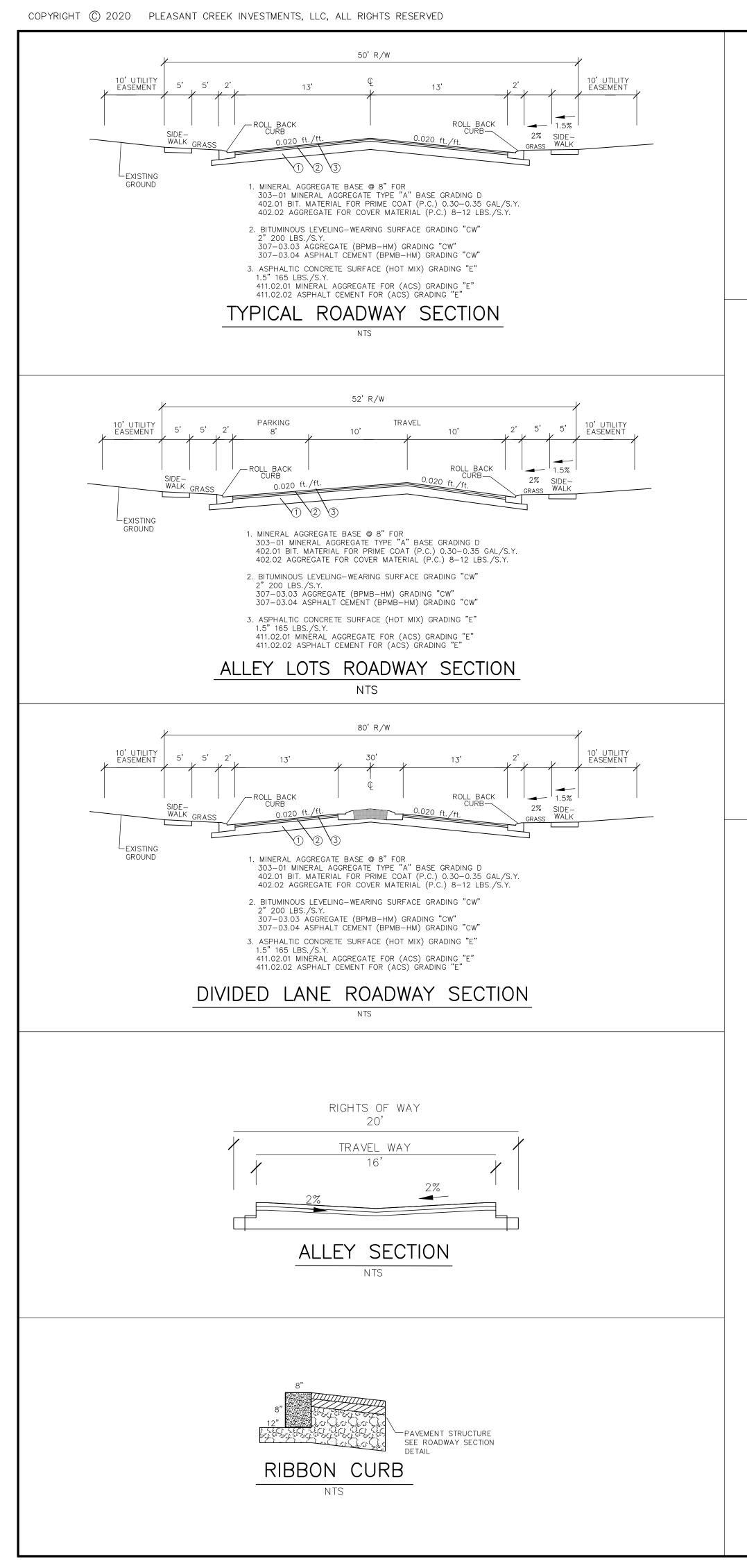
CURVE C1	25.00'	DELTA ANGLE 92°40'26"	ARC 40.44'	36.17'	CHORD BEARIN
C2	225.00'	18*56'23"	74.38'	74.04'	S74*13'17"W
C3	625.00'	8*36'00"		93.72'	S79*23'29"W
C4 C5	25.00' 125.00'	90°00'00" 65°25'13" 4°26'48"	39.27' 142.73' 40.75'	35.36' 135.10' 40.74'	N59*54'31"W N47*37'08"W N82*33'09"W
C6 C7 C8	525.00' 125.00' 525.00'	7°42'25" 14°35'28"	16.81' 133.70'	16.80' 133.34'	N88*37'45"W S80*13'18"W
C9	300.00'	11°50'30"	62.00'	61.89'	S67*00'19"W
C10	250.00'	11°50'30"	51.67'		N67*00'19"E
C11	475.00'	14°35'28"	120.97'	120.64'	N80°13'18"E
C12	25.00'	90°00'00"	39.27'	35.36'	S47°28'58"E
C13	25.00'	90°00'00"	39.27	35.36'	N42°31'02"E
C14	75.00'	7°42'25"	10.09	10.08'	S88°37'45"E
C15	25.00'	90.00,00,	39.27'	35.36'	S39*46'33"E
C16	25.00'		39.27'	35.36'	N50*13'27"E
C17	475.00'	4°26'48"	36.86'	36.86'	S82°33'09"E
C18	75.00'	65°25'13"	85.64'	81.06'	S47°37'08"E
C19	25.00'	90.00.00"	39.27'	35.36'	S30°05'29"W
C20	25.01'		40.87'	36.47'	N56°42'55"W
C21	125.00'	5°45'09"	12.55'	12.54'	N12'46'20"W
C22	75.00'	20°52'22"	27.32'	27.17'	N05'12'44"W
C23	125.00'	20°52'22"	45.54'	45.29'	S05°12'44"E
C24	75.00'	5°45'09"	7.53'	7.53'	S12°46'20"E
C25	25.02'	98°09'45"	42.86'	37.81'	S39*12'11"W
C26	475.00'	3°16'34"	27.16'	27.16'	S88*13'06"W
C27	25.00'	76°26'13"	33.35'	30.93'	N46'42'43"W
C28	125.00'	7°09'18"	15.61'	15.60'	N12'04'16"W
C29	575.00'	13'09'57"	132.13'	131.84'	N09'03'56"W
C30	625.00'	13'09'57"	143.62'	143.30'	S09'03'56"E
C31	25.00°	110°43'05"	48.31'	41.14'	S39°42'38"W
C32	225.00°	50°48'07"	199.50'	193.03'	S69°40'06"W
C33	25.00°	90°00'00"	39.27'	35.36'	S89°16'03"W
C34	600.00°		193.45'	192.61'	N36°29'45"W
C35	25.00'	88°20'38"	38.55'	34.84'	N16'54'45"E
C36	25.00'	78°27'47"	34.24'	31.62'	N79'41'02"W
C37	325.00'	105°52'05"	600.52'	518.66'	N86°36'48"E
C38	156.00'	18°34'48"	50.59'	50.37'	S24°23'22"W
C39	635.55	3'57'29"	43.90'	43.89'	N13'52'21"E
C40 C41	25.00' 50.00'	46°38'44" 276°20'21"	20.35' 241.15' 21.75'	19.80' 66.69'	S80°22'57"E
C42	25.00'	49°51'15"	64.62'	21.07'	N13'37'30"W
C43	975.00'	3°47'51"		64.61'	N13'12'02"E
C44	25.00'	90°00'00"	39.27'	35.36'	N60°05'58"E
C45	25.00'	90°00'00"	39.27'	35.36'	S29°54'02"E
C46	150.00'	18*34'48"	48.64'	48.43'	N24*23'22"E
C47	25.00'	90*00'00"	39.27'	35.36'	N78*40'46"E
C48	25.00'	90.00'00"	39.27'	35.36'	N11*19'14"W
C49	25.00'		39.27'	35.36'	S78*40'46"W
C50	25.00'	90.00,00,00,00,00,00,00,00,00,00,00,00,00	39.27'	35.36'	S11°19'14"E
C51	25.00'		39.27'	35.36'	N78°40'46"E
C52	25.00'	90.00,00,00,00,00,00,00,00,00,00,00,00,00	39.27'	35.36'	N11*19'14"W
C53	25.00'		39.27'	35.36'	S78*40'46"W
C54 C55 C56	25.00' 25.00' 25.00'	90°00'00" 90°00'00" 90°00'00"	39.27' 39.27'	35.36' 35.36'	S11*19'14"E N78*40'46"E N78*40'46"E
C57	25.00'	90'00'00"	39.27' 39.27'	35.36' 35.36'	S11°19'14"E
C58	25.00'	90.00,00,00,00,00,00,00,00,00,00,00,00,00	39.27'	35.36'	S78°40'46"W
C59	25.00'		39.27'	35.36'	N11°19'14"W
C60	25.00'	90.00,00,	39.27'	35.36'	N78'40'46"E
C61	25.00'		39.27'	35.36'	S11'19'14"E
C62	74.00'	71*25'12"	92.24'	86.39'	S69*23'22"W
C63	25.00'		47.38'	40.60'	N20*36'38"W
C64 C65	25.00' 126.00'	90°00'00" 71°25'12" 90°00'00"	39.27' 157.06'	35.36' 147.09'	S60°05'58"W N69°23'22"E
C66 C67	25.00'	90'00'00"	39.27' 31.42' 24.93'	35.36' 28.28'	N78*40'46"E S11*19'14"E
C68 C69	20.00'	71*25'12"	39.27	23.35' 35.36'	S69*23'22"W N29*54'02"W
C70	25.00'	90.00'00"	39.27'	35.36'	N60°05'58"E
C71	25.00'		47.38'	40.60'	S20°36'38"E
C72	25.00'	71*25'12"	31.16'	29.18'	S69*23'22"W
C73	25.00'	90*00'00"	39.27'	35.36'	N29*54'02"W
C74 C75	25.00'	71*25'12"	31.16' 37.90'	29.18' 32.48'	S69°23'22"W N20°36'38"W
C76 C77	25.00'	90.00,00,00,00,00,00,00,00,00,00,00,00,00	31.42' 39.27'	28.28' 35.36'	N78'40'46"E S11'19'14"E
C78 C79	25.00'	90°00'00" 10°35'17" 90°00'00"	39.27' 42.50'	35.36' 42.44'	S89*16'03"W N51*01'36"W N11*19'14"W
C80 C81	25.00' 25.00'	90.00,00,	39.27' 39.27'	35.36' 35.36'	N78°40'46"E
C82 C83	50.00' 25.00' 25.00'	10°35'17" 90°00'00" 90°00'00"	9.24' 39.27'	9.23' 35.36'	S51*01'36"E S00*43'57"E S89*16'03"W
C84 C85	70.00'	10°35'17" 90°00'00"	39.27' 12.94' 39.27'	35.36' 12.92'	N51°01'36"W
C86 C87	25.00'	100°35'17"	43.89'	35.36' 38.47'	N11'19'14"W N83'58'24"E
C88	25.00'	90.00,00,00,00,00,00,00,00,00,00,00,00,00	39.27'	35.36'	S00°43'57"E
C89	25.00'		39.27'	35.36'	S89°16'03"W
C90 C91	25.00' 25.00' 25.00'	90°00'00" 90°00'00" 90°00'00"	39.27' 39.27'	35.36' 35.36'	N00°43'57"W N89°16'03"E S00°43'57"E
C92 C93	25.00'	90.00,00,	39.27' 39.27'	35.36' 35.36'	S89°16'03"W
C94	25.00'	90.00'00"	39.27'	35.36'	N00°43'57"W
C95	25.01'		41.20'	36.70'	S88°30'42"E
C96	24.67'	91°32'10"	39.42'	35.36'	S00°43'57"E
C97	25.00'		39.27'	35.36'	S78°40'46"W
C98 C99	25.00' 25.00'	90°00'00" 90°00'00" 90°00'00"	39.27' 39.27'	35.36' 35.36' 35.36'	N11*19'14"W N78*40'46"E S11*19'14"E
C100 C101	25.00' 25.00'	90.00,00	39.27' 39.27'	35.36'	S78°40'46"W
C102	25.00'	90°00'00"	39.27'	35.36'	N11'19'14"W
C103	25.00'	90°00'00"	39.27'	35.36'	N78'40'46"E
C104	151.00'	10°35'17"	27.90'	27.86'	S51°01'36"E
C105	25.00'	79°24'43"	34.65'	31.94'	S06°01'36"E
C106	25.00'	90.00'00"	39.27'	35.36'	S89°16'03"W
C107	203.00'		37.51'	37.46'	N51°01'36"W
C108	25.00'	90°00'00"	39.27'	35.36'	N11'19'14"W
C109	275.00'	119°03'41"	571.45'	474.05'	S86'47'24"E
C110	492.12'	7°10'53"	61.68'	61.64'	S29*58'37"E
C111	25.00'	76°57'44"	33.58'	31.11'	S05*47'11"W
C112	25.00'	88*54'08"	38.79'	35.01'	N70°47'50"W
C113	275.00'	18*56'23"	90.90'	90.49'	S74°13'17"W
C114	575.00'	8°36'00"	86.31'	86.23'	S79°23'29"W
C115	525.00'	14°45'54"	135.29'	134.92'	S82°28'26"W
C116 C117	175.00' 25.00'	50°48'07" 90°00'00" 90°00'00"	155.17' 39.27'	150.13' 35.36'	S69*40'06"W S00*43'57"E N89*16'03"E
C118 C119	25.00' 30.50' 50.00'	46*24'51"	39.27' 24.71'	35.36' 24.04' 39.41'	N21°03'37"E N21°03'37"E
C120 C121	50.00'	46°24'51" 180°00'00" 46°24'51"	40.50' 157.08' 40.50'	100.00	S45°43'57"E
C122	50.00'	46°24'51"	40.50'	39.41'	S67*28'28"W
C123	30.50'	46°24'51"	24.71'	24.04'	S67*28'28"W
C124	23.00'	180°00'00"	72.26'	46.00'	S45°43'57"E
C125		180°00'00"	72.26'	46.00'	N45°43'57"W
C126	25.00'	90°00'00"	39.27'	35.36'	S00°43'57"E
C127	500.00'	35°49'42"	312.66'	307.59'	S63°38'48"E
C128	450.00'	30°56'55"	243.07'	240.13'	S66*05'12"E
C129	625.00'	27°05'55"	295.60'	292.85'	S64*09'42"E
C130	25.00'	90°14'59"	39.38'	35.43'	N50°52'15"E
C131	25.00'	89°46'44"	39.17'	35.29'	N39°08'36"W
C132	675.00'	27*24'27"	322.89'	319.82'	N64*18'58"W
C133	400.00'	30*56'55"	216.06'	213.44'	N66*05'12"W
C134	550.00'	35°49'42"	343.93'	338.35'	N63*38'48"W
C135	25.00'	90°00'00"	39.27'	35.36'	S89*16'03"W
C136	30.50'	46°24'51"	24.71'	24.04'	S21°03'37"W
C137	50.00'	46°24'51"	40.50'	39.41'	S21°03'37"W
C138 C139	50.00'	180°00'00" 46°24'51"	157.08' 40.50'	39.41	N67°28'28"E
C140	30.50'	46°24'51"	24.71'	24.04'	N67*28'28"E
C141	23.00'	180°00'00"	72.26'	46.00'	S45*43'57"E
C142	25.00'	180°00'00"	72.26'	46.00'	N45'43'57"W
C143		90°00'00"	39.27'	35.36'	N00'43'57"W
C144 C145	25.00' 30.50'	90.00,00,00,00,00,00,00,00,00,00,00,00,00	39.27'	35.36' 24.04'	S89°16'03"W S21°03'37"W
C146	50.00'	46°24'51"	40.50'	39.41'	S21°03'37"W
C147	50.00'	170°48'09"	149.05'	99.68'	N41°08'02"W
C148	50.00'	46*24'51"	40.50'	39.41	N67°28'28"E

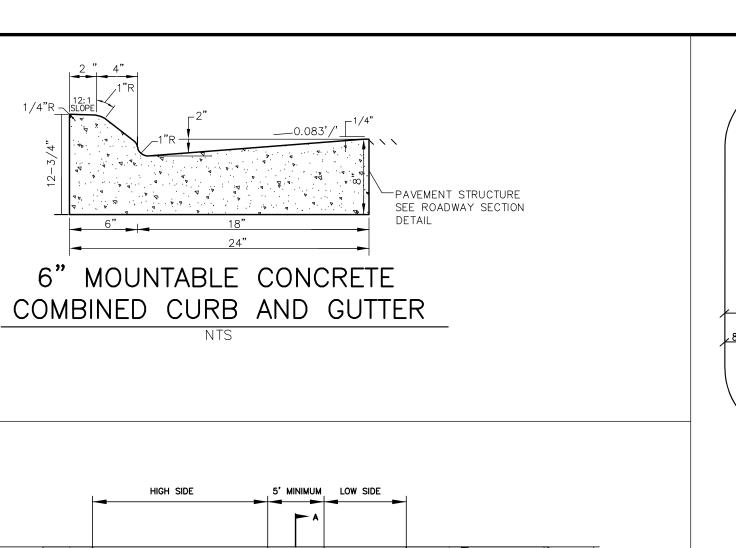
C151	RADIUS	DELTA ANGLE	ARC	CHORD	CHORD BEARING
	23.00	180°00'00"	72.26	46.00'	N45'43'57"W
C152	25.00'	90°00'00"	39.27'	35.36'	N00°43'57"W
C153	200.00'	10°35'17"	36.96'	36.91'	N51°01'36"W
C154	125.00'	8*51'47"	19.34'	19.32'	N19'20'25"W
C155	125.00'	29*47'38"	65.00'	64.27'	N38'40'07"W
C156	125.00'	26°45'49"	58.39'	57.86'	N66*56'50"W
C157	125.00'	2°02'28"	4.45'	4.45'	N85*47'47"W
C158	125.00'	5*39'58"	12.36'	12.36'	N89°38'59"W
C159	525.00'	6*03'54"	55.57'	55.55'	S84°29'05"W
C160	525.00'	6°52'39"	63.02'	62.98'	S78°00'49"W
C161	525.00'	1°38'56"	15.11'	15.11'	S73°45'02"W
C162	250.00'	1°26'25"	6.28'	6.28'	S61°48'16"W
C163	250.00'	10°24'05"	45.38'	45.32'	N67°43'31"E
C164	475.00' 475.00'	2*48'52"	23.33' 97.63'	23.33' 97.46'	N74°20'00"E N81°37'44"E
C165 C166	625.00	11°46'36" 5°52'31"	64.09'	64.06'	S05°25'13"E
C167	668.07'	6°49'12"	79.52'	79.47'	S12°00'12"E
C168	575.00'	6°46'39"	68.02'	67.98'	N12°15'35"W
C169	575.00'	6°23'17"	64.11 ²	64.08'	N05°40'37"W
C170	325.00'	3°45'02"		21.27'	N42°19'40"W
C171	325.00'	6°29'51"	36.86'	36.84'	N47°27'06"W
C172	325.00'	6°36'13"	37.46'	37.44'	N54°00'08"W
C173	325.00'	6°29'51"	36.86'	36.84 [°] 37.44 [°]	N60°33'10"W
C174	325.00'	6°36'13"	37.46'		N67°06'12"W
C175	325.00'	6°29'51"	36.86'	36.84°	N73'39'15"W
C176	325.00'	6°36'13"	37.46'	37.44°	N80'12'17"W
C177	325.00'	6°29'51"	36.86'	36.84'	N86°45'19"W
C178	325.00'	6°36'13"	37.46'	37.44'	S86°41'39"W
C179	325.00'	6°31'45"	37.04	37.02	S80°07'40"W
C180	325.00'	6°34'19"	37.28'	37.26'	S73°34'38"W
C181	325.00'	6°31'45"	37.04'	37.02'	S67°01'36"W
C182	325.00'	6°34'19"	37.28'	37.26'	S60°28'34"W
C183	325.00'	6°29'51"	36.86'	36.84'	S53°56'29"W
C184	325.00'	6°36'13"	37.46'	37.44'	S47°23'27"W
C185	325.00'	6°04'15"	34.44'	34.42'	S41°03'13"W
C186	325.00'	4*20'20"	24.61'	24.61'	S35°50'56"W
C187	275.00'	7*34'15"	36.34'	36.31'	N37°27'53"E
C188	275.00'	4°13'41"	20.29'	20.29'	N43°21'51"E
C189	275.00'	15°56'18"	76.50'	76.25'	N53°26'51"E
C190	275.00'	11°51'53"	56.95	56.84	N67°20'57"E
C191	275.00'	10°22'35"	49.80'	49.73'	N78°28'11"E
C192	275.00'	11°42'40"	56.21'	56.11'	N89°30'48"E
C193	275.00'	10°22'35"	49.80'	49.73'	S79°26'34"E
C194	275.00'	11°42'40"	56.21'	56.11'	S68°23'57"E
C195	275.00'	10°22'35"	49.80'	49.73'	S57°21'19"E
C196	275.00'	11°42'40"	56.21'	56.11'	S46°18'42"E
C197	275.00'	10°22'35"	49.80'	49.73'	S35'16'04"E
C198	275.00'	2°49'13"	13.54'	13.54'	S28'40'10"E
C199	492.12'	1°13′10″	10.47'	10.47'	S26°59'46"E
C200	492.12'	4°14′08″	36.38'	36.37'	S29°43'25"E
C201	492.12' 203.00'	1°43'35" 8°19'01"	14.83'	14.83' 29.44'	S32°42'16"E
C202 C203	203.00'	2*16'16"	29.47' 8.05'	8.05'	N49°53'28"W N55°11'06"W
C204	599.99'	0°43'00"	7.51'	7.51'	S27*37'04"E
C205	600.00'	1°54'36"	20.00'	20.00'	S28*55'52"E
C206	600.00'	4°17'18"	44.91'	44.90'	S32°01'49"E
C207	600.00'	3°44'25"	39.17'	39.16'	S36°02'40"E
C208	600.00'	4*58'29"	52.10'	52.08'	S40°24'08"E
C209	600.00'	2*50'35"	29.77'	29.77'	S44°18'40"E
C210	975.00'	1°24'18"	23.91'	23.91'	S14'23'49"W
	975.00'	2°23'33"	40.71'	40.71'	N12'29'53"E
C211 C212 C213	596.28' 1025.00'	3°52'37" 0°11'55"	40.35' 3.56'	40.34' 3.56'	N13°46'23"E S15°00'00"W
C214	156.00'	13°30'17"	36.77'	36.68'	N21°51'06"E
C215	156.00'	5°04'31"	13.82'	13.81'	N31°08'30"E
C216 C217	126.00'	15°21'46" 18°09'36"	33.78'	33.68'	S82°34'55"E N80°39'24"E
C218	126.00'	14'35'22"	39.94' 32.08'	39.77' 32.00'	N64°16'55"E
C219	126.00'	14°59'51"	32.98'	32.89'	N49°29'19"E
C220	126.00'	8°18'37"	18.28'	18.26'	N37°50'05"E
C221	50.00'	22*50'09"	19.93'	19.80'	S79°15'49"W
C222	50.00'	23*34'41"	20.58'	20.43'	S56°03'23"W
C223	50.00'	9°11'51"	8.03'	8.02'	S39°40'07"W
C224	50.00'	40°24'04"	35.26'	34.53'	S14°52'09"W
C225	50.00'	40°24'04"	35.26'	34.53'	S25'31'55"E
C226	50.00'	40°24'04"	35.26'	34.53'	S65'55'59"E
C227	50.00'	40°24'04"	35.26'	34.53'	N73°39'56"E
C228	50.00'	23°34'41"	20.58'	20.43'	N32°28'42"E
C229	50.00'	22'50'09"	19.93'	19.80'	N09'16'17"E
C230	50.00'	28'57'23"	25.27'	25.00'	S76'12'12"W
C231	50.00'	17 ° 27 ' 27 "	15.23'	15.18'	S52°59'46"W
C232	50.20'	50°02'57"	43.85 ²	42.47'	S21°23'51"W
C233	50.00'	42°03'31"		35.88'	S24°42'12"E
C234	50.00'	48°43'34"	42.52'	41.25'	S70°05'44"E
C235	50.37'	43°15'12"	38.03'	37.13'	N63°48'44"E
C236	50.00'	17°27'27"	15.23 '	15.18'	N35'32'19"E
C237	50.00'	28°57'23"	25.27 '	25.00'	N12'19'54"E
238	550.00' 550.00'	5°14'50" 6°15'46"	50.37	50.35' 60.09'	S48°21'22"E S54°06'40"E
C239 C240 C241	550.00' 550.00'	6°15'46" 6°15'46"	60.12' 60.12' 60.12'	60.09'	S60°22'27"E S66°38'13"E
C242	550.00'	6°15'46"	60.12	60.09	S72°53'59"E
C243	550.00°	5°31'47"	53.08'	53.06'	S78°47'46"E
C244	400.00°	5°40'19"	39.60'	39.58'	S78°43'30"E
C245	675.00'	3°56'01"	46.34 ²	46.33 [']	S79°59'13"E
C246	625.00'	4°14'33"	46.28 ²	46.27 [']	N79°49'57"W
C247	450.00'	8*02'06"	63.11'	63.05'	N54*37'48"W
C248	450.00'	7*58'56"	62.69'	62.64'	N62*38'18"W
C249	450.00'	7.59'01"	62.70'	62.65'	N70°37'17"W
C250	450.00'		54.57'	54.53'	N78°05'13"W
C251 C252	500.00' 500.00'	6*56'52" 8*32'06" 9*35'57"	74.48' 83.77'	74.41' 83.67'	N77°17'36"W N68°13'34"W
0252 0253 0254	500.00	9'37'04" 8'04'34"	83.93'	83.83'	N58*37'04"W N49*46'14"W
2255	50.00'	28 * 57 ' 23 "	70.48' 25.27'	70.42' 25.00'	N76°12'12"E
C256	50.00'	17*27'27"	15.23'	15.18'	N52*59'46"E
C257	50.00'	15*03'38"	13.14'	13.10'	N36*44'14"E
C258	50.00'	37°28'11"	32.70'	32.12'	N10°28'19"E
C259	50.00'	37°28'11"	32.70'	32.12'	N26°59'52"W
C260	50.00'	37°28'11"	32.70'	32.12'	N64*28'03"W
C261	50.00'	37°28'11"	32.70'	32.12'	S78*03'46"W
C262	50.00'	15°03'38"	13.14'	13.10'	S51°47'52"W
C263	50.00'	17°27'27"	15.23'	15.18'	S35°32'19"W
C264	50.00	28°57'23"	25.27	25.00	S12*19'54"W

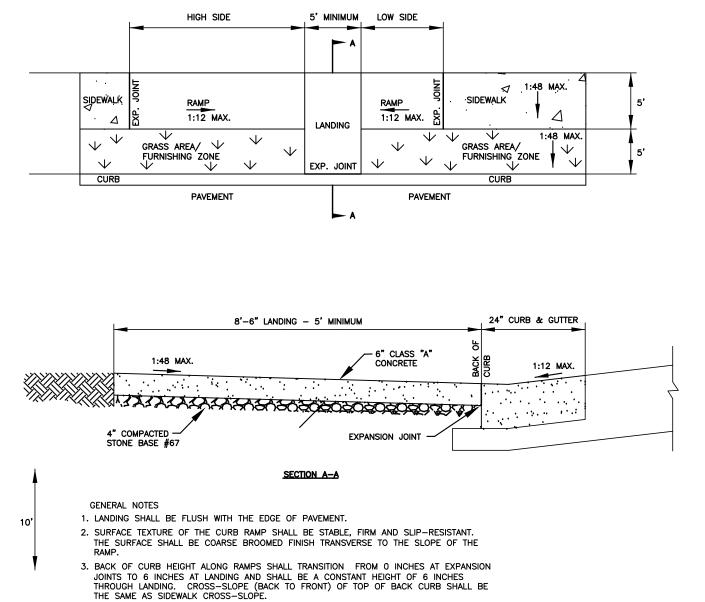
PRELIMINARY PLAT PLEASANT CREEK

TOWN OF THOMPSON'S STATION,
4th CIVIL DISTRICT WILLIAMSON COUNTY, TENNESSEE
PLEASANT CREEK INVESTMENTS, LLC
144 SOUTHEAST PARKWAY
SUITE 230
FRANKLIN, TN 37064

PHONE (615) 238-4958

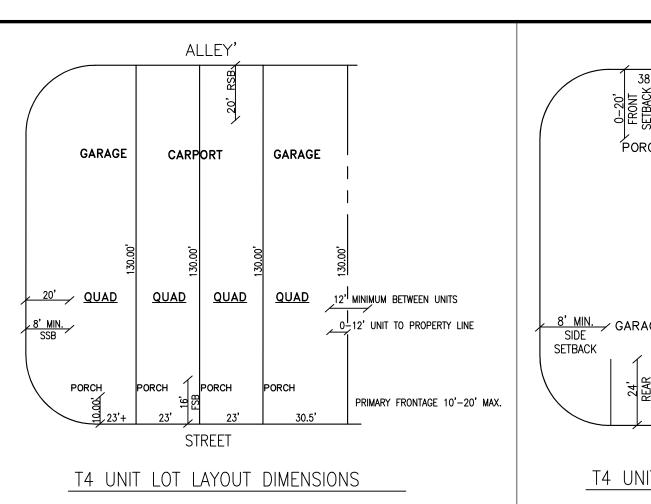






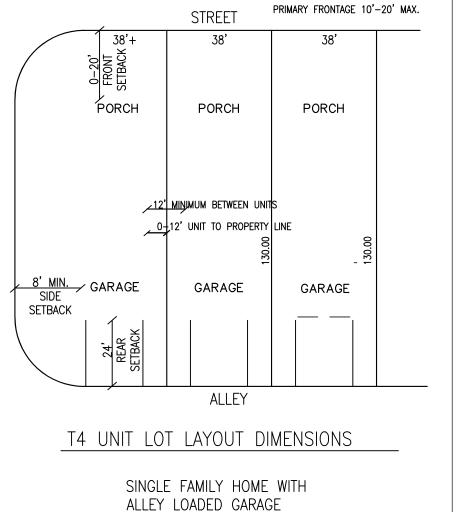
SIDEWALK

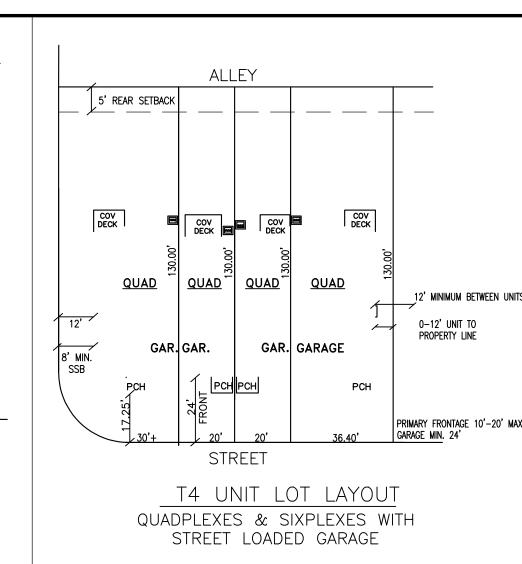
4. HIGH SIDE AND LOW SIDE RAMPS SHALL HAVE A MAXIMUM SLOPE OF 1:12 (VERTICAL:HORIZONTAL) AND SHALL NOT BE REQUIRED TO EXCEED 8 FEET (96 INCHES) IN LENGTH.

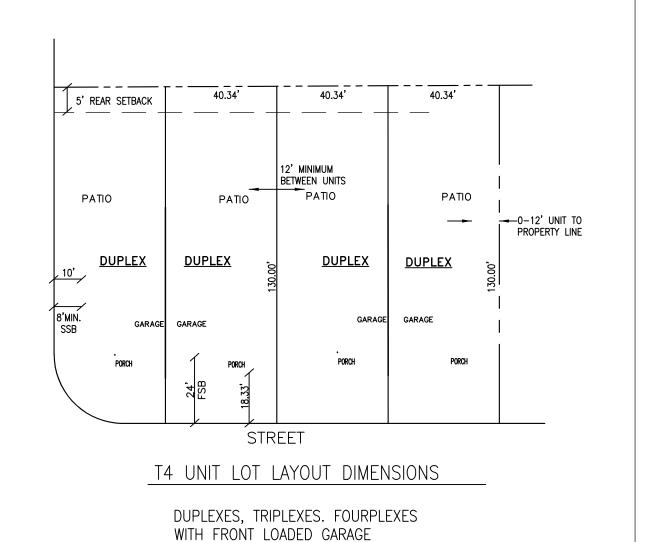


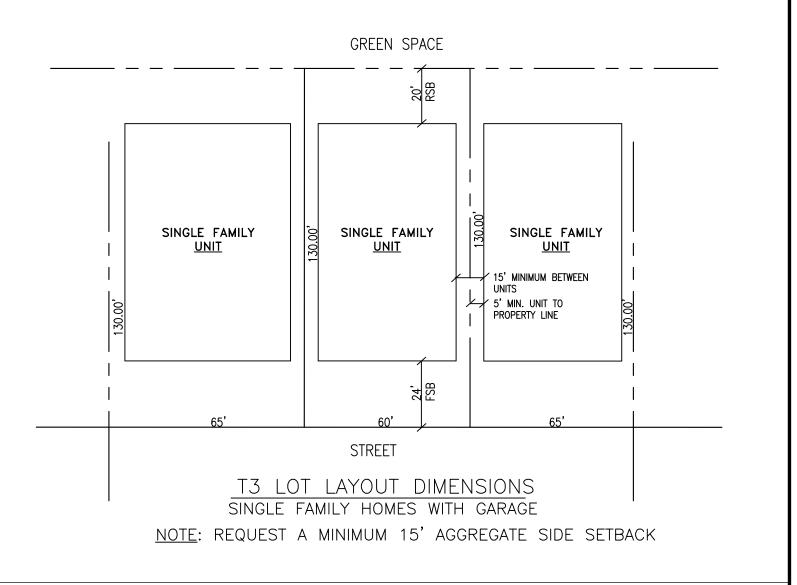
QUADPLEXES & SIXPLEXES WITH

REAR LOADED GARAGE or CARPORT









DETAILS

PRELIMINARY PLAT PLEASANT CREEK

TOWN OF THOMPSON'S STATION,
4th CIVIL DISTRICT WILLIAMSON COUNTY, TENNESSEE

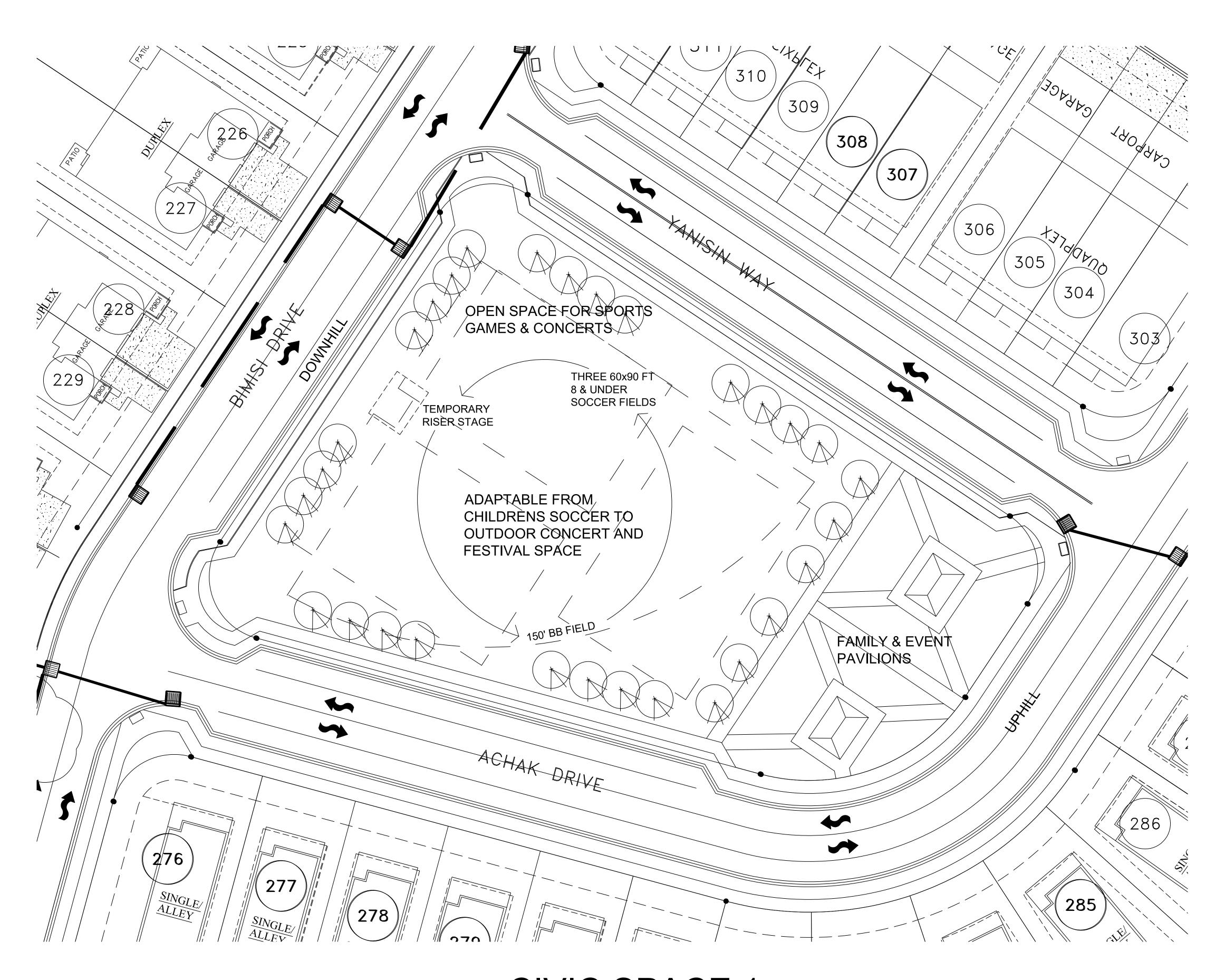
PLEASANT CREEK INVESTMENTS, LLC

144 SOUTHEAST PARKWAY

SUITE 230

FRANKLIN, TN 37064
PHONE (615) 238-4958

9/02/20 SHEET 14 OF 22



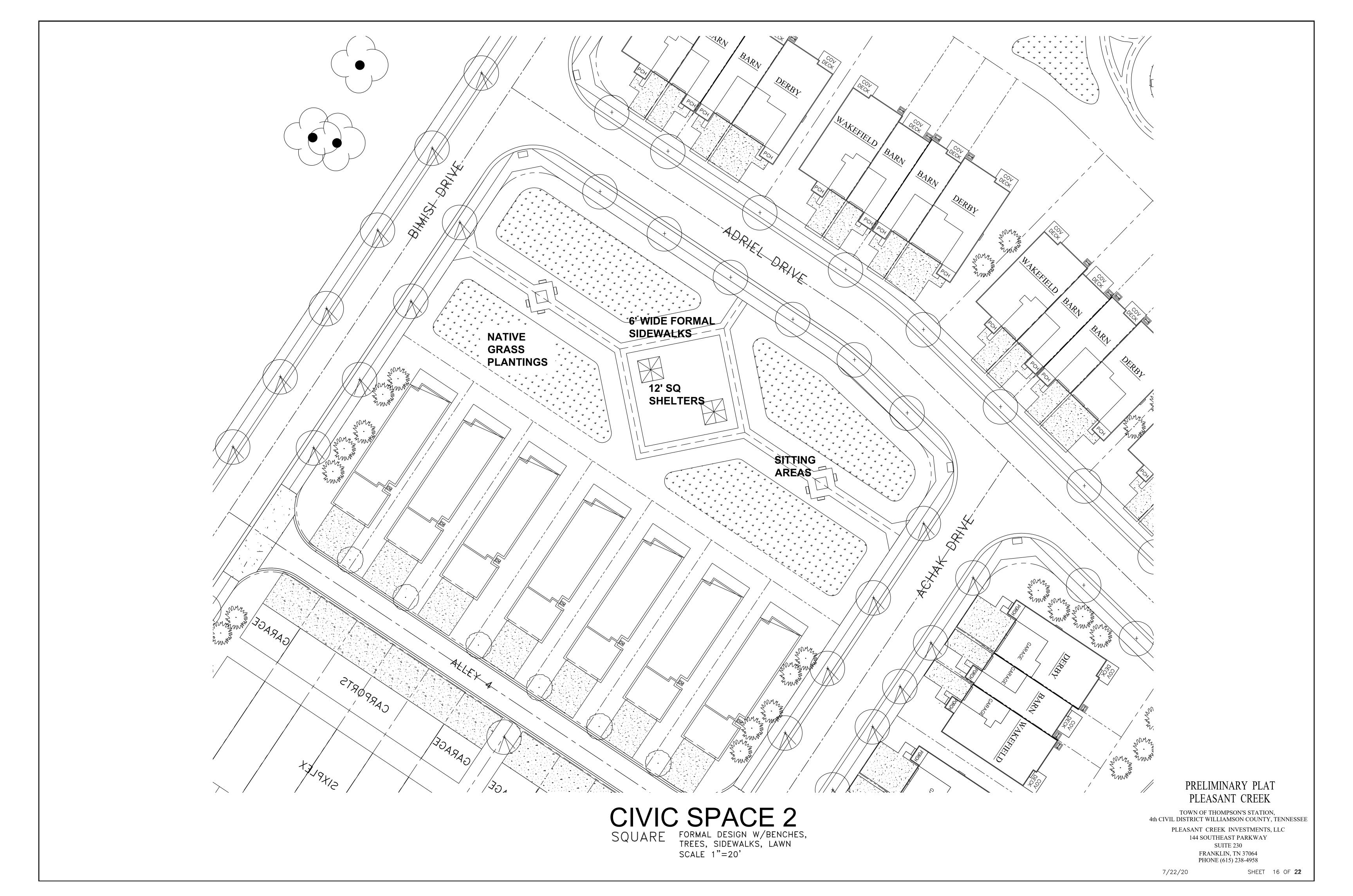
PRELIMINARY PLAT PLEASANT CREEK

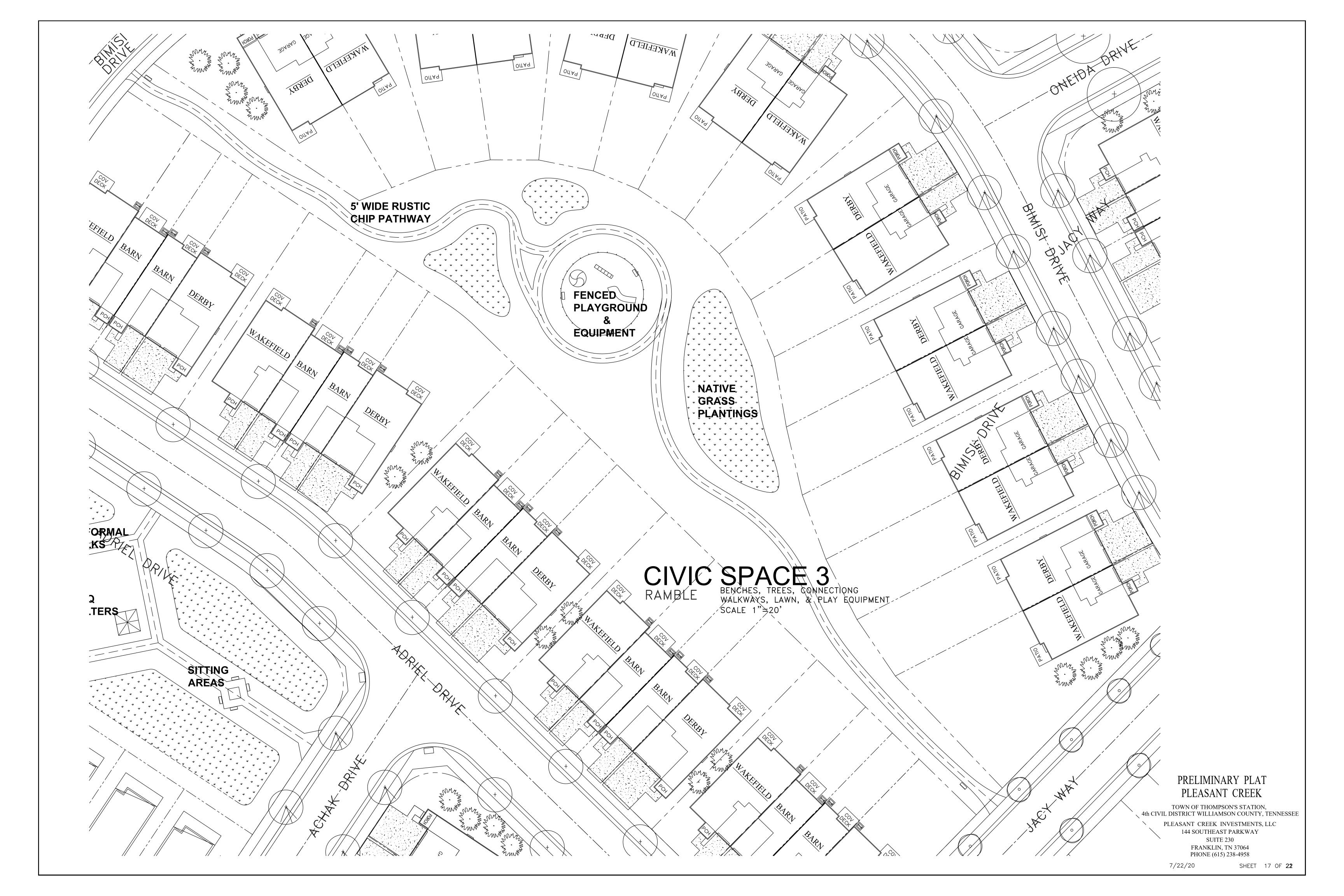
CIVIC SPACE 1
SQUARE MULTIPURPOSE ADAPTABLE RECREATION SPACE SCALE 1"=20'

PLEASANT CREEK INVESTMENTS, LLC
144 SOUTHEAST PARKWAY
SUITE 230
FRANKLIN, TN 37064
PHONE (615) 238-4958
TOWN OF THOMPSON'S STATION,

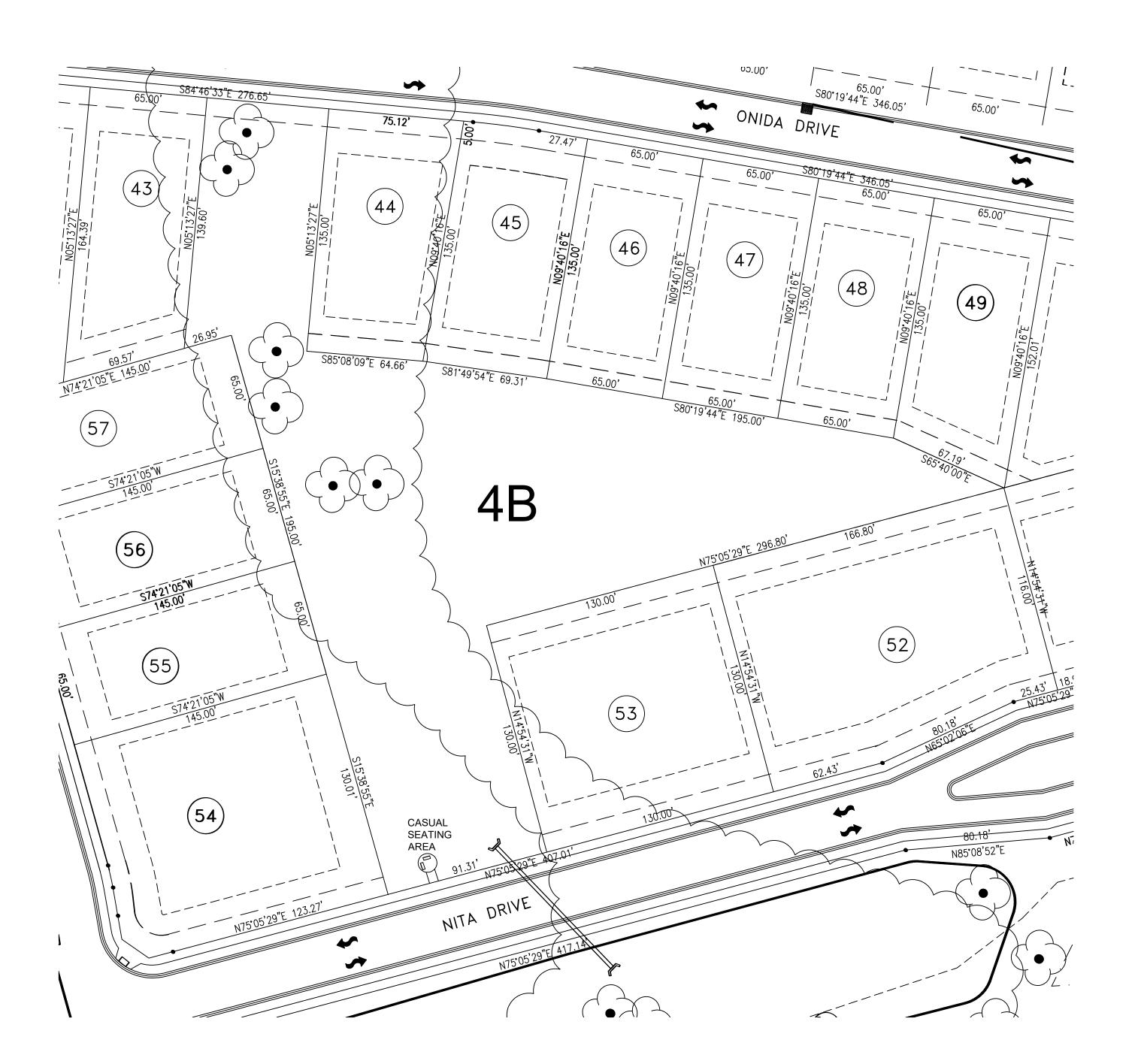
TOWN OF THOMPSON'S STATION, 4th CIVIL DISTRICT WILLIAMSON COUNTY, TENNESSEE

7/22/20 SHEET 15 OF **22**









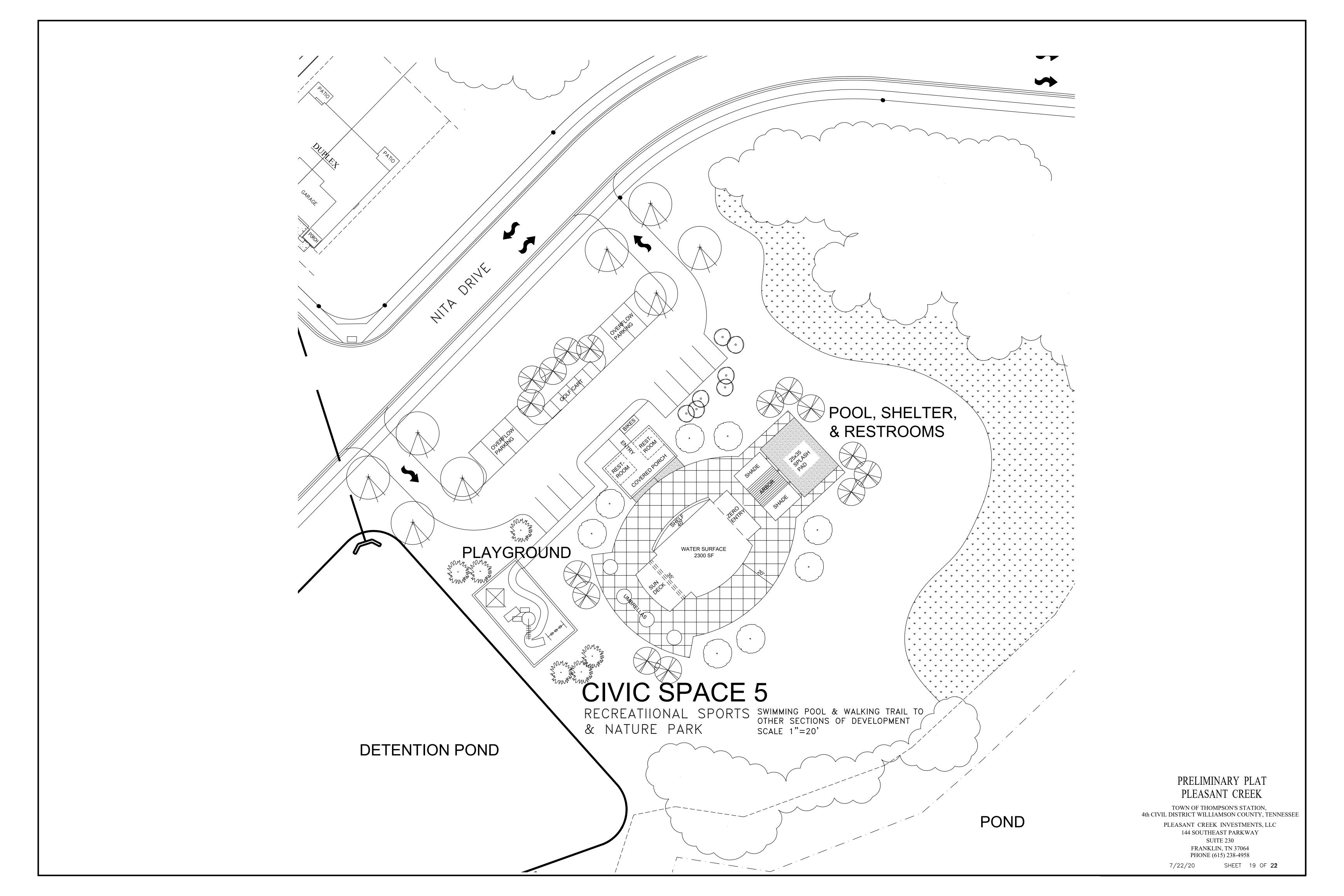
CIVIC SPACES 4A & 4B
PARKS UNDEVELOPED AREAS HANDLING DRAINAGE
ACROSS THE SITE CONTAINING A FEW
BENCHES AND PATCHES OF LAWN
SCALE 1"=40"

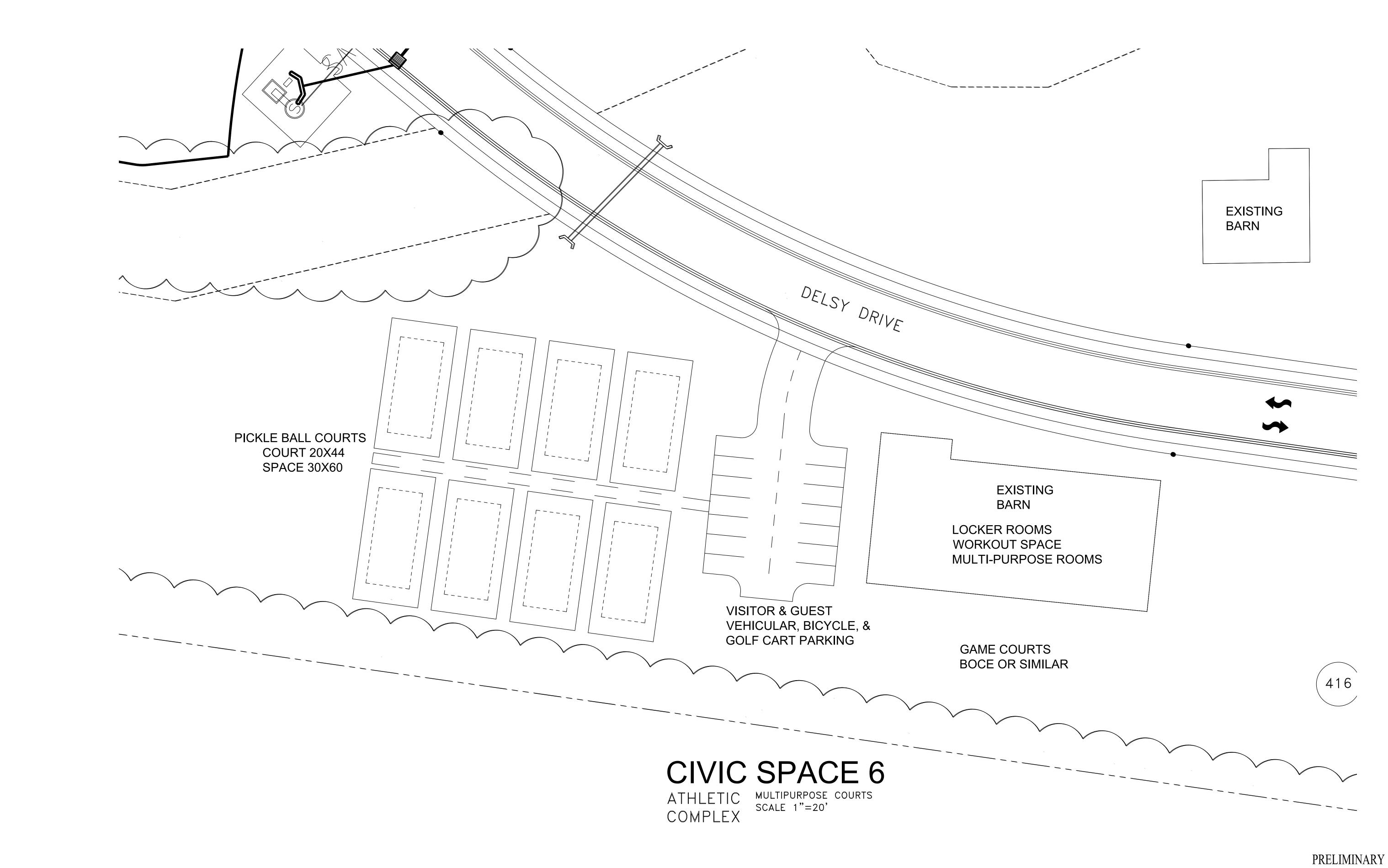
PRELIMINARY PLAT PLEASANT CREEK

TOWN OF THOMPSON'S STATION, 4th CIVIL DISTRICT WILLIAMSON COUNTY, TENNESSEE PLEASANT CREEK INVESTMENTS, LLC 144 SOUTHEAST PARKWAY SUITE 230 FRANKLIN, TN 37064 PHONE (615) 238-4958

7/22/20

SHEET 18 OF **22**



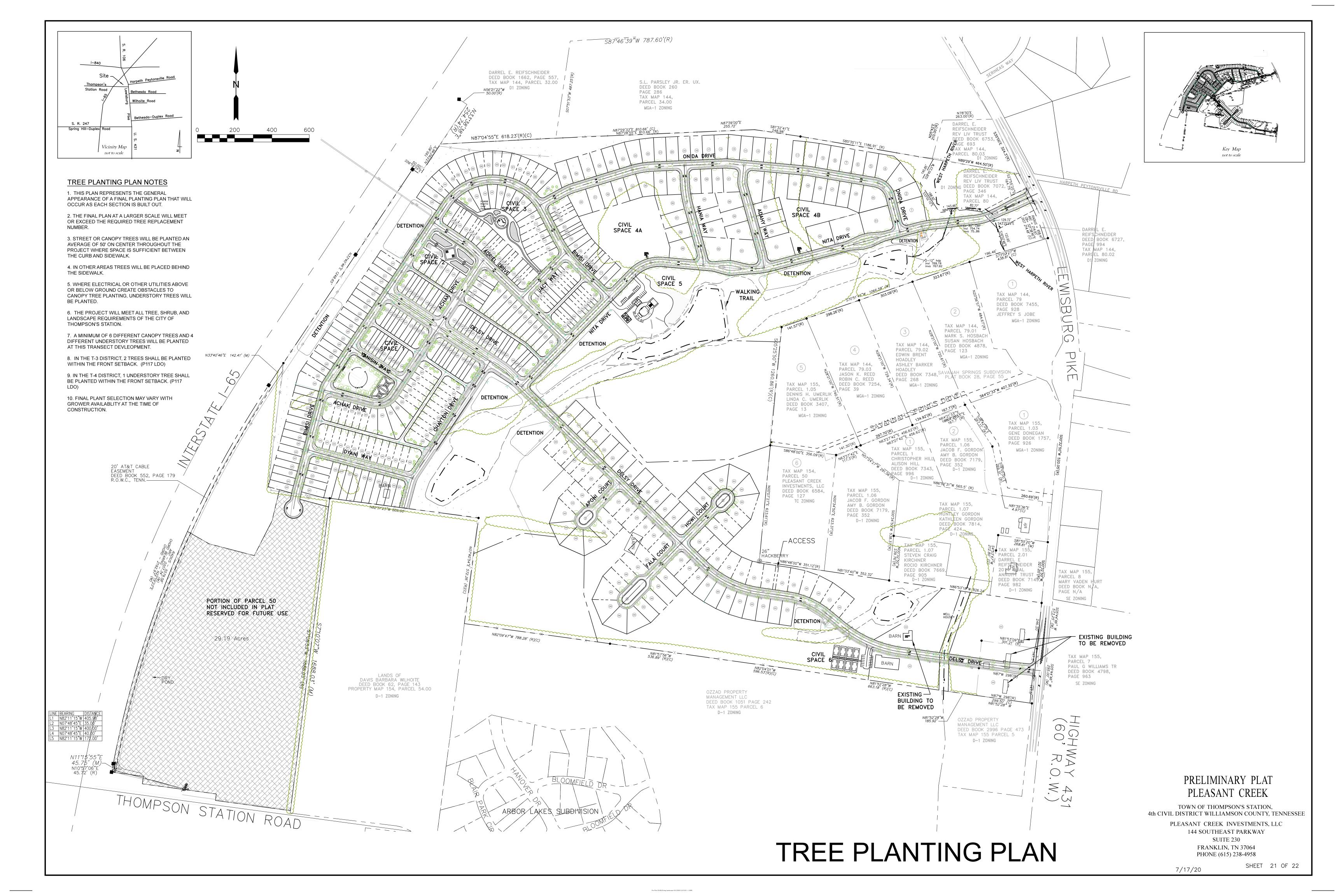


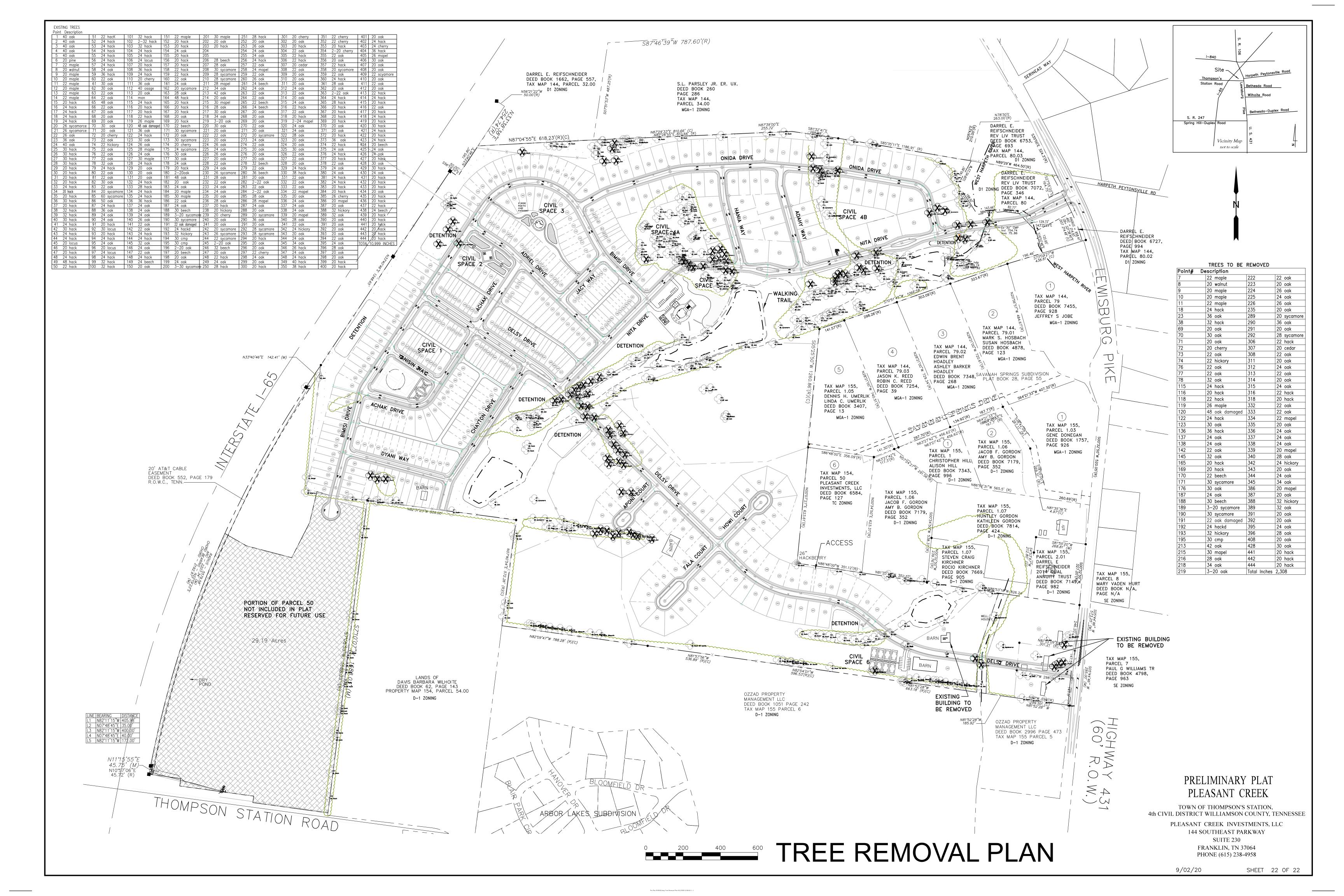
PRELIMINARY PLAT PLEASANT CREEK

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4th CIVIL DISTRICT WILLIAMSON COUNTY, TENNESSEE

7/22/20

SHEET 20 OF **22**

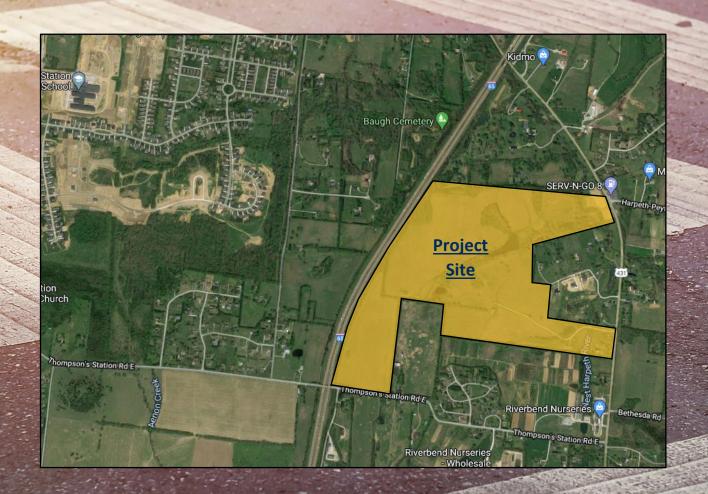






TRAFFIC IMPACT STUDY

PLEASANT CREEK
THOMPSON'S STATION, TENNESSEE



PREPARED FOR:
PLEASANT CREEK INVESTMENTS, LLC
SEPTEMBER 2020

KCI TECHNOLOGIES, INC. // 500 11TH AVENUE NORTH, NASHVILLE, TN 37203 // KCI.COM

TRAFFIC IMPACT STUDY PLEASANT CREEK THOMPSON'S STATION, TENNESSEE

PREPARED FOR: PLEASANT CREEK INVESTMENTS, LLC



PREPARED BY: KCI TECHNOLOGIES, INC

500 11th Avenue North, Suite 290 Nashville, TN 37203 615.370.8410 office 615.370.8455 fax www.kci.com

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EXECUTIVE SUMMARY

Project Description

The proposed Pleasant Creek development is located on the west side of Lewisburg Pike (SR 106/US 431), east of I-65 in Thompson's Station, Tennessee. According to the developer, the proposed development includes approximately 327 single-family residential homes, 90 single-family townhomes, 5,500 square feet of retail, 2,000 square feet of fitness center, and 2,000 square feet of bank on approximately 179 acres. Access to the development is planned to be provided by two access drives, located along Lewisburg Pike (SR 106/US 431). The northern access will be provided via the new eastbound approach to the intersection of Lewisburg Pike (SR 106/US 431) and Harpeth Peytonsville Road. The southern access will be located approximately 1,100 feet north of the intersection of Lewisburg Pike (SR 106/US 431) and Bethesda Road. The purpose of this study is to analyze the access plan and the traffic impacts associated with this proposed development.

Data Collection

In order to provide data for the traffic impact analysis, manual traffic counts were conducted at the following intersections:

- 1. Lewisburg Pike (SR 106/US 431) and Thompson's Station Road East (unsignalized)
- 2. Lewisburg Pike (SR 106/US 431) and Bethesda Road (unsignalized)
- 3. Lewisburg Pike (SR 106/US 431) and Harpeth-Peytonsville Road (unsignalized)
- 4. Thompson's Station Road East and Buckner Lane (signalized)
- 5. Thompson's Station Road East and Pantall Road (unsignalized)

KCI Technologies, Inc. conducted the traffic counts from 7:00 – 9:00 AM and 4:00 – 6:00 PM on a typical weekday in July 2020; however, given the changes in traffic patterns resulting from Covid-19, these counts were compared to historic counts as a point of reference. Traffic volumes from counts gathered as part of Thompson's Station 2015 Comprehensive Traffic Study were grown at an annual growth rate of 7% for five years to make this evaluation. The growth rate was based upon historic TDOT AADT data from nearby count stations. To be conservative, the maximum turning movement volumes from either of the count methodologies (i.e., the existing (2020) volumes or the grown volumes using 2015 counts) were utilized for this study.



Projection of Future Traffic Volumes

In order to account for the traffic growth prior to the completion of the proposed project, background traffic volumes were established. Then, the estimated total project-generated traffic volumes for the proposed development were added to the background peak hour traffic volumes in order to obtain the total projected peak hour traffic volumes for the study area intersections.

Conclusions and Recommendations

The analyses presented in this study indicate that the impacts of the proposed project on the existing street network will be manageable by providing the recommendations below. These specific recommendations will provide safe and efficient traffic operations within the study area following the completion of the proposed project. The recommendations are as follows:

Lewisburg Pike (SR 106/US 431) and Harpeth-Peytonsville Road/Site Access A

- Preliminary signal warrant analysis determined that a signal is warranted under existing conditions. However, these preliminary analyses were based on traffic projections made due to Covid-19 and not on actual counts representing traffic conditions without the impacts of Covid-19. Therefore, a full signal warrant analysis should be completed when traffic conditions have stabilized and prior to the completion of 35 lots within the Pleasant Creek development.
- Until a signal is installed, the eastbound approach of Site Access A should be stop-controlled, and a stop bar and R1-1 'Stop' sign should be installed on the egress approach.
- Site Access A should be designed to include sufficient width for one entering lane and three exiting lanes. The exiting approach should include one left-turn lane with a minimum of 125 feet of storage, one through lane, and one right-turn lane with a minimum of 125 feet of storage.
- Provide a northbound left-turn lane on Lewisburg Pike (SR 106/US 431) with a minimum of 150 feet of storage length.
- Provide a southbound right-turn lane on Lewisburg Pike (SR 106/US 431) with a minimum of 75 feet of storage length.

Lewisburg Pike (SR 106/US 431) and Site Access B

• The eastbound approach of Site Access B should be stop-controlled, and a stop bar and R1-1 'Stop' sign should be installed on the egress approach.

- Site Access B should be designed to include sufficient width for one entering lane and two exiting lanes. The exiting approach should include one left-turn lane and one right-turn lane.
- Provide a northbound left-turn lane on Lewisburg Pike (SR 106/US 431) with a minimum of 150 feet of storage length.
- Provide a southbound right-turn lane on Lewisburg Pike (SR 106/US 431) with a minimum of 75 feet of storage length.

<u>Additional Recommendations</u>

- As part of the construction of the project, all internal and external roadway connections should be designed such that the departure sight triangles, as specified by AASHTO, will be clear of all sight obstructions, including landscaping, existing vegetation, monument signs/walls, fences, etc.
- Final design of internal roadways and parking should meet all Town of Thompson's Station standards. Internal intersections should be two-way stopcontrolled unless all-way stop control warrants are met.

In summary, based on the analyses conducted, no further recommendations are presented for the proposed Pleasant Creek development.



1. INTRODUCTION AND PROJECT DESCRIPTION

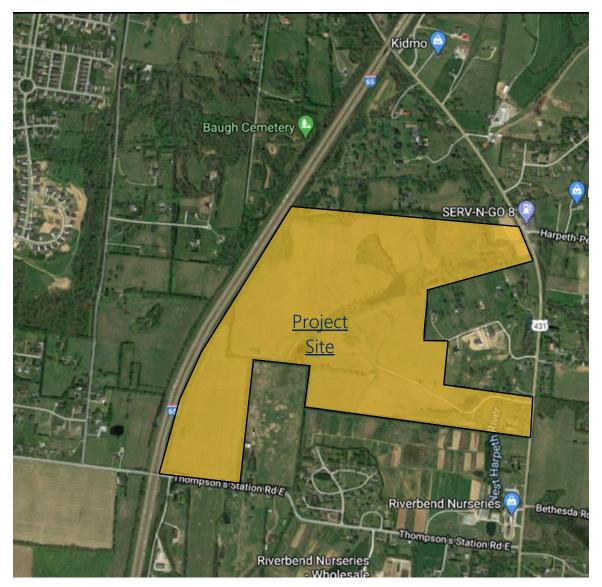
The purpose of this study is to analyze the traffic impacts and access plan associated with the proposed Pleasant Creek development located on the west side of Lewisburg Pike (SR 106/US 431), east of I-65 in Thompson's Station, Tennessee. According to the developer, the proposed development includes approximately 327 single-family residential homes, 90 single-family townhomes, 5,500 square feet of retail, 2,000 square feet of fitness center, and 2,000 square feet of bank on approximately 179 acres.

As shown by Figure 1, the property is located along Lewisburg Pike (SR 106/US 431) northwest of the intersection of Lewisburg Pike (SR 106/US 431) and Thompson's Station Road East. The property is currently zoned TC (Transect Community). The proposed development is within an area that is characterized by low-density land uses. The property is generally bounded on the west by I-65, on the south by Thompson Station Road and existing residential developments, on the east by Lewisburg Pike (SR 106/US 431), and on the north by undeveloped land and residential developments.

The current site plan for the Pleasant Creek development is shown in Appendix A. Based on this site plan, proposed vehicular access for the development is planned to be provided by two access drives, located along Lewisburg Pike (SR 106/US 431). The northern access will be provided via the new eastbound approach to the intersection of Lewisburg Pike (SR 106/US 431) and Harpeth Peytonsville Road. The southern access will be located approximately 1,100 feet north of the intersection of Lewisburg Pike (SR 106/US 431) and Bethesda Road. Surface parking is planned to accommodate the proposed development.

In this study, the current operating characteristics of the adjacent roadways and intersections in the vicinity of the project site are evaluated. The expected trips generated by the proposed development are determined and distributed to the roadway network. The adjacent roadways and intersections are then reevaluated to determine the anticipated traffic impacts of the project. Finally, recommendations are presented, including roadway improvements and/or traffic control improvements that are needed to accommodate the expected traffic.

FIGURE 1. LOCATION OF THE PROJECT SITE



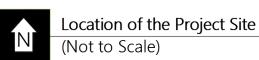


Figure 1.

2. EXISTING CONDITIONS

2.1 Existing Roadway Network

Local access to the site will be provided by Lewisburg Pike (SR 106/US 431), Thompson's Station Road East, Bethesda Road, Harpeth-Peytonsville Road, Buckner Lane, and Pantall Road. A description of these roadways within the project vicinity is as follows:

Lewisburg Pike (SR 106/US 431) is a two-way roadway that generally travels in a north-south direction with one travel lane in each direction. Within the study area, Lewisburg Pike (SR 106/US 431) provides connection between I-840 to the north and Thompson's Station Road East to the south. According to the Thompson's Station's Major Thoroughfare Plan, Lewisburg Pike (SR 106/US 431) is categorized as an urban arterial in the vicinity of the



Lewisburg Pike looking north, east of the project site

project site. The posted speed limit on Lewisburg Pike (SR 106/US 431) is 55 mph near the project site. No sidewalks, on-street parking, transit, or bicycle facilities are provided on Lewisburg Pike (SR 106/US 431) near the project site.

Thompson's Station Road East is a two-way roadway that generally travels in an east-west direction with one travel lane in each direction. Thompson's Station Road East provides connection between US 31 to the west and Lewisburg Pike (SR 106/US 431) to the east. According to the Thompson's Station's Major Thoroughfare Plan, Thompson's Station Road East is categorized as



Thompson's Station Road East looking east, south of the project site

an urban collector in the vicinity of the project site. The posted speed limit on Thompson's Station Road East is 45 mph near the project site. No sidewalks, on-street parking, transit, or bicycle facilities are provided on Thompson's Station Road East near the project site.

Bethesda Road is a two-way roadway that generally travels in an east-west direction with one travel lane in each direction. Within the study area, Bethesda Road provides connection between Lewisburg Pike (SR 106/US 431) to the west and Bethesda-Duplex Road to the east. Because Bethesda Road is within Williamson County, and outside the boundaries of Thompson's



Station, it is not functionally classified in the Town of Thompson's Station's *Major Thoroughfare Plan*. However, according to TDOT's Functional Classification Map, Bethesda Road is categorized as a minor collector in the vicinity of the project site. The posted speed limit on Bethesda Road is 45 mph near the project site. No sidewalks, on-street parking, transit, or bicycle facilities are provided on Bethesda Road near the project site.

Harpeth-Peytonsville Road is a two-way that generally travels in an east-west direction with one travel lane in each direction. Within the study area, Harpeth-Peytonsville Road provides connection between Lewisburg Pike (SR 106/US 431) to the west and Peytonsville-Trinity Road near I-840 to the east. Because Harpeth-Peytonsville Road is within Williamson



County, and outside the boundaries of Thompson's Station, it is not functionally classified in the Town of Thompson's Station's *Major Thoroughfare Plan*. However, according to TDOT's Functional Classification Map, Harpeth-Peytonsville is categorized as a minor collector in the vicinity of the project site. The posted speed limit on Harpeth-Peytonsville Road is 50 mph near the project site. No sidewalks, on-street parking, transit, or bicycle facilities are provided on Harpeth-Peytonsville Road near the project site.

Buckner Lane is a two-way roadway that generally travels in a north-south direction with one travel lane in each direction. Within the study area, Buckner Lane provides connection between Thompson's Station Road East to the north and Highway 247 to the south. Because Buckner Lane is within the City of Spring Hill, it is not functionally classified in the Town of Thompson's Station's



Major Thoroughfare Plan. However, according to the TDOT Functional Classification Map, Buckner Lane is categorized as a major collector in the vicinity of the project site. The posted speed limit on Buckner Lane is 40 mph near the project site. No sidewalks, on-street parking, transit, or bicycle facilities are provided on Buckner Lane near the project site.

Pantall Road is a two-way roadway that generally travels in a north-south direction with one travel lane in each direction. Within the study area, Pantall Road provides connection between Thompson's Station Road East to the south and Critz Lane to the north, near Lewisburg Pike (SR 106/US 431). According to the Thompson's Station's *Major Thoroughfare Plan*, Pantall Road is



categorized as an urban collector in the vicinity of the project site. The posted speed limit on Pantall Road is 40 mph near the project site. No sidewalks, on-street parking, transit, or bicycle facilities are provided on Pantall Road near the project site.

The study area includes five existing intersections described as follows:

Lewisburg Pike (SR 106/US 431) and Thompson's Station Road East is an unsignalized intersection with three approaches. The northbound approach of Lewisburg Pike (SR 106/US 431) operates freely and includes one lane for all movements. The eastbound approach of Thompson's Station Road East is stopcontrolled and includes one lane for all movements. The southbound approach of



Lewisburg Pike (SR 106/US 431) operates freely and includes one lane for all movements. No pedestrian, bicycle, or transit facilities exist at the intersection.

Lewisburg Pike (SR 106/US 431) and Bethesda Road is an unsignalized intersection with three approaches. The northbound approach of Lewisburg Pike (SR 106/US 431) operates freely and includes one lane for all movements. The southbound approach of Lewisburg Pike (SR 106/US 431) operates freely and includes one lane for all movements. The westbound approach of Bethesda Road is stop-controlled and



includes one lane for all movements. No pedestrian, bicycle, or transit facilities exist at the intersection.

Lewisburg Pike (SR 106/US 431) and Harpeth-Peytonsville Road is an unsignalized intersection with three approaches. The northbound approach of Lewisburg Pike (SR 106/US 431) operates freely and includes one lane for all movements. The southbound approach of Lewisburg Pike (SR 106/US 431) operates freely and includes one lane for all



movements. The westbound approach of Harpeth-Peytonsville Road is stop-controlled and includes one lane for all movements. No pedestrian, bicycle, or transit facilities exist at the intersection.

Thompson's Station Road East and Buckner Lane is a signalized intersection with three approaches. The northbound approach of Buckner Lane incudes one lane for all movements. The eastbound approach of Thompson's Station Road East includes one lane for all movements. The westbound approach of Thompson's Station Road East includes one lane for all movements. Protected-permitted left-turn signal phasing is provided on the westbound approach. No pedestrian, bicycle, or transit facilities exist at the intersection.



Looking west on Thompson's Station Road East at Buckner Lane

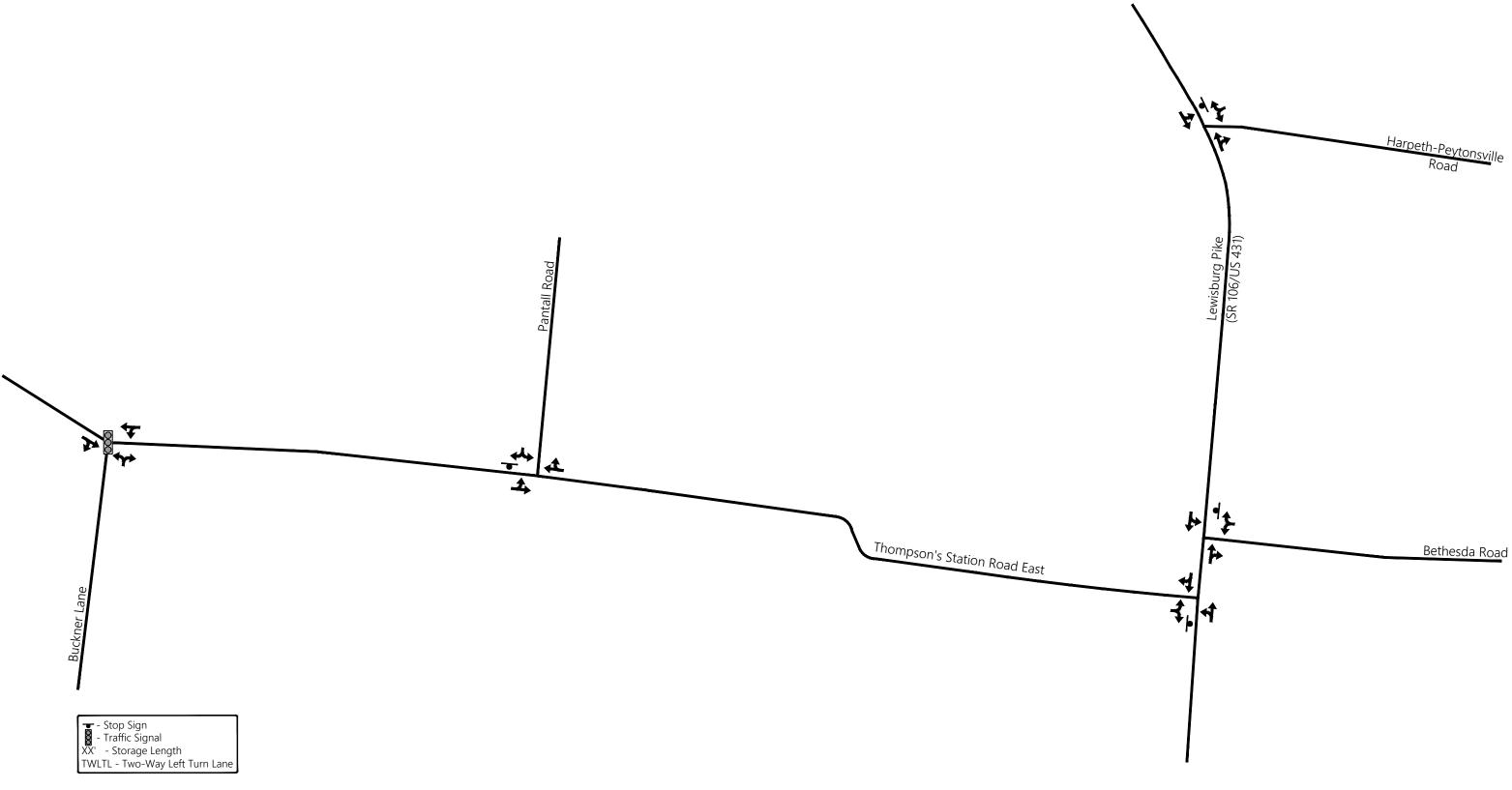
Thompson's Station Road East and Pantall Road is an unsignalized intersection with three approaches. The eastbound approach of Thompson's Station Road East operates freely and includes one lane for all movements. The southbound approach of Pantall Road is stop-controlled and includes one lane for all movements. The westbound approach of Thompson's Station Road East operates freely and includes one lane for all



movements. No pedestrian, bicycle, or transit facilities exist at the intersection.

The existing laneage at the study intersections is illustrated in Figure 2.

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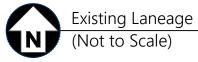


Figure 2.

2.2 Existing Traffic Volumes

In order to provide data for the traffic impact analysis, traffic counts were conducted at the following intersections:

- 1. Lewisburg Pike (SR 106/US 431) and Thompson's Station Road East (unsignalized)
- 2. Lewisburg Pike (SR 106/US 431) and Bethesda Road (unsignalized)
- 3. Lewisburg Pike (SR 106/US 431) and Harpeth-Peytonsville Road (unsignalized)
- 4. Thompson's Station Road East and Buckner Lane (signalized)
- 5. Thompson's Station Road East and Pantall Road (unsignalized)

KCI Technologies, Inc. conducted traffic counts from 7:00-9:00 AM and 4:00-6:00 PM on a typical weekday in July 2020; however, given the changes in traffic patterns resulting from Covid-19, these counts were compared to historic counts. Traffic counts gathered as part of Thompson's Station 2015 Comprehensive Traffic Study were grown at an annual growth rate of 7% for five years to make this evaluation. The growth rate was based upon historic TDOT AADT data from nearby count stations. To be conservative, the maximum turning movement volumes from either of the count methodologies (i.e., the existing (2020) volumes or the grown volumes using 2015 counts) were utilized for this study. These volumes were then balanced between all study intersections. The existing peak hour turning movement volumes are presented in Figure 3. A detailed summary of the traffic counts is included in Appendix B.

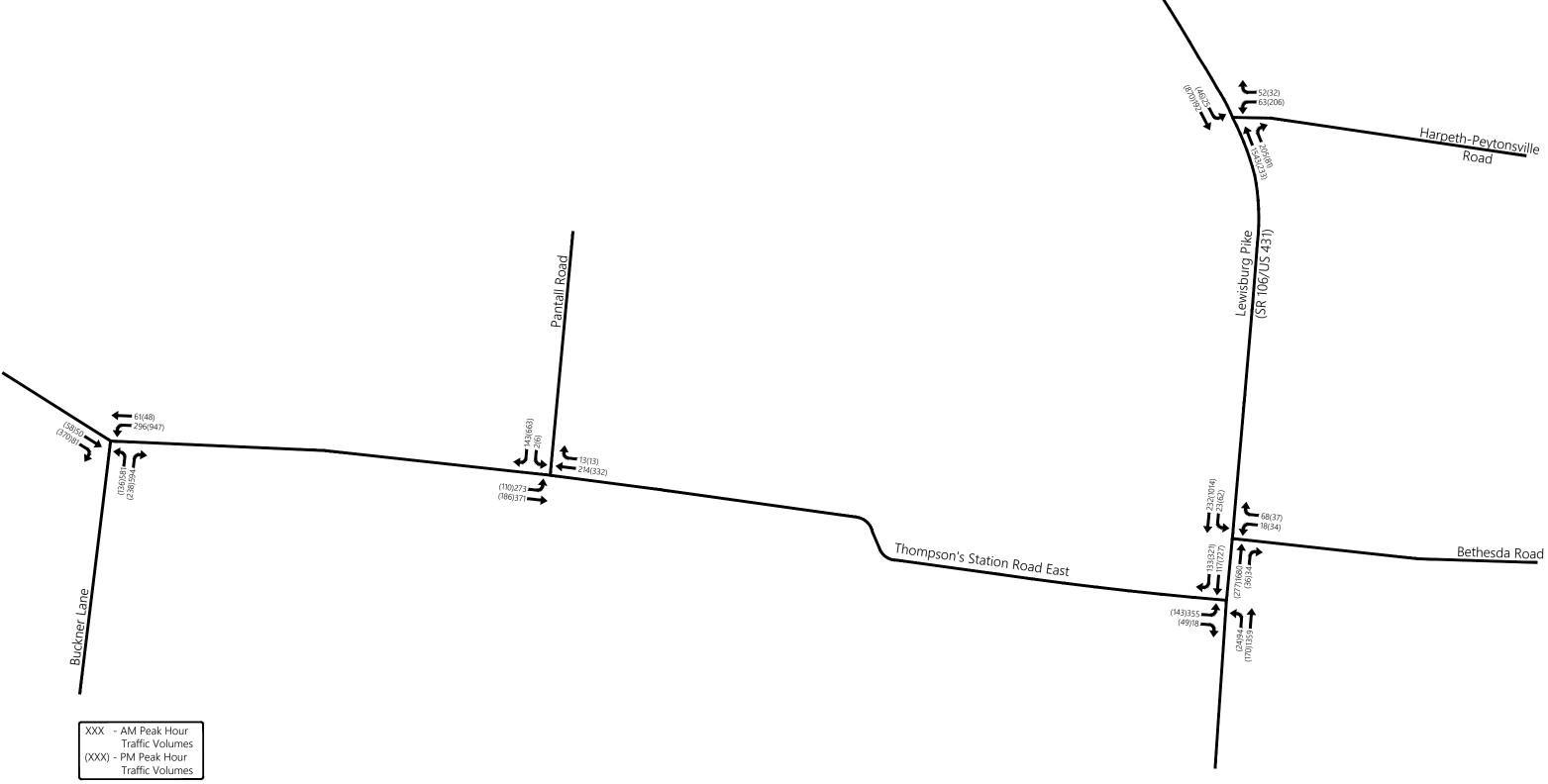
In addition to the above information, average daily traffic volumes were obtained from the Tennessee Department of Transportation (TDOT). There are four TDOT count stations located in the vicinity of the project site. The count station locations and annual average daily traffic (AADT) in 2018 are shown in Table 1. Additional TDOT Count Station data is included in Appendix C.

TABLE 1. TDOT COUNT STATION DATA

ROADWAY	LOCATION	STATION NO.	2018 AADT (vpd)
Lewisburg Pike	East of I-65;	65	£ 100
(SR 106/US 431)	Between Cascade Eastgate Boulevard and Wilhoite Road	05	6,188
Thompson's	West of I-65;	66	4,009
Station Road East	on Road East Between Columbia Pike and Village Drive		4,009
Bethesda Road	East of Lewisburg Pike (SR 106/US 431);	64	2,062
Detilesua Noau	Between Lewisburg Pike and Marlin Way	04	2,002
Harpeth-	East of Lewisburg Pike (SR 106/US 431);	93	1,608
Peytonsville Road	Between Dotson Road and Herbert Smithson Road	33	1,000

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Existing Peak Hour Traffic Volumes

(Not to Scale)

Figure 3.

2.3 Existing Traffic Operations

To determine the current operation of the study intersections, capacity analyses were performed for the AM and PM peak hours. The capacity calculations were performed according to the methods outlined in the *Highway Capacity Manual*, 6th Edition. However, it should be noted that due to the limitations of HCM 6th Edition regarding intersections with non-NEMA phasing, the signalized intersection of Thompson's Station Road East and Buckner Road was analyzed using HCM 2000 methodologies under existing conditions only. The capacity analyses result in the determination of a Level of Service (LOS) for an intersection. The LOS is a concept used to describe how well an intersection or roadway operates. LOS A is the best, while LOS F is the worst. LOS D is typically considered as the minimum acceptable LOS for an intersection in an urbanized area. Table 2 presents the descriptions of LOS for signalized and unsignalized intersections.

TABLE 2. DESCRIPTIONS OF LEVEL OF SERVICE

LEVEL OF SERVICE	DESCRIPTION	UNSIGNALIZED CONTROL DELAY (sec/veh)	SIGNALIZED CONTROL DELAY (sec/veh)
Α	Little or no delay	<u><</u> 10.0	<u>≤</u> 10.0
В	Short traffic delay	>10 and <u><</u> 15	>10 and <u><</u> 20
С	Average traffic delay	>15 and <u><</u> 25	>20 and <u><</u> 35
D	Long traffic delay	>25 and <u><</u> 35	>35 and <u><</u> 55
E	Very long traffic delay	>35 and <u><</u> 50	>55 and <u><</u> 80
F	Extreme traffic delay	> 50.0	> 80.0

Source: Highway Capacity Manual, TRB 2010

The results of the capacity analyses for the existing conditions at the study intersections are presented in Table 3. As shown, the overall intersection and critical movements for the study intersections operate at LOS D or better in the AM and PM peak hours with the following exceptions:

- Lewisburg Pike (SR 106/US 431) and Thompson's Station Road East
 - The eastbound approach operates at LOS F in the AM and PM peak hours.
- Lewisburg Pike (SR 106/US 431) and Bethesda Road
 - The westbound approach operates at LOS F in the AM peak and LOS E in the PM peak hour.

- Lewisburg Pike (SR 106/US 431) and Harpeth-Peytonsville Road
 - o The westbound approach operates at LOS F in the AM and PM peak hours.
- Thompson's Station Road East and Buckner Lane
 - o The overall intersection operates at LOS F in the AM and PM peak hours.
- Thompson's Station Road East and Pantall Road
 - o The southbound approach operates at LOS F in the PM peak hour.

Capacity analyses worksheets are included in Appendix D.

TABLE 3. EXISTING PEAK HOUR LEVELS OF SERVICE

	TABLE 5. EASTING FEAR HOUR ELVELS OF SERVICE					
INTERSECTION	TURNING MOVEMENT	LEVEL OF SERVICE (Average Approach Delay in sec/veh)				
	IVIO VEIVIEIVI	AM Peak Hour	PM Peak Hour			
Lewisburg Pike and Thompson's Station Road	Northbound Left-Turn	A (8.0)	B (11.1)			
East	Eastbound Approach	F (>300)	F (102.3)			
Lewisburg Pike and	Westbound Approach	F (259.8)	E (36.1)			
Bethesda Road	Southbound Left-Turn	C (17.0)	A (8.1)			
Lewisburg Pike and	Westbound Approach	F (>300)	F (299.8)			
Harpeth-Peytonsville Road	Southbound Left-Turn	C (15.1)	A (7.9)			
Thompson's Station Road East and Buckner Lane ²	Overall Intersection	F (111.2)	F (244.4)			
Thompson's Station Road	Eastbound Left-Turn	A (8.5)	A (8.4)			
East and Pantall Road	Southbound Approach	B (11.1)	F (84.3)			

Notes: 1 - For stop-controlled intersections, a LOS is presented for each critical turning movement. For signalized intersections, a LOS is presented for the overall intersection.

2 – HCM 2000 methods were used due to the incompatibility with NEMA phasing, which is not supported by HCM 6th Edition methods.

3. BACKGROUND TRAFFIC VOLUMES

3.1 Establishing Background Volumes

In order to account for the traffic growth prior to the completion of the proposed project, background traffic volumes were established. For the purposes of this traffic study, the proposed development was assumed to be completed by the year 2025, which is a 5-year horizon. Historical daily traffic volumes were obtained from the four TDOT count stations located in the vicinity of the project site. Since 2013, the combined traffic at these four TDOT count stations has increased by an average of 6.7 per year. The TDOT count station data is included in Appendix C.

A growth factor was applied to the existing peak hour traffic volumes to account for background growth for the future conditions. The existing peak hour traffic volumes at the study intersections were increased by 7.0% per year for five years to account for anticipated background traffic growth within the study area.

Additionally, per the scoping meeting with the City of Thompson's Station, the peak hour traffic volumes generated by the following developments were included as background traffic:

- Alexander Property Located on southeast corner of the intersection of Thompson's Station Road East and Buckner Lane, approximately 1.25 miles west of the project site.
- Littlebury Located on east side of Pantall Road, approximately 3,500 feet west of the project site.

Trip assignment for the background developments are included in Appendix E. The background peak hour traffic volumes for horizon year 2025 are presented in Figure 4. These volumes represent the peak hour traffic that is expected to be on the roadway in 2025 even if the proposed Pleasant Creek development is not completed.

Pleasant Creek - Traffic Impact Study September 2020 Thompson's Station Road East Bethesda Road

XXX - AM Peak Hour Traffic Volumes (XXX) - PM Peak Hour Traffic Volumes



Background Peak Hour Traffic Volumes

(Not to Scale)

Figure 4.

3.2 Background Traffic Operations

To determine the operation of the study area intersections under background conditions, capacity analyses were performed for the AM and PM peak hours. The analyses for the background conditions were based on the same lane configurations and signal timings as the existing conditions with some exceptions. The following roadway improvements were recommended by the Alexander Property traffic impact study. The improvements were incorporated into the network configuration of the background conditions.

Thompson's Station Road East and Buckner Lane

- Realign Buckner Lane between Thompson's Station Road East and Buckner Road. This realignment would relocate this intersection to approximately 600 feet west of Sherrie Street.
- Widen Thompson's Station Road East in order to provide a westbound leftturn lane.
- Widen Thompson's Station Road East in order to provide an eastbound rightturn lane with channelization to an added lane on Bucker Lane in the southbound direction.
- Install traffic signal control with permissive/protected left-turn signal phasing for Thompson's Station Road East.

As shown in Tables 4A and 4B, under background conditions, the capacity analyses indicate that the operational performances of the critical movements at the study intersections are generally expected to continue to operate at the same level of service as under existing conditions or continue to operate at LOS D or better in the AM and PM peak hours with the following exceptions:

- Lewisburg Pike (SR 106/US 431) and Bethesda Road
 - The westbound approach is expected to deteriorate from LOS E to LOS
 F in the PM peak hour.

It is important to note that the intersection of Thompson's Station Road East and Bucker Lane has improved operations between existing and background conditions due to the incorporated background improvements. Capacity analyses worksheets are included in Appendix D.

TABLE 4A. BACKGROUND AM PEAK HOUR LEVELS OF SERVICE

INTERSECTION	TURNING MOVEMENT	LEVEL OF SERVICE (Average Approach Delay in sec/v		
	IVIOVEIVIEIVI	EXISTING	BACKGROUND	
Lewisburg Pike and	Northbound Left-Turn	A (8.0)	A (8.6)	
Thompson's Station Road East	Eastbound Approach	F (>300)	F (>300)	
Lewisburg Pike and	Westbound Approach	F (259.8)	F (>300)	
Bethesda Road	Southbound Left-Turn	C (17.0)	D (33.4)	
Lewisburg Pike and	Westbound Approach	F (>300)	F (>300)	
Harpeth-Peytonsville Road	Southbound Left-Turn	C (15.1)	D (26.1)	
Thompson's Station Road East and Buckner Lane	Overall Intersection	F (111.2)	D (41.9)	
Thompson's Station Road	Eastbound Left-Turn	A (8.5)	A (9.8)	
East and Pantall Road	Southbound Approach	B (11.1)	C (23.2)	

Note: 1 - For stop-controlled intersections, a LOS is presented for each critical turning movement. For signalized intersections, a LOS is presented for the overall intersection.

TABLE 4B. BACKGROUND PM PEAK HOUR LEVELS OF SERVICE

INTERSECTION	TURNING	LEVEL OF SERVICE (Average Approach Delay in sec/veh)		
	MOVEMENT	EXISTING	BACKGROUND	
Lewisburg Pike and	Northbound Left-Turn	B (11.1)	C (16.2)	
Thompson's Station Road East	Eastbound Approach	F (102.3)	F (>300)	
Lewisburg Pike and	Westbound Approach	E (36.1)	F (>300)	
Bethesda Road	Southbound Left-Turn	A (8.1)	A (8.7)	
Lewisburg Pike and	Westbound Approach	F (299.8)	F (>300)	
Harpeth-Peytonsville Road	Southbound Left-Turn	A (7.9)	A (8.2)	
Thompson's Station Road East and Buckner Lane	Overall Intersection	F (244.4)	F (118.5)	
Thompson's Station Road	Eastbound Left-Turn	A (8.4)	A (9.6)	
East and Pantall Road	Southbound Approach	F (84.3)	F (>300)	

Note: 1 - For stop-controlled intersections, a LOS is presented for each critical turning movement. For signalized intersections, a LOS is presented for the overall intersection.

4. IMPACTS

4.1 Trip Generation

A traffic generation process was used to estimate the amount of traffic expected to be generated by the proposed Pleasant Creek development. Factors for the trip generation were taken from ITE's *Trip Generation*, 10th Edition. According to the developer, the proposed development includes approximately 327 single-family residential homes, 90 single-family townhomes, 5,500 square feet of retail, 2,000 square feet of fitness center, and 2,000 square feet of bank. It should be noted that the 90 single-family townhomes will be analyzed using LUC 210 due to the planned nature of the development, as well as, LUC being more conservative than LUC 220 (Low Rise Multi-Family). Therefore, the total units for analysis is 417. Additionally, the fitness center will be analyzed using LUC 820 due to the planned nature of the development, as well as, LUC being more conservative than LUC 492 (Health/Fitness Club).

No reductions were applied to the base trip generation to account for internal capture, alternative modes, or pass-by trips.

Table 5 presents the daily, AM and PM peak hour trip generation for the proposed development. As shown in Table 5, the proposed development can be expected to generate approximately 5,164 new vehicle trips per day. The AM and PM peak hour trip generations will equal approximately 327 and 545 new trips, respectively. These trips represent the new traffic that will be generated by the proposed Pleasant Creek development. The calculations for trip generation are included in Appendix F.

TABLE 5. DEVELOPMENT TRIP GENERATION

		GENERATED TRAFFIC					
LAND USE	SIZE	DAILY AM P		I PEAK P		PM PEAK	
		TRAFFIC	Enter	Exit	Enter	Exit	
Single-Family Detached Housing (LUC 210)	417 Units	3,868	75	226	252	148	
Shopping Center (LUC 820)	1,500 s.f.	346	1	0	12	12	
Shopping Center (LUC 820)	4,000 s.f.	674	2	2	24	26	
Shopping Center (LUC 820)	2,000 s.f.	76	1	1	14	16	
Drive-In Bank (LUC 912) 2,000 s.		200	11	8	21	21	
NEW TRIPS		E 16.4	90	237	322	223	
		5,164	327		545		

Source: Trip Generation, 10th Edition

4.2 Trip Distribution and Traffic Assignment

A directional distribution of traffic generated by the proposed project was established based on the proposed access, the existing roadway network, and the existing travel patterns developed from the existing peak hour traffic counts. As previously discussed, access to the development is planned to be provided by two access drives, located along Lewisburg Pike (SR 106/US 431). The northern access will be provided via the new eastbound approach to the intersection of Lewisburg Pike (SR 106/US 431) and Harpeth Peytonsville Road. The southern access will be located approximately 1,100 feet north of the intersection of Lewisburg Pike (SR 106/US 431) and Bethesda Road.

The directional distribution for the proposed development is shown in Figure 5. As shown in the figure,

- approximately 35% of the traffic generated by the development will be oriented to the north on Lewisburg Pike (SR 106/US 431),
- 25% to the west on Thompson's Station Road East,
- 20% to the south on Lewisburg Pike (SR 106/US 431),
- 5% to the east on Harpeth-Peytonsville Road,
- 5% to the east on Bethesda Road,
- 5% to the north on Pantall Road, and
- 5% to the south on Buckner Lane.

Based on the directional distribution, the project-generated traffic for the AM and PM peak hour was assigned to the roadway network. The traffic assignment for the proposed development is shown in Figure 6. It should be noted that the 20% of vehicles distributed to the south on Lewisburg Pike (SR 106/US 431) is due to the proposed I-65 interchange located along Buckner Road. This interchange is being constructed in tandem with the Alexander Property background development.

Pleasant Creek - Traffic Impact Study September 2020 Site Access A Project Site Site Access B Thompson's Station Road East Bethesda Road

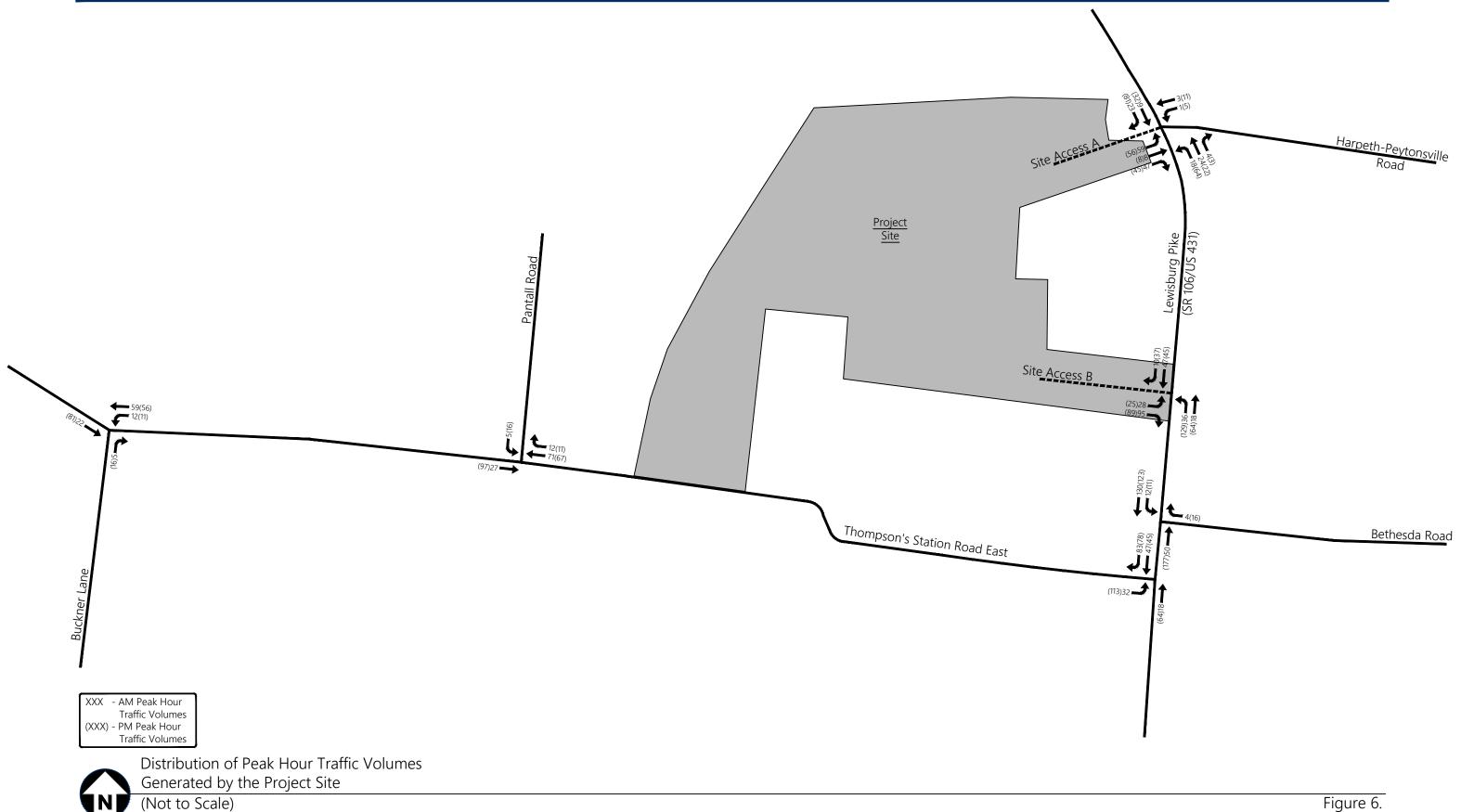
XX% - Enter (XX%) - Exit

Assignment of Peak Hour Traffic Volumes
Generated by the Project Site

(Not to Scale)

Figure 5.

Pleasant Creek - Traffic Impact Study September 2020



(Not to Scale)

4.3 Capacity / Level of Service Analyses

The total site-generated traffic volumes were added to the background peak hour traffic volumes for the proposed development in order to obtain the total projected traffic volumes for the study intersections. Figure 7 presents the total projected AM and PM peak hour traffic volumes expected at the completion of the proposed development.

Capacity analyses were performed in order to determine the impact of the project on the study intersections. These capacity analyses were also used to evaluate the need for roadway and traffic control improvements at the intersections studied. The capacity calculations were performed according to the methods outlined in the *Highway Capacity Manual*, TRB 2010. The results of the capacity analyses for the projected conditions at the study area intersections are presented in Tables 6A and 6B. For the analyses, the intersection configurations and signal timings were the same as the existing and background conditions.

Based on preliminary lane warrant analysis, the intersections with proposed site accesses are expected to operate as follows:

- Lewisburg Pike (SR 106/US 431) and Harpeth-Peytonsville Road/Site Access A
 - o The northbound approach of Lewisburg Pike (SR 106/US 431) should include one left-turn lane and one shared through/right-turn lane.
 - o The southbound approach of Lewisburg Pike (SR 106/US 431) should include one shared through/left-turn lane and one right-turn lane.
 - o The eastbound approach of Site Access A should be designed to include one ingress lane and three egress lanes. The egress lanes should include one left-turn lane, one through lane, and one right-turn lane.
 - The westbound approach of Harpeth-Peytonsville Road should include one shared lane for all movements.
- Lewisburg Pike (SR 106/US 431) and Site Access B
 - o The northbound approach of Lewisburg Pike (SR 106/US 431) should include one left-turn lane and one through lane.
 - o The southbound approach of Lewisburg Pike (SR 106/US 431) should include one through lane and one right-turn lane.
 - o The eastbound approach of Site Access B should be designed to include one ingress lane and two egress lanes. The egress lanes should include one left-turn lane and one right-turn lane.

As shown in Tables 6A and 6B, under projected conditions, the capacity analyses indicate that the operational performances of the critical movements at the study intersections are generally expected to continue to operate at the same level of service as under background conditions or continue to operate at LOS D or better in the AM and PM peak hours with the following exceptions:

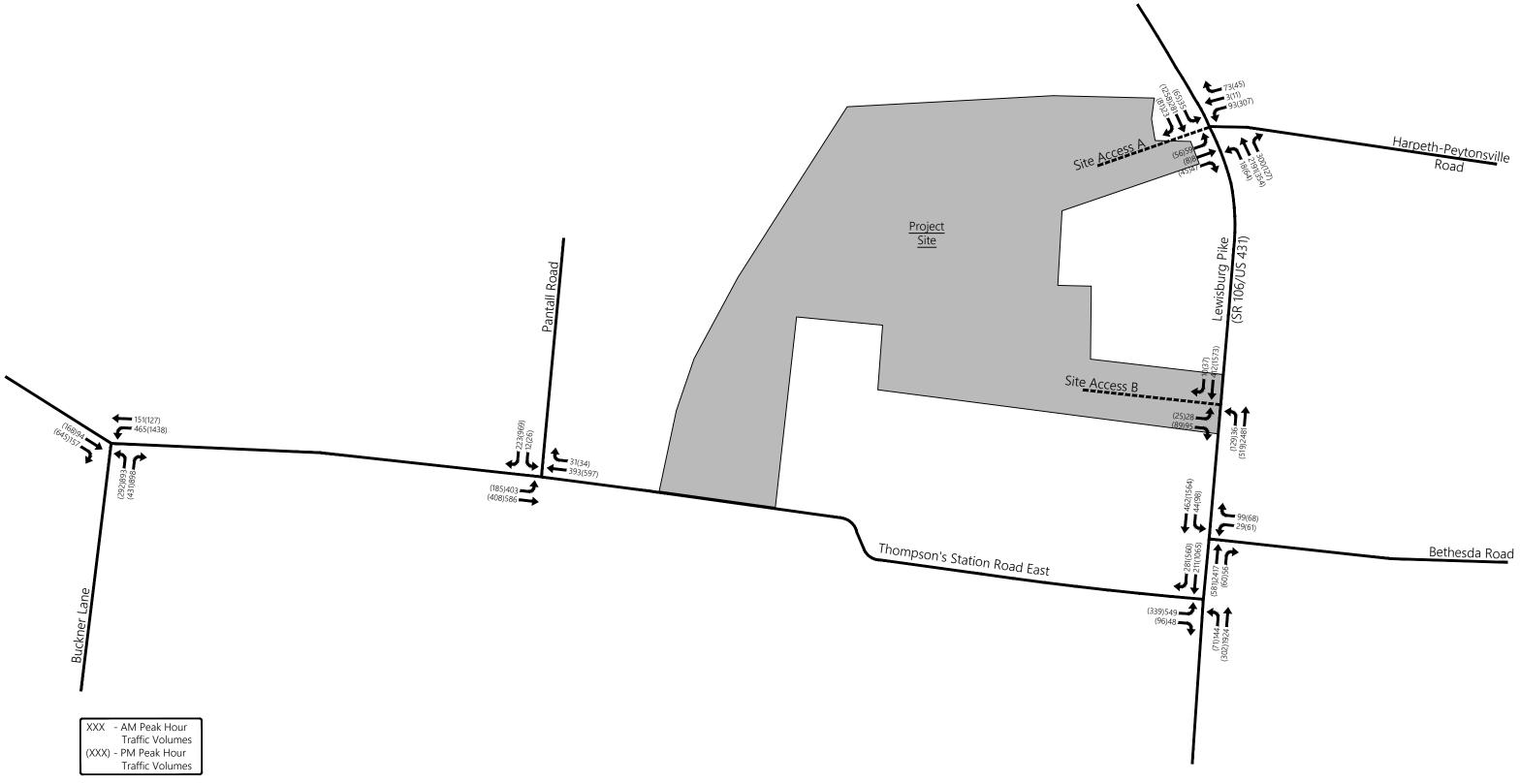
- Lewisburg Pike (SR 106/US 431) and Bethesda Road
 - The southbound left-turn movement is expected to deteriorate from LOS D to LOS E in the AM peak hour.
- Lewisburg Pike (SR 106/US 431) and Harpeth-Peytonsville Road/Site Access A
 - The eastbound shared through/left-turn lane is expected to operate at LOS F in the AM and PM peak hours.
- Thompson's Station Road East and Pantall Road
 - The southbound approach is expected to deteriorate from LOS C to LOS F in the AM peak hour.
- Lewisburg Pike (SR 106/US 431) and Site Access B
 - The eastbound left-turn movement is expected to operate at LOS F in the AM and PM peak hours.
 - o The eastbound right-turn movement is expected to operate at LOS F in the PM peak hour.

Additional analyses were conducted under a "projected with improvements" scenario to evaluate the benefits of adding the following roadway improvements:

- Lewisburg Pike (SR 106/US 431) and Harpeth-Peytonsville Road/Site Access A
 - o The intersection was assumed to be signalized with all approaches operating as permissive-only left-turn phasing. The signal was optimized for both cycle length and splits.

Capacity analyses results for the "projected with improvements" scenario are presented in bold in Tables 6A and 6B. Capacity analyses worksheets are included in Appendix D.

Pleasant Creek - Traffic Impact Study
September 2020



Total Projected Peak Hour Traffic Volumes

(Not to Scale)

Figure 7.

TABLE 6A. PROJECTED AM PEAK HOUR LEVELS OF SERVICE

INTERSECTION	TURNING	LEVEL OF SERVICE (Average Approach Delay in sec/veh)			
	MOVEMENT	EXISTING	BACKGROUND	PROJECTED	
Lewisburg Pike and Thompson's Station Road	Northbound Left-Turn	A (8.0)	A (8.6)	A (9.1)	
East	Eastbound Approach	F (>300)	F (>300)	F (>300)	
Lewisburg Pike and	Westbound Approach	F (259.8)	F (>300)	F (>300)	
Bethesda Road	Southbound Left-Turn	C (17.0)	D (33.4)	E (38.9)	
	Overall Intersection			F (249.8)	
	Northbound Left-Turn			A (8.0)	
Lewisburg Pike and	Eastbound Left-Turn			F (>300)	
Harpeth-Peytonsville Road/Site Access A	Eastbound Right-Turn			B (10.3)	
Troday Site / recess / r	Westbound Approach	F (>300)	F (>300)	F (>300)	
	Southbound Left-Turn	C (15.1)	D (26.1)	D (26.8)	
Thompson's Station Road East and Buckner Lane	Overall Intersection	F (111.2)	D (41.9)	D (42.0)	
Thompson's Station Road	Eastbound Left-Turn	A (8.5)	A (9.8)	B (10.4)	
East and Pantall Road	Southbound Approach	B (11.1)	C (23.2)	F (65.0)	
l il bil lai	Northbound Left-Turn			A (8.4)	
Lewisburg Pike and Site Access B	Eastbound Left-Turn			F (>300)	
Access b	Eastbound Right-Turn			B (12.1)	

Note: 1 - For stop-controlled intersections, a LOS is presented for each critical turning movement. For signalized intersections, a LOS is presented for the overall intersection.

'Projected with Improvements' Scenario Results

TABLE 6B. PROJECTED PM PEAK HOUR LEVELS OF SERVICE

INTERSECTION	TURNING	LEVEL OF SERVICE (Average Approach Delay in sec/veh)			
	MOVEMENT	EXISTING	BACKGROUND	PROJECTED	
Lewisburg Pike and	Northbound Left-Turn	B (11.1)	C (16.2)	C (18.0)	
Thompson's Station Road East	Eastbound Approach	F (102.3)	F (>300)	F (>300)	
Lewisburg Pike and	Westbound Approach	E (36.1)	F (>300)	C (16.2)	
Bethesda Road	Southbound Left-Turn	A (8.1)	A (8.7)	A (9.5)	
	Overall Intersection			E (71.2)	
	Northbound Left-Turn			B (14.1)	
Lewisburg Pike and	Eastbound Left-Turn			F (>300)	
Harpeth-Peytonsville Road/Site Access A	Eastbound Right-Turn			D (32.3)	
rioda, site riceess ri	Westbound Approach	F (299.8)	F (>300)	F (>300)	
	Southbound Left-Turn	A (7.9)	A (8.2)	A (8.3)	
Thompson's Station Road East and Buckner Lane	Overall Intersection	F (244.4)	F (118.5)	F (135.2)	
Thompson's Station Road	Eastbound Left-Turn	A (8.4)	A (9.6)	B (10.1)	
East and Pantall Road	Southbound Approach	F (84.3)	F (>300)	F (>300)	
D. 1. C.	Northbound Left-Turn			C (21.4)	
Lewisburg Pike and Site Access B	Eastbound Left-Turn			F (>300)	
Access D	Eastbound Right-Turn			F (122.4)	

Notes: 1 - For stop-controlled intersections, a LOS is presented for each critical turning movement. For signalized intersections, a LOS is presented for the overall intersection.

'Projected with Improvements' Scenario Results



4.4 Queue Length Analysis

95th percentile queue lengths for the critical movements of the study intersections that are expected to be impacted by the proposed development were also analyzed and evaluated under the projected conditions. Table 7 indicates the results of the queue length analyses for the study intersection.

TABLE 7. STUDY INTERSECTIONS 95TH PERCENTILE QUEUE LENGTH

INTERSECTION	TURNING	STORAGE	95 th PERCENTILE QUEUE LENGTH (FEET)										
INTERSECTION	MOVEMENT	LENGTH (FEET)	BACKG	ROUND	PROJECTED								
		(FEEI)	AM	PM	AM	PM							
Lewisburg Pike and Thompson's Station Road	Northbound Left-Turn		13′	18′	13′	20′							
East	Eastbound Approach		1910′	915′	2030′	1368′							
Lewisburg Pike and	Westbound Approach		430′	375′	455′	33′							
Bethesda Road	Southbound Left-Turn		20′	8′	30′	10′							
	Northbound Left-Turn	125′			0′ 8′	13′ #127′							
Lewisburg Pike and	Eastbound Left-Turn	125′			 113′	208′ 82′							
Harpeth-Peytonsville Road/Site Access A	Eastbound Right-Turn	125′			5′ 42′	28′ 34′							
	Westbound Approach		575′	1053′	628′	1260′							
	Southbound Left-Turn		18′	5′	18′	5′							
	Eastbound Right-Turn	200	23′	#771′	29′	#907′							
Thompson's Station Road	Westbound Left-Turn	300	#538'	#1552′	#601′	#1996′							
East and Buckner Lane	Northbound Left-Turn		#983'	#386′	#1050′	#450′							
	Northbound Right-Turn		197′	19′	283′	76′							
Thompson's Station Road	Eastbound Left-Turn		43′	20′	48′	20′							
East and Pantall Road	Southbound Approach	Southbound Approach		1915′	195′	2198′							
Dil Loi	Northbound Left-Turn	75			3′	45′							
Lewisburg Pike and Site Access B	Eastbound Left-Turn				120′	95′							
/ (CCC33 D	Eastbound Right-Turn				15′	128′							
# - 95 th percentile volume exce	eds capacity; queue may be lo	nger.				# - 95 th percentile volume exceeds capacity; queue may be longer.							

4.5 Signal Warrant Analysis

As noted in the capacity analysis, the intersection of Lewisburg Pike (SR 106/US 431) and Harpeth-Peytonsville Road/Site Access A is expected to operate at poor LOS under unsignalized projected conditions in the AM and PM peak hours:

A traffic signal should normally be installed at an intersection only when specific warrants are satisfied. Therefore, traffic signal warrant analyses were performed with available data for the intersections based on the anticipated traffic conditions at completion of the development.

The Manual on Uniform Traffic Control Devices (MUTCD) sets forth nine different warrants that have been developed by the traffic engineering profession to facilitate the determination of whether a signal is warranted. These warrants include minimum conditions that normally indicate when a traffic signal is justified at a particular location. The MUTCD states "traffic control signals should not be installed unless one or more of the signal warrants in the manual are met."

Although the MUTCD provides nine different warrants, only three of these are potentially applicable at the intersection under study. These three warrants, described in the MUTCD, are the volume-related signal warrants, which are described as follows:

WARRANT 1A, MINIMUM VEHICULAR VOLUME

The Minimum Vehicular Volume warrant is intended for application where the volume of intersecting traffic is the principal reason for consideration of signal installation. The warrant is satisfied when, for each of any eight hours of an average day, the traffic volumes given below in Table 8 exist on the major street and on the higher volume minor street approach to the intersection.

TABLE 8. MINIMUM VEHICULAR VOLUMES FOR WARRANT 1A

Number of lanes for moving traffic on each approach		Vehicles per hour on major street	Vehicles per hour on higher volume minor approach
Major Street	Minor Street	Total of Both Approaches	One Direction Only
1 Lane	1 Lane	500	150
2 Lanes or more	1 Lane	600	150
2 Lanes or more	2 Lanes or more	600	200
1 Lane	2 Lanes or more	500	200



When the 85th percentile speed of the major street traffic exceeds 40 mph in either an urban or a rural area, or when the intersection lies within the built-up area of an isolated community having a population of less than 10,000, the Minimum Vehicular Volume warrant is 70% of the requirements in Table 8. The speed limit on Lewisburg Pike (SR 106/US 431) is 55 mph; therefore, the intersection of Lewisburg Pike (SR 106/US 431) and Harpeth-Peytonsville Road/Site Access A does qualify for this reduction.

WARRANT 1B, INTERRUPTION OF CONTINUOUS TRAFFIC

The Interruption of Continuous Traffic warrant applies to operating conditions where the traffic volume on a major street is so heavy that traffic on a minor intersecting street suffers excessive delay or hazard when entering or crossing the major street. The warrant is satisfied when, for each of any eight hours of an average day, the traffic volumes given below in Table 9 exist on the major street and on the higher volume minor street approach to an intersection. In addition, the signal installation shall not seriously disrupt progressive traffic flow.

TABLE 9. MINIMUM VEHICULAR VOLUMES FOR WARRANT 1B

Number of lanes for moving traffic on each approach		Vehicles per hour on major street	Vehicles per hour on higher volume minor approach
Major Street	Minor Street	Total of Both Approaches	One Direction Only
1 Lane	1 Lane	750	75
2 Lanes or more	1 Lane	900	75
2 Lanes or more	2 Lanes or more	900	100
1 Lane	2 Lanes or more	750	100

When the 85th percentile speed of the major street traffic exceeds 40 mph in either an urban or a rural area, or when the intersection lies within the built-up area of an isolated community having a population of less than 10,000, the Minimum Vehicular Volume warrant is 70% of the requirements in Table 9. The speed limit on Lewisburg Pike (SR 106/US 431) is 55 mph; therefore, the intersection of Lewisburg Pike (SR 106/US 431) and Harpeth-Peytonsville Road/Site Access A does qualify for this reduction.

WARRANT 1C, COMBINATION WARRANT

In exceptional cases, traffic signals occasionally may be justified where no single warrant is satisfied but where Warrants 1A and 1B are satisfied to the extent of 80 percent or more of the stated values. This warrant is referred to as Warrant 1C (Combination Warrant).

When only peak hour data is collected, preliminary traffic signal warrant analyses can be based on estimates of the eighth highest hour of a typical day, based off the highest peak hour. The method for this estimation is described in the <u>Manual of Traffic Signal Design</u>, by Iris Fullerton and James H. Kell. This estimation procedure is based on the assumption that the eight highest hours will each exceed 6.25% of the ADT and that the peak hour traffic volume is approximately 10% of the ADT.

WARRANT 2, FOUR HOUR VOLUME

The Four Hour Volume warrant is satisfied when for each of any four high hours of an average day, the plotted points representing the vehicles per hour on the major street (total of both approaches) and the corresponding vehicles per hour on the higher volume minor street approach (one direction only) all fall above the curve in Figure 8 and Figure 9 for the appropriate combination of approach lanes. It should be noted that when the 85th percentile speed of the major street traffic exceeds 40 mph or when the intersection lies within a built-up area of an isolated community having a population less than 10,000, the peak hour volume requirements are reduced by 30%. Figure 8 shows the existing traffic volumes at the study intersection as applied to Warrant 2 thresholds, and Figure 9 shows the projected traffic volumes at the study intersections as applied to Warrant 2 thresholds.

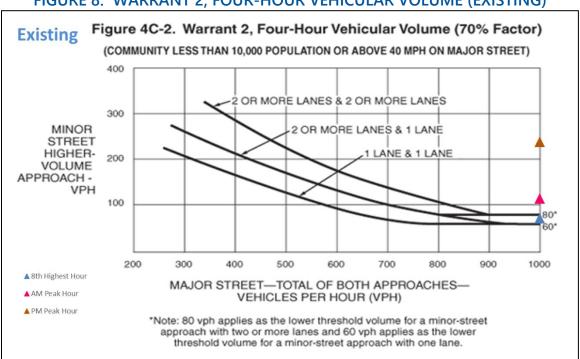


FIGURE 8. WARRANT 2, FOUR-HOUR VEHICULAR VOLUME (EXISTING)

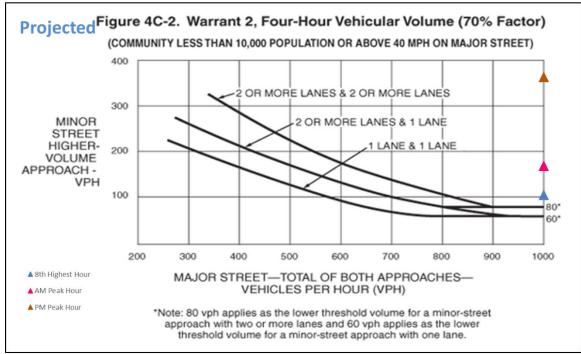


FIGURE 9. WARRANT 2, FOUR-HOUR VEHICULAR VOLUME (PROJECTED)

WARRANT 3, PEAK HOUR VOLUME

The Peak Hour Volume warrant is intended for application when traffic conditions are such that for one hour of the day, minor street traffic suffers undue traffic delay in entering or crossing the major street. The Peak Hour Volume warrant is satisfied when the plotted points representing the vehicles per hour on the major street (total of both approaches) and the corresponding vehicles per hour on the higher volume minor street approach (one direction only) for one hour (any four consecutive 15 minute periods) of an average day falls above the curve in Figure 10 and Figure 11 for the appropriate combination of approach lanes. It should be noted that when the 85th percentile speed of the major street traffic exceeds 40 mph or when the intersection lies within a built-up area of an isolated community having a population less than 10,000, the peak hour volume requirements are reduced by 30%. Figure 10 shows the existing traffic volumes at the study intersection as applied to Warrant 3 thresholds, and Figure 11 shows the projected traffic volumes at the study intersections as applied to Warrant 3 thresholds.

FIGURE 10. WARRANT 3, PEAK-HOUR VEHICULAR VOLUME (EXISTING)

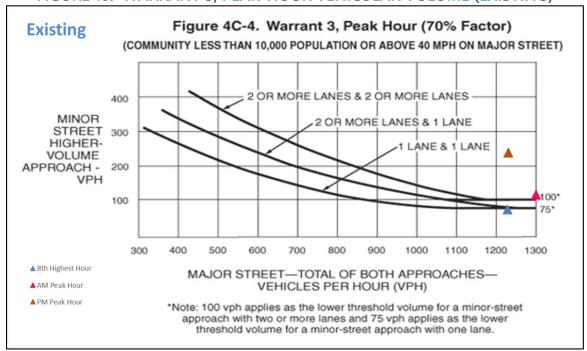
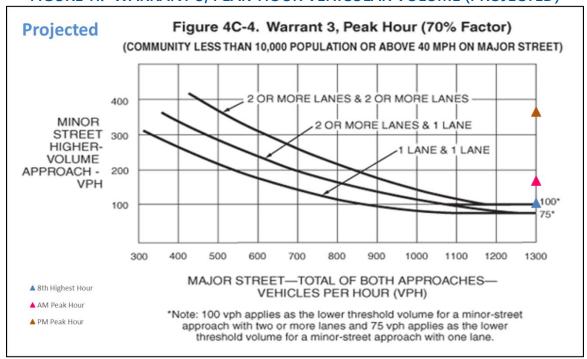


FIGURE 11. WARRANT 3, PEAK-HOUR VEHICULAR VOLUME (PROJECTED)



TRAFFIC SIGNAL WARRANT ANALYSIS RESULTS

Based on the geometry of the intersection, the analyses were performed based on one lane on the major street, Lewisburg Pike (SR 106/US 431), and one lane on the minor street (Harpeth-Peytonsville Road/Site Access A). The results of the warrant analyses indicated that under existing, background, and at the completion of the development, the traffic volumes at the intersection of Lewisburg Pike (SR 106/US 431) and Harpeth-Peytonsville Road/Site Access A will warrant a traffic signal.

Under existing and background conditions, the intersection is expected to meet Warrant 1B for the eighth highest hour, Warrant 2 in the AM and PM peak hours, and Warrant 3 in the AM and PM peak hours. Under projected conditions, the intersection is expected to meet Warrant 1A for the eighth highest hour, Warrant 1B for the eighth highest hour, Warrant 2 in the AM and PM peak hours, and Warrant 3 in the AM and PM peak hours. Results of the warrant analyses are shown in Table 10.

TABLE 10. TRAFFIC SIGNAL WARRANT ANALYSIS

	Hour	Main Street Both Directions	Minor Street Highest Approach	1A	1B	1C	2	3
	8 th Highest Hour	1228	72	No	Yes	n/a	n/a	n/a
Existing	AM Peak Hour	1965	115	n/a	n/a	n/a	Yes	Yes
	PM Peak Hour	1230	238	n/a	n/a	n/a	Yes	Yes
pu	8 th Highest Hour	1731	103	No	Yes	n/a	n/a	n/a
Background	AM Peak Hour	2770	165	n/a	n/a	n/a	Yes	Yes
Ba	PM Peak Hour	1747	347	n/a	n/a	n/a	Yes	Yes
ъ	8 th Highest Hour	1780	106	Yes	Yes	n/a	n/a	n/a
Projected	AM Peak Hour	2848	169	n/a	n/a	n/a	Yes	Yes
PI	PM Peak Hour	1949	363	n/a	n/a	n/a	Yes	Yes

5. ANALYSIS OF SITE PLAN

5.1 Site Access Review

According to the information provided by the developer, the proposed Pleasant Creek development includes approximately 327 single-family residential homes, 90 single-family townhomes, 5,500 square feet of retail, 2,000 square feet of fitness center, and 2,000 square feet of bank.

Access to the development is planned to be provided via two access drives, located along Lewisburg Pike (SR 106/US 431). The northern access will be provided via the new eastbound approach to the intersection of Lewisburg Pike (SR 106/US 431) and Harpeth Peytonsville Road. The southern access will be located approximately 1,100 feet north of the intersection of Lewisburg Pike (SR 106/US 431) and Bethesda Road.

5.2 Pedestrian, Bicycle, and Transit Access

No sidewalks, pedestrian infrastructure, bicycle facilities, or transit services are currently provided in the vicinity of the project site.

5.3 Sight Distance Analysis

Field investigation and sight distance measurements were conducted to determine if adequate sight distance is available for accessing the project site. For the 55 mph on Lewisburg Pike (SR 106/US 431), the guidelines from *A Policy on Geometric Design of Highways and Streets*, by the American Association of State Highway and Transportation Officials (AASHTO), call for a minimum stopping sight distance of 495 feet. These are the distances required for motorist to detect an object in the roadway necessitating a stop and be able to stop before reaching the object.

AASHTO also provides minimum design values for intersection sight distance which, allows enough time gap for a motorist to turn from Site Access A and Site Access B onto Lewisburg Pike (SR 106/US 431) without requiring motorists on Lewisburg Pike (SR 106/US 431) to significantly reduce speed. For a speed of 55 mph, the design value for intersection sight distance for a motorist turning from a stop is 530 feet for right-turns and 610 feet for left-turns. Therefore, it is desirable to provide a minimum of 530 feet looking north on Lewisburg Pike (SR 106/US 431) from Site Access A and Site Access B and 610 feet looking to the south on Lewisburg Pike (SR 106/US 431) from Site Access A and Site Access B. The design and available intersection sight distance for each of the site accesses are shown in Table 11.

TABLE 11. INTERSECTION SIGHT DISTANCE ANALYSIS

INTERSECTION	INTERSECTION SIGHT DISTANCE FOR LEFT- TURNS FROM STOP (FEET)		INTERSECTION SIGHT DISTANCE FOR RIGHT- TURNS FROM STOP (FEET)	
	DESIGN	AVAILABLE	DESIGN	AVAILABLE
Lewisburg Pike (SR 106/US 431) and Site Access A	610	610	530	600
Lewisburg Pike (SR 106/US 431) and Site Access B	610	610	530	600

The field investigations indicate that the existing sight distance available at the proposed intersections of Lewisburg Pike (SR 106/US 431) and Site Access A and Lewisburg Pike and Site Access B will be adequate for left-turns and right-turns onto Lewisburg Pike (SR 106/US 431).

5.4 Lane Warrant Analysis

The southbound approach of Lewisburg Pike (SR 106/US 431) at Site Access A was evaluated for the need to provide a right-turn lane based on the projected traffic volumes during the AM and PM peak hours. This analysis was based on the procedures outlined in the Intersection Channelization Design Guide (NCHRP 279). The results of the analysis indicate that a right-turn lane is warranted in the PM peak hour.

The northbound approach of Lewisburg Pike (SR 106/US 431) at Site Access A was evaluated for the need to provide a left-turn lane based on the projected traffic volumes during the AM and PM peak hours. This analysis was based on the procedures outlined in M.D. Harmelink's *Volume Warrants for Left-Turn Storage Lanes at Unsignalized Intersections*. The results of the analysis indicate that a left-turn lane is warranted in the AM and PM peak hours.

The eastbound approach of proposed Site Access A was evaluated for the need to provide a two-lane approach based on the projected traffic volumes during the AM and PM peak hours. According to *Evaluating Intersection Improvements: An Engineering Study Guide* (NCHRP 457) Figure 2-4, a two-lane approach is warranted for the eastbound approach of Site Access A during the AM and PM peak hours.

The southbound approach of Lewisburg Pike (SR 106/US 431) at Site Access B was evaluated for the need to provide a right-turn lane based on the projected traffic volumes during the AM and PM peak hours. This analysis was based on the procedures outlined in the Intersection Channelization Design Guide (NCHRP 279). The results of the analysis indicate that a right-turn lane is warranted in the PM peak hour.

The northbound approach of Lewisburg Pike (SR 106/US 431) at Site Access B was evaluated for the need to provide a left-turn lane based on the projected traffic volumes during the AM and PM peak hours. This analysis was based on the procedures outlined in M.D. Harmelink's *Volume Warrants for Left-Turn Storage Lanes at Unsignalized Intersections*. The results of the analysis indicate that a left-turn lane is warranted in the AM and PM peak hours.

The eastbound approach of proposed Site Access B was evaluated for the need to provide a two-lane approach based on the projected traffic volumes during the AM and PM peak hours. According to *Evaluating Intersection Improvements: An Engineering Study Guide* (NCHRP 457) Figure 2-4, a two-lane approach is warranted for the eastbound approach of Site Access B during the AM and PM peak hours.

All warrant analyses are included in Appendix I.

5.5 Evaluation of Off-Site Intersections

As described previously, off-site intersections that were analyzed for this study either currently experience poor LOS or will under background conditions. With the exception of the intersection of Thompson's Station Road East and Buckner Lane, each of these intersections has been evaluated and recommendations have been previously presented in the Town of Thompson's Station's *Major Thoroughfare Plan* or in the Town's *2015 Traffic Impact Study Comprehensive Update*. Also, as previously discussed the intersection of Thompson's Station Road East and Buckner Lane is planned to be realigned and improved as part of the proposed Alexander Property development in the city of Spring Hill. Descriptions of the recommendations for the remaining off-site intersections as presented in the Town of Thompson's Station's *Major Thoroughfare Plan* and the *2015 Traffic Impact Study Comprehensive Update* are discussed below:

Lewisburg Pike

Major Thoroughfare Plan Recommendations

"Expand existing route to 4-lane, median-divided facility to provide congestion relief and improve safety. 11' travel lanes and landscaped median to be provided in carriageway with pocket turn lanes at major intersections. Corridor would narrow to 2-lane section with turn lanes north of the I-840 interchange. The new road will include a greenway facility from T.S. Road East to Critz Lane. A curbless section with paved shoulders and drainage swales will be provided to maintain rural character."

2015 Traffic Impact Study Comprehensive Update Recommendations

"Signalize the intersection of Lewisburg Pike and Thompson's Station Road."

"Construct a northbound left turn lane with approximately 150 feet of storage at the intersection of Lewisburg Pike and Thompson's Station Road."

Thompson's Station Road East

Major Thoroughfare Plan Recommendation

"Conduct safety improvements by providing 11' travel lanes and 2' shoulders throughout as well as turn lanes at major intersections. The majority will be a 2-3 lane section, but limited portions between Clayton Arnold and Pantall Roads may consist of a 4-lane section to accommodate EB and WB turn lanes. The new road will include a greenway facility along some of its length. The project also presents an opportunity to realign several S-curves along the corridor pending further safety and right-of-way studies."

2015 Traffic Impact Study Comprehensive Update Recommendations

"Signalize the intersection of Buckner Lane and Thompson's Station Road."

"Construct a westbound left turn lane with approximately 150 feet of storage at the intersection of Thompson's Station Road and Buckner Lane."

"Construct a northbound right turn lane with approximately 150 feet of storage at the intersection of Buckner Lane and Thompson's Station Road."

"Construct an eastbound left turn lane with approximately 150 feet of storage at the intersection of Thompson's Station Road and Lewisburg Pike."

"Signalize the intersection of Thompson's Station Road and Pantall Road."

"Construct an eastbound left turn lane with approximately 150 feet of storage at the intersection of Thompson's Station Road and Pantall Road."

Pantall Road

Major Thoroughfare Plan Recommendation

"Conduct safety improvements along Pantall Road to provide 11' travel lanes and 2' shoulders throughout as well as turn lanes at major intersections."

Impact of Planned I-65 Interchange South of Thompson's Station Road

As previously mentioned, a new interchange with I-65 south of Thompson's Station Road is planned by TDOT and the City of Spring Hill. Included in this construction project is a new east/west road that will be an extension of Buckner Road and will travel between Buckner Lane and Lewisburg Pike and form an interchange with I-65. This new interchange will be completed by September 2025. With the completion of this interchange, traffic patterns in the area will change significantly. In particular, the interchange will provide a direct connection to I-65 from Buckner Road which is expected to reduce traffic on Thompson's Station Road, Buckner Lane, and Lewisburg Pike between Thompson's Station Road and I-840.

6. RECOMMENDATIONS

The proposed Pleasant Creek development is located on the north side of Thompson's Station Road East, east of I-65 in Thompson's Station, Tennessee. According to the developer, the proposed development includes approximately 327 single-family residential homes, 90 single-family townhomes, 5,500 square feet of retail, 2,000 square feet of fitness center, and 2,000 square feet of bank. Access to the project site is planned to be provided by two access drives, located along Lewisburg Pike (SR 106/US 431). The northern access will be provided via the new eastbound approach to the intersection of Lewisburg Pike (SR 106/US 431) and Harpeth Peytonsville Road. The southern access will be located approximately 1,100 feet north of the intersection of Lewisburg Pike (SR 106/US 431) and Bethesda Road. The analyses presented in this study indicate that the impacts of the proposed project on the existing street network will be manageable by providing the recommendations below. The recommendations are as follows:

Lewisburg Pike (SR 106/US 431) and Harpeth-Peytonsville Road/Site Access A

- Preliminary signal warrant analysis determined that a signal is warranted under existing conditions. However, these preliminary analyses were based on traffic projections made due to Covid-19 and not on actual counts representing traffic conditions without the impacts of Covid-19. Therefore, a full signal warrant analysis should be completed when traffic conditions have stabilized and prior to the completion of 35 lots within the Pleasant Creek development.
- Until a signal is installed, the eastbound approach of Site Access A should be stop-controlled, and a stop bar and R1-1 'Stop' sign should be installed on the egress approach.
- Site Access A should be designed to include sufficient width for one entering lane and three exiting lanes. The exiting approach should include one left-turn lane with a minimum of 125 feet of storage, one through lane, and one right-turn lane with a minimum of 125 feet of storage.
- Provide a northbound left-turn lane on Lewisburg Pike (SR 106/US 431) with a minimum of 150 feet of storage length.
- Provide a southbound right-turn lane on Lewisburg Pike (SR 106/US 431) with a minimum of 75 feet of storage length.

Lewisburg Pike (SR 106/US 431) and Site Access B

• The eastbound approach of Site Access B should be stop-controlled, and a stop bar and R1-1 'Stop' sign should be installed on the egress approach.

- Site Access B should be designed to include sufficient width for one entering lane and two exiting lanes. The exiting approach should include one left-turn lane and one right-turn lane.
- Provide a northbound left-turn lane on Lewisburg Pike (SR 106/US 431) with a minimum of 150 feet of storage length.
- Provide a southbound right-turn lane on Lewisburg Pike (SR 106/US 431) with a minimum of 75 feet of storage length.

Additional Recommendations

- As part of the construction of the project, all internal and external roadway connections should be designed such that the departure sight triangles, as specified by AASHTO, will be clear of all sight obstructions, including landscaping, existing vegetation, monument signs/walls, fences, etc.
- Final design of internal roadways and parking should meet all Town of Thompson's Station standards. Internal intersections should be two-way stopcontrolled unless all-way stop control warrants are met.

In summary, based on the analyses conducted, no further recommendations are presented for the proposed Pleasant Creek development.

APPENDICES

APPENDIX A
PRELIMINARY SITE PLAN

APPENDIX B
DETAILED TURNING MOVEMENT COUNTS

APPENDIX C
TDOT COUNT DATA

APPENDIX D
CAPACITY ANALYSES

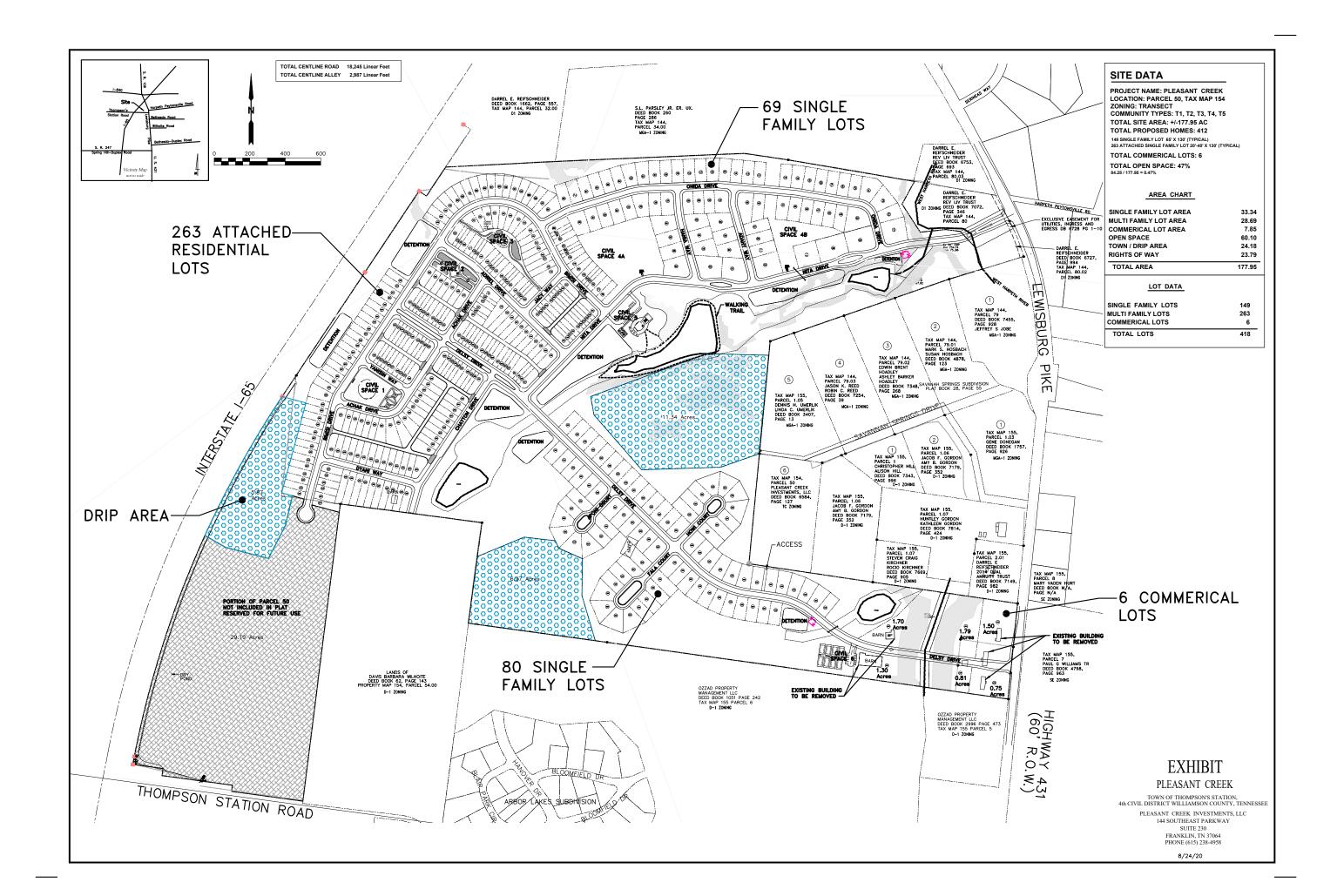
APPENDIX E
BACKGROUND DEVELOPMENTS

APPENDIX F
TRIP GENERATION CALCULATIONS

APPENDIX G
WARRANT ANALYSIS

APPENDIX A PRELIMINARY SITE PLAN





APPENDIX B DETAILED TURNING MOVEMENT COUNTS





INTERSECTION TRAFFIC VOLUME COUNTS

1 - Lewisburg Hwy & Thompson Station Rd East 7/21/2020 Darryl Glascock

LOCATION: DATE: RECORDER: NOTES:

168
320
509
670
657
644
580
542
387
248
123

Time			outhbour		Northbound			Westbound			Eastbound		
6:00-615 AM	LOCATION												
6:15-8:30 6:30-8:45 6:45-7:00 7:00-7:15 2:6 8:8 10 94 7:15-7:30 20 7:14 97 7:15-7:30 30 15 17 7:45-8:00 26 9 9 0 93 15 17 7:45-8:00 26 9 9 0 93 11 11 17 17 6 8:80-8:15 33 10 4 92 13 3:15-8:30 30 14 8 633 11 17 17 6 8:80-8:15 33 10 4 92 13 3:15-8:30 30 14 8 633 11 17 17 6 8 8:30-8:45 28 8 8:45-9:00 35 18 6 47 11 14 3 3 9:00-9:15 9:15 9:15 9:15 9:15 9:15 9:15 9:15		-1		3	4	3	ь		8	9	10	11	12
6-30-6-45						1							
6.457-00													
7:157-30													
7:30-745 38 15 17 97 1 1 17 4 8 800-815 33 10 4 92 1 13 3 3 3 8 800-815 33 10 4 92 1 13 3 3 3 3 8 8 8 8 8	7:00-7:15		26	8	10	94					21		9
T458-90	7:15-7:30		20	7	14	97					11		3
8:00-8:15 33 10 4 92 13 3 3 3 8:15-8:30 30 14 8 63 1								1					
8:158-30													
8459-00								_					
8.45-9.00								1					
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LOCATION

TIME 6:00-6:15 AM 6:15-6:30

6:30-6:45

6:45-7:00

INTERSECTION TRAFFIC VOLUME COUNTS

Northbound

Road B

North

Southbound

Road A

LOCATION: 2 Lewisburg Hwy & Bethesda

DATE: RECORDER:

7/21/2020 Darryl Glascock

Westbound

Road C

NOTES:

Eastbound Road D

162 315 672

7:00-7:15 30 115 13 7:15-7:30 6 104 4 2 12 25 7:30-7:45 5 48 113 29 5 7:45-8:00 3 32 109 3 3 6 8:00-8:15 9 40 104 12 8:15-8:30 4 40 79 11 8:30-8:45 9 35 77 6 19 8 48 61 12 8:45-9:00 9:00-9:15 9:15-9:30 9:30-9:45 9:45-10:00 10:00-10:15 10:15-10:30 10:30-10:45 10:45-11:00 11:00-11:15 11:15-11:30 11:30-11:45 11:45-12:00 PM 12:00-12:15 12:15-12:30 12:30-12:45 12:45-1:00 1:00-1:15 1:15-1:30 1:30-1:45 1:45-2:00 2:00-2:15 2:15-2:30 2:30-2:45 2:45-3:00 3:00-3:15 3:15-3:30 3:30-3:45 3:45-4:00 4:00-4:15 15 120 50 3 4:15-4:30 12 116 56 3 10 4:30-4:45 22 120 42 11 6 11 4:45-5:00 9 145 54 6 8 5:00-5:15 16 108 56 4 5 7 5:15-5:30 12 150 46 6 3 8 23 124 5:30-5:45 36 3 2 8 11 100 34 7 4 5:45-6:00 1 6:00-6:15 6:15-6:30 6:30-6:45 6:45-7:00 7:00-7:15 7:15-7:30 7:30-7:45 7:45-8:00 8:00-8:15 8:15-8:30 8:30-8:45 8:45-9:00 9:00-9:15 9:15-9:30 9:30-9:45 9:45-10:00 PM TOTAL 166 1,281 1,136 51 174 65 AM PK HR 145 9 11 23 430 59 MID PK HR PM PK HR 523 198 18 34

7:15 AM - 8:15 AM

4:30 PM - 5:30 PM



North



3 Lewsiburg Hwy & Harpeth Peytonsville 7/21/2020 Darryl Glascock LOCATION:

DATE: RECORDER:

NOTES:

174
341
530
693
692
671
644
619
446

300 138

	5	Southboun	d	Northbound				Westbound		Eastbound		
LOCATION		Lewisburg			Lewisburg		Harp	eth Peytons		na		
TIME	1	2	3	4	5	6	7	8	9	10	11	12
6:00-6:15 AM												
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6:45-7:00												
7:00-7:15	4	27			103	23	8		9			
7:15-7:30	6	24			104	18	7		8			
7:30-7:45	6	38			115	16	9		5			
7:45-8:00	10	27			97	16	6		7			
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4:45-5:00	10	123			44	15	24		10			
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8:45-9:00												
9:00-9:15 9:15-9:30												
9:30-9:45												
9:45-10:00 PM												
TOTAL	95	1,195			1,083	210	238		116			
AM PK HR	25	129			416	64	31		27			
MID PK HR	07	400			400	40	0.5		20			
PM PK HR	37	482			180	49	95	l .	32			

210





INTERSECTION TRAFFIC VOLUME COUNTS

4 Buckner Rd & Thompson Station East 7/21/2020 Darryl Glascock LOCATION:

DATE: RECORDER:

NOTES:

13
30
52
70
74
73
69
68
51
34
16

	Southbound		N	lorthbour	nd		Westbound		Eastbound			
LOCATION		NA			Buckner			mpson Stati		Thompson Station E		
TIME	1	2	3	4	5	6	7	8	9	10	11	12
6:00-6:15 AM 6:15-6:30												
6:30-6:45												
6:45-7:00												
7:00-7:15				22		79	11	6			5	8
7:15-7:30				48		77	5	12			22	10
7:30-7:45				54		106	30	19			3	10
7:45-8:00				35		67	28	20			9	18
8:00-8:15 8:15-8:30				27 40		71 81	31 28	10 8			11 2	17 11
8:30-8:45				37		79	26	11			7	17
8:45-9:00				32		64	34	9			6	21
9:00-9:15												
9:15-9:30												
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4:00-4:15				17		50	95	9			14	52
4:15-4:30				15		36	107	9			14	44
4:30-4:45				12		39	136	15			13	47
4:45-5:00				17		40	125	7			12	62
5:00-5:15				25		37	113	5			11	57
5:15-5:30				17		43	155	8			7	76
5:30-5:45 5:45-6:00				19 16		31 37	114 93	6 10			15 12	61 43
6:00-6:15				10		31	33	10			12	73
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6:30-6:45			_									
6:45-7:00												
7:00-7:15												
7:15-7:30 7:30-7:45												
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9:00-9:15												
9:15-9:30												
9:30-9:45 9:45-10:00 PM												
70TAL				433		937	1,131	164			163	554
AM PK HR				164		321	94	61			45	55
MID PK HR			_									
PM PK HR				71		159	529	35			43	242





LOCATION:

Thompson Station E & Pantail Rd 7/21/2020 Darryl Glascock

North

DATE: RECORDER: NOTES:

TIME		•	outhboun	nd	N	orthbour	nd		Westbound	Eastbound			
TIME 1 2 3 4 5 6 7 8 9 10 11 12 S00-0-15 AM	LOCATION						iu						
6:00-6:15 AM 6:15 6:30 6:30 6:45 6:45 7:00 6:30 6:45 6:45 7:00 7:00-7:15 1 1:11 1:13 1:3 2 66 21 7:70-7:15 1:11 1:13 1:3 2 66 21 7:70-7:15 1:11 1:13 1:3 2 66 21 7:70-7:15 1:11 1:13 1:3 2 66 21 7:70-7:15 1:11 1:13 1:3 2 66 21 1:77 7:30-7:46 1:19 1:10 1:10 1:10 1:10 1:10 1:10 1:10					4		6						
6:15-8:30 6:45-7:00 7:40-7:15 1	6:00-6:15 AM												
6.45-700 700-715	6:15-6:30												
T-00-71-5	6:30-6:45												
7:15-730	6:45-7:00												
7:30-745 1 9 9 28 1 91 17 745-800 2 24 166 2 56 18 800-815 10 20 17 17 1 63 14 81-815-830 16 19 9 64 17 1 1 63 14 81-815-830 16 19 9 64 17 1 1 63 14 81-815-830 17 16 19 9 64 17 19 81-815-830 17 19 9 14 14 67 19 81-815-815-815-815-815-815-815-815-815-8		1								2			
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8.39.845 19 14 67 7 19 9.09.915 9.09.915 9.39.945										1			
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10.30.10.45													
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2:00-2:15 2:15-2:30 2:30-2:45 2:45-3:00 3:00-3:15 3:30-3:45 3:45-4:00 4:00-4:15 2 87 4:00-4:15 2 87 4:10-4:30 3 95 4:15-4:30 3 95 4:15-4:30 3 1 95 4:45-5:00 1 103 3 3 3 28 20 5:00-5:15 2 99 2 77 2 8 18 5:15-5:30 1 118 3 35 1 32 19 5:30-5:45 1 85 3 44 1 11 9 5:30-5:45 1 85 3 44 1 11 9 6:15-6:30 6:00-6:15 6:15-6:30 6:00-6:15 6:15-6:30 6:30-6:45 6:45-7:00 7:00-7:15 7:15-7:30 7:30-7:45 7:45-8:00 8:30-8:45 8:15-8:30 8:30-8:45 8:15-8:30 8:30-8:45 8:30-8:45 8:15-8:30 8:30-8:45 8:15-8:30 8:30-8:45 8:15-8:30 8:30-8:45 8:15-8:30 8:30-8:45 8:15-8:30 8:30-8:45 8:15-8:30 8:30-8:45 8:15-8:30 8:30-8:45 8													
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6:15-6:30 6:30-6:45 6:45-7:00 7:00-7:15 7:15-7:30 7:30-7:45 7:45-8:00 8:00-8:15 8:15-8:30 8:30-8:45 8:45-9:00 9:00-9:15 9:00-9:15 9:30-9:45 9:45-10:00 PM TOTAL 17 922 372 13 736 297 AMPKHR 1 82 777 4 273 66													
6:45-7:00 7:00-7:15 7:15-7:30 7:30-7:45 7:35-8:00 8:00-8:15 8:15-8:30 8:30-8:45 8:45-9:00 9:00-9:15 9:15-9:30 9:30-9:45 9:45-10:00 PM TOTAL 17 922 372 13 736 297 AMPKHR 1 82 77 4 273 66	6:15-6:30												
7:00-7:15 7:15-7:30 7:30-7:45 7:45-8:00 8:00-8:15 8:15-8:30 8:30-8:45 8:45-9:00 9:00-9:15 9:15-9:30 9:30-9:45 9:45-10:00 PM TOTAL 17 922 372 13 736 297 AM PK HR 1 82 77 4 273 66													
7:15-7:30 7:30-7:45 7:45-8:00 8:00-8:15 8:15-8:30 8:30-8:45 8:45-9:00 9:00-9:15 9:15-9:30 9:30-9:45 9:45-10:00 PM TOTAL 17 922 372 13 736 297 AM PK HR 1 82 77 4 273 66													
7:30-7:45 7:45-8:00 8:00-8:15 8:00-8:15 8:30-8:45 8:45-9:00 9:00-9:15 9:15-9:30 9:30-9:45 9:45-10:00 PM TOTAL 17 922 372 13 736 297 AM PK HR 1 82 77 4 273 66													
7:45-8:00 8:00-8:15 8:15-8:30 8:30-8:45 8:45-9:00 9:09-9:15 9:15-9:30 9:30-9:45 9:45-10:00 PM TOTAL 17 922 AMPKHR 1 82 777 4 273 66 MID PK HR													
8:00-8:15 8:15-8:30 8:30-8:45 8:45-9:00 9:00-9:15 9:15-9:30 9:30-9:45 9:45-10:00 PM TOTAL 17 922 AMPKHR 1 82 777 4 273 66 MID PK HR													
8:15-8:30 8:30-8:45 8:45-9:00 9:00-9:15 9:15-9:30 9:30-9:45 9:45-10:00 PM TOTAL 17 922 372 13 736 297 AM PK HR 1 82 777 4 273 66 MID PK HR													
8:30-8:45 8:45-9:00 9:00-9:15 9:05-9:30 9:30-9:45 9:45-10:00 PM TOTAL 17 922 372 13 736 297 AM PK HR 1 82 77 4 273 66 MID PK HR		1						1		1	1		
8:45-9:00 9:00-9:15 9:15-9:30 9:30-9:45 9:45-10:00 PM TOTAL 17 922 372 13 736 297 AM PK HR 1 82 77 4 273 66 MID PK HR											1		
9:00-9:15 9:15-9:30 9:30-9:45 9:45-10:00 PM TOTAL 17 922 372 13 736 297 AM PK HR 1 82 77 4 273 66 MID PK HR								1		1			
9:15-9:30 9:30-9:45 9:45-10:00 PM TOTAL 17 922 372 13 736 297 AM PK HR 1 82 777 4 273 66 MID PK HR													
9:30-9:45 9:45-10:00 PM TOTAL 17 922 372 13 736 297 AM PK HR 1 82 77 4 273 66 MID PK HR													
9:45-10:00 PM 372 13 736 297 TOTAL 17 922 372 13 736 297 AM PK HR 1 82 77 4 273 66 MID PK HR													
AM PK HR 1 82 77 4 273 66 MID PK HR													
MID PK HR		17		922					372	13	736	297	
		1		82					77	4	273	66	
	MID PK HR PM PK HR	5		426					123	1	110	75	

119





INTERSECTION TRAFFIC VOLUME COUNTS

LOCATION: Lewisburg Hwy & Thompson Station Rd

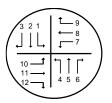
DATE: RECORDER: 4/28/2015 Darryl Glascock

25-35 cars in que eastbound Thompson station rd from 6:15am until 7:45 am at during and at end of each 15 min sequence. Intersection not signalized. NOTES:

					l = =4 l= l= =				nin sequer	ence. Intersection not signalized Eastbound			
LOCATION		outhbour wisburg F			lorthbour wisburg F			Westbound		Thompson Station Rd			
TIME	1	2	3 3	4	5	6 6	7	8	9	10	11	12	
6:00-6:15 AM	-		3	4			<i>'</i>		3	10	- ''	12	
6:15-6:30													
6:30-6:45		8	17	13	253					63			
6:45-7:00		21	30	15	228					65			
7:00-7:15		21	36	16	218					56		3	
7:15-7:30		22	12	11	234					60		4	
7:30-7:45		29	8	5	168					74		4	
7:45-8:00		4	19	6	138					47		7	
8:00-8:15 8:15-8:30		25 40	18 45	10 6	101 86					82 62		11 2	
8:30-8:45		40	45	0	00					02			
8:45-9:00													
9:00-9:15													
9:15-9:30													
9:30-9:45													
9:45-10:00													
10:00-10:15													
10:15-10:30 10:30-10:45													
10:30-10:45							1						
11:00-11:15													
11:15-11:30													
11:30-11:45													
11:45-12:00 PM													
12:00-12:15													
12:15-12:30													
12:30-12:45													
12:45-1:00 1:00-1:15													
1:15-1:30													
1:30-1:45													
1:45-2:00													
2:00-2:15													
2:15-2:30													
2:30-2:45													
2:45-3:00													
3:00-3:15 3:15-3:30													
3:30-3:45													
3:45-4:00													
4:00-4:15		93	25	5	42					19		9	
4:15-4:30		99	58	1	45					27		10	
4:30-4:45		113	45	3	29					18		11	
4:45-5:00		102	54	5	25					28		8	
5:00-5:15		120	38	7	30					28		12	
5:15-5:30 5:30-5:45		146 138	43 75	5 3	31 30					29 20		7 11	
5:45-6:00		101	67	1	24					19		5	
6:00-6:15			, , , , , , , , , , , , , , , , , , ,	•									
6:15-6:30													
6:30-6:45													
6:45-7:00													
7:00-7:15													
7:15-7:30													
7:30-7:45 7:45-8:00													
8:00-8:15													
8:15-8:30							1						
8:30-8:45							1						
8:45-9:00													
9:00-9:15													
9:15-9:30													
9:30-9:45													
9:45-10:00 PM		1.000	E00	110	1.000					607		101	
TOTAL AM PK HR		1,082 72	590 95	112 55	1,682 933	-	1		-	697 244		104 7	
MID PK HR		12	90	JO	ಶಾತಿ					244		- 1	
PM PK HR		505	223	16	115		1			96		35	

713 1,063 1,406 1,340 1,202 1,099 997 709 488 241

6:30 AM - 7:30 AM 5:00 PM - 6:00 PM



12

6

5:30-5:45

5:45-6:00

6:00-6:15 6:15-6:30 6:30-6:45 6:45-7:00 7:00-7:15 7:15-7:30 7:30-7:45 7:45-8:00 8:00-8:15 8:15-8:30 174

142

LOCATION TIME

6:00-6:15 AM

Southbound

Lewisburg Pike



Westbound

8

LOCATION: Lewisburg Pike & Harpeth Peytonsville Road **DATE:** 4/28/2015

Harpeth Peytonsville Road Harpeth Peytonsville Road

10

9

Eastbound

11

12

DATE: 4/28/2015 RECORDER: Zack Murphy

North NOTES:

Northbound

Lewisburg Pike

0.00 0.10 / 1111									
6:15-6:30									
6:30-6:45	2	22		313	26	7	10		
6:45-7:00	7	32		270	40	22	5		
7:00-7:15	1	40		250	44	11	7		
7:15-7:30	2	36		267	36	3	15		
7:30-7:45	7	30		194	51	6	9		
7:45-8:00	31	18		120	70	13	8		
8:00-8:15	13	47		76	75	9	2	Į.	
8:15-8:30	1	64		143	28	10	2	Į.	
8:30-8:45								Į.	
8:45-9:00								Į.	
9:00-9:15									
9:15-9:30									
9:30-9:45									
9:45-10:00									
10:00-10:15									
10:15-10:30									
10:30-10:45									
10:45-11:00									
11:00-11:15									
11:15-11:30									
11:30-11:45									
11:45-12:00 PM									
12:00-12:15									
12:15-12:30									
12:30-12:45									
12:45-1:00									
1:00-1:15									
1:15-1:30									
1:30-1:45									
1:45-2:00									
2:00-2:15									
2:15-2:30									
2:30-2:45									
2:45-3:00									
3:00-3:15									
3:15-3:30									
3:30-3:45									
3:45-4:00									
4:00-4:15	12	107		63	9	21	3		
4:15-4:30	7	136		59	13	27	3		
4:30-4:45	7	147		43	12	28	4		
4:45-5:00	2	118		60	7	31	4		
5:00-5:15	9	137		49	18	30	5		
5:15-5:30	6	167		44	14	30	5		

41

32

15

11

48

39

8

5

756 1,109 1,468 1,385 1,269 1,138 1,027 730 470 248

8:30-8:45									
8:45-9:00									
9:00-9:15									
9:15-9:30									
9:30-9:45									
9:45-10:00 PM									
TOTAL	125	1,417		2,024	469	335	95		
AM PK HR	12	130		1,100	146	43	37		
MID PK HR									
PM PK HR	33	620		166	58	147	23	·	

6:30 AM - 7:30 AM 5:00 PM - 6:00 PM





LOCATION: Pantall Rd & Thompson Station Rd DATE: 04/29/2015 RECORDER: Nathan Quinn

INTERSECTION TRAFFIC VOLUME COUNTS

NOTES:

	Southbound		Northbound				Westbound		Eastbound			
LOCATION		Pantall Ro		-	iortinbour	iu		npson Statio		Thompson Station Rd		
TIME	1	2	3	4	5	6	7	8	9	10	11	12
6:00-6:15 AM												
6:15-6:30												
6:30-6:45	1		9					20		37	37	
6:45-7:00			43					42	1	30	35	
7:00-7:15 7:15-7:30			26 14					38 16	3	53 69	49 48	
7:30-7:45			2					11	3	62	28	
7:45-8:00	3		11					11	1	54	34	
8:00-8:15	2		8					13		51	46	
8:15-8:30	2		13					18	1	56	34	
8:30-8:45												
8:45-9:00												
9:00-9:15												
9:15-9:30 9:30-9:45												
9:45-10:00												
10:00-10:15												
10:15-10:30												
10:30-10:45												
10:45-11:00												
11:00-11:15												
11:15-11:30												
11:30-11:45 11:45-12:00 PM												
12:00-12:15												
12:15-12:30												
12:30-12:45												
12:45-1:00												
1:00-1:15												
1:15-1:30												
1:30-1:45												
1:45-2:00 2:00-2:15												
2:15-2:30												
2:30-2:45												
2:45-3:00												
3:00-3:15												
3:15-3:30												
3:30-3:45												
3:45-4:00								24		44	40	
4:00-4:15 4:15-4:30	2		53 102					34 30	1	11 20	19 24	
4:30-4:45	1		107					41	1	18	34	
4:45-5:00			71					50	1	27	30	
5:00-5:15	1		127					60	6	18	22	
5:15-5:30	1		114					54	1	23	30	
5:30-5:45			116					60		21	29	
5:45-6:00			116					59	2	15	28	
6:00-6:15 6:15-6:30				-								—
6:30-6:45												
6:45-7:00												
7:00-7:15												
7:15-7:30												
7:30-7:45												
7:45-8:00												
8:00-8:15	ļ	1				-				ļ		
8:15-8:30 8:30-8:45				-								—
8:45-9:00		 		l			-					
9:00-9:15												
9:15-9:30												
9:30-9:45												
9:45-10:00 PM												
TOTAL	13		932					557	25	565	527	
AM PK HR	1		92					116	8	189	169	
MID PK HR	_	1	470	1		-	-	222		77	100	
PM PK HR	2		473			ı		233	9	77	109	1

255 424 575

6:30 AM - 7:30 AM 5:00 PM - 6:00 PM



PM PK HR



INTERSECTION TRAFFIC VOLUME COUNTS

LOCATION: Buckner Lane & Thompson Station Road DATE: 04/30/2015
RECORDER: Nathan Quinn
NOTES:

	S	Southbound			Northbour			Westbound		Eastbound		
LOCATION					Buckner L			npson Stati			pson Stat	
TIME	1	2	3	4	5	6	7	8	9	10	11	12
6:00-6:15 AM												
6:15-6:30												
6:30-6:45				92		71	20	12			3	9
6:45-7:00				93		74	85	14				15
7:00-7:15				99		112	64	6			1	17
7:15-7:30				130		128	42	6			6	17
7:30-7:45				95		108	30	9			3	14
7:45-8:00				46		91	31	6			3	11
8:00-8:15				48		109	22	6			4	11
8:15-8:30				46		103	19	10			7	11
8:30-8:45												
8:45-9:00												
9:00-9:15												
9:15-9:30												
9:30-9:45												
9:45-10:00												
10:00-10:15												
10:15-10:30												
10:30-10:45												
10:45-11:00												
11:00-11:15												
11:15-11:30												
11:30-11:45												
11:45-12:00 PM												
12:00-12:15												
12:15-12:30												
12:30-12:45												
12:45-1:00												
1:00-1:15												
1:15-1:30												
1:30-1:45												
1:45-2:00												
2:00-2:15												
2:15-2:30												
2:30-2:45												
2:45-3:00												
3:00-3:15												
3:15-3:30												
3:30-3:45				1								
3:45-4:00				1								
4:00-4:15				20		37	105	2			9	52
4:15-4:30				14		33	114	10			6	50
4:30-4:45				22		44	149	4			14	52
4:45-5:00		-		19	<u> </u>	35	162	13	<u> </u>	1	6	62
5:00-5:15				25		26	132	11			6	73
5:15-5:30				31		43	160	13			11	57
5:30-5:45				20		45	165	5			11	69
5:45-6:00				21		28	194	4			7	65
6:00-6:15				21		20	194	4				00
		1	-	1	1			1	1	1		-
6:15-6:30		-		1	-				-	 		
6:30-6:45		1	-	1	1				1	!		1
6:45-7:00												
7:00-7:15												
7:15-7:30												
7:30-7:45												
7:45-8:00												
8:00-8:15				1	<u> </u>				<u> </u>			
8:15-8:30		ļ		1	ļ				ļ	.		
8:30-8:45		ļ		1	ļ				ļ	.		
8:45-9:00												
9:00-9:15												
9:15-9:30												
9:30-9:45												
9:45-10:00 PM												
TOTAL				821		1,087	1,494	131			97	585
AM PK HR				414		385	211	38			10	58
MID PK HR												
DM DV UD												

97

142 651

33

225 452 737 1,034 1,082 1,170 1,200 1,222 949 634

6:30 AM - 7:30 AM 5:00 PM - 6:00 PM

35 264

APPENDIX C TDOT COUNT DATA



		TDOT AADT DA	TA			
Station	65	66	64	93		
Route	SR106	1928	996	980		
Location	Lewisburg Pike - E of I-65 - B/W Cascade Eastates	Thompson's Station Road East - W of I-65 - B/W	Bethesda Road - E of Lewisburg Pk - B/W	Harpeth-Peytonsville Road - E of Lewisburg Pk -		
Location	Blvd and Wilhoite Rd	Columbia Pk and Village	3	B/W Dotson Rd and		
Country	Milliamana	Dr	Wv W/III.amaan	Herbert Smithson Rd		
County	Williamson	Williamson	Williamson	Williamson		
2018	6,188	4,009	2,062	1,608		
2017	6,714	2,824	1,116	1,677		
2016	4,914	2,693	1,252	1,288		
2015	5,087	2,666	1,229	1,419		
2014	4,948	2,659	1,515	1,206		
2013	4,899	2,404	1,500	1,210		
2012	4,906	3,019	1,595	1,269		
2011	4,767	2,634	1,325	1,231		
2010	4,780	2,557	1,525	1,195		
2009	4,817	2,590	1,709	1,163		
2008	5,168	2,279	1,669	1,194		
2007	5,021	3,720	1,844	1,230		
2006	4,992	2,571	1,923	1,293		

APPENDIX D CAPACITY ANALYSES



EXISTING CONDITIONS CAPACITY ANALYSES

Intersection						
Int Delay, s/veh	662.6					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	¥	LDIN	INDL	4	\$	ODIT
Traffic Vol, veh/h	355	18	94	1359	117	133
Future Vol, veh/h	355	18	94	1359	117	133
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	Stop -	None	riee -	None	riee -	None
Storage Length	0	NOTIE	-	-	-	None -
Veh in Median Storage				0	0	
			-		_	-
Grade, %	0	- 02	- 02	0	0	- 02
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	386	20	102	1477	127	145
Major/Minor	Minor2		Major1	N	//ajor2	
Conflicting Flow All	1881	200	272	0	- -	0
Stage 1	200	200	212	-		-
Stage 2	1681	_	_	_	_	_
Critical Hdwy	6.42	6.22	4.12	-		
	5.42	0.22	4.12			
Critical Hdwy Stg 1	5.42		_	-	-	-
Critical Hdwy Stg 2		2 240	- 0.40	-	-	-
Follow-up Hdwy		3.318		-	-	-
Pot Cap-1 Maneuver	~ 78	841	1291	-	-	-
Stage 1	834	-	-	-	-	-
Stage 2	~ 166	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	~ 44	841	1291	-	-	-
Mov Cap-2 Maneuver	~ 44	-	-	-	-	-
Stage 1	466	-	-	-	-	-
Stage 2	~ 166	-	-	-	-	-
Annroach	ED		ND		CD	
Approach	EB		NB		SB	
HCM Control Delay, \$			0.5		0	
HCM LOS	F					
Minor Lane/Major Mvm	nt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)		1291	-	46		
HCM Lane V/C Ratio		0.079		8.814	_	_
HCM Control Delay (s)		8		3685.6	_	
HCM Lane LOS						
	\	A	A	70 1	-	-
HCM 95th %tile Q(veh))	0.3	-	48.1	-	-
Notes						

+: Computation Not Defined

\$: Delay exceeds 300s

~: Volume exceeds capacity

*: All major volume in platoon

Intersection						
Int Delay, s/veh	11.1					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	W		1>			ન
Traffic Vol. veh/h	18	68	1680	34	23	232
Future Vol, veh/h	18	68	1680	34	23	232
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	_	-	_	-
Veh in Median Storage		_	0	-	-	0
Grade, %	0	_	0	_	_	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	20	74	1826	37	25	252
INIVITIL FIOW	20	74	1020	31	20	202
Major/Minor N	Minor1	N	Major1	ľ	Major2	
Conflicting Flow All	2147	1845	0	0	1863	0
Stage 1	1845	-	-	-	-	-
Stage 2	302	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	_	-	2.218	-
Pot Cap-1 Maneuver	53	93	_	-	324	-
Stage 1	137	-	_	_	_	_
Stage 2	750	_	_	_	_	_
Platoon blocked, %			_	_		_
Mov Cap-1 Maneuver	48	93	_	_	324	_
Mov Cap-2 Maneuver	48	-	_	_	-	_
Stage 1	137	_	_	_	_	_
Stage 2	683	_	_			
Stage 2	000		_		_	
Approach	WB		NB		SB	
HCM Control Delay, s	259.8		0		1.5	
HCM LOS	F					
Minor Long /Marior Ma		NDT	MDDV	VDI 4	ODI	CDT
Minor Lane/Major Mvm	ıt	NBT	NRKA	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	78	324	-
HCM Lane V/C Ratio		-		1.198		-
HCM Control Dolay (c)			-	259.8	17	0
HCM Control Delay (s)					_	
HCM Lane LOS HCM 95th %tile Q(veh)		-	-	F 7	C 0.2	A -

Intersection						
Int Delay, s/veh	28					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥	,,, <u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	\$, LOIK	JDL	4
Traffic Vol, veh/h	63	52	1543	205	25	192
Future Vol, veh/h	63	52	1543	205	25	192
Conflicting Peds, #/hr	03	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	Stop -		-		-	
Storage Length	0	-	_	-	_	-
Veh in Median Storage			0	_	_	0
Grade, %	0, # 0	<u>-</u>	0	_	_	0
Peak Hour Factor	92	92	92	92	92	92
	2	2	2	2	2	2
Heavy Vehicles, %						
Mvmt Flow	68	57	1677	223	27	209
Major/Minor	Minor1	N	Major1	ı	Major2	
Conflicting Flow All	2052	1789	0	0	1677	0
Stage 1	1789	-	-	-	-	-
Stage 2	263	<u>-</u>	<u>-</u>	_	_	_
Critical Hdwy	6.42	6.22	_	_	4.12	_
Critical Hdwy Stg 1	5.42	- 0.22	<u>-</u>	_	7.12	_
Critical Hdwy Stg 2	5.42			_	-	
		3.318	-	-	2.218	-
Follow-up Hdwy			-			-
Pot Cap-1 Maneuver	~ 61	101	-	-	382	-
Stage 1	147	-	-	-	-	-
Stage 2	781	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver		101	-	-	382	-
Mov Cap-2 Maneuver		-	-	-	-	-
Stage 1	147	-	-	-	-	-
Stage 2	719	-	-	-	-	-
Annragah	WD		ND		CD	
Approach	WB		NB		SB	
HCM Control Delay, st			0		1.7	
HCM LOS	F					
Minor Lane/Major Mvr	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	_	70	382	-
HCM Lane V/C Ratio		_	_	1.786		_
HCM Control Delay (s)	_		502.6	15.1	0
HCM Lane LOS	1	_	-Ψ	502.0	C	A
HCM 95th %tile Q(veh	1)			11.1	0.2	
	'/			11.1	0.2	
Notes						
~: Volume exceeds ca	pacity	\$: De	lay exc	eeds 30	00s	+: Com

	-	•	1
Lane Group	EBT	WBT	NBL
Lane Group Flow (vph)	142	388	1278
v/c Ratio	0.25	1.09	1.19
Control Delay	15.0	112.4	117.3
Queue Delay	0.0	0.0	0.0
Total Delay	15.0	112.4	117.3
Queue Length 50th (ft)	33	~310	~1072
Queue Length 95th (ft)	82	#498	#1335
Internal Link Dist (ft)	1044	3802	1526
Turn Bay Length (ft)			
Base Capacity (vph)	573	355	1073
Starvation Cap Reductn	0	0	0
Spillback Cap Reductn	0	0	0
Storage Cap Reductn	0	0	0
Reduced v/c Ratio	0.25	1.09	1.19

Intersection Summary

Volume exceeds capacity, queue is theoretically infinite.
 Queue shown is maximum after two cycles.

^{# 95}th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

	→	*	1	•	1		
Movement	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations	1>			4	N/		
Traffic Volume (vph)	50	81	296	61	581	594	
Future Volume (vph)	50	81	296	61	581	594	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	
Total Lost time (s)	4.5			4.5	4.5		
Lane Util. Factor	1.00			1.00	1.00		
Frt	0.92			1.00	0.93		
Flt Protected	1.00			0.96	0.98		
Satd. Flow (prot)	1707			1789	1694		
Flt Permitted	1.00			0.63	0.98		
Satd. Flow (perm)	1707			1168	1694		
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	
Adj. Flow (vph)	54	88	322	66	632	646	
RTOR Reduction (vph)	54	0	0	0	34	0	
Lane Group Flow (vph)	88	0	0	388	1244	0	
Turn Type	NA		Perm	NA	Prot		
Protected Phases	2			6	4		
Permitted Phases			6				
Actuated Green, G (s)	33.5			33.5	67.5		
Effective Green, g (s)	33.5			33.5	67.5		
Actuated g/C Ratio	0.30			0.30	0.61		
Clearance Time (s)	4.5			4.5	4.5		
Vehicle Extension (s)	3.0			3.0	3.0		
Lane Grp Cap (vph)	519			355	1039		
v/s Ratio Prot	0.05				c0.73		
v/s Ratio Perm				c0.33			
v/c Ratio	0.17			1.09	1.20		
Uniform Delay, d1	28.1			38.2	21.2		
Progression Factor	1.00			1.00	1.00		
Incremental Delay, d2	0.7			75.1	98.4		
Delay (s)	28.8			113.3	119.7		
Level of Service	С			F	F		
Approach Delay (s)	28.8			113.3	119.7		
Approach LOS	С			F	F		
Intersection Summary							
HCM 2000 Control Delay			111.2	H	CM 2000	Level of Service	F
HCM 2000 Volume to Capa	acity ratio		1.16				
Actuated Cycle Length (s)			110.0	Sı	um of lost	time (s)	9.0
Intersection Capacity Utiliz	ation		107.1%	IC	U Level o	f Service	G
Analysis Period (min)	Analysis Period (min)						

Intersection						
Int Delay, s/veh	3.9					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	LDL	4	1₃	TIDIT	Y	ODIN
Traffic Vol, veh/h	273	371	214	13	2	143
Future Vol, veh/h	273	371	214	13	2	143
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-		-	None	-	
Storage Length	_	-	_	-	0	-
Veh in Median Storage	e # -	0	0	_	0	_
Grade, %	J, 11 _	0	0	_	0	_
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	297	403	233	14	2	155
WWITH FIOW	231	403	200	14		155
Major/Minor	Major1	<u> </u>	Major2		Minor2	
Conflicting Flow All	247	0	-	0	1237	240
Stage 1	-	-	-	-	240	-
Stage 2	-	-	-	-	997	-
Critical Hdwy	4.12	-	-	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	_	5.42	-
Critical Hdwy Stg 2	-	-	-	_	5.42	_
Follow-up Hdwy	2.218	-	-	_	3.518	3.318
Pot Cap-1 Maneuver	1319	_	_	-	194	799
Stage 1	-	_	_	_	800	-
Stage 2	_	_	_	_	357	-
Platoon blocked, %		_	_	_	301	
Mov Cap-1 Maneuver	1319			_	138	799
Mov Cap-1 Maneuver	-		_	_	138	199
Stage 1		<u>-</u>	-		568	-
	-	-	-	-		
Stage 2	_	-	-	-	357	-
Approach	EB		WB		SB	
HCM Control Delay, s	3.6		0		11.1	
HCM LOS					В	
		EDI		14/57	14/55	ODL 4
Minor Lane/Major Mvn	nt	EBL	EBT	WBT	WBR:	
Capacity (veh/h)		1319	-	-	-	749
HCM Lane V/C Ratio		0.225	-	-	-	0.21
HCM Control Delay (s))	8.5	0	-	-	
HCM Lane LOS		Α	Α	-	-	В
HCM 95th %tile Q(veh)	0.9	-	-	-	8.0

Intersection						
Int Delay, s/veh	13.9					
		EDD	NDI	NDT	CDT	CDD
Movement Configurations	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	142	40	0.4	4	727	204
Traffic Vol, veh/h	143	49	24	170	727	321
Future Vol, veh/h	143	49	24	170	727	321
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	
Storage Length	0	-	-	-	-	-
Veh in Median Storage		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	155	53	26	185	790	349
Major/Minor	Minor2	ı	Major1	N	Major2	
Conflicting Flow All	1202	965	1139	0	viajuiz -	0
	965					
Stage 1	237	-	-	-	-	-
Stage 2		6 22	1.10	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518		2.218	-	-	-
Pot Cap-1 Maneuver	204	309	613	-	-	-
Stage 1	370	-	-	-	-	-
Stage 2	802	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	194	309	613	-	-	-
Mov Cap-2 Maneuver	194	-	-	-	-	-
Stage 1	353	-	-	-	-	-
Stage 2	802	-	-	-	-	_
۸					-	
Approach	EB		NB		SB	
HCM Control Delay, s			1.4		0	
HCM LOS	F					
Minor Lane/Major Mvm	nt	NBL	NRT	EBLn1	SBT	SBR
	ıt				וטט	JUC
Capacity (veh/h)		613	-		-	-
HCM Control Doloy (a)		0.043		0.975	-	-
HCM Control Delay (s)		11.1		102.3	-	-
HCM Lane LOS		В	Α	F	-	-
HCM 95th %tile Q(veh)	0.1	-	8.5	-	-

Intersection						
Int Delay, s/veh	2.1					
		14/55	N.D.	NE	00/	005
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	N.		1€			4
Traffic Vol, veh/h	34	37	277	36	62	1014
Future Vol, veh/h	34	37	277	36	62	1014
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	, # 0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	37	40	301	39	67	1102
Major/Mina	Min s :: 4		1-1-1		Mais = O	
	Minor1		Major1		Major2	
Conflicting Flow All	1557	321	0	0	340	0
Stage 1	321	-	-	-	-	-
Stage 2	1236	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	124	720	-	-	1219	-
Stage 1	735	-	-	-	-	-
Stage 2	274	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	106	720	-	-	1219	-
Mov Cap-2 Maneuver	106	-	-	-	-	-
Stage 1	735	_	-	_	-	-
Stage 2	235	-	_	_	_	_
g v -						
Approach	WB		NB		SB	
HCM Control Delay, s	36.1		0		0.5	
HCM LOS	Е					
Minor Lane/Major Mvm	ıt.	NBT	NRDV	VBLn1	SBL	SBT
	IC .	INDT				
Capacity (veh/h)		-	-		1219	-
HCM Lane V/C Ratio		-		0.404		-
HCM Control Delay (s)		-	-	36.1	8.1	0
HCM Lane LOS		-	-	E	A	Α
HCM 95th %tile Q(veh)		-	-	1.8	0.2	-

Intersection						
Int Delay, s/veh	48.9					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥	TIDIC	13	HOIL	ODL	4
Traffic Vol, veh/h	206	32	233	81	46	870
Future Vol, veh/h	206	32	233	81	46	870
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	- -		-		-	
Storage Length	0	-	_	-	_	-
Veh in Median Storag		_	0	_	_	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	224	35	253	88	50	946
WWW.CT IOW		00	200	00	00	010
				-		
Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1343	297	0	0	253	0
Stage 1	297	-	-	-	-	-
Stage 2	1046	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	~ 168	742	-	-	1312	-
Stage 1	754	-	-	-	-	-
Stage 2	338	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	~ 155	742	-	-	1312	-
Mov Cap-2 Maneuver		-	-	-	-	-
Stage 1	754	-	-	-	-	-
Stage 2	311	-	-	_	_	_
A I-	14/5		ND		0.0	
Approach	WB		NB		SB	
HCM Control Delay, s			0		0.4	
HCM LOS	F					
Minor Lane/Major Mvr	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		_		173	1312	_
HCM Lane V/C Ratio		_	_	1.495		_
HCM Control Delay (s		_		299.8	7.9	0
HCM Lane LOS	7	_	_	233.0 F	Α.5	A
HCM 95th %tile Q(veh	1)	-	_	16.6	0.1	-
	.,			10.0	0.1	
Notes						
~: Volume exceeds ca	apacity	\$: De	lay exc	eeds 30	00s	+: Com

	-	←	1
Lane Group	EBT	WBT	NBL
Lane Group Flow (vph)	465	1081	407
v/c Ratio	0.34	1.75	1.25
Control Delay	1.4	362.5	176.9
Queue Delay	0.0	0.0	0.0
Total Delay	1.4	362.5	176.9
Queue Length 50th (ft)	12	~890	~420
Queue Length 95th (ft)	37	#1156	#633
Internal Link Dist (ft)	1044	3802	1526
Turn Bay Length (ft)			
Base Capacity (vph)	1356	619	325
Starvation Cap Reductn	0	0	0
Spillback Cap Reductn	0	0	0
Storage Cap Reductn	0	0	0
Reduced v/c Ratio	0.34	1.75	1.25

Intersection Summary

Volume exceeds capacity, queue is theoretically infinite.
 Queue shown is maximum after two cycles.

^{# 95}th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

	-	*	1	•	1			
Movement	EBT	EBR	WBL	WBT	NBL	NBR		
Lane Configurations	1>			र्स	Y			
Traffic Volume (vph)	58	370	947	48	136	238		
Future Volume (vph)	58	370	947	48	136	238		
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900		
Total Lost time (s)	4.5			4.5	4.5			
Lane Util. Factor	1.00			1.00	1.00			
Frt	0.88			1.00	0.91			
Flt Protected	1.00			0.95	0.98			
Satd. Flow (prot)	1645			1778	1672			
FIt Permitted	1.00			0.43	0.98			
Satd. Flow (perm)	1645			807	1672			
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92		
Adj. Flow (vph)	63	402	1029	52	148	259		
RTOR Reduction (vph)	93	0	0	0	45	0		
Lane Group Flow (vph)	372	0	0	1081	362	0		
Turn Type	NA		Perm	NA	Prot			
Protected Phases	2			6	8			
Permitted Phases	_		6	•				
Actuated Green, G (s)	107.5		_	107.5	23.5			
Effective Green, g (s)	107.5			107.5	23.5			
Actuated g/C Ratio	0.77			0.77	0.17			
Clearance Time (s)	4.5			4.5	4.5			
Vehicle Extension (s)	3.0			3.0	3.0			
Lane Grp Cap (vph)	1263			619	280			
v/s Ratio Prot	0.23			0.0	c0.22			
v/s Ratio Perm				c1.34				
v/c Ratio	0.29			1.75	1.29			
Uniform Delay, d1	4.9			16.2	58.2			
Progression Factor	1.00			1.00	1.00			
Incremental Delay, d2	0.1			342.5	155.9			
Delay (s)	5.0			358.8	214.1			
Level of Service	Α			F	F			
Approach Delay (s)	5.0			358.8	214.1			
Approach LOS	Α			F	F			
Intersection Summary								
HCM 2000 Control Delay			244.4	Н	CM 2000	Level of Service	F	
HCM 2000 Volume to Capa	acity ratio		1.66					
Actuated Cycle Length (s)	,		140.0	S	um of lost	time (s)	9.0	
Intersection Capacity Utilization			114.3%		CU Level o		Н	
Analysis Period (min)			15					

c Critical Lane Group

Intersection								
Int Delay, s/veh	43.8							
Movement	EBL	EBT	WBT	WBR	SBL	SBR		
ane Configurations		4	1		N.			
affic Vol, veh/h	110	186	332	13	6	663		
ure Vol, veh/h	110	186	332	13	6	663		
nflicting Peds, #/hr	0	0	0	0	0	0		
gn Control	Free	Free	Free	Free	Stop	Stop		
Γ Channelized	-	None	-	None	-	None		
orage Length	-	-	-	-	0	-		
h in Median Storag	e,# -	0	0	-	0	-		
ade, %	-	0	0	-	0	-		
eak Hour Factor	92	92	92	92	92	92		
avy Vehicles, %	2	2	2	2	2	2		
mt Flow	120	202	361	14	7	721		
ajor/Minor	Major1		Major2	N	/linor2			
nflicting Flow All	375	0	- viajoiz	0	810	368		
Stage 1	-	-	_	-	368	-		
Stage 2	_	_	_	_	442	_		
tical Hdwy	4.12	_	_	_	6.42	6.22		
tical Hdwy Stg 1	7.12	_	_	_	5.42	-		
tical Hdwy Stg 2	_	_	_	_	5.42	_		
llow-up Hdwy	2.218	_	_		3.518			
t Cap-1 Maneuver	1183	_	_	_		~ 677		
Stage 1	-	_	_	_	700	-		
Stage 2	_	_	_	_	648	_		
atoon blocked, %		_	-	_				
ov Cap-1 Maneuver	1183	_	-	_	309	~ 677		
ov Cap-2 Maneuver		-	-	-	309	-		
Stage 1	-	-	-	-	620	-		
Stage 2	-	-	-	-	648	_		
proach	EB		WB		SB			
			0		84.3			
CM Control Delay, s CM LOS	J. 1		U		04.3 F			
JIVI LUG					٢			
inor Lane/Major Mvr	mt	EBL	EBT	WBT	WRR	SBLn1		
apacity (veh/h)	TIT.	1183	LDI	VVDI	VVDIX.	670		
CM Lane V/C Ratio		0.101	-	-	-	1.085		
CM Control Delay (s	.)	8.4	0	-		84.3		
CM Lane LOS	9)	0.4 A	A	-	- -	04.3 F		
CM 95th %tile Q(veh	n)	0.3	A	-		20.5		
`	1)	0.3	_	_	_	20.5		
otes								
Volume exceeds ca	apacity	\$: De	elay exc	eeds 30)0s	+: Comp	outation Not Defined	*: All major volume in platoon

BACKGROUND CONDITIONS CAPACITY ANALYSES



Intersection								
Int Delay, s/veh	1909.9							
Movement	EBL	EBR	NBL	NBT	SBT	SBR		
Lane Configurations	W			4	1			
Traffic Vol, veh/h	517	48	144	1906	164	198		
Future Vol, veh/h	517	48	144	1906	164	198		
Conflicting Peds, #/hr		0	0	0	0	0		
Sign Control	Stop	Stop	Free	Free	Free	Free		
RT Channelized	-	None	-	None	-	None		
Storage Length	0	-	-	-	-	-		
Veh in Median Storag	e,# 0	-	-	0	0	-		
Grade, %	0	-	-	0	0	-		
Peak Hour Factor	92	92	92	92	92	92		
Heavy Vehicles, %	2	2	2	2	2	2		
Mvmt Flow	562	52	157	2072	178	215		
Major/Minor	Minor2	1	Major1	N	//ajor2			
Conflicting Flow All	2672	286	393	0		0		
Stage 1	286	-	-	-	-	-		
Stage 2	2386	-	_	-	-	-		
Critical Hdwy	6.42	6.22	4.12	-	-	-		
Critical Hdwy Stg 1	5.42	-	-	-	-	-		
Critical Hdwy Stg 2	5.42	-	-	-	-	-		
Follow-up Hdwy	3.518	3.318	2.218	-	-	-		
Pot Cap-1 Maneuver	~ 25	753	1166	-	-	-		
Stage 1	763	-	-	-	-	-		
Stage 2	~ 73	-	-	-	-	-		
Platoon blocked, %				-	-	-		
Mov Cap-1 Maneuver		753	1166	-	-	-		
Mov Cap-2 Maneuver		-	-	-	-	-		
Stage 1	763	-	-	-	-	-		
Stage 2	~ 73	-	-	-	-	-		
Approach	EB		NB		SB			
HCM Control Delay\$s	10061.4		0.6		0			
HCM LOS	F							
Minor Lane/Major Mvr	mt	NBL	NBT	EBLn1	SBT	SBR		
Capacity (veh/h)		1166	-	27	_	-		
HCM Lane V/C Ratio		0.134	- 2	22.746	-	-		
HCM Control Delay (s	s)	8.6		0061.4	-	-		
HCM Lane LOS	,	A	A	F	-	-		
HCM 95th %tile Q(veh	٦)	0.5	-	76.4	-	-		
Notes								
~: Volume exceeds ca	anacity	\$: De	elav exc	eeds 30)0s	+: Comi	outation Not Defined	*: All major volume in platoon

tersection								
nt Delay, s/veh	119.8							
Novement	WBL	WBR	NBT	NBR	SBL	SBT		
ane Configurations	N.		1			स		
raffic Vol, veh/h	29	95	2367	56	32	332		
ture Vol, veh/h	29	95	2367	56	32	332		
onflicting Peds, #/hr	0	0	0	0	0	0		
gn Control	Stop	Stop	Free	Free	Free	Free		
Γ Channelized	-	None	-	None	-	None		
orage Length	0	-	-	-	-	-		
eh in Median Storage	e, # 0	-	0	-	-	0		
rade, %	0	-	0	-	-	•		
eak Hour Factor	92	92	92	92	92			
eavy Vehicles, %	2	2	2	2	2			
mt Flow	32	103	2573	61	35	361		
jor/Minor	Minor1		Major1	ı	Major2			
nflicting Flow All	3035	2604	0	0	2634	0		
Stage 1	2604	-	-	-	-	-		
Stage 2	431	-	-	-	-	-		
tical Hdwy	6.42	6.22	-	-	4.12	-		
tical Hdwy Stg 1	5.42	-	-	-	-	-		
tical Hdwy Stg 2	5.42	-	-	-	-	-		
low-up Hdwy	3.518		-	-	2.218	-		
t Cap-1 Maneuver	~ 14	~ 32	-	-	161	-		
Stage 1	56	-	-	-	-	-		
Stage 2	655	-	-	-	-	-		
atoon blocked, %			-	-		-		
ov Cap-1 Maneuver	~ 10	~ 32	-	-	161	-		
ov Cap-2 Maneuver	~ 10	-	-	-	-	-		
Stage 1	56	-	-	-	-			
Stage 2	477	-	-	-	-	-		
proach	WB		NB		SB			
CM Control Delay, \$	2803.1		0		2.9			
CM LOS	F							
nor Lane/Major Mvn	nt	NBT	NBRV	VBLn1	SBL	SBT		
apacity (veh/h)		-	-	21	161	-		
M Lane V/C Ratio		-	-	6.418	0.216	-		
CM Control Delay (s))	-		2803.1	33.4	0		
CM Lane LOS		-	-	F	D	Α		
CM 95th %tile Q(veh)	-	-	17.2	0.8	-		
otes								
les √olume exceeds ca	nacity	\$: Do	lav ovo	eeds 30	ηηe	+· Com	outation Not Defined	*: All major volume in platoo
volume exceeds ca	pacity	ψ. De	ay ext	.cc us 3(003	·. Comp	diation Not Delined	. All major volume in platoo

Intersection								
nt Delay, s/veh	236.1							
lovement	WBL	WBR	NBT	NBR	SBL	SBT		
ane Configurations	W		1			र्स		
raffic Vol, veh/h	92	73	2167	296	35	272		
uture Vol, veh/h	92	73	2167	296	35	272		
onflicting Peds, #/hr	0	0	0	0	0	0		
ign Control	Stop	Stop	Free	Free	Free	Free		
T Channelized	-	None	-	Yield	-	None		
torage Length	0	-	-	-	-	-		
eh in Median Storage	e,# 0	-	0	-	-	0		
Grade, %	0	-	0	-	-	0		
eak Hour Factor	92	92	92	92	92	92		
eavy Vehicles, %	2	2	2	2	2	2		
vmt Flow	100	79	2355	322	38	296		
ajor/Minor	Minor1	ı	Major1	ı	Major2			
onflicting Flow All	2888	2516	0		2355	0		
Stage 1	2516	-	-	-	-	-		
Stage 2	372	-	-	-	-	-		
ritical Hdwy	6.42	6.22	-	-	4.12	-		
itical Hdwy Stg 1	5.42	-	-	-	-	-		
itical Hdwy Stg 2	5.42	-	-	-	-	-		
ollow-up Hdwy	3.518	3.318	-	-	2.218	-		
ot Cap-1 Maneuver	~ 18	~ 36	-	-	208	-		
Stage 1	~ 62	-	-	-	-	-		
Stage 2	697	-	-	-	-	-		
atoon blocked, %			-	-		-		
ov Cap-1 Maneuver	~ 14	~ 36	-	-	208	-		
ov Cap-2 Maneuver	~ 14	-	-	-	-	-		
Stage 1	~ 62	-	-	-	-	-		
Stage 2	544	-	-	-	-	-		
pproach	WB		NB		SB			
CM Control Delay, \$	4193.4		0		3			
ICM LOS	F							
inor Lane/Major Mvr	nt	NBT	NBRV	VBLn1	SBL	SBT		
apacity (veh/h)		-	-	19	208	-		
CM Lane V/C Ratio		-	-	9.439		-		
CM Control Delay (s	s)	-		1193.4	26.1	0		
CM Lane LOS	,	-	-	F	D	A		
CM 95th %tile Q(veh	1)	-	-	23	0.7	-		
otes								
Volume exceeds ca	nacity	\$. Da	lav ovo	eeds 30)ne	T. Com	outation Not Defined	*: All major volume in platoon
rolullie exceeds ca	pacity	ψ. De	nay ext	ceus of	303	·. Com	שממווטוו ואטנ שפוווופט	. All major volume in platoon

	-	*	1	•	1	-
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Group Flow (vph)	78	171	492	100	971	971
v/c Ratio	0.24	0.14	0.93	0.14	1.03	0.73
Control Delay	41.3	1.5	55.7	22.6	64.5	6.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	41.3	1.5	55.7	22.6	64.5	6.0
Queue Length 50th (ft)	48	7	291	45	~737	75
Queue Length 95th (ft)	93	23	#538	82	#983	197
Internal Link Dist (ft)	1044			3802	1526	
Turn Bay Length (ft)		200	300			
Base Capacity (vph)	326	1215	531	719	941	1334
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.24	0.14	0.93	0.14	1.03	0.73

Intersection Summary

Volume exceeds capacity, queue is theoretically infinite.

Queue shown is maximum after two cycles.

^{# 95}th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

	→	*	1	•	1	1
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	↑	7	ሻ	↑	*	7
Traffic Volume (veh/h)	72	157	453	92	893	893
Future Volume (veh/h)	72	157	453	92	893	893
Initial Q (Qb), veh	0	0	0	0	0	033
Ped-Bike Adj(A_pbT)	U	1.00	1.00	U	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No	1.00	1.00	No	No	1.00
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	78	0	492	100	971	971
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
	0.92		0.92			0.92
Percent Heavy Veh, %		2		2	2	
Cap, veh/h	328	0.00	553	723	947	1112
Arrive On Green	0.18	0.00	0.17	0.39	0.53	0.53
Sat Flow, veh/h	1870	1585	1781	1870	1781	1585
Grp Volume(v), veh/h	78	0	492	100	971	971
Grp Sat Flow(s),veh/h/ln	1870	1585	1781	1870	1781	1585
Q Serve(g_s), s	3.9	0.0	18.7	3.8	58.5	51.9
Cycle Q Clear(g_c), s	3.9	0.0	18.7	3.8	58.5	51.9
Prop In Lane		1.00	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	328		553	723	947	1112
V/C Ratio(X)	0.24		0.89	0.14	1.02	0.87
Avail Cap(c_a), veh/h	328		553	723	947	1112
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	39.0	0.0	33.3	21.9	25.7	12.6
Incr Delay (d2), s/veh	1.7	0.0	16.4	0.4	35.8	7.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.9	0.0	5.6	1.7	31.6	40.9
, , ,	1.9	0.0	3.0	1.7	31.0	40.9
Unsig. Movement Delay, s/veh	10.7	0.0	49.7	22.2	G1 E	20.4
LnGrp Delay(d),s/veh	40.7	0.0		22.3	61.5	20.4
LnGrp LOS	D		D	C	F 40.40	С
Approach Vol, veh/h	78	Α		592	1942	
Approach Delay, s/veh	40.7			45.0	41.0	
Approach LOS	D			D	D	
Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	23.2	23.8		63.0		47.0
Change Period (Y+Rc), s	4.5	4.5		4.5		47.0
· /·	4.5 18.7					42.5
Max Green Setting (Gmax), s		19.3		58.5		
Max Q Clear Time (g_c+I1), s	20.7	5.9		60.5		5.8
Green Ext Time (p_c), s	0.0	0.2		0.0		0.5
Intersection Summary						
HCM 6th Ctrl Delay			41.9			
HCM 6th LOS			D			
Notes						

Intersection						
Int Delay, s/veh	6.1					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		4	1		W	
Traffic Vol. veh/h	403	559	322	19	7	223
Future Vol, veh/h	403	559	322	19	7	223
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-		-	
Storage Length	-	-	-	-	0	-
Veh in Median Storage	,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	438	608	350	21	8	242
	Major1		Major2		Minor2	
Conflicting Flow All	371	0	-	0	1845	361
Stage 1	-	-	-	-	361	-
Stage 2	-	-	-	-	1484	-
Critical Hdwy	4.12	-	-	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	2.218	-	-	-	3.518	3.318
Pot Cap-1 Maneuver	1188	-	-	-	82	684
Stage 1	-	-	-	-	705	-
Stage 2	-	-	-	-	208	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1188	-	-	-	36	684
Mov Cap-2 Maneuver	-	_	_	_	36	-
Stage 1	_	_	_	_	312	_
Stage 2	<u>-</u>	_	_	<u>-</u>	208	<u>-</u>
Jugo 2					200	
Approach	EB		WB		SB	
HCM Control Delay, s	4.1		0		23.2	
HCM LOS					С	
Minor Lane/Major Mvm	+	EBL	EBT	WBT	\\/PD	SBLn1
	ı			WDI		
Capacity (veh/h)		1188	-	-	-	442
HCM Cartes Dalay (a)		0.369	-	-		0.566
		9.8	0	-	-	23.2
HCM Control Delay (s)		Α.	٨			^
HCM Lane LOS HCM 95th %tile Q(veh)		A 1.7	A -	-	-	C 3.4

	Intersection								
Second	Int Delay, s/veh	224.2							
affic Vol, veh/h 226 96 71 238 1020 482 affic Vol, veh/h 226 96 71 238 1020 482 affic Vol, veh/h 226 96 71 238 1020 482 affic Vol, veh/h 226 96 71 238 1020 482 affic Vol, veh/h 226 96 71 238 1020 482 affic Vol, veh/h 226 96 71 238 1020 482 affic Vol, veh/h 226 96 71 238 1020 482 affic Vol, veh/h 226 96 71 238 1020 482 affic Vol, veh/h 226 96 71 238 1020 482 affic Vol, veh/h 226 96 71 238 1020 482 affic Vol, veh/h 226 96 71 238 1020 482 affic Vol, veh/h 226 96 71 238 1020 482 affic Vol, veh/h 226 97 28 affic Veh/h 226		FRI	FRR	NRI	NRT	SRT	SBR		
affic Vol, veh/h			LDIX	INDL			ODIT		
uture Vol, veh/h 226 96 71 238 1020 482 on Control Stop Stop Free Free Free Free T Channelized - None - None - None - None - None orage Length 0 0 0 3 0 3 hin Median Storage, # 0 0 0 0 3 0 3 rade, % 0 0 0 3 0 - 3 sak Hour Factor 92 92 92 92 92 92 aavy Vehicles, % 2 2 2 2 2 2 2 2 portflicting Flow All 1784 1371 1633 0 0 0 0 524 stage 1 1371			96	71			482		
Onflicting Peds, #/hr									
gn Control Stop Stop Free Free Free Free Free Tree Tohannelized None No									
T Channelized									
orage Length 0									
eh in Median Storage, # 0		0			-	_			
rade, % 0 0 0 0 0					0	0			
Bask Hour Factor 92									
eavy Vehicles, % 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		-							
ajor/Minor Minor2 Major1 Major2 onflicting Flow All 1784 1371 1633 0 - 0 Stage 1 1371									
ajor/Minor Minor2 Major1 Major2 conflicting Flow All 1784 1371 1633 0 - 0 Stage 1 1371									
Onflicting Flow All 1784 1371 1633 0 - 0 Stage 1 1371	WWINGT IOW	240	104	- 11	200	1103	JZT		
Onflicting Flow All 1784 1371 1633 0 - 0 Stage 1 1371	laior/Minor	Minor2	ı	Maior1	ı	Maior2			
Stage 1 1371							٥		
Stage 2									
ritical Hdwy Stg 1 5.42			-	-					
ritical Hdwy Stg 1			6 22	112					
ritical Hdwy Stg 2 5.42									
Solidow-up Hdwy 3.518 3.318 2.218 - - - - - - - - -									
Stage 1									
Stage 1 ~ 236 - - - - Stage 2 668 - - - - atoon blocked, % - - - - ov Cap-1 Maneuver ~ 70 - - - - ov Cap-2 Maneuver ~ 70 - - - - Stage 1 ~ 182 - - - - Stage 2 668 - - - - oproach EB NB SB CM Control Delay, \$ 1481.7 3.7 0 CM LOS F Stage 2 Maneuver Anneuver Anne									
Stage 2 668 - - - - atoon blocked, % - - - - ov Cap-1 Maneuver ~ 70 - - - - ov Cap-2 Maneuver ~ 70 - - - - Stage 1 ~ 182 - - - - Stage 2 668 - - - - opproach EB NB SB CM Control Delay, \$ 1481.7 3.7 0 CM Los F inor Lane/Major Mvmt NBL NBT EBLn1 SBT SBR apacity (veh/h) 397 - 86 - - CM Lane V/C Ratio 0.194 - 4.07 - - CM Control Delay (s) 16.2 \$ 1481.7 - - CM Lane LOS C A F - - Ottes - - - - - - - - - - - - - - - - <td< td=""><td></td><td></td><td></td><td>331</td><td></td><td></td><td></td><td></td><td></td></td<>				331					
atoon blocked, % ov Cap-1 Maneuver ~ 70 179 397 ov Cap-2 Maneuver ~ 70 Stage 1 ~ 182 Stage 2 668 Stage 2 668 Opproach EB NB SB CM Control Delay, \$ 1481.7 3.7 0 CM LOS F Inor Lane/Major Mvmt NBL NBT EBLn1 SBT SBR apacity (veh/h) 397 - 86 CM Lane V/C Ratio 0.194 - 4.07 CM Control Delay (s) 16.2 \$ 1481.7 CM Control Delay (s) 16.2 \$ 1481.7 CM Lane LOS C A F CM 95th %tile Q(veh) 0.7 - 36.6 otes				<u>-</u>					
ov Cap-1 Maneuver ~ 70		000		-					
ov Cap-2 Maneuver ~ 70 -		~ 70	170	307					
Stage 1 ~ 182 - <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>									
Stage 2 668									
SB			-			-	-		
CM Control Delay, \$ 1481.7 CM LOS F inor Lane/Major Mvmt NBL NBT EBLn1 SBT SBR apacity (veh/h) 397 - 86 CM Lane V/C Ratio 0.194 - 4.07 CM Control Delay (s) 16.2 \$ 1481.7 CM Lane LOS C A F - CM 95th %tile Q(veh) 0.7 - 36.6 otes	Slaye 2	000	-	-	<u>-</u>	-	-		
CM Control Delay, \$ 1481.7 3.7 0 CM LOS F inor Lane/Major Mvmt NBL NBT EBLn1 SBT SBR apacity (veh/h) 397 - 86 CM Lane V/C Ratio 0.194 - 4.07 CM Control Delay (s) 16.2 \$ 1481.7 CM Lane LOS C A F CM 95th %tile Q(veh) 0.7 - 36.6	nnroach	FR		MR		SB			
CM LOS F inor Lane/Major Mvmt NBL NBT EBLn1 SBT SBR apacity (veh/h) 397 - 86 - - CM Lane V/C Ratio 0.194 - 4.07 - - CM Control Delay (s) 16.2 \$ 1481.7 - - CM Lane LOS C A F - - CM 95th %tile Q(veh) 0.7 - 36.6 - - - otes - - - - - - -									
inor Lane/Major Mvmt NBL NBT EBLn1 SBT SBR apacity (veh/h) 397 - 86 CM Lane V/C Ratio 0.194 - 4.07 CM Control Delay (s) 16.2 \$1481.7 CM Lane LOS C A F CM 95th %tile Q(veh) 0.7 - 36.6				5.1		U			
apacity (veh/h) 397 - 86 CM Lane V/C Ratio 0.194 - 4.07 CM Control Delay (s) 16.2 \$1481.7 CM Lane LOS C A F CM 95th %tile Q(veh) 0.7 - 36.6 otes	IOIVI LOG	Г							
apacity (veh/h) 397 - 86 CM Lane V/C Ratio 0.194 - 4.07 CM Control Delay (s) 16.2 \$1481.7 CM Lane LOS C A F CM 95th %tile Q(veh) 0.7 - 36.6 otes	Minor Lane/Major Myr	nt	NRI	NRT	FRI n1	SRT	SBR		
CM Lane V/C Ratio 0.194 - 4.07 CM Control Delay (s) 16.2 \$ 1481.7 CM Lane LOS C A F CM 95th %tile Q(veh) 0.7 - 36.6 otes				- 1011		-			
CM Control Delay (s) 16.2 \$ 1481.7 CM Lane LOS C A F CM 95th %tile Q(veh) 0.7 - 36.6 otes									
CM Lane LOS C A F - - CM 95th %tile Q(veh) 0.7 - 36.6 - - otes)							
CM 95th %tile Q(veh) 0.7 - 36.6 otes		1							
otes		1)							
	·	.,	0.1		00.0				
volume exceeds capacity \$: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon		.,	Φ. D.			20		L.C. N. C.	* All
	: Volume exceeds ca	pacity	\$: De	elay exc	eeds 30	JUS	+: Com	outation Not Defined	1: All major volume in platoon

Intersection						
Int Delay, s/veh	101.9					
-	WBL	WBR	NIDT	NIDD	SBL	SBT
Movement		WDK	NBT	NBR	OBL	
Lane Configurations	Y	50	♣	00	07	4
Traffic Vol, veh/h	61	52	404	60	87	1441
Future Vol, veh/h	61	52	404	60	87	1441
Conflicting Peds, #/hr	0	0	0	_ 0	0	_ 0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage		-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	66	57	439	65	95	1566
Major/Minor	Minar1		laier1	, n	Majora	
	Minor1		/lajor1		Major2	
Conflicting Flow All	2228	472	0	0	504	0
Stage 1	472	-	-	-	-	-
Stage 2	1756	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	~ 47	592	-	-	1061	-
Stage 1	628	-	-	-	-	-
Stage 2	152	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	~ 15	592	-	-	1061	_
Mov Cap-2 Maneuver	~ 15	-	-	-	-	-
Stage 1	628	-	_	-	_	_
Stage 2	~ 47	-	-	_	-	-
Approach	WB		NB		SB	
HCM Control Delay, \$	1891.2		0		0.5	
HCM LOS	F					
Minor Lane/Major Mvm	nt	NPT	NDDV	VRI n1	SBL	SBT
	IL	NBT	INDKV	VBLn1		
Capacity (veh/h)		-	-	27	1061	-
HCM Lane V/C Ratio		-		4.549		-
HCM Control Delay (s)		-		1891.2	8.7	0
HCM Lane LOS	_	-	-	F	Α	A
HCM 95th %tile Q(veh))	-	-	15	0.3	-
Notes						
~: Volume exceeds cap	nacity	\$· Da	lav evo	eeds 30)0s	+: Comp
. Volumo exceeds ca	paoity	ψ. De	ay exc	0003 00	703	·. Comp

Intersection								
Int Delay, s/veh	365.7							
Movement	WBL	WBR	NBT	NBR	SBL	SBT		
Lane Configurations	¥	WEIT	1	HOIL	ODL	4		
Traffic Vol, veh/h	302	45	332	124	65	1226		
Future Vol, veh/h	302	45	332	124	65	1226		
Conflicting Peds, #/hr	002	0	0	0	0	0		
Sign Control	Stop	Stop	Free	Free	Free	Free		
RT Channelized	-	None	-	Yield	-			
Storage Length	0	-	-	-	-	-		
Veh in Median Storage		-	0	_	-	0		
Grade, %	0	-	0	-	_	0		
Peak Hour Factor	92	92	92	92	92	92		
Heavy Vehicles, %	2	2	2	2	2	2		
Mvmt Flow	328	49	361	135	71	1333		
Major/Minor	Minor1	ı	/lajor1	ı	Major2			
Conflicting Flow All	1904	429	0	0	361	0		
Stage 1	429	429	-	-	-	-		
Stage 2	1475	_	_	-	_	_		
Critical Hdwy	6.42	6.22	-	-	4.12	_		
Critical Hdwy Stg 1	5.42	0.22	_	-	4.12	_		
Critical Hdwy Stg 2	5.42	_			_	_		
Follow-up Hdwy			<u>-</u>	_	2.218	_		
Pot Cap-1 Maneuver	~ 76	626	_	_	1198	_		
Stage 1	657	-	_	_	-	_		
Stage 2	~ 210	_	_	_	_	_		
Platoon blocked, %	210		_	_		_		
Mov Cap-1 Maneuver	~ 59	626	_	_	1198	_		
Mov Cap-2 Maneuver	~ 59	-	_	_	-	_		
Stage 1	657	-	-	-	-	-		
Stage 2	~ 162	-	_	_	-	_		
A nora a a b	WB		ND		CD			
Approach			NB		SB 0.4			
HCM Control Delay, \$ HCM LOS	2205.4 F		0		0.4			
	r							
				VD1 1	0-:			
Minor Lane/Major Mvn	nt	NBT	NBKV	VBLn1	SBL	SBT		
Capacity (veh/h)		-	-	67	1198	-		
HCM Lane V/C Ratio		-			0.059	-		
HCM Control Delay (s)		-		2205.4	8.2	0		
HCM Lane LOS	,	-	-	F	A	Α		
HCM 95th %tile Q(veh		-	-	42.1	0.2	-		
Notes								
~: Volume exceeds ca	pacity	\$: De	lay exc	eeds 30	00s	+: Com	putation Not Defined	*: All major volume in platoon

	\rightarrow	*	1	•	1	1
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Group Flow (vph)	95	701	1551	77	317	451
v/c Ratio	0.49	1.24	1.37	0.06	0.93	0.33
Control Delay	51.6	151.8	190.0	4.3	75.3	0.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	51.6	151.8	190.0	4.3	75.3	0.9
Queue Length 50th (ft)	59	~549	~1246	13	202	0
Queue Length 95th (ft)	110	#771	#1552	25	#386	19
Internal Link Dist (ft)	1044			3802	1526	
Turn Bay Length (ft)		200	300			
Base Capacity (vph)	359	566	1135	1504	342	1365
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.26	1.24	1.37	0.05	0.93	0.33

Intersection Summary

Volume exceeds capacity, queue is theoretically infinite.

Queue shown is maximum after two cycles.

^{# 95}th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

	→	*	1	•	1	-
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	^	7	*	<u> </u>	7	7
Traffic Volume (veh/h)	87	645	1427	71	292	415
Future Volume (veh/h)	87	645	1427	71	292	415
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	U	1.00	1.00	U	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No	1.00	1.00	No	No	1.00
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
	95		1551	77	317	451
Adj Flow Rate, veh/h		0 02				0.92
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	136	0.00	1158	1329	350	1249
Arrive On Green	0.07	0.00	0.59	0.71	0.20	0.20
Sat Flow, veh/h	1870	1585	1781	1870	1781	1585
Grp Volume(v), veh/h	95	0	1551	77	317	451
Grp Sat Flow(s),veh/h/ln	1870	1585	1781	1870	1781	1585
Q Serve(g_s), s	4.8	0.0	57.5	1.2	16.9	8.2
Cycle Q Clear(g_c), s	4.8	0.0	57.5	1.2	16.9	8.2
Prop In Lane		1.00	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	136		1158	1329	350	1249
V/C Ratio(X)	0.70		1.34	0.06	0.90	0.36
Avail Cap(c_a), veh/h	375		1158	1568	357	1256
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	44.0	0.00	14.5	4.2	38.2	3.0
Incr Delay (d2), s/veh	6.3	0.0	158.6	0.0	25.3	0.2
	0.0	0.0	0.0	0.0	0.0	0.2
Initial Q Delay(d3),s/veh						
%ile BackOfQ(50%),veh/ln	2.4	0.0	67.8	0.3	9.5	0.1
Unsig. Movement Delay, s/veh	F0 0	^ ^	470.4	4.0	00.4	0.0
LnGrp Delay(d),s/veh	50.3	0.0	173.1	4.3	63.4	3.2
LnGrp LOS	D		F	Α	E	A
Approach Vol, veh/h	95	Α		1628	768	
Approach Delay, s/veh	50.3			165.1	28.1	
Approach LOS	D			F	С	
Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	62.0	11.6		23.6		73.6
,						
Change Period (Y+Rc), s	4.5	4.5		4.5		4.5
Max Green Setting (Gmax), s	57.5	19.5		19.5		81.5
Max Q Clear Time (g_c+l1), s	59.5	6.8		18.9		3.2
Green Ext Time (p_c), s	0.0	0.3		0.2		0.4
Intersection Summary						
HCM 6th Ctrl Delay			118.5			
HCM 6th LOS			F			
Notes						

Intersection						
Int Delay, s/veh	264.9					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
	CDL			WDK	SBL	SDK
Lane Configurations Traffic Vol, veh/h	185	र्दी 311	1 → 530	23	10	969
Future Vol, veh/h	185	311	530	23	10	969
Conflicting Peds, #/hr		0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-			None	- Olop	None
Storage Length	_	-	_	-	0	-
Veh in Median Storag		0	0	-	0	_
Grade, %	- -	0	0	_	0	_
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	201	338	576	25	11	1053
	201	- 500	510			.000
N 4 . ' /N 4'		_	M			
Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	601	0	-	0	1329	589
Stage 1	-	-	-	-	589	-
Stage 2	-	-	-	-	740	-
Critical Hdwy	4.12	-	-	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	2.218	-	-		3.518	
Pot Cap-1 Maneuver		-	-	-		~ 508
Stage 1	-	-	-	-	554	-
Stage 2	-	-	-	-	472	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuve		-	-	-		~ 508
Mov Cap-2 Maneuve		-	-	-	128	-
Stage 1	-	-	-	-	413	-
Stage 2	-	-	-	-	472	-
Approach	EB		WB		SB	
HCM Control Delay, s	3.6		0	\$	546.9	
HCM LOS				_	F	
Minor Lane/Major Mv	mt	EBL	EBT	WBT	WRR	SBLn1
Capacity (veh/h)	IIIL	976		WDI	WDK -	493
HCM Lane V/C Ratio		0.206	-	-		2.158
HCM Control Delay (9.6	0	-		546.9
HCM Lane LOS	3)	9.0 A	A	-	-1	540.9 F
HCM 95th %tile Q(ve	h)	0.8	۸ -		_	76.6
`	11)	0.0		_	_	70.0
Notes						
~: Volume exceeds ca	apacity	\$: De	elay exc	eeds 30	00s	+: Com

PROJECTED CONDITIONS CAPACITY ANALYSES



Intersection						
Int Delay, s/veh	2377					
		EDD	NDI	NET	057	000
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	¥			4	₽	
Traffic Vol, veh/h	549	48	144	1924	211	281
Future Vol, veh/h	549	48	144	1924	211	281
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	e, # 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	597	52	157	2091	229	305
	Minor2		Major1		Major2	
Conflicting Flow All	2787	382	534	0	-	0
Stage 1	382	-	-	-	-	-
Stage 2	2405	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	_	-
Pot Cap-1 Maneuver	~ 21	665	1034	_	-	-
Stage 1	690	-		_	_	_
Stage 2	~ 71	_	_	_	_	_
Platoon blocked, %	71				_	_
Mov Cap-1 Maneuver	~ 21	665	1034	-	-	<u>-</u>
						-
Mov Cap-2 Maneuver	~ 21	-	-	-	-	-
Stage 1	690	-	-	-	-	-
Stage 2	~ 71	-	-	-	-	-
Approach	EB		NB		SB	
			0.6		0	
HCM LOS	2507.8 F		0.0		U	
HCM LOS	F					
Minor Lane/Major Mvr	nt	NBL	NBT I	EBLn1	SBT	SBR
Capacity (veh/h)		1034	-	23	-	-
HCM Lane V/C Ratio		0.151		28.214	_	-
HCM Control Delay (s)	9.1		2567.8	_	
HCM Lane LOS		9.1 A	A A	2307.8 F	-	-
HCM 95th %tile Q(veh	.)	0.5		81.2		
	IJ	0.0	-	01.2	-	-
Notes						
~: Volume exceeds ca	pacity	\$: De	elay exc	eeds 30	00s	+: Com
	1- 0011	Ţ. D.	one	20000		. 50111

Intersection									
Int Delay, s/veh	162.5								
Movement	WBL	WBR	NBT	NBR	SBL	SBT			
Lane Configurations	¥		4			4			
Traffic Vol, veh/h	29	99	2417	56	44	462			
uture Vol, veh/h	29	99	2417	56	44	462			
Conflicting Peds, #/hr	0	0	0	0	0	0			
Sign Control	Stop	Stop	Free	Free	Free	Free			
RT Channelized	-	None	-	None	-				
Storage Length	0	-	-	-	-	-			
eh in Median Storage	e, # 0	-	0	-	-	0			
Grade, %	0	-	0	-	-	0			
Peak Hour Factor	92	92	92	92	92	92			
leavy Vehicles, %	2	2	2	2	2	2			
/lvmt Flow	32	108	2627	61	48	502			
Major/Minor	Minor1	N	Major1		Major2				
Conflicting Flow All	3256	2658	0		2688	0			
Stage 1	2658	-	-	-	-	-			
Stage 2	598	-	_	_	-	_			
Critical Hdwy	6.42	6.22	-	-	4.12	-			
ritical Hdwy Stg 1	5.42	-	-	_	-	-			
Critical Hdwy Stg 2	5.42	-	-	-	-	-			
follow-up Hdwy	3.518	3.318	-	-	2.218	-			
Pot Cap-1 Maneuver	~ 10	~ 29	-	-	153	-			
Stage 1	53	-	-	-	-	-			
Stage 2	549	-	-	-	-	-			
Platoon blocked, %			-	-		-			
Mov Cap-1 Maneuver	~ 6	~ 29	-	-	153	-			
Nov Cap-2 Maneuver	~ 6	-	-	-	-	-			
Stage 1	53	-	-	-	-	-			
Stage 2	310	-	-	-	-	-			
Approach	WB		NB		SB				
HCM Control Delay, \$			0		3.4				
HCM LOS	F				0.1				
Minor Lane/Major Mvn	nt	NBT	NBR\	VBLn1	SBL	SBT			
Capacity (veh/h)			-		153	-			
ICM Lane V/C Ratio		-		8.696		-			
ICM Control Delay (s)			3930.9	38.9	0			
ICM Control Delay (s	<i>)</i>		φ·, -	5730.7 F	30.7 E	A			
HCM 95th %tile Q(veh	1)	_		18.2	1.2	-			
·	'7			10.2	1.2				
Notes		4 -			00			* * * * * * * * * * * * * * * * * * * *	
-: Volume exceeds ca	pacity	\$: D∈	elay exc	ceeds 3	00s	+: Com	putation Not Defined	*: All major volume in	platoon

Intersection														
Int Delay, s/veh	945.9													
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR		
Lane Configurations	*	^	7		4		7	f)			र्स	7		
Traffic Vol, veh/h	59	8	47	93	3	73	18	2191	300	35	281	23		
Future Vol, veh/h	59	8	47	93	3	73	18	2191	300	35	281	23		
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0		
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free		
RT Channelized	-	-	None	-	-	None	-	-	Yield	-	-	None		
Storage Length	100	-	100	-	-	-	100	-	-	-	-	100		
Veh in Median Storage	e,# -	0	-	-	0	-	-	0	-	-	0	-		
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-		
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92		
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2		
Mvmt Flow	64	9	51	101	3	79	20	2382	326	38	305	25		
Major/Minor	Minor2		ı	Minor1			Major1		1	Major2				
Conflicting Flow All	2844	2803	305	3009	2991	2545	330	0	0	2382	0	0		
Stage 1	381	381	-	2585	2585	-	-	_	_	-	-	-		
Stage 2	2463	2422	-	424	406	_	_	-	-	_	-	_		
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-		
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	_	-	-		_		
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	_	-	-		
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	_	-	2.218		_		
Pot Cap-1 Maneuver	~ 11	18	735	~ 8	14	~ 35	1229	-	-	203	-	-		
Stage 1	641	613	-	~ 35	52	-	-	_	-	-		_		
Stage 2	~ 41	63	-	608	598	-	-	-	-	_	-	-		
Platoon blocked, %								_	_			_		
Mov Cap-1 Maneuver	_	14	735	~ 3	11	~ 35	1229	-	-	203	-	-		
Mov Cap-2 Maneuver	_	14	-	~ 3	11	-	-	_	-	-		_		
Stage 1	631	472	-	~ 34	51	-	-	-	-	-	-	-		
Stage 2	-	62	-	428	460	-	_	_	-	_		_		
5 g														
Approach	EB			WB			NB			SB				
HCM Control Delay, s			\$ 1 ⁻	7516.5			0.1			2.8				
HCM LOS	_		ΨΙ	F			0.1			2.0				
TICIVI EOS				ı										
Minor Lane/Major Mvn	nt	NBL	NBT	NRP	FRI n1	FRI n2	EBLn3V	VRI n1	SBL	SBT	SBR			
Capacity (veh/h)	TC .	1229	-	NDI	LDLIII -	14	735	5	203	301	JUK			
HCM Lane V/C Ratio		0.016		-		0.621		36.739		-	-			
HCM Control Delay (s)		0.016	-			3 458.2		7516.5	26.8	-	-			
HCM Lane LOS			-	-	-\$				26.8 D	0				
	1	A	-	-	-	F 1.5	0.2	F 25.1	0.7	A	-			
HCM 95th %tile Q(veh)	0	-	-	-	1.5	0.2	23.1	0.7	-	-			
Notes														
~: Volume exceeds ca	pacity	\$: De	elay exc	ceeds 3	00s	+: Com	putation	Not D	efined	*: All	major	volume	in platoon	

	-	•	•	•	1	1
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Group Flow (vph)	102	171	505	164	971	976
v/c Ratio	0.35	0.14	0.96	0.23	1.02	0.74
Control Delay	48.9	2.0	64.2	25.8	62.9	7.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	48.9	2.0	64.2	25.8	62.9	7.2
Queue Length 50th (ft)	71	11	331	84	~798	149
Queue Length 95th (ft)	127	29	#601	136	#1050	283
Internal Link Dist (ft)	1044			3802	1526	
Turn Bay Length (ft)		200	300			
Base Capacity (vph)	293	1190	526	721	951	1324
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.35	0.14	0.96	0.23	1.02	0.74

Volume exceeds capacity, queue is theoretically infinite.

Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

	→	•	•	←	•	~
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	<u> </u>	T T	ሻ	•	ħ	7
Traffic Volume (veh/h)	94	157	465	151	893	898
Future Volume (veh/h)	94	157	465	151	893	898
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	U	1.00	1.00	U	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No	1.00	1.00	No	No	1.00
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	1070	0	505	164	971	976
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %		2				
Cap, veh/h	295	0.00	544	725	957	1157
Arrive On Green	0.16	0.00	0.19	0.39	0.54	0.54
Sat Flow, veh/h	1870	1585	1781	1870	1781	1585
Grp Volume(v), veh/h	102	0	505	164	971	976
Grp Sat Flow(s),veh/h/ln	1870	1585	1781	1870	1781	1585
Q Serve(g_s), s	5.8	0.0	23.1	7.1	64.5	51.9
Cycle Q Clear(g_c), s	5.8	0.0	23.1	7.1	64.5	51.9
Prop In Lane		1.00	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	295		544	725	957	1157
V/C Ratio(X)	0.35		0.93	0.23	1.01	0.84
Avail Cap(c_a), veh/h	295		544	725	957	1157
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	45.0	0.0	36.1	24.7	27.7	11.4
Incr Delay (d2), s/veh	3.2	0.0	22.5	0.7	32.6	5.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.9	0.0	6.3	3.2	33.7	43.2
Unsig. Movement Delay, s/veh		3.0	3.0	J.L	00.7	13.2
LnGrp Delay(d),s/veh	48.2	0.0	58.7	25.4	60.4	17.2
LnGrp LOS	D	0.0	50.7 E	23.4 C	F	В
	102	А	<u> </u>		1947	<u> </u>
Approach Vol, veh/h		А		669		
Approach Delay, s/veh	48.2			50.5	38.8	
Approach LOS	D			D	D	
Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	27.6	23.4		69.0		51.0
Change Period (Y+Rc), s	4.5	4.5		4.5		4.5
Max Green Setting (Gmax), s	23.1	18.9		64.5		46.5
Max Q Clear Time (g_c+l1), s	25.1	7.8		66.5		9.1
Green Ext Time (p_c), s	0.0	0.3		0.0		0.8
Intersection Summary	0.0	0.0		0.0		0.0
			42.0			
HCM 6th Ctrl Delay			42.0			
HCM 6th LOS			D			
Notes						

Intersection						
Int Delay, s/veh	11.8					
			14/5=	14/55	05:	055
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		ની	4		W	
Traffic Vol, veh/h	403	586	393	31	12	223
Future Vol, veh/h	403	586	393	31	12	223
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage	2,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	438	637	427	34	13	242
Major/Minor N	Major1	N	Major2	l N	Minor2	
Conflicting Flow All	461	0	viajui z -		1957	444
Stage 1	401	U	-	-	1957	444
	-				1513	
Stage 2	4.12	-	-	-	6.42	6.22
Critical Hdwy Stg 1	4.12		-	-	5.42	
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	2.218		-	-	3.518	2 210
Follow-up Hdwy		-	-		70	614
Pot Cap-1 Maneuver	1100		-	-		
Stage 1	-	-	-	-	646	-
Stage 2	-	-	-	-	201	-
Platoon blocked, %	1100	-	-	-		10.
Mov Cap-1 Maneuver	1100	-	-	-	27	614
Mov Cap-2 Maneuver	-	-	-	-	27	-
Stage 1	-	-	-	-	248	-
Stage 2	-	-	-	-	201	-
Approach	EB		WB		SB	
HCM Control Delay, s	4.2		0		65	
HCM LOS	4.2		U		F	
I IOIVI LOS					Г	
Minor Lane/Major Mvm	nt	EBL	EBT	WBT	WBR S	
Capacity (veh/h)		1100	-	-	-	291
HCM Lane V/C Ratio		0.398	-	-		0.878
HCM Control Delay (s)		10.4	0	-	-	65
HCM Lane LOS		В	Α	-	-	F
HCM 95th %tile Q(veh)		1.9	-	-	-	7.8

Intersection								
Int Delay, s/veh	14							
Movement	EBL	EBR	NBL	NBT	SBT	SBR		
Lane Configurations	LDL	LDK.	NDL	ND1	<u>361</u>	JUK 7		
Traffic Vol, veh/h	28	95	36	T 2481	T 412	10		
Future Vol, veh/h	28	95	36	2481	412	10		
Conflicting Peds, #/hr	0	0	0	0	0	0		
Sign Control	Stop	Stop	Free	Free	Free	Free		
RT Channelized	- -	None	-	None	-			
Storage Length	0	0	100	-	_	100		
Veh in Median Storage		-	-	0	0	-		
Grade, %	0	_	_	0	0	_		
Peak Hour Factor	92	92	92	92	92	92		
Heavy Vehicles, %	2	2	2	2	2	2		
Mvmt Flow	30	103	39	2697	448	11		
		.00	- 07		110			
Major/Mina-	Minara		Mole 1		Aniaro			
	Minor2		Major1		Major2			
Conflicting Flow All	3223	448	459	0	-	0		
Stage 1	448	-	-	-	-	-		
Stage 2	2775	- 4 22	112	-	-	-		
Critical Hdwy	6.42	6.22	4.12	-	-	-		
Critical Hdwy Stg 1	5.42	-	-	-	-	-		
Critical Hdwy Stg 2	5.42	2 210	2 210	-	-	-		
Follow-up Hdwy	3.518	3.318	2.218	-	-	-		
Pot Cap-1 Maneuver	~ 11	611	1102	-	-	-		
Stage 1	644	-	-	-	-	-		
Stage 2	46	-	-	-	-	-		
Platoon blocked, %	11	(11	1100	-	-	-		
Mov Cap-1 Maneuver	~ 11	611	1102	-	-	-		
Mov Cap-2 Maneuver	~ 11 621	-	-	-	-	-		
Stage 1		-	-	-	-	-		
Stage 2	46	-	-	-	-	-		
Approach	EB		NB		SB			
HCM Control Delay, st			0.1		0			
HCM LOS	F							
Minor Lane/Major Mvn	nt	NBL	NBT	EBLn1 I	EBLn2	SBT	SBR	
Capacity (veh/h)		1102		11	611		-	
HCM Lane V/C Ratio		0.036	_	2.767		_	-	
HCM Control Delay (s))	8.4		1481.8	12.1	-	-	
HCM Lane LOS		Α	Ψ -	F	В	_	-	
HCM 95th %tile Q(veh	1)	0.1	_	4.8	0.6	-	-	
·	.,	0.1		1.0	0.0			
Notes								
~: Volume exceeds ca	pacity	\$: De	elay exc	ceeds 30	00s	+: Com	outation Not Defined	*: All major volume in plator

Intersection									
Int Delay, s/veh	567								
Movement	EBL	EBR	NBL	NBT	SBT	SBR			
Lane Configurations	**			सी	î,				
Traffic Vol, veh/h	339	96	71	302	1065	560			
Future Vol, veh/h	339	96	71	302	1065	560			
Conflicting Peds, #/hr	0	0	0	0	0	0			
Sign Control	Stop	Stop	Free	Free	Free	Free			
RT Channelized	-	None	-	None	-	None			
Storage Length	0	-	-	-	-	-			
Veh in Median Storage	e,# 0	-	-	0	0	-			
Grade, %	0	-	-	0	0	-			
Peak Hour Factor	92	92	92	92	92	92			
Heavy Vehicles, %	2	2	2	2	2	2			
Mvmt Flow	368	104	77	328	1158	609			
Major/Minor	Minor2	ľ	Major1	N	/lajor2				
Conflicting Flow All	1945		1767	0	-	0			
Stage 1	1463	-	-	-	_	-			
Stage 2	482	_	_	_	_	_			
Critical Hdwy	6.42	6.22	4.12	_	_	_			
Critical Hdwy Stg 1	5.42	- 0.22	- 1.12	_	_	_			
Critical Hdwy Stg 2	5.42	_	_	_	_	_			
Follow-up Hdwy		3.318	2.218	_	_	_			
Pot Cap-1 Maneuver	~ 71	158	353	_	_	_			
Stage 1	~ 213	-	-	_	_	_			
Stage 2	621	_	_	_	_	_			
Platoon blocked, %	021			_	_	_			
Mov Cap-1 Maneuver	~ 52	158	353	_	_	_			
Mov Cap-2 Maneuver	~ 52	-	-	_	-	_			
Stage 1	~ 156	_	-	-	-	-			
Stage 2	621	_	_	_	_	_			
- · · · · · · ·									
Approach	EB		NB		SB				
HCM Control Delay, \$			3.4		0				
HCM LOS	5100.4 F		3.4		U				
HOW LOS	1								
Minor Lane/Major Mvn	nt	NBL	MRT	EBLn1	SBT	SBR			
	iit				JDT	אשכ			
Capacity (veh/h) HCM Lane V/C Ratio		353	-	61		-			
	١	0.219		7.751	-	-			
HCM Lang LOS)	18		3168.4	-	-			
HCM CEth Of the Office	.)	С	А	F = 4.7	-	-			
HCM 95th %tile Q(veh	IJ	0.8	-	54.7	-	-			
Notes									
~: Volume exceeds ca	pacity	\$: D∈	elay exc	eeds 30	00s	+: Com	putation Not Defined	*: All major volume in platoon	

Intersection						
Int Delay, s/veh	1.3					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥	TIBIT	4	HOR	ODL	<u> </u>
Traffic Vol, veh/h	61	68	581	60	98	1564
Future Vol, veh/h	61	68	581	60	98	1564
·	0	00	0	0	90	0
Conflicting Peds, #/hr						
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	
Storage Length	0	-	-	-	-	-
Veh in Median Storage		-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	66	74	632	65	107	1700
	- 00		002	- 00	107	1,00
Major/Minor	Aincr1		laier1		Joiet?	
	Minor1		/lajor1		/lajor2	
Conflicting Flow All	2579	665	0	0	697	0
Stage 1	665	-	-	-	-	-
Stage 2	1914	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	_	-
Critical Hdwy Stg 2	5.42	_	_	_	-	_
Follow-up Hdwy	3.518	3.318	_	_	2.218	-
Pot Cap-1 Maneuver	~ 28	460	-	-	899	
•					077	
Stage 1	511	-	-	-	-	-
Stage 2	127	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	0	460	-	-	899	-
Mov Cap-2 Maneuver	0	-	-	-	-	-
Stage 1	511	-	_	-	-	-
Stage 2	0	_	_	_	_	_
Juge 2	U					
Approach	WB		NB		SB	
HCM Control Delay, s	16.2		0		0.6	
HCM LOS	C					
Minor Lane/Major Mvm	ıt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	460	899	-
HCM Lane V/C Ratio		_	_	0.305		_
HCM Control Delay (s)		_	_	16.2	9.5	0
HCM Lane LOS				10.2 C	9.5 A	
		-	-			А
HCM 95th %tile Q(veh)		-	-	1.3	0.4	-
Notes						
~: Volume exceeds cap	nacity	\$ · D≏	lav exc	eeds 30)Os	+: Com
. Volume exceeds ca	Judity	ψ. DC	hay cat	ocus si	103	1. CUIII

Second	Intersection														
ane Configurations are Configurations aftic Vol, vehrh 56 8 45 307 11 45 64 354 127 65 1258 81 onflicting Peds, #hr 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Int Delay, s/veh	1822.8													
raffic Vol. verbih	Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR		
raffic Vol. yer/h	Lane Configurations	ሻ		7		44		ሻ	î,			र्स	7		
onflicting Peds, #/hr	Traffic Vol, veh/h	56			307		45	64		127	65				
Sign Control Slop Slop Slop Slop Slop Slop Slop Free	Future Vol, veh/h	56	8	45	307	11	45	64	354	127	65	1258	81		
Tchannelized - None - None - Yield - None lorage Length 100 - 100 - 100 100 - 100 100 - 100 100 - 100 100 - 10	Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0		
torage Length 100 - 100 100 100 100 eh in Median Storage, # 0 - 0 - 0 - 0 - 0 - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free		
eh in Median Storage, # - 0	RT Channelized		-	None	-	-	None	-	-	Yield	-	-	None		
rade, % - 0 - 0 - 0 0 - 0 0 - 0 0 0 - 0 0 0 - 0 0 0 - 0 0 0 0 - 0	Storage Length	100	-	100	-	-	-	100	-	-	-	-	100		
rade, % - 0 - 0 - 0 0 - 0 0 - 0 0 0 - 0 0 0 - 0 0 0 - 0 0 0 0 - 0		e,# -	0	-	-	0	-	-	0	-	-	0	-		
eak Hour Factor 92 92 92 92 92 92 92 92 92 92 92 92 92	Grade, %		0	-	-	0	-	-	0	-	-	0	-		
eavy Vehicles, % 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92		
Number Flow		2	2	2	2	2	2	2	2	2	2	2	2		
Algor/Minor Minor2 Minor1 Major1 Major2 Major3 Major4 Major5 Major	Mvmt Flow														
Onflicting Flow All 2065 2034 1367 2176 2191 454 1455 0 0 385 0 0 0 Stage 1 1509 1509 - 594 594		0.	•	.,			• • •	, 0	000	.00					
Onflicting Flow All 2065 2034 1367 2176 2191 454 1455 0 0 385 0 0 0 Stage 1 1509 1509 - 594 594	Major/Minor	Minor2			Minor1			Major1			Major2				
Stage 1			2034			2191			0			0	0		
Stage 2 556 525 1582 1597 - -								-			-		-		
ritical Hdwy 7.12 6.52 6.22 7.12 6.52 6.22 4.12 - 4.12 ritical Hdwy Stg 1 6.12 5.52 - 6.12 5.52				-			_	_	_	_	_	_	_		
ritical Hdwy Stg 1 6.12 5.52 - 6.12 5.52				6.22			6 22	4 12	_	_	4 12		_		
ritical Hdwy Sig 2 6.12 5.52 - 6.12 5.52				0.22			0.22	- 1.12	_		1.12		_		
ollow-up Hdwy 3.518 4.018 3.318 3.518 4.018 3.318 2.218 - 2.218 - - ot Cap-1 Maneuver -40 57 180 -33 45 606 465 - 1173 - - Stage 1 150 183 - 491 493 - -				_			_	_	_	_	_		_		
ot Cap-1 Maneuver				3 318			3 318	2 218	_	_	2 218		_		
Stage 1 150 183 - 491 493										_			_		
Stage 2 515 529 - ~ 137 166 - - - - - - - - -	•			100			-	-		_			_		
Stage 1															
Nov Cap-1 Maneuver ~ 16 32 180 ~ 13 25 606 465 - 1173 - - Nov Cap-2 Maneuver ~ 16 32 - ~ 13 25 - <td< td=""><td></td><td>313</td><td>327</td><td></td><td>137</td><td>100</td><td></td><td></td><td></td><td></td><td></td><td></td><td>_</td><td></td><td></td></td<>		313	327		137	100							_		
Stage 1		. 16	27	190	. 12	25	606	165	-	-	1172				
Stage 1 127 122 - 417 419							000	403	-	_					
Stage 2 391 449 - ~62 111 - ~ - ~ - ~ - ~ - ~ - ~ - ~ - ~ - ~ - ~							-	-	-	-	-	-	-		
pproach EB WB NB SB CM Control Delay, s\$ 921.8 \$ 11876.2 1.7 0.4 CM LOS F F Innor Lane/Major Mvmt NBL NBT NBR EBLn1 EBLn2 EBLn3WBLn1 SBL SBT SBR apacity (veh/h) 465 16 32 180 15 1173 CM Lane V/C Ratio 0.15 - 3.804 0.272 0.272 26.304 0.06 CM Control Delay (s) 14.1\$ 1746 155.2 333 1876.2 8.3 0 - CM Lane LOS B - F F D F A A - CM 95th %tile Q(veh) 0.5 - 8.3 0.9 1.1 50.4 0.2 otes	•						-	-	-	-	-	-	-		
CM Control Delay, s\$ 921.8 \$ 11876.2 1.7 0.4 CM LOS F F F Innor Lane/Major Mvmt NBL NBT NBR EBLn1 EBLn2 EBLn3WBLn1 SBL SBT SBR apacity (veh/h) 465 16 32 180 15 1173 CM Lane V/C Ratio 0.15 3.804 0.272 0.272 26.304 0.06 CM Control Delay (s) 14.1\$ 1746 155.2 3\$ 31876.2 8.3 0 - CM Lane LOS B - F F D F A A - CM 95th %tile Q(veh) 0.5 - 8.3 0.9 1.1 50.4 0.2 otes	Staye 2	391	449	-	~ 02	111	-	-	-	-	-	-	-		
CM Control Delay, s\$ 921.8 \$ 11876.2 1.7 0.4 CM LOS F F F Innor Lane/Major Mvmt NBL NBT NBR EBLn1 EBLn2 EBLn3WBLn1 SBL SBT SBR apacity (veh/h) 465 16 32 180 15 1173 CM Lane V/C Ratio 0.15 3.804 0.272 0.272 26.304 0.06 CM Control Delay (s) 14.1\$ 1746 155.2 3\$ 31876.2 8.3 0 - CM Lane LOS B - F F D F A A - CM 95th %tile Q(veh) 0.5 - 8.3 0.9 1.1 50.4 0.2 otes	Annragah	ΓD			WD			ND			CD				
CM LOS F F Innor Lane/Major Mvmt NBL NBT NBR EBLn1 EBLn2 EBLn3WBLn1 SBL SBT SBR apacity (veh/h)				Φ 1:											
Ilinor Lane/Major Mvmt NBL NBT NBR EBLn1 EBLn2 EBLn3WBLn1 SBL SBT SBR apacity (veh/h) 465 - 16 32 180 15 1173 - - CM Lane V/C Ratio 0.15 - 3.804 0.272 0.272 26.304 0.06 - - CM Control Delay (s) 14.1 - - \$ 1746 155.2 32 31876.2 8.3 0 - CM Lane LOS B - F F D F A A - CM 95th %tile Q(veh) 0.5 - 8.3 0.9 1.1 50.4 0.2 - - otes				\$ 1				1.7			0.4				
apacity (veh/h) 465 16 32 180 15 1173 CM Lane V/C Ratio 0.15 3.804 0.272 0.272 26.304 0.06 CM Control Delay (s) 14.1\$ 1746 155.2 33 31876.2 8.3 0 - CM Lane LOS B - F F D F A A - CM 95th %tile Q(veh) 0.5 - 8.3 0.9 1.1 50.4 0.2 otes	HCM LOS	F			F										
apacity (veh/h) 465 16 32 180 15 1173 CM Lane V/C Ratio 0.15 3.804 0.272 0.272 26.304 0.06 CM Control Delay (s) 14.1\$ 1746 155.2 33 31876.2 8.3 0 - CM Lane LOS B - F F D F A A - CM 95th %tile Q(veh) 0.5 - 8.3 0.9 1.1 50.4 0.2 otes	Minor Long/Major M.	o t	NDI	NDT	NDD	FDI n1	FDI 50	EDI 201	VDI1	CDI	CDT	CDD			
CM Lane V/C Ratio 0.15 3.804 0.272 0.272 26.304 0.06 CM Control Delay (s) 14.1\$ 1746 155.2 3\\$31876.2 8.3 0 - CM Lane LOS B - F F D F A A - CM 95th %tile Q(veh) 0.5 - 8.3 0.9 1.1 50.4 0.2 otes		III									SRI	SRK			
CM Control Delay (s) 14.1 \$ 1746 155.2 3 3 31876.2 8.3 0 - CM Lane LOS B F F D F A A - CM 95th %tile Q(veh) 0.5 - 8.3 0.9 1.1 50.4 0.2 otes				-							-	-			
CM Lane LOS B F F D F A A - CM 95th %tile Q(veh) 0.5 8.3 0.9 1.1 50.4 0.2 otes				-								-			
CM 95th %tile Q(veh) 0.5 8.3 0.9 1.1 50.4 0.2 otes)		-								-			
otes	HCM Lane LOS			-	-						Α	-			
	HCM 95th %tile Q(veh	1)	0.5	-	-	8.3	0.9	1.1	50.4	0.2	-	-			
: Volume exceeds capacity \$: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon	Notes														
	~: Volume exceeds ca	pacity	\$: De	elay exc	ceeds 3	00s	+: Com	putation	Not D	efined	*: All	major	volume	in platoon	

	-	•	•	•	1	
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Group Flow (vph)	183	701	1563	138	317	468
v/c Ratio	0.74	1.18	1.44	0.10	0.93	0.36
Control Delay	70.4	131.5	225.8	4.9	83.8	2.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	70.4	131.5	225.8	4.9	83.8	2.6
Queue Length 50th (ft)	146	~669	~1684	28	259	39
Queue Length 95th (ft)	227	#907	#1996	47	#450	76
Internal Link Dist (ft)	1044			3802	1526	
Turn Bay Length (ft)		200	300			
Base Capacity (vph)	302	595	1086	1422	342	1307
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.61	1.18	1.44	0.10	0.93	0.36

Volume exceeds capacity, queue is theoretically infinite.

Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

	→	•	•	←	4	/
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	<u> </u>	7	ሻ	<u>₩</u>	ሻ	7
Traffic Volume (veh/h)	168	645	1438	127	292	431
Future Volume (veh/h)	168	645	1438	127	292	431
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	U	1.00	1.00	U	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No	1.00	1.00	No	No	1.00
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	183	0	1563	138	317	468
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	216	0.55	1117	1371	345	1228
Arrive On Green	0.12	0.00	0.58	0.73	0.19	0.19
Sat Flow, veh/h	1870	1585	1781	1870	1781	1585
Grp Volume(v), veh/h	183	0	1563	138	317	468
Grp Sat Flow(s), veh/h/ln	1870	1585	1781	1870	1781	1585
Q Serve(g_s), s	11.8	0.0	71.5	2.6	21.5	11.6
Cycle Q Clear(g_c), s	11.8	0.0	71.5	2.6	21.5	11.6
Prop In Lane	-	1.00	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	216	.,00	1117	1371	345	1228
V/C Ratio(X)	0.85		1.40	0.10	0.92	0.38
Avail Cap(c_a), veh/h	312		1117	1467	355	1236
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	53.4	0.0	20.5	4.7	48.7	4.4
Incr Delay (d2), s/veh	13.6	0.0	185.2	0.0	27.9	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.2	0.0	82.2	0.8	12.0	19.7
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	66.9	0.0	205.7	4.8	76.5	4.6
LnGrp LOS	Ε		F	Α	Е	Α
Approach Vol, veh/h	183	А		1701	785	
Approach Delay, s/veh	66.9			189.4	33.7	
Approach LOS	Е			F	С	
Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	76.0	18.7		28.3		94.7
Change Period (Y+Rc), s	4.5	4.5		4.5		4.5
Max Green Setting (Gmax), s	71.5	20.5		24.5		96.5
Max Q Clear Time (g_c+l1), s	73.5	13.8		23.5		4.6
Green Ext Time (p_c), s	0.0	0.4		0.4		0.7
Intersection Summary						
HCM 6th Ctrl Delay			135.2			
,						
HCM 6th LOS			F			
Notes						

337.2					
FRI	FRT	WRT	WRR	SRI	SBR
LDL			אטא		אטכ
105			21		969
					969
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-	ivone	-			None
- "	-	-			-
⊖,# -					-
-			-		-
					92
					2
201	443	649	37	28	1053
Major1	Λ	Major2	N	Minor?	
					4/0
	U				668
-	-				-
-	-	-			-
4.12	-	-	-		6.22
-	-	-	-		-
-	-	-	-		-
2.218	-	-	-		
908	-	-	-	132	~ 458
-	-	-	-	510	-
-	-	-	-	421	-
	-	-	-		
908	-	-	-	93	~ 458
	_	_	_		-
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<u>-</u>	_				_
-	-	-	-	4Z I	-
EB		WB		SB	
			\$		
.			Ψ		
				'	
nt	EBL	EBT	WBT	WBR:	SBL _{n1}
nt	EBL 908	EBT -	WBT -	WBR:	SBLn1 415
nt	908	EBT -	WBT -	-	415
	908 0.221	-	-	-	415 2.606
nt)	908 0.221 10.1	- - 0	-	-	415
)	908 0.221 10.1 B	-	- - -	-	415 2.606 750.2 F
	908 0.221 10.1	- - 0	- - -	-	415 2.606 750.2
)	908 0.221 10.1 B 0.8	- 0 A	- - -	- - -\$ -	415 2.606 750.2 F
	## 185 185 0 Free	EBL EBT 185 408 185 408 0 0 Free Free - None 0 92 92 2 2 2 201 443 Major1	EBL EBT WBT 185 408 597 185 408 597 0 0 0 0 Free Free Free - None 0 0 92 92 92 2 2 2 201 443 649 Major1 Major2 686 0 4.12 4.12 2.218 908 908 908 908 908	EBL EBT WBT WBR 185 408 597 34 0 0 0 0 0 Free Free Free Free - None - None - O O O 92 92 92 92 2 2 2 2 2 201 443 649 37 Major1 Major2 N 686 0 - O - O -	EBL EBT WBT WBR SBL 185 408 597 34 26 185 408 597 34 26 0 0 0 0 0 Free Free Free Stop - None - None - 0 - 0 0 - 0 - 0 0 - 0 - 0 0 - 0 92 92 92 92 92 2 2 2 2 2 2 201 443 649 37 28 Major1 Major2 Minor2 Minor2 686 0 - 0 1513 - - - 648 - - - 642 - - - 5.42 2.218 - -

Intersection								
Int Delay, s/veh	13.2						•	
Movement	EBL	EBR	NBL	NBT	SBT	SBR		
Lane Configurations	ች	7	ች		↑	7		
Traffic Vol, veh/h	25	89	129	519	1573	37		
Future Vol, veh/h	25	89	129	519	1573	37		
Conflicting Peds, #/hr	0	0	0	0	0	0		
Sign Control	Stop	Stop	Free	Free	Free	Free		
RT Channelized	-	None	-	None	-			
Storage Length	0	0	100	-	-	100		
Veh in Median Storage		-	-	0	0	-		
Grade, %	0	-	-	0	0	-		
Peak Hour Factor	92	92	92	92	92	92		
Heavy Vehicles, %	2	2	2	2	2	2		
Mvmt Flow	27	97	140	564	1710	40		
ANIVITAL I IOVV	ZI	71	170	304	1710	70		
Major/Minor	Minora		Aciest		Acia-2		ļ	
	Minor2		Major1		Major2	_		
Conflicting Flow All	2554	1710	1750	0	-	0		
Stage 1	1710	-	-	-	-	-		
Stage 2	844	-	-	-	-	-		
Critical Hdwy	6.42	6.22	4.12	-	-	-		
Critical Hdwy Stg 1	5.42	-	-	-	-	-		
Critical Hdwy Stg 2	5.42	-	-	-	-	-		
Follow-up Hdwy	3.518		2.218	-	-	-		
Pot Cap-1 Maneuver	29	112	358	-	-	-		
Stage 1	160	-	-	-	-	-		
Stage 2	422	-	-	-	-	-		
Platoon blocked, %				-	-	-		
Mov Cap-1 Maneuver	~ 18	112	358	_	-	-		
Mov Cap 1 Maneuver	~ 18	- 112	-	-	_	_		
Stage 1	97	_	_	_	_	_		
Stage 2	422	_	_	_	_	_		
Jiago Z	744							
Approach	EB		NB		SB			
HCM Control Delay, s			4.3		0			
HCM LOS	F							
Minor Lane/Major Mvn	nt	NBL	MRT	EBLn1 E	FRI n2	SBT	ĺ	SBR
	II		NDII					
Capacity (veh/h)		358	-	18	112	-		-
HCM Lane V/C Ratio		0.392	-		0.864	-		-
HCM Control Delay (s))	21.4	-\$	705.7		-		-
HCM Lane LOS		С	-	F	F	-		-
HCM 95th %tile Q(veh	1)	1.8	-	3.8	5.1	-		-
Notes								
~: Volume exceeds ca	nacity	\$∙ Do	lav eve	eeds 30	00s	+: Com	r	outation Not Defined
~. volume exceeds ca	pacity	⊅. D€	aay exc	ccus 3	005	+. CUII)	ĺ	DUIALIOH NOL Dennec

PROJECTED WITH IMPROVEMENTS CONDITIONS CAPACITY ANALYSES



ntersection								
nt Delay, s/veh	2377							
Movement	EBL	EBR	NBL	NBT	SBT	SBR		
ane Configurations	¥			4	f)			
raffic Vol, veh/h	549	48	144	1924	211	281		
future Vol, veh/h	549	48	144	1924	211	281		
Conflicting Peds, #/hr		0	0	0	0	0		
Sign Control	Stop	Stop	Free	Free	Free	Free		
RT Channelized	-	None	-	None	-	None		
Storage Length	0	-	_	-	_	-		
/eh in Median Storag		-	_	0	0	-		
Grade, %	0	_	_	0	0	_		
Peak Hour Factor	92	92	92	92	92	92		
leavy Vehicles, %	2	2	2	2	2	2		
Nymt Flow	597	52	157	2091	229	305		
WIII FIOW	397	52	107	2091	229	300		
Major/Minor	Minor2	ľ	Major1	N	Major2			
Conflicting Flow All	2787	382	534	0	-	0		
Stage 1	382	-	-	-	_	-		
Stage 2	2405	_	_	_	_	_		
Critical Hdwy	6.42	6.22	4.12	_	_	_		
itical Hdwy Stg 1	5.42	-	-	_		_		
itical Hdwy Stg 2	5.42	_	_	_	_	-		
ollow-up Hdwy	3.518	3.318	2 218	_	_	_		
ot Cap-1 Maneuver	~ 21	665	1034	_	_	-		
Stage 1	690	-	1001	_	_	_		
Stage 2	~ 71	_	_	_	_	_		
Platoon blocked, %	- 1			_	_	_		
Nov Cap-1 Maneuver	~ 21	665	1034	_	-	_		
Nov Cap-1 Maneuver Nov Cap-2 Maneuver		- 005	1004	_	-			
Stage 1	690	-	-	-	-	-		
Stage 2	~ 71							
Slaye 2	/ 1	-	-	-	-	-		
oproach	EB		NB		SB			
CM Control Delay\$ \$			0.6		0			
ICM LOS	F		3.0					
OW EGG	'							
Minor Lane/Major Mvr	mt	NBL	NBT	EBLn1	SBT	SBR		
Capacity (veh/h)		1034	-	23	_			
ICM Lane V/C Ratio		0.151	- ;	28.214	-	-		
ICM Control Delay (s	s)	9.1		2567.8	-	-		
ICM Lane LOS	7	A	A	F	_	_		
ICM 95th %tile Q(vel	h)	0.5	-	81.2	-	-		
lotes	,							
: Volume exceeds ca	anacity.	¢. Da	Nav ovo	eeds 30	വാ	L. Com	outation Not Defined	*: All major volume in platoon

Intersection									
Int Delay, s/veh	162.5								
Movement	WBL	WBR	NBT	NBR	SBL	SBT			
Lane Configurations	₩.	VVDIX	1\D1	NDIX	JUL	<u></u>			
Fraffic Vol., veh/h	29	99	2417	56	44	462			
future Vol, veh/h	29	99	2417			462			
	0	0	2417	56 0	44	402			
onflicting Peds, #/hr									
ign Control	Stop	Stop	Free	Free	Free	Free			
T Channelized	-	None	-	None	-	None			
Storage Length	0	-	-	-	-	-			
eh in Median Storage		-	0	-	-	0			
Grade, %	0	-	0	-	-	0			
eak Hour Factor	92	92	92	92	92	92			
eavy Vehicles, %	2	2	2	2	2	2			
vmt Flow	32	108	2627	61	48	502			
ajor/Minor	Minor1		Major1	N	Major2				
onflicting Flow All	3256	2658	0		2688	0			
Stage 1	2658		-	-	-	-			
Stage 2	598	-	_	-	-	-			
ritical Hdwy	6.42	6.22	-	-	4.12	-			
itical Hdwy Stg 1	5.42	-	_	_	-	_			
itical Hdwy Stg 2	5.42	-	_	_	_	_			
ollow-up Hdwy	3.518		_	_	2.218	_			
ot Cap-1 Maneuver	~ 10	~ 29	_	_	153	_			
Stage 1	53		_	_	-	_			
Stage 2	549	-		_	_	_			
atoon blocked, %	J 7 /		_						
ov Cap-1 Maneuver	~ 6	~ 29	_	-	153	_			
lov Cap-1 Maneuver	~ 6	~ 29	-	_	100	-			
Stage 1	53	-	-	-	-	-			
•	310	-	-	-	-	-			
Stage 2	310	-	-	-	-	-			
	1								
pproach	WB		NB		SB				
CM Control Delay, \$			0		3.4				
CM LOS	F								
inor Lane/Major Mvn	nt	NBT	NBRV	VBLn1	SBL	SBT			
apacity (veh/h)		-	-	16	153	-			
CM Lane V/C Ratio		-	_	8.696		_			
CM Control Delay (s)	-		3930.9	38.9	0			
CM Lane LOS		_	_ Ψ.	F	50.7 E	A			
CM 95th %tile Q(veh	1)	-	_	18.2	1.2	-			
·	'/			10.2	1.2				
otes									
Volume exceeds ca	pacity	\$: D€	elay exc	ceeds 30	UOS	+: Com	putation Not Defined	*: All major volume	in platoon

Queues Pleasant Creek TIS

3: Lewisburg Pike (SR 106/US 431) & Site Access A/Harpeth-Peytonsvilleo Robaldvith Improvements AM

	•	-	*	←	1	Ť	ţ	4	
Lane Group	EBL	EBT	EBR	WBT	NBL	NBT	SBT	SBR	
Lane Group Flow (vph)	64	9	51	183	20	2708	343	25	
v/c Ratio	0.51	0.04	0.22	0.96	0.02	1.80	0.80	0.02	
Control Delay	76.9	59.1	16.8	112.0	2.6	382.4	24.1	0.9	
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total Delay	76.9	59.1	16.8	112.0	2.6	382.4	24.1	0.9	
Queue Length 50th (ft)	60	8	0	161	3	~3998	145	0	
Queue Length 95th (ft)	113	27	42	#322	8	#4216	#464	5	
Internal Link Dist (ft)		742		1113		2323	1073		
Turn Bay Length (ft)	100		100		100			100	
Base Capacity (vph)	126	223	234	191	833	1503	428	1302	
Starvation Cap Reductn	0	0	0	0	0	0	0	0	
Spillback Cap Reductn	0	0	0	0	0	0	0	0	
Storage Cap Reductn	0	0	0	0	0	0	0	0	
Reduced v/c Ratio	0.51	0.04	0.22	0.96	0.02	1.80	0.80	0.02	

Volume exceeds capacity, queue is theoretically infinite.

Queue shown is maximum after two cycles.

^{# 95}th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

3: Lewisburg Pike (SR 106/US 431) & Site Access A/Harpeth-Peytonsvilleo Robaldvith Improvements AM

	•	→	•	•	•	•	4	†	~	/	↓	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ň	†	7		4		Ť	f)			र्स	7
Traffic Volume (veh/h)	59	8	47	93	3	73	18	2191	300	35	281	23
Future Volume (veh/h)	59	8	47	93	3	73	18	2191	300	35	281	23
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	64	9	51	101	3	79	20	2382	0	38	305	25
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	174	224	190	130	4	73	48	1534		27	200	1300
Arrive On Green	0.12	0.12	0.12	0.12	0.12	0.12	0.82	0.82	0.00	0.82	0.82	0.82
Sat Flow, veh/h	1316	1870	1585	769	31	608	1050	1870	0	0	244	1585
Grp Volume(v), veh/h	64	9	51	183	0	0	20	2382	0	343	0	25
Grp Sat Flow(s), veh/h/ln	1316	1870	1585	1408	0	0	1050	1870	0	244	0	1585
Q Serve(g_s), s	0.0	0.6	4.4	17.4	0.0	0.0	0.0	123.0	0.0	0.0	0.0	0.4
Cycle Q Clear(g_c), s	8.6	0.6	4.4	18.0	0.0	0.0	123.0	123.0	0.0	123.0	0.0	0.4
Prop In Lane	1.00		1.00	0.55	_	0.43	1.00		0.00	0.11	_	1.00
Lane Grp Cap(c), veh/h	174	224	190	206	0	0	48	1534		227	0	1300
V/C Ratio(X)	0.37	0.04	0.27	0.89	0.00	0.00	0.42	1.55		1.51	0.00	0.02
Avail Cap(c_a), veh/h	174	224	190	206	0	0	48	1534		227	0	1300
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	61.8	58.4	60.0	66.9	0.0	0.0	75.0	13.5	0.0	62.9	0.0	2.5
Incr Delay (d2), s/veh	1.3	0.1	0.7	33.9	0.0	0.0	5.7	252.2	0.0	252.4	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.4	0.3	1.8	8.9	0.0	0.0	0.8	137.2	0.0	23.2	0.0	0.1
Unsig. Movement Delay, s/veh		=						0.1==		0.1=0		
LnGrp Delay(d),s/veh	63.1	58.4	60.8	100.8	0.0	0.0	80.7	265.7	0.0	315.2	0.0	2.5
LnGrp LOS	E	E	E	F	А	А	F	F		F	А	A
Approach Vol, veh/h		124			183			2402	Α		368	
Approach Delay, s/veh		61.8			100.8			264.1			294.0	
Approach LOS		Е			F			F			F	
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		127.5		22.5		127.5		22.5				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		123.0		18.0		123.0		18.0				
Max Q Clear Time (g_c+I1), s		125.0		10.6		125.0		20.0				
Green Ext Time (p_c), s		0.0		0.2		0.0		0.0				
Intersection Summary												
HCM 6th Ctrl Delay			249.8									
HCM 6th LOS			F									
Notes												

notes

	-	•	•	•	1	~
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Group Flow (vph)	102	171	505	164	971	976
v/c Ratio	0.35	0.14	0.96	0.23	1.02	0.74
Control Delay	48.9	2.0	64.2	25.8	62.9	7.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	48.9	2.0	64.2	25.8	62.9	7.2
Queue Length 50th (ft)	71	11	331	84	~798	149
Queue Length 95th (ft)	127	29	#601	136	#1050	283
Internal Link Dist (ft)	1044			3802	1526	
Turn Bay Length (ft)		200	300			
Base Capacity (vph)	293	1190	526	721	951	1324
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.35	0.14	0.96	0.23	1.02	0.74

Volume exceeds capacity, queue is theoretically infinite.

Queue shown is maximum after two cycles.

^{# 95}th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

	→	•	•	←	•	~
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	<u> </u>	7	ሻ	<u>₩</u>	NDE 1	₹
Traffic Volume (veh/h)	94	157	465	151	893	898
Future Volume (veh/h)	94	157	465	151	893	898
Initial Q (Qb), veh	0	0	0	0	073	070
	U	1.00	1.00	U	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00			1.00		
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No	1070	1070	No	No	1070
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	102	0	505	164	971	976
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	295		544	725	957	1157
Arrive On Green	0.16	0.00	0.19	0.39	0.54	0.54
Sat Flow, veh/h	1870	1585	1781	1870	1781	1585
Grp Volume(v), veh/h	102	0	505	164	971	976
Grp Sat Flow(s), veh/h/ln	1870	1585	1781	1870	1781	1585
Q Serve(g_s), s	5.8	0.0	23.1	7.1	64.5	51.9
Cycle Q Clear(g_c), s	5.8	0.0	23.1	7.1	64.5	51.9
Prop In Lane	3.0	1.00	1.00	7.1	1.00	1.00
Lane Grp Cap(c), veh/h	295	1.00	544	725	957	1157
V/C Ratio(X)	0.35		0.93	0.23	1.01	0.84
					957	1157
Avail Cap(c_a), veh/h	295	1.00	544	725		
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	45.0	0.0	36.1	24.7	27.7	11.4
Incr Delay (d2), s/veh	3.2	0.0	22.5	0.7	32.6	5.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.9	0.0	6.3	3.2	33.7	43.2
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	48.2	0.0	58.7	25.4	60.4	17.2
LnGrp LOS	D		Е	С	F	В
Approach Vol, veh/h	102	А		669	1947	
Approach Delay, s/veh	48.2	- 1		50.5	38.8	
Approach LOS	40.2 D			D	D	
	D D			D	D	
Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	27.6	23.4		69.0		51.0
Change Period (Y+Rc), s	4.5	4.5		4.5		4.5
Max Green Setting (Gmax), s	23.1	18.9		64.5		46.5
Max Q Clear Time (g_c+l1), s	25.1	7.8		66.5		9.1
Green Ext Time (p_c), s	0.0	0.3		0.0		0.8
Intersection Summary	0.0	0.0		0.0		0.0
			40.0			
HCM 6th Ctrl Delay			42.0			
HCM 6th LOS			D			
Notes						

Intersection						
Int Delay, s/veh	11.8					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	LDL	<u>∟Б</u>	vvb1 ♣	NOI	JDL W	SDIK
Traffic Vol, veh/h	403	586	393	31	12	223
Future Vol, veh/h	403	586	393	31	12	223
Conflicting Peds, #/hr		000	393	0	0	223
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	riee -	None	-	None	310p	None
Storage Length	-	NONE -	_	-	0	NONE -
Veh in Median Storag	ne.# -	0	0		0	_
Grade, %	ye,# - -	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	438	637	427	34	13	242
IVIVIIIL I IOW	430	037	427	34	13	242
Major/Minor	Major1		Major2		Vinor2	
Conflicting Flow All	461	0	-	0	1957	444
Stage 1	-	-	-	-	444	-
Stage 2	-	-	-	-	1513	-
Critical Hdwy	4.12	-	-	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	2.218	-	-	-	3.518	3.318
Pot Cap-1 Maneuver	1100	-	-	-	70	614
Stage 1	-	-	-	-	646	-
Stage 2	-	-	-	-	201	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuve	r 1100	-	-	-	27	614
Mov Cap-2 Maneuve	r -	-	-	-	27	-
Stage 1	-	-	-	-	248	-
Stage 2	-	-	-	-	201	-
Approach	EB		WB		SB	
HCM Control Delay,			0		65	
HCM LOS	3 4.2		U		F	
HOW LUS					Г	
Minor Lane/Major Mv	mt	EBL	EBT	WBT	WBR S	SBLn1
Capacity (veh/h)		1100	-	-	-	291
HOME THE DELLA		0.200				0.070

65

F

7.8

- 0.878

0

Α

0.398

10.4

В

1.9

HCM Lane V/C Ratio

HCM Lane LOS

HCM Control Delay (s)

HCM 95th %tile Q(veh)

Intersection								
Int Delay, s/veh	14							
Movement	EBL	EBR	NBL	NBT	SBT	SBR		
Lane Configurations	ሻ	7	ሻ	†	<u> </u>	7		
Traffic Vol, veh/h	28	95	36	2481	412	10		
Future Vol, veh/h	28	95	36	2481	412	10		
Conflicting Peds, #/hr	0	0	0	0	0	0		
Sign Control	Stop	Stop	Free	Free	Free	Free		
RT Channelized		None	-	None	-	None		
Storage Length	0	0	100	-	-	100		
Veh in Median Storage	e, # 0	-	-	0	0	-		
Grade, %	0	-	-	0	0	-		
Peak Hour Factor	92	92	92	92	92	92		
Heavy Vehicles, %	2	2	2	2	2	2		
Mvmt Flow	30	103	39	2697	448	11		
Major/Minor	Minor2		Major1	1	Major2			
Conflicting Flow All	3223	448	459	0	-	0		
Stage 1	448	-	-	-	-	-		
Stage 2	2775	-	-	-	-	-		
Critical Hdwy	6.42	6.22	4.12	-	-	-		
Critical Hdwy Stg 1	5.42			-	-	_		
Critical Hdwy Stg 2	5.42	-	-	-	-	-		
Follow-up Hdwy		3.318	2.218	_	_	-		
Pot Cap-1 Maneuver	~ 11		1102	_	-	-		
Stage 1	644	-	-	-	-	-		
Stage 2	46	-	-	-	-	-		
Platoon blocked, %				-	-	-		
Mov Cap-1 Maneuver	~ 11	611	1102	-	-	-		
Mov Cap-2 Maneuver	~ 11	-	-	-	-	-		
Stage 1	621	-	-	-	-	-		
Stage 2	46	-	-	-	-	-		
Approach	EB		NB		SB			
HCM Control Delay, s\$			0.1		0			
HCM LOS	F		0.1					
TOW EOU	'							
Minor Lane/Major Mvm	nt	NBL	NRT	EBLn1	FRI n2	SBT	SBR	
	IL	1102	- 1001	11	611	<u> </u>	-	
Capacity (veh/h) HCM Lane V/C Ratio		0.036		2.767		-	-	
HCM Control Delay (s)		8.4		1481.8	12.1	-	<u>-</u>	
HCM Lane LOS		0.4 A	Φ	1401.0 F	12.1 B	-	-	
HCM 95th %tile Q(veh)	0.1	-	4.8	0.6	-	<u> </u>	
)	0.1		4.0	0.0	_	•	
Notes								
~: Volume exceeds ca	pacity	\$: De	elay exc	ceeds 3	00s	+: Com	outation Not Defined	*: All major volume in platoon

Intersection						
Int Delay, s/veh	567					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	¥			4	ĵ»	
Traffic Vol, veh/h	339	96	71	302	1065	560
Future Vol, veh/h	339	96	71	302	1065	560
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage		-	-	0	0	-
Grade, %	0	-	-	0	0	- 02
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	1150	2
Mvmt Flow	368	104	77	328	1158	609
	Minor2		Major1		/lajor2	
Conflicting Flow All	1945	1463	1767	0	-	0
Stage 1	1463	-	-	-	-	-
Stage 2	482	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy		3.318		-	-	-
Pot Cap-1 Maneuver	~ 71	158	353	-	-	-
Stage 1	~ 213	-	-	-	-	-
Stage 2	621	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	~ 52	158	353	-	-	-
Mov Cap-2 Maneuver		-	-	-	-	-
Stage 1	~ 156	-	-	-	-	-
Stage 2	621	-	-	-	-	-
Approach	EB		NB		SB	
HCM Control Delay, \$			3.4		0	
HCM LOS	F					
Minor Long /Minor Ma		NDI	NDT	EDL - 1	CDT	CDD
Minor Lane/Major Mvn	1[NBL	NRII	EBLn1	SBT	SBR
Capacity (veh/h)		353	-	61	-	-
HCM Lane V/C Ratio		0.219		7.751	-	-
HCM Control Delay (s)		18		3168.4	-	-
HCM Lane LOS	`	С	Α	F	-	-
HCM 95th %tile Q(veh)	8.0	-	54.7	-	-
Notes						
~: Volume exceeds ca	pacity	\$: De	elay exc	ceeds 30	00s	+: Com

Intersection						
Int Delay, s/veh	1.3					
		WIDD	NDT	NDD	CDI	CDT
Movement Lang Configurations	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	\	40	þ	40	00	1541
Traffic Vol., veh/h	61	68	581	60	98	1564
Future Vol, veh/h	61	68	581	60	98 0	1564
Conflicting Peds, #/hr			0 Eroo	0 Eroo		0 Eroo
Sign Control RT Channelized	Stop	Stop None	Free	Free	Free -	Free
	0	None -	-	None		None
Storage Length Veh in Median Storag		-	0	-	-	0
Grade, %	0	- 00	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	66	74	632	65	107	1700
Major/Minor	Minor1	N	/lajor1	1	Major2	
Conflicting Flow All	2579	665	0	0	697	0
Stage 1	665	-	-	-	-	-
Stage 2	1914	-	_	_	_	-
Critical Hdwy	6.42	6.22	_	_	4.12	_
Critical Hdwy Stg 1	5.42	-	_	_		_
Critical Hdwy Stg 2	5.42	-	_	_	_	_
Follow-up Hdwy	3.518		_	_	2.218	_
Pot Cap-1 Maneuver	~ 28	460	_	_	899	_
Stage 1	511	-	_	_	-	_
Stage 2	127	_	-	-	_	_
Platoon blocked, %	127	-	_	-	-	_
	. 0	460	-	-	899	
Mov Cap-1 Maneuver			-	-		-
Mov Cap-2 Maneuver		-	-	-	-	-
Stage 1	511	-	-	-	-	-
Stage 2	0	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	16.2		0		0.6	
HCM LOS	С					
NA: 1 /NA: NA		NDT	NDDV	VDI 4	CDI	CDT
Minor Lane/Major Mvi	mt	NBT	NRKA	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	460	899	-
HCM Lane V/C Ratio		-	-	0.305		-
HCM Control Delay (s	s)	-	-	16.2	9.5	0
HCM Lane LOS		-	-	С	Α	Α
HCM 95th %tile Q(vel	h)	-	-	1.3	0.4	-
Notes						
	an a aitu	¢. Do	Jav. ava	20 do 20	200	Com
~: Volume exceeds ca	apacity	\$: De	elay exc	eeds 30	JUS	+: Com

Queues Pleasant Creek TIS

3: Lewisburg Pike (SR 106/US 431) & Site Access A/Harpeth-Peytonsvilleo Robaldvith Improvements PM

	•	-	•	•	1	Ť	¥	4	
Lane Group	EBL	EBT	EBR	WBT	NBL	NBT	SBT	SBR	
Lane Group Flow (vph)	61	9	49	395	70	523	1438	88	
v/c Ratio	0.18	0.02	0.12	1.21	1.23	0.42	1.17	0.08	
Control Delay	41.6	38.6	11.1	160.8	219.1	9.0	107.4	4.5	
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total Delay	41.6	38.6	11.1	160.8	219.1	9.0	107.4	4.5	
Queue Length 50th (ft)	41	6	0	~403	~73	159	~1441	15	
Queue Length 95th (ft)	82	21	34	#608	#127	223	#1706	31	
Internal Link Dist (ft)		742		1113		2323	1073		
Turn Bay Length (ft)	100		100		100			100	
Base Capacity (vph)	338	437	408	327	57	1254	1229	1110	
Starvation Cap Reductn	0	0	0	0	0	0	0	0	
Spillback Cap Reductn	0	0	0	0	0	0	0	0	
Storage Cap Reductn	0	0	0	0	0	0	0	0	
Reduced v/c Ratio	0.18	0.02	0.12	1.21	1.23	0.42	1.17	0.08	

Intersection Summary

Volume exceeds capacity, queue is theoretically infinite.

Queue shown is maximum after two cycles.

^{# 95}th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

3: Lewisburg Pike (SR 106/US 431) & Site Access A/Harpeth-Peytonsvilleo Robaldvith Improvements PM

	۶	→	•	•	←	•	4	†	~	>	ļ	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ň	†	7		4		Ť	ĵ»			4	7
Traffic Volume (veh/h)	56	8	45	307	11	45	64	354	127	65	1258	81
Future Volume (veh/h)	56	8	45	307	11	45	64	354	127	65	1258	81
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	61	9	49	334	12	49	70	385	0	71	1367	88
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	426	439	372	321	10	40	145	1302		81	1204	1103
Arrive On Green	0.23	0.23	0.23	0.23	0.23	0.23	0.70	0.70	0.00	0.70	0.70	0.70
Sat Flow, veh/h	1341	1870	1585	1151	41	169	398	1870	0	75	1730	1585
Grp Volume(v), veh/h	61	9	49	395	0	0	70	385	0	1438	0	88
Grp Sat Flow(s), veh/h/ln	1341	1870	1585	1361	0	0	398	1870	0	1805	0	1585
Q Serve(g_s), s	0.0	0.5	3.2	30.0	0.0	0.0	0.0	10.2	0.0	76.5	0.0	2.3
Cycle Q Clear(g_c), s	4.0	0.5	3.2	30.5	0.0	0.0	47.5	10.2	0.0	90.5	0.0	2.3
Prop In Lane	1.00	0.5	1.00	0.85	0.0	0.12	1.00	10.2	0.00	0.05	0.0	1.00
Lane Grp Cap(c), veh/h	426	439	372	370	0	0.12	145	1302	0.00	1286	0	1103
V/C Ratio(X)	0.14	0.02	0.13	1.07	0.00	0.00	0.48	0.30		1.12	0.00	0.08
Avail Cap(c_a), veh/h	426	439	372	370	0.00	0.00	145	1302		1286	0.00	1103
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	39.6	38.3	39.3	52.1	0.00	0.00	13.2	7.6	0.00	20.5	0.00	6.4
Incr Delay (d2), s/veh	0.2	0.0	0.2	65.5	0.0	0.0	2.5	0.1	0.0	64.3	0.0	0.0
Initial Q Delay(d3),s/veh	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.6	0.0	1.3	18.7	0.0	0.0	1.2	3.4	0.0	53.9	0.0	0.0
Unsig. Movement Delay, s/veh		0.2	1.3	10.7	0.0	0.0	1.2	3.4	0.0	55.9	0.0	0.7
	39.8	38.3	39.5	117.5	0.0	0.0	15.7	7.7	0.0	84.8	0.0	6.4
LnGrp Delay(d),s/veh		30.3 D		F			15.7 B		0.0	04.0 F		
LnGrp LOS	D		D	Г	A	A	Б	A	Δ	Г	A 150/	A
Approach Vol, veh/h		119			395			455	А		1526	
Approach Delay, s/veh		39.5			117.5			8.9			80.3	
Approach LOS		D			F			А			F	
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		95.0		35.0		95.0		35.0				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		90.5		30.5		90.5		30.5				
Max Q Clear Time (g_c+l1), s		49.5		6.0		92.5		32.5				
Green Ext Time (p_c), s		3.5		0.3		0.0		0.0				
Intersection Summary												
HCM 6th Ctrl Delay			71.2									
HCM 6th LOS			Е									
Notes												

Unsignalized Delay for [NBR] is excluded from calculations of the approach delay and intersection delay.

	→	•	•	•	4	
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Group Flow (vph)	183	701	1563	138	317	468
v/c Ratio	0.74	1.18	1.44	0.10	0.93	0.36
Control Delay	70.4	131.5	225.8	4.9	83.8	2.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	70.4	131.5	225.8	4.9	83.8	2.6
Queue Length 50th (ft)	146	~669	~1684	28	259	39
Queue Length 95th (ft)	227	#907	#1996	47	#450	76
Internal Link Dist (ft)	1044			3802	1526	
Turn Bay Length (ft)		200	300			
Base Capacity (vph)	302	595	1086	1422	342	1307
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.61	1.18	1.44	0.10	0.93	0.36

Intersection Summary

Volume exceeds capacity, queue is theoretically infinite.

Queue shown is maximum after two cycles.

^{# 95}th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

	→	•	•	←	•	/
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	<u> </u>	7	ሻ	<u> </u>	ሻ	7
Traffic Volume (veh/h)	168	645	1438	127	292	431
Future Volume (veh/h)	168	645	1438	127	292	431
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	U	1.00	1.00	U	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No	1.00	1.00	No	No	1.00
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	183	0	1563	138	317	468
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	216	0.00	1117	1371	345	1228
Arrive On Green	0.12	0.00	0.58	0.73	0.19	0.19
Sat Flow, veh/h	1870	1585	1781	1870	1781	1585
Grp Volume(v), veh/h	183	0	1563	138	317	468
Grp Sat Flow(s), veh/h/ln	1870	1585	1781	1870	1781	1585
Q Serve(g_s), s	11.8	0.0	71.5	2.6	21.5	11.6
Cycle Q Clear(g_c), s	11.8	0.0	71.5	2.6	21.5	11.6
Prop In Lane		1.00	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	216	1.00	1117	1371	345	1228
V/C Ratio(X)	0.85		1.40	0.10	0.92	0.38
Avail Cap(c_a), veh/h	312		1117	1467	355	1236
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
	1.00	0.00	1.00	1.00	1.00	1.00
Upstream Filter(I)						
Uniform Delay (d), s/veh	53.4	0.0	20.5	4.7	48.7	4.4
Incr Delay (d2), s/veh	13.6	0.0	185.2	0.0	27.9	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.2	0.0	82.2	0.8	12.0	19.7
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	66.9	0.0	205.7	4.8	76.5	4.6
LnGrp LOS	Ε		F	Α	Е	Α
Approach Vol, veh/h	183	А		1701	785	
Approach Delay, s/veh	66.9			189.4	33.7	
Approach LOS	F			F	С	
Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	76.0	18.7		28.3		94.7
Change Period (Y+Rc), s	4.5	4.5		4.5		4.5
Max Green Setting (Gmax), s	71.5	20.5		24.5		96.5
Max Q Clear Time (g_c+I1), s	73.5	13.8		23.5		4.6
Green Ext Time (p_c), s	0.0	0.4		0.4		0.7
Intersection Summary						
HCM 6th Ctrl Delay			135.2			
,						
HCM 6th LOS			F			
Notes						

Unsignalized Delay for [EBR] is excluded from calculations of the approach delay and intersection delay.

ion Road East & Pantall Road Projected with Improvements PM

Intersection						
Int Delay, s/veh	337.2					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	LDL	4	1€	TT DIC	Y	OBIN
Traffic Vol, veh/h	185	408	597	34	26	969
Future Vol, veh/h	185	408	597	34	26	969
Conflicting Peds, #/hr	165	408	0	0	20	909
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-		-		-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage	2,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	201	443	649	37	28	1053
		. 10	U 17	- 0,		. 555
Maiau/Minau	1/1-11		1-:0		/!	
	Major1		/lajor2		Minor2	
Conflicting Flow All	686	0	-	0	1513	668
Stage 1	-	-	-	-	668	-
Stage 2		-	-	-	845	-
Critical Hdwy	4.12	-	-	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	2.218	_	_	_	3.518	3.318
Pot Cap-1 Maneuver	908	_	_	-		~ 458
Stage 1	700	_		_	510	- 430
		-	-		421	
Stage 2	-	-	-	-	4Z I	-
Platoon blocked, %	0.00	-	-	-	~ -	4=-
Mov Cap-1 Maneuver	908	-	-	-		~ 458
Mov Cap-2 Maneuver	-	-	-	-	93	-
Stage 1	-	-	-	-	360	-
Stage 2	-	-	_	-	421	-
g -						
			1675		0.5	
Approach	EB		WB		SB	
HCM Control Delay, s	3.1		0	\$	750.2	
HCM LOS					F	
Minor Long/Major Mayor	. 1	EDI	EDT	WDT	WDD	CDI1
Minor Lane/Major Mvm	Il	EBL	EBT	WBT	WBR	
Capacity (veh/h)		908	-	-	-	415
HCM Lane V/C Ratio		0.221	-	-	-	2.606
HCM Control Delay (s)		10.1	0	-	-\$	750.2
HCM Lane LOS		В	A	-	-	F
HCM 95th %tile Q(veh))	0.8	-	-		87.9
		0.0				/
Notes						
~: Volume exceeds cap	oacity	\$: De	lay exc	ceeds 30	00s	+: Com

Intersection								
Int Delay, s/veh	13.2							
Movement	EBL	EBR	NBL	NBT	SBT	SBR		
Lane Configurations	ሻ	7	ች	<u></u>	†	7		
Traffic Vol, veh/h	25	89	129	519	1573	37		
Future Vol, veh/h	25	89	129	519	1573	37		
Conflicting Peds, #/hr	0	0	0	0	0	0		
Sign Control	Stop	Stop	Free	Free	Free	Free		
RT Channelized	-	None	-	None	_	None		
Storage Length	0	0	100	_	-	100		
/eh in Median Storage		-	_	0	0	-		
Grade, %	0	-	-	0	0	_		
Peak Hour Factor	92	92	92	92	92	92		
Heavy Vehicles, %	2	2	2	2	2	2		
Nymt Flow	27	97	140	564	1710	40		
VIVIIIC I IOVV	21	71	110	001	1710	10		
Major/Minor	Minor2	ı	Major1	1	Major2			
Conflicting Flow All	2554	1710	1750	0	-	0		
Stage 1	1710	-	-	-	-	-		
Stage 2	844	_	_	_	_	_		
ritical Hdwy	6.42	6.22	4.12	_	_	_		
ritical Hdwy Stg 1	5.42	- 0.22	1.12	_	_	_		
itical Hdwy Stg 2	5.42	_	_	_	_	-		
ollow-up Hdwy	3.518		2.218	_	_	_		
ot Cap-1 Maneuver	29	112	358	_	_	_		
Stage 1	160	- 112	- 330	_	_	_		
Stage 2	422	-	_	_	_	_		
latoon blocked, %	722			_		_		
Nov Cap-1 Maneuver	~ 18	112	358	-	-	-		
Nov Cap-1 Maneuver	~ 18	- 112	- 330	_		_		
Stage 1	97	_	_	_	_	_		
Stage 2	422	_	_	_		_		
Siage 2	722							
pproach	EB		NB		SB			
CM Control Delay, s			4.3		0			
ICM LOS	F							
10.11 200								
linor Lane/Major Mvn	nt	NBL	NBT	EBLn1 I	EBLn2	SBT	SBR	
Capacity (veh/h)		358		18	112		-	
ICM Lane V/C Ratio		0.392	_		0.864	_	-	
ICM Control Delay (s)		21.4	-\$	705.7		-	-	
CM Lane LOS		C	- Ψ	F	F	_	-	
ICM 95th %tile Q(veh)	1.8	-	3.8	5.1	-	-	
· ·	,				J. 1			
otes	nacit:	¢. D	olov ova	oods 2	000	LL Come	outation Not Defined	*. All major valuma in plate en
Volume exceeds ca	pacity	\$: D6	elay exc	eeds 3	UUS	+: Com	outation Not Defined	*: All major volume in platoon

APPENDIX E BACKGROUND DEVELOPMENTS



Pleasant Creek - Traffic Impact Study September 2020 Thompson's Station Road East Bethesda Road XXX - AM Peak Hour Traffic Volumes (XXX) - PM Peak Hour Background Peak Hour Traffic Volumes (7% General Growth) (Not to Scale) Figure E1.

Pleasant Creek - Traffic Impact Study September 2020 Thompson's Station Road East Bethesda Road XXX - AM Peak Hour Traffic Volumes (XXX) - PM Peak Hour Background Peak Hour Traffic Volumes Generated by Alexander Property (Not to Scale) Figure E2.

Pleasant Creek - Traffic Impact Study September 2020 Thompson's Station Road East Bethesda Road XXX - AM Peak Hour Traffic Volumes (XXX) - PM Peak Hour Background Peak Hour Traffic Volumes Generated by Littlebury (Not to Scale) Figure E3.

APPENDIX F TRIP GENERATION CALCULATIONS



TOTAL TRIP GENERATION

			UNIT		AM			PM		
ITE CODE	LAND USE	# UNITS	TYPE	ADT	Enter	Exit	Total	Enter	Exit	Total
210	Single-Family Detached Housing	417	units	3868	75	226	301	252	148	400
820	Shopping Center	1.5	k.s.f.	346	1		1	12	12	24
820	Shopping Center	4	k.s.f.	674	2	2	4	24	26	50
820	Shopping Center	2	k.s.f.	76	1	1	2	14	16	30
912	Drive-In Bank	2	k.s.f.	200	11	8	19	20	21	41
TOTAL				5164	90	237	327	322	223	545

Single-Family Detached Housing

210 ITE Land Code

417 units

Average Daily Traffic:

$$Ln(T) = (0.92 * Ln(X) + 2.71)$$

$$Ln(T) = (0.92 * Ln(417) + 2.71)$$

$$T = 3868$$

A.M. Peak Hour:

$$T = 0.71 * (X) + 4.80$$

$$T = 0.71 * (417) + 4.80$$

$$T = 301$$

P.M. Peak Hour:

$$Ln(T) = (0.96 * Ln(X) + 0.2)$$

$$Ln(T) = (0.96 * Ln(417) + 0.2)$$

$$T = 400$$

$$Exit = 148$$
 37%

Shopping Center

820 ITE Land Code

1.5 k.s.f.

Average Daily Traffic:

$$Ln(T) = (0.68 * Ln(X) + 5.57)$$

$$Ln(T) = (0.68 * Ln(1.5) + 5.57)$$

A.M. Peak Hour:

$$T = 0.94 * (X)$$

$$T = 0.94 * (1.5)$$

T = 1

Enter =
$$1$$
 62%

Exit =
$$0$$
 38%

P.M. Peak Hour:

$$Ln(T) = (0.74 * Ln(X) + 2.89)$$

$$Ln(T) = (0.74 * Ln(1.5) + 2.89)$$

T = 24

Exit =
$$12$$
 52%

Shopping Center

820 ITE Land Code

4 k.s.f.

Average Daily Traffic:

$$Ln(T) = (0.68 * Ln(X) + 5.57)$$

$$Ln(T) = (0.68 * Ln(4) + 5.57)$$

$$T = 674$$

A.M. Peak Hour:

$$T = 0.94 * (X)$$

$$T = 0.94 * (4)$$

Enter =
$$2$$
 62%

Exit =
$$2$$
 38%

P.M. Peak Hour:

$$Ln(T) = (0.74 * Ln(X) + 2.89)$$

$$Ln(T) = (0.74 * Ln(4) + 2.89)$$

$$T = 50$$

Exit =
$$26$$
 52%

Shopping Center

820 ITE Land Code

2 k.s.f.

Average Daily Traffic:

$$T = 37.75 * (X)$$

$$T = 37.75 * (2)$$

T = 76

A.M. Peak Hour:

$$T = 0.94 * (X)$$

$$T = 0.94 * (2)$$

T = 2

Enter =
$$1$$
 62%

Exit =
$$1$$
 38%

P.M. Peak Hour:

$$Ln(T) = (0.74 * Ln(X) + 2.89)$$

$$Ln(T) = (0.74 * Ln(2) + 2.89)$$

T = 30

Exit =
$$16$$
 52%

Drive-In Bank

912 ITE Land Code

2 k.s.f.

Average Daily Traffic:

$$T = 100.03 * (X)$$

$$T = 100.03 * (2)$$

T = 200

A.M. Peak Hour:

$$T = 9.5 * (X)$$

$$T = 9.5 * (2)$$

Exit =
$$8$$
 42%

P.M. Peak Hour:

$$T = 20.45 * (X)$$

$$T = 20.45 * (2)$$

Exit =
$$21$$
 50%

APPENDIX G WARRANT ANALYSIS



Northbound - Lewisburg Pike (SR 106/US 431) and Site Access A - AM Peak Hour

Figure 2 - 5. Guideline for determining the need for a major-road left-turn bay at a two-way stop-controlled intersection.

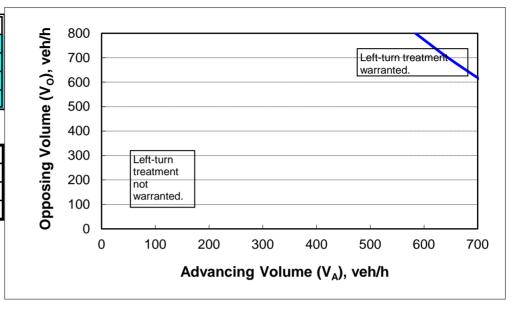
2-lane roadway (English)

INPUT

Variable	Value
85 th percentile speed, mph:	55
Percent of left-turns in advancing volume (V _A), %:	1%
Advancing volume (V _A), veh/h:	2509
Opposing volume (V _O), veh/h:	339

OUTPUT

Variable	Value				
Limiting advancing volume (V _A), veh/h:	936				
Guidance for determining the need for a major-road left-turn bay:					
Left-turn treatment warranted.					



Variable	Value
Average time for making left-turn, s:	3.0
Critical headway, s:	5.0
Average time for left-turn vehicle to clear the advancing lane, s:	1.9

Northbound - Lewisburg Pike (SR 106/US 431) and Site Access A - PM Peak Hour

Figure 2 - 5. Guideline for determining the need for a major-road left-turn bay at a two-way stop-controlled intersection.

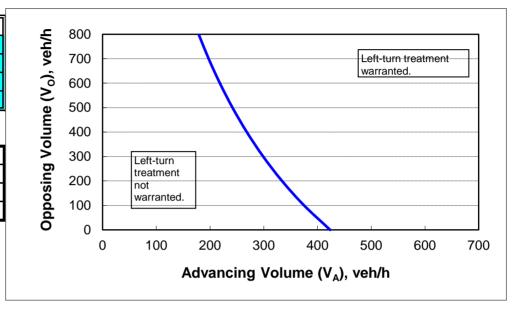
2-lane roadway (English)

INPUT

Variable	Value
85 th percentile speed, mph:	55
Percent of left-turns in advancing volume (V _A), %:	12%
Advancing volume (V _A), veh/h:	545
Opposing volume (V _O), veh/h:	1404

OUTPUT

Variable	Value			
Limiting advancing volume (V _A), veh/h:	100			
Guidance for determining the need for a major-road left-turn bay:				
Left-turn treatment warranted.				



Variable	Value
Average time for making left-turn, s:	3.0
Critical headway, s:	5.0
Average time for left-turn vehicle to clear the advancing lane, s:	1.9

Southbound - Lewisburg Pike (SR 106/US 431) and Harpeth-Peytsonsville Road - AM Peak Hour

Figure 2 - 5. Guideline for determining the need for a major-road left-turn bay at a two-way stop-controlled intersection.

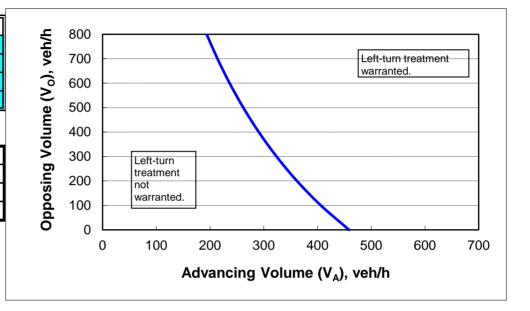
2-lane roadway (English)

INPUT

Variable	Value
85 th percentile speed, mph:	55
Percent of left-turns in advancing volume (V _A), %:	10%
Advancing volume (V _A), veh/h:	339
Opposing volume (V _O), veh/h:	2509

OUTPUT

Variable	Value
Limiting advancing volume (V _A), veh/h:	38
Guidance for determining the need for a major-road left-turn bay:	
Left-turn treatment warranted.	



Variable	Value
Average time for making left-turn, s:	3.0
Critical headway, s:	5.0
Average time for left-turn vehicle to clear the advancing lane, s:	1.9

Southbound - Lewisburg Pike (SR 106/US 431) and Harpeth-Peytsonsville Road - PM Peak Hour

Figure 2 - 5. Guideline for determining the need for a major-road left-turn bay at a two-way stop-controlled intersection.

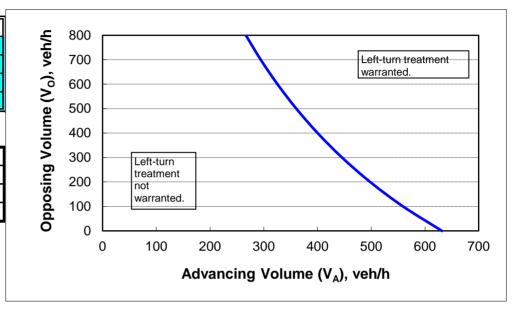
2-lane roadway (English)

INPUT

Variable	Value
85 th percentile speed, mph:	55
Percent of left-turns in advancing volume (V _A), %:	5%
Advancing volume (V _A), veh/h:	1404
Opposing volume (V _O), veh/h:	545

OUTPUT

Variable	Value
Limiting advancing volume (V _A), veh/h:	344
Guidance for determining the need for a major-road left-turn bay:	
Left-turn treatment warranted.	



Variable	Value
Average time for making left-turn, s:	3.0
Critical headway, s:	5.0
Average time for left-turn vehicle to clear the advancing lane, s:	1.9

Northbound - Lewisburg Pike (SR 106/US 431) and Site Access B - AM Peak Hour

Figure 2 - 5. Guideline for determining the need for a major-road left-turn bay at a two-way stop-controlled intersection.

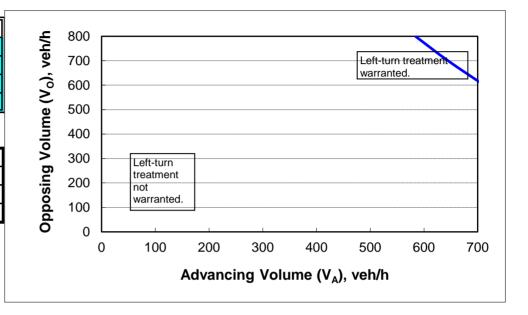
2-lane roadway (English)

INPUT

Variable	Value
85 th percentile speed, mph:	55
Percent of left-turns in advancing volume (V _A), %:	1%
Advancing volume (V _A), veh/h:	2517
Opposing volume (V _O), veh/h:	422

OUTPUT

Variable	Value
Limiting advancing volume (V _A), veh/h:	857
Guidance for determining the need for a major-road left-turn bay:	
Left-turn treatment warranted.	



Variable	Value
Average time for making left-turn, s:	3.0
Critical headway, s:	5.0
Average time for left-turn vehicle to clear the advancing lane, s:	1.9

Northbound - Lewisburg Pike (SR 106/US 431) and Site Access B - PM Peak Hour

Figure 2 - 5. Guideline for determining the need for a major-road left-turn bay at a two-way stop-controlled intersection.

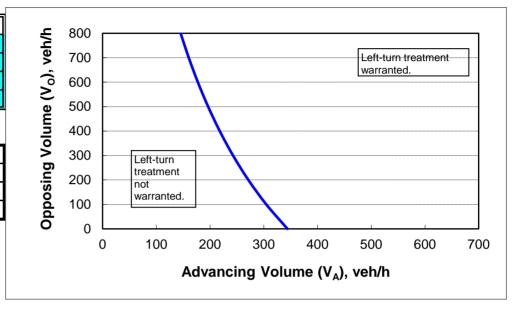
2-lane roadway (English)

INPUT

Variable	Value
85 th percentile speed, mph:	55
Percent of left-turns in advancing volume (V _A), %:	20%
Advancing volume (V _A), veh/h:	648
Opposing volume (V _O), veh/h:	1610

OUTPUT

Variable	Value
Limiting advancing volume (V _A), veh/h:	67
Guidance for determining the need for a major-road left-turn bay:	
Left-turn treatment warranted.	



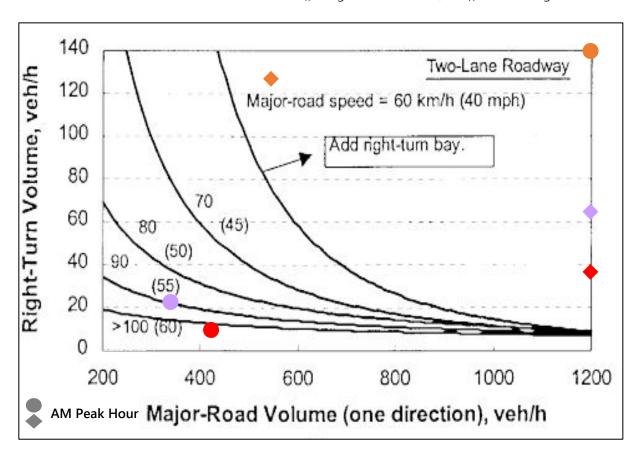
Variable	Value
Average time for making left-turn, s:	3.0
Critical headway, s:	5.0
Average time for left-turn vehicle to clear the advancing lane, s:	1.9

Projected Conditions (Peak Hours) RIGHT-TURN LANE WARRANT ANALYSIS

(Based on NCHRP 457: Evaluating Intersection Improvements)

Intersection Approach		Speed	AM Peak Hour			PM Peak Hour		
		Limit	V _R *	V _A *	Warrant Met?	V _R *	V _A *	Warrant Met?
Southbound - Lewisburg Pike at Site Access A		55	23	339	No	65	1404	Yes
Northbound - Lewisburg Pike at Harpeth-Peytonsville Road		55	300	2509	Yes	127	545	Yes
Southbound - Lewisburg Pike at Site Access B		55	10	422	No	37	1610	Yes

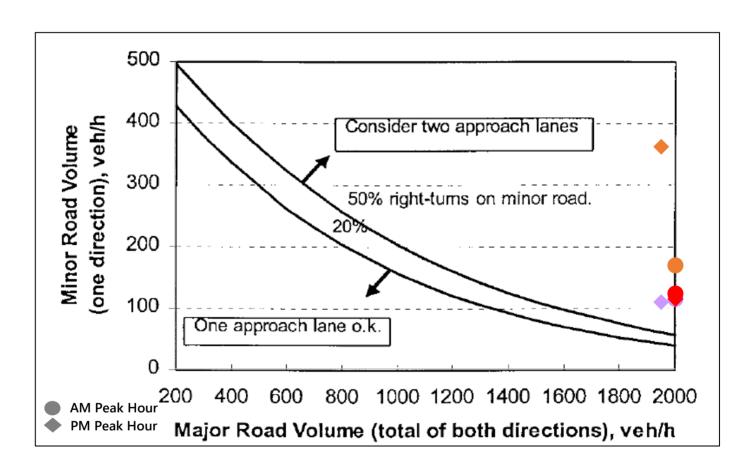
 V_R = Right Turn Volumes, V_A = Advancing Volumes

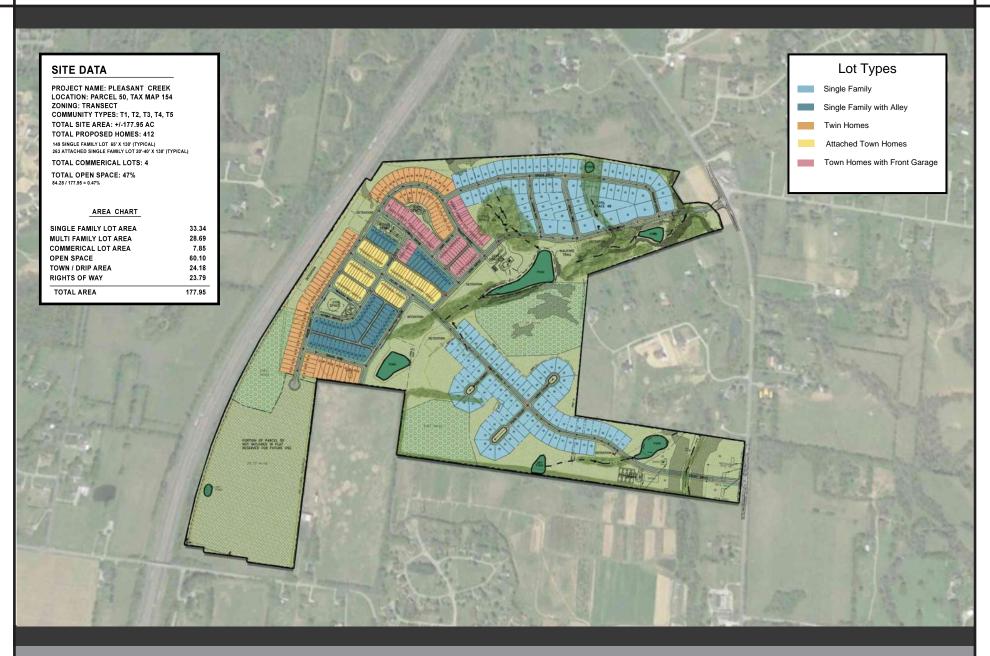


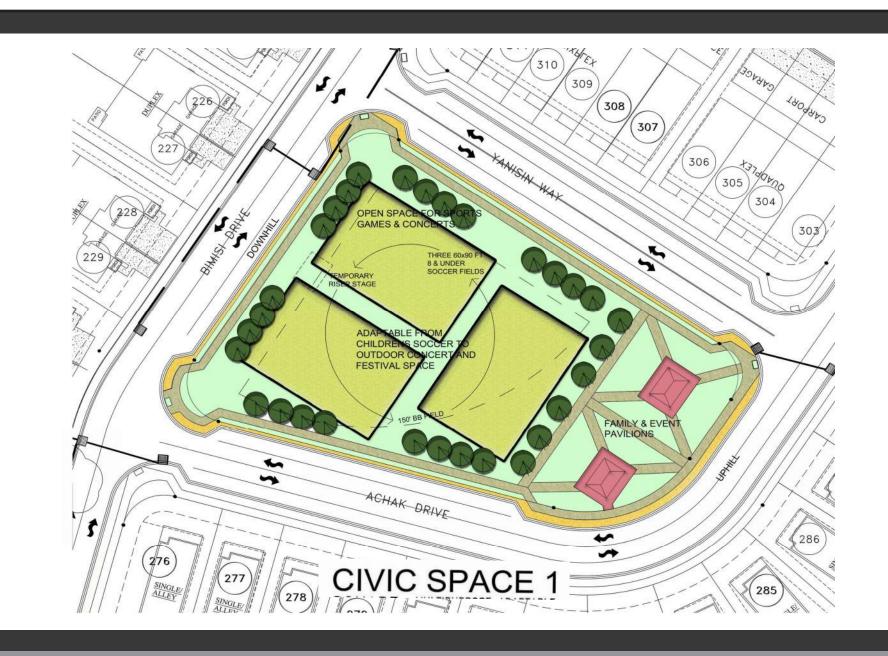
Projected Conditions (Peak Hours) MINOR APPROACH ANALYSES

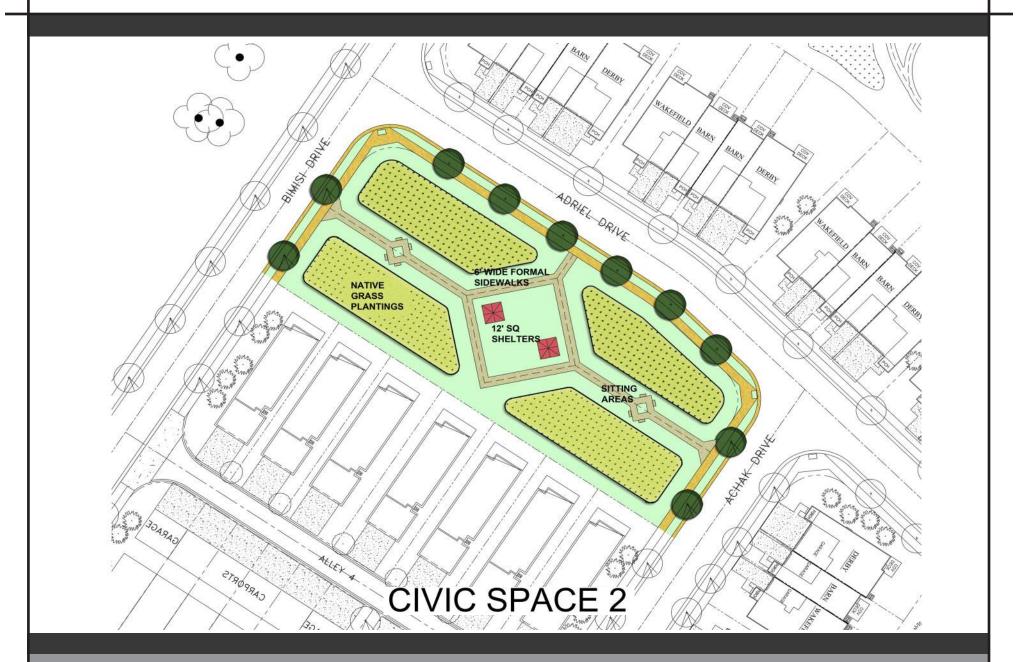
(Based on Intersection Channelization Design Guide)

Intersection Approach			AM Peak I	Hour	PM Peak Hour		
		Minor Road Volume	Major Road Volume	2-Lane Approach?	Minor Road Volume	Major Road Volume	2-Lane Approach?
Eastbound - Site Access A at Lewisburg Pike		114	2848	Yes	109	1949	Yes
Westbound - Harpeth- Peytonsville Road at Lewisburg Pike		169	2848	Yes	363	1949	Yes
Eastbound - Site Access B at Lewisburg Pike		123	2939	Yes	114	2258	Yes









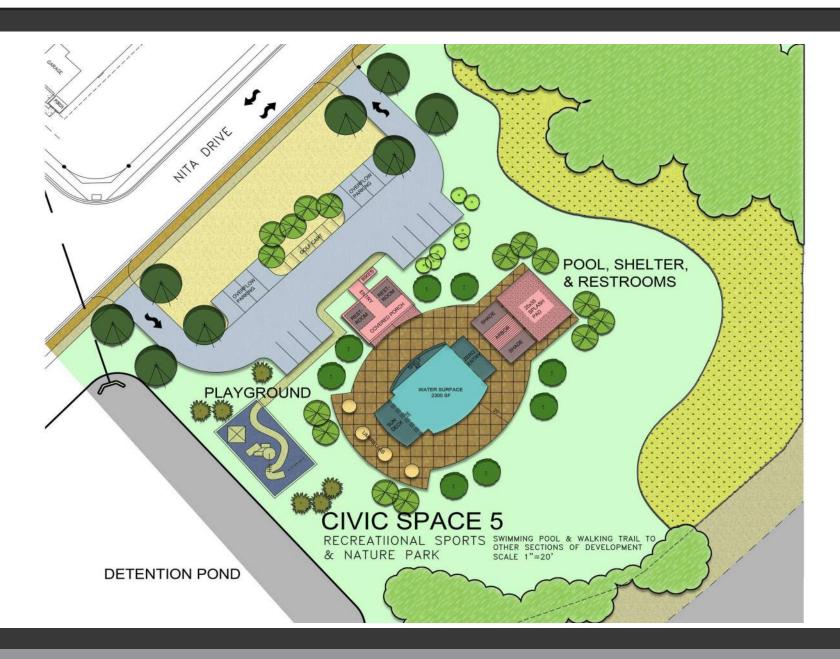


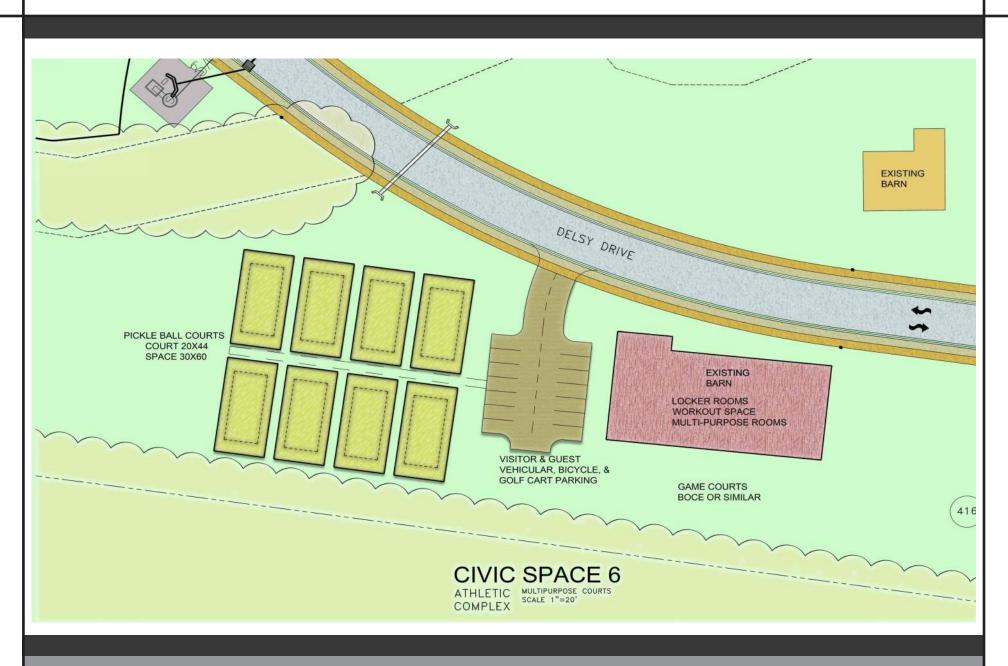




CIVIC SPACES 4A & 4B
PARKS UNDEVELOPED AREAS HANDLING DRAINAGE
BENCHES AND PATCHES OF LAWN
SCALE 1"=40'

PLEASANT CREEK







PLEASANT CREEK CONCEPTUAL PLAN

THOMPSON'S STATION, TN



Single Family with Alley

PLEASANT CREEK

CONCEPTUAL PLAN THOMPSON'S STATION, TN



BON JOHNGON

Attached Town Homes

PLEASANT CREEK

CONCEPTUAL PLAN THOMPSON'S STATION, TN

4



Town Homes with Front Garage

PLEASANT CREEK CONCEPTUAL PLAN

THOMPSON'S STATION, TN



CONCEPTUAL PLAN THOMPSON'S STATION, TN

Б