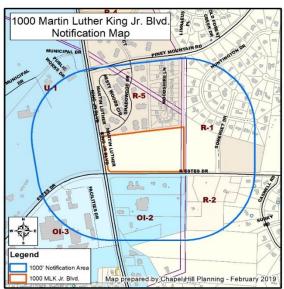


# Aura Development, 1000 Martin Luther King Jr. Blvd. Conditional Zoning



May 26, 2021

## Aura- Recommendation

- Continue the Public Hearing, receive comments, close the public hearing and continue to receive comments for 24 hours
- Comments may also be shared with planning@townofchapelhill.org
- Motion to consider the application at the June 16, 2021 meeting.

#### Aura-Process

Town
Evaluation of
Application
According to
Standards



Report
Presented to
Advisory
Boards and
Commissions



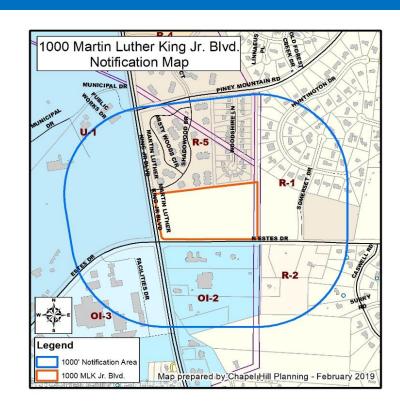
Continue
Public Hearing:
Report and
Recommendation
Presented to
Town Council



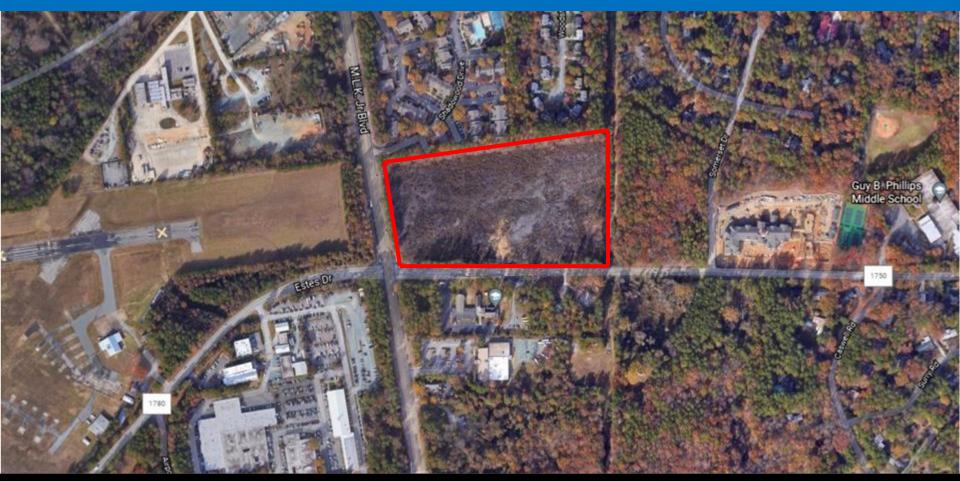
Council Action

# Aura- Project Summary

- 16.2 acre site
- Conditional Zoning
  - Currently R-1
  - ProposingOffice/Institutional-3-CZD(OI-3-CZD)
- Construct
  - 418 residential units
  - 15,000 sq ft of commercial
  - 66.1% of impervious(466,092 sq. ft.)

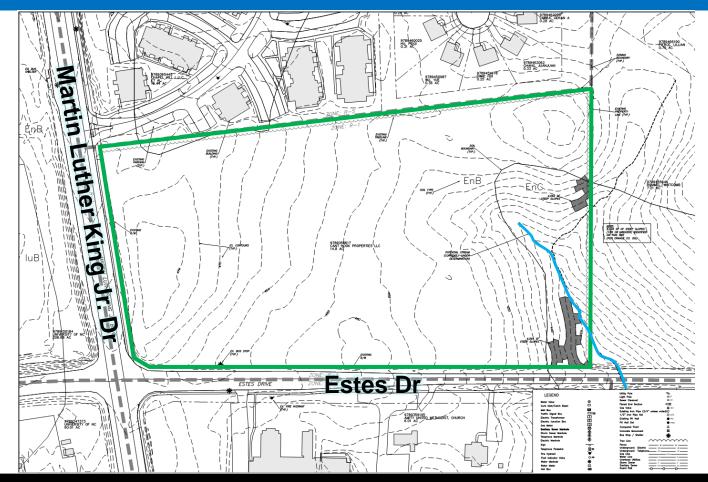


# Aura-Location



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# Aura Chapel Hill – Existing Conditions



# Aura – Site Plan



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#### **Aura- Added Conditions**

Added Conditions to Revised Ordinance A:

#8 Estes Drive/Somerset Drive traffic signal #10 Future Bike Share Station #17 Bus Rapid Transit Station #20 Commercial Space #24 Estes Drive Culvert

# Aura-Public Hearing

# Affordable Housing

### **Traffic**

- Bicycle & Pedestrian Safety
- Somerset Drive and Estes Drive

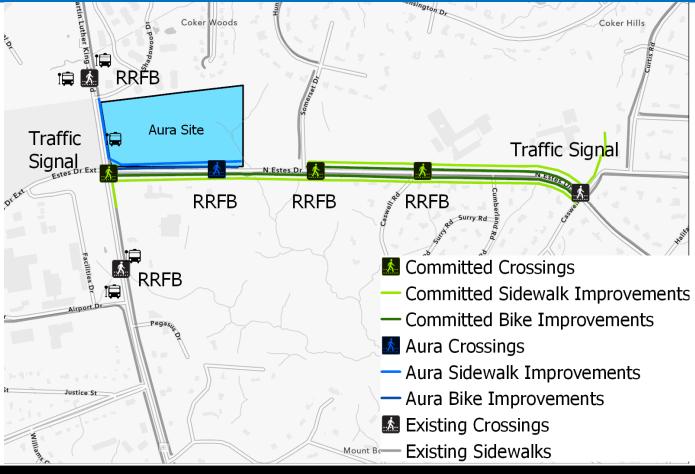
#### Stormwater

- Impervious Surfaces
- Stormwater storage

## **Estes Drive**



#### **Estes Drive**



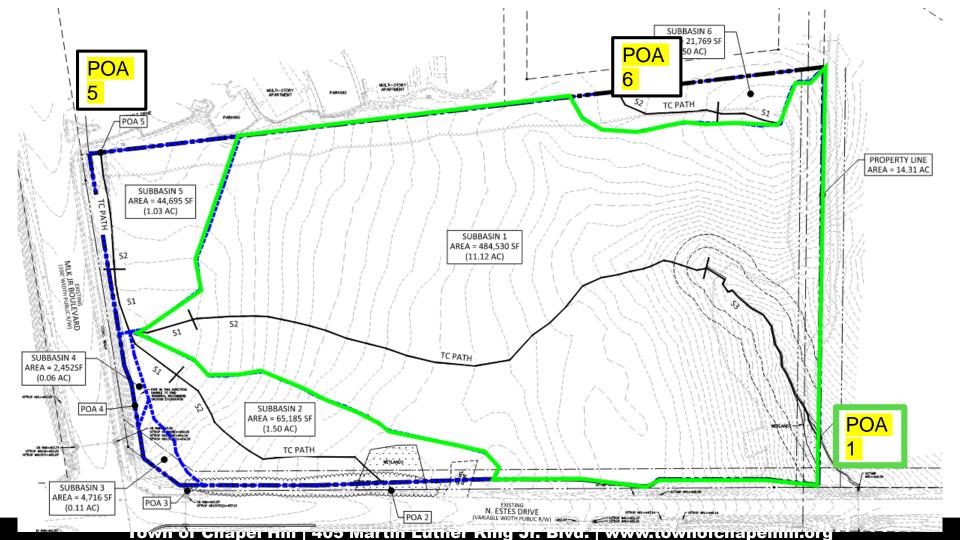
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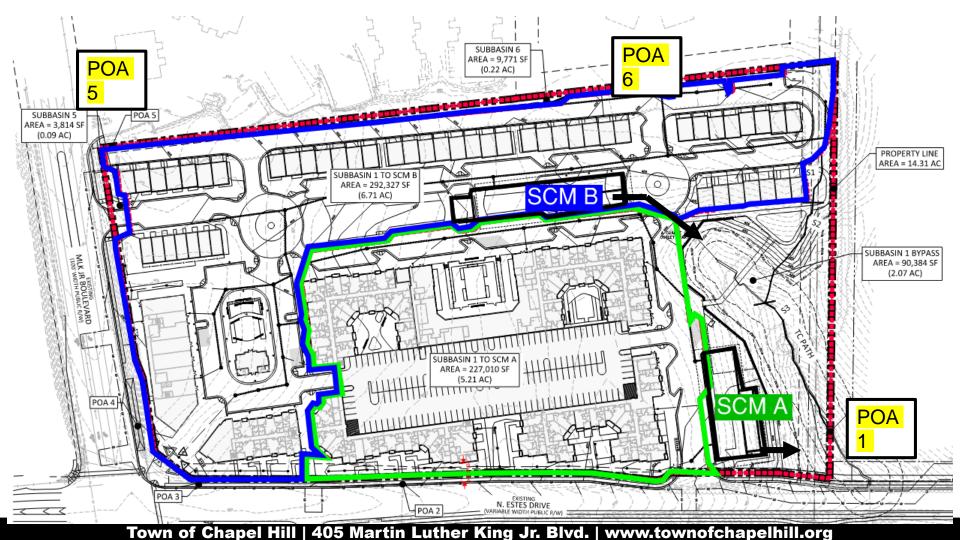
# LUMO 5.4.6. General Performance Criteria for Stormwater Management

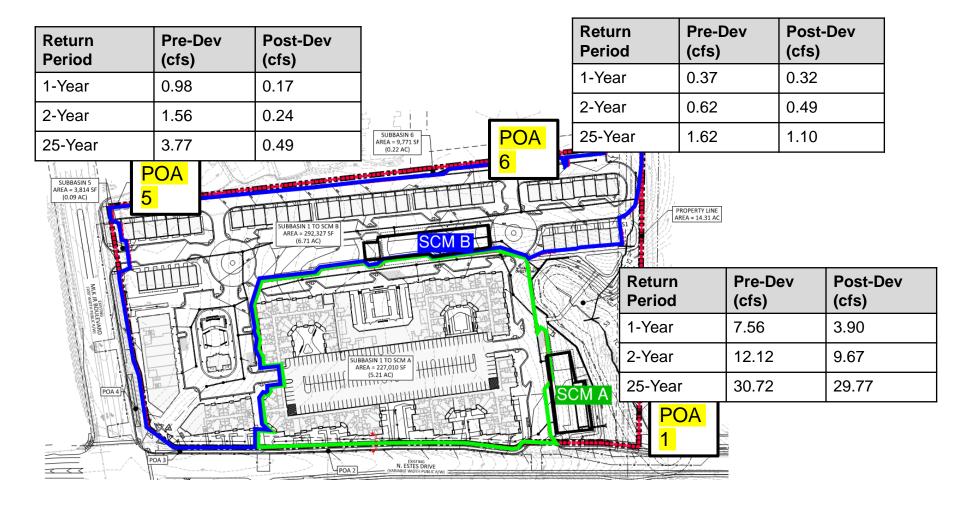
Stormwater treatment shall be designed to achieve average <u>annual eighty-five (85)</u> <u>percent total suspended solids (TSS) removal</u> and must apply to the volume of post-development runoff resulting from the first one-inch of precipitation.

The stormwater <u>runoff volume</u> leaving the site post-development shall not exceed the stormwater runoff volume leaving the site pre-development (existing conditions) for the local 2-year frequency, 24-hour duration storm event. This may be achieved by hydrologic abstraction, recycling and/or reuse, or any other accepted scientific method.

The stormwater <u>runoff rate</u> leaving the site post-development shall not exceed the stormwater runoff rate leaving the site pre-development (existing conditions) for the local 1-year (2.96 in), 2-year (3.58 in), and 25-year (6.11 inches) 24-hour storm events.







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#### 2-year, 24-hour Runoff Volume

	Pre- Development (ac-ft)	Post Development (ac-ft)	Post Development With SCMs (ac-ft)
Runoff to SCM A		1.364	0.641
Runoff to SCM B		1.697	0.88
Runoff bypass to POA 1		0.237	0.237
Runoff to POA 1	1.148	3.298	1.758
Total Runoff Volume*	1.481	3.334	1.794

<sup>\*</sup> Total Runoff Volume includes flow to other Point of Analyses

### Traditional "Grey" Infrastructure

- **Provides large** storage
- Long duration of discharge flow

# "Green" Infrastructure

- Adds redundancy
- Attenuates peak flow
- Improves climate resiliency

#### **Detention vault**



#### Sand Filter







#### Pervious pavement

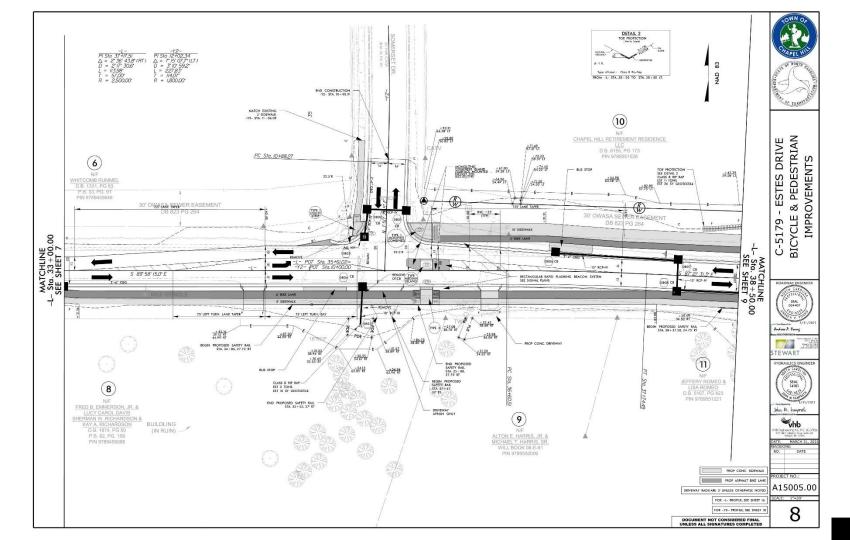


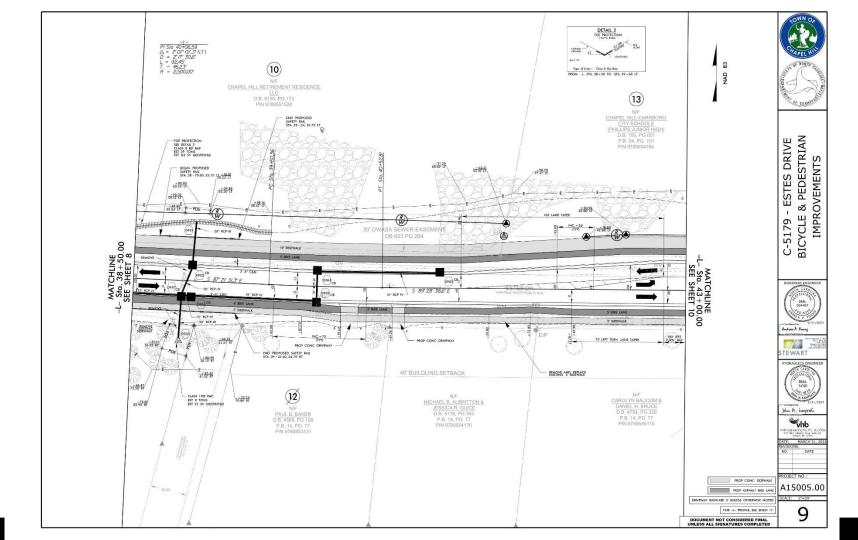
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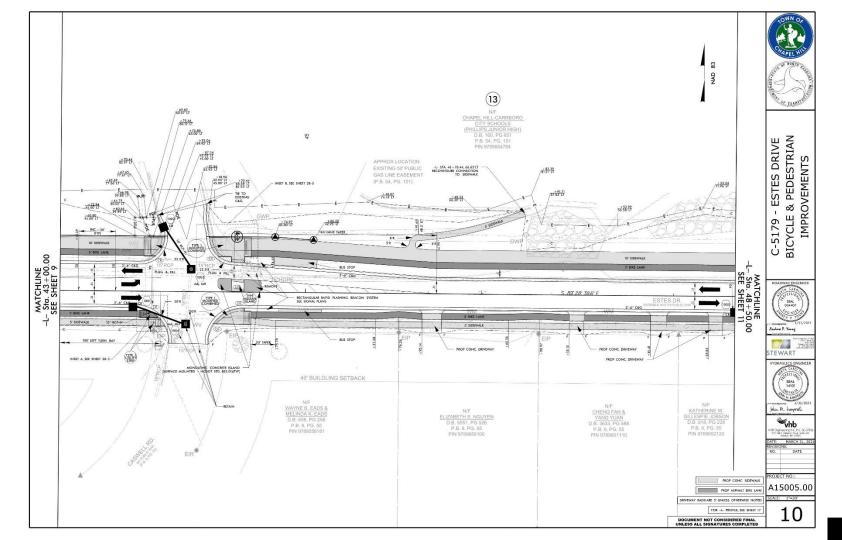
## Aura- Recommendation

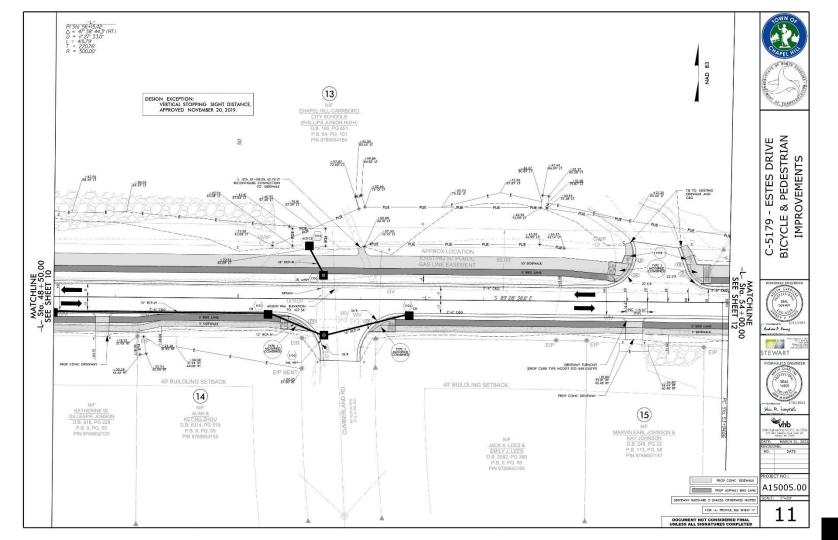
- Continue the Public Hearing, receive comments, close the public hearing and continue to receive comments for 24 hours
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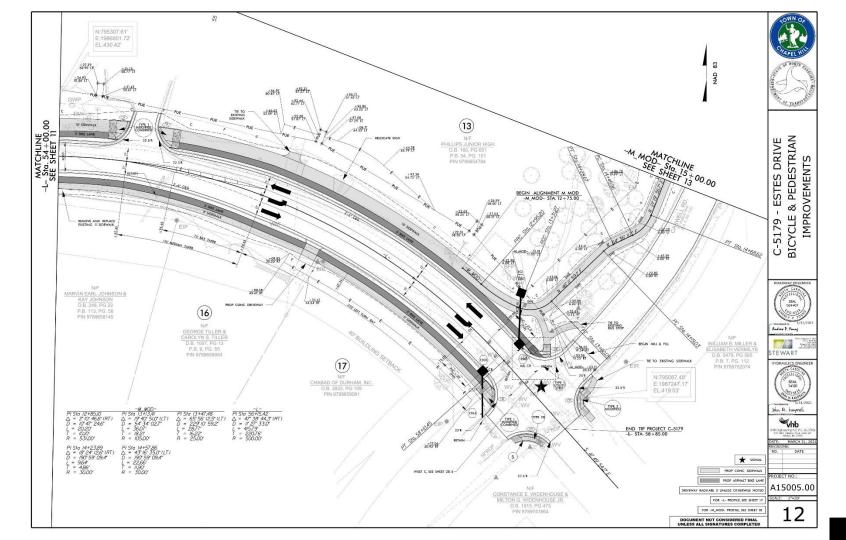
# Extra Slides



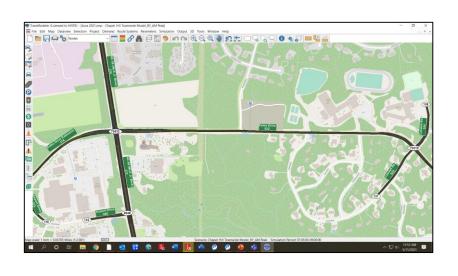








# Town of Chapel Hill Town-wide Transportation Model Estes Drive Scenario Test



- Weekday AM and PM Peak Hours
- 2021 "Base Year"
- 2024 "No-Build Aura"
- 2024 "Build Aura"
- 2024 "Build Aura + Recommended TIA Improvements"
  - Somerset Stop Control
  - Somerset Signal Control

# **2021 EXISTING CONDITIONS**

2021 Base Model					AM Peak H	our		
Intersection and Approach	Traffic Control	LOS	Average Delay (Sec/Veh)	Maximum Delay (Sec/Veh)	Minimum Delay (Sec/Veh)	Average Max Queue (ft)		Minimum Queue (ft)
NC 86 (MLK Blvd) and		D	47.3	52.1	43.4			
Estes Drive			47.5	J2.12	43.4			
Eastbound	Cianal	E	76.3	92.1	56.7	900	1075	650
Westbound	Signal	D	46.8	50.9	42.2	350	375	275
Northbound		С	33.5	36.3	30.9	400	525	350
Southbound		С	34.6	38.1	33.0	450	600	400
Estes Drive and Somerset Drive	Two-Way	-	-	-	-	-	-	-
Southbound	Stop	Α	5.4	7.9	2.5	25	25	25
Estes Drive and E. Franklin Street		С	28.7	29.8	26.7			
Eastbound	Ciana I	С	33.5	35.9	28.6	425	500	350
Westbound	Signal	С	33.0	34.7	29.9	225	250	150
Northbound		С	24.0	26.1	20.7	200	225	125
Southbound		С	25.3	27.5	22.3	375	425	300

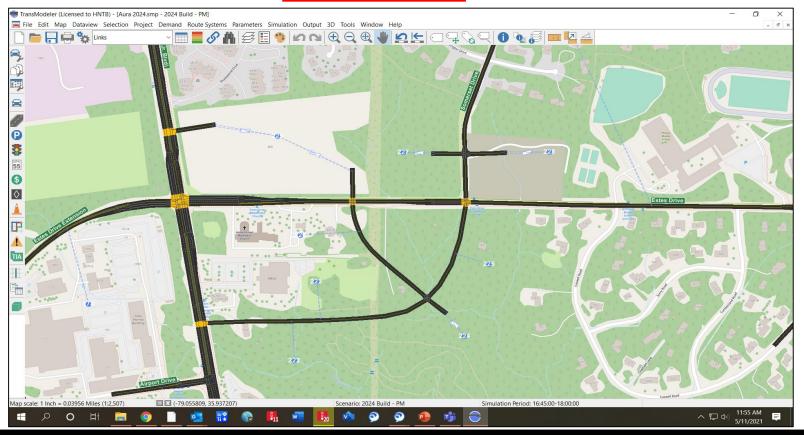
2021 Base Model					PM Peak H	our		
Intersection and Approach	Traffic Control	LOS	Average Delay (Sec/Veh)	Maximum Delay (Sec/Veh)	Minimum Delay (Sec/Veh)	Average Max Queue (ft)	Maximum Queue (ft)	Minimum Queue (ft)
NC 86 (MLK Blvd) and Estes Drive		E	58.5	62.6	56.0			
Eastbound	Signal	Е	70.1	83.6	63.3	650	725	450
Westbound	Signai	Е	63.0	78.1	50.8	850	1500	375
Northbound		Е	59.6	61.8	55.9	625	675	550
Southbound		D	45.6	48.9	42.7	475	600	450
Estes Drive and Somerset Drive	Two-Way	1	-	-	-	-	-	-
Southbound	Stop	С	16.0	20.6	12.5	125	100	150
Estes Drive and E. Franklin Street		D	47.9	50.5	46.1			
Eastbound	Cianal	Е	58.0	68.1	51.7	625	700	500
Westbound	Signal	D	54.8	56.4	51.0	525	550	450
Northbound		D	41.8	42.5	40.5	475	500	425
Southbound		D	43.2	47.0	38.7	500	550	475

# 2024 BACKGROUND DEVELOPMENTS

- Blue Hill District (4 Parcels)
- University Place Phase 1
- Central West Area Plan
- Town Municipal Services
   Center
- E. Rosemary Street Parking Deck & Office Building
- W. Rosemary Street Hotel
- Union Chapel Hill Apartments

0.5%/Year Regional Growth

# 2024 ASSUMED STREET NETWORK



				A	AM Peak Trips		PI	M Peak Tri	ps
Development Name	Area	Land Use	ITE LUC Density Change	IN	OUT	TOTAL	IN	OUT	TOTAL
Fordham Apartments	Blue Hill	Multi-Family Residential	273 Units - 50 Hotel units	11	89	100	85	40	125
Hillstone	Blue Hill	Multi-Family Residential	220 Units	29	115	144	112	60	172
Quality Inn	Blue Hill	Multi-Family Residential	236 Units + 125 Hotel Units	55	110	165	89	56	145
Park at Chapel Hill	Blue Hill	Multi-Family Residential	+500 Net Units	49	197	246	94	44	138
University Place - Phase 1	Mall Area	Commercial	Mixed Uses	367	291	658	704	632	1,336
Town Municipal Services Campus	NC 86	Institutional - Office	48k Office + 24k Police Station Net	126	16	142	38	150	188
E. Rosemary Parking Deck & Office	Downtown	Public Parking/General Office	Net Parking Incr + 200K Office	327	40	367	82	305	387
W. Rosemary St Hotel	Downtown	Hotel	125 Unit Hotel - 90 Existing Parking	17	26	43	36	19	55
Union Chapel Hill Apartments	Downtown	Multi-Family Residential	350 Condos - 111 Apartments	24	97	121	148	80	228
Aura	Central West	Mixed-Use	Mixed Uses	81	129	210	120	86	206
Rummel Property	Central West	Multi-Family Residential	175 units	14	42	57	45	66	111
Azalea	Central West	Senior Assisted Living	100 Units	18	9	27	23	28	51
Amity UMC	Central West	Institutional - Church	N/A	0	0	0	0	0	0
	Central West	Multi-Family Residential	36 units	4	9	13	9	14	23
YMCA Expansion	Central West	Recreational	30K SF	35	18	53	46	52	98
Saw Mill	Central West	Multi-Family Residential	112 units	10	27	37	30	42	72
Richardson Property	Central West	Multi-Family Residential	117 units	10	29	39	31	45	76
Office Park	Central West	General Office	N/A	0	0	0	0	0	0
Peace Property	Central West	Multi-Family Residential	65 units	5	16	22	17	25	42
-2024 Build Scenario Only				1,182	1,260	2,443	1,708	1,745	3,453

Background Developments List for 2024 Aura/Estes Drive Scenario Testing

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# 2024 NO-BUILD PM PEAK CONDITIONS

2024 No-Build Model		PM Peak Hour									
Intersection and Approach	Traffic Control	LOS	Average Delay (Sec/Veh)	Maximum Delay (Sec/Veh)	Minimum Delay (Sec/Veh)	Average Max Queue (ft)	Maximum Queue (ft)	Minimum Queue (ft)			
NC 86 (MLK Blvd) and		E	55.1	64.1	49.2						
Estes Drive		_	55.1	02	.5.2						
Eastbound	Signal	D	54.3	63.2	50.1	550	675	325			
Westbound	Signai	D	43.0	50.2	38.1	725	800	475			
Northbound		Е	65.7	79.2	57.5	675	700	650			
Southbound		D	53.8	68.6	46.6	375	400	325			
Estes Drive and Somerset Drive	Two-Way	1	-	-	-	-	-	-			
Northbound	Stop	F	122.8	130.9	42.1	275	325	100			
Southbound		F	155.7	166.4	70.3	250	275	225			
Estes Drive and E. Franklin Street		F	119.3	138.4	98.4						
Eastbound		F	91.4	118.1	77.6	750	1000	625			
Westbound	Signal	F	160.6	172.2	92.7	1275	1500	875			
Northbound		F	166.8	305.5	89.8	1600	2600	950			
Southbound		Е	69.5	67.7	57.5	700	875	575			
NC 86 (MLK Blvd) and Local Road Connection (RIRO)	Two-Way Stop	-	-	-	-	-	-	-			
Westbound		С	18.0	30.1	8.6	50	100	25			

# 2024 BUILD WITH AURA CONDITIONS (PM PEAK)

2024 Build-Aura Model					PM Peak H	our		
Intersection and Approach	Traffic Control	LOS	Average Delay (Sec/Veh)	Maximum Delay (Sec/Veh)	Minimum Delay (Sec/Veh)	Average Max Queue (ft)	Maximum Queue (ft)	Minimum Queue (ft)
NC 86 (MLK Blvd) and		D	51.6	53.1	49.9			
Estes Drive	l .							
Eastbound	Signal	E	57.1	63.0	49.5	575	650	425
Westbound	Signal	D	44.0	50.2	38.5	575	875	350
Northbound		E	59.8	62.7	57.9	675	700	625
Southbound		D	45.8	48.4	42.7	375	475	350
Estes Drive and Somerset Drive	Two-Way	,	-	-	-	-	-	-
Northbound	Stop	F	76.4	113.7	46.6	200	275	125
Southbound	310	F	103.0	141.1	74.1	250	350	200
Estes Drive and E. Franklin Street		F	123.8	134.1	96.5			
Eastbound		F	88.0	93.5	78.7	775	1300	650
Westbound	Signal	F	146.5	168.6	115.0	1275	1450	1150
Northbound	1	F	193.8	227.5	133.4	1950	2400	1150
Southbound	1	Е	72.1	78.0	63.7	850	875	750
MLK Blvd and Future Aura Access #1	Two-Way	,	-	-	-	-	-	-
Westbound	Stop	Α	5.4	6.4	4.2	25	25	25
Estes Dr and Future Aura Access #2	Two-Way	,	-	-	-	-	-	-
Southbound	Stop	E	42.9	77.4	26.0	100	125	75
NC 86 (MLK Blvd) and Local Rd Access (RIRO)	Two-Way Stop	1	-	-	-	-	-	-
Westbound	Stop	С	21.3	30.1	14.5	50	100	25

# 2024 BUILD WITH IMPROVEMENTS (PM PEAK)

2024 Build-Aura Model - With Improvements					PM Peak H	our		
Intersection and Approach	Traffic Control	LOS	Average Delay (Sec/Veh)	Maximum Delay (Sec/Veh)	Minimum Delay (Sec/Veh)	Average Max Queue (ft)	Maximum Queue (ft)	Minimum Queue (ft)
NC 86 (MLK Blvd) and		D	47.4	51.2	45.6			
Estes Drive		_	47.4	31.2	43.0			
Eastbound	Signal	Е	55.1	58.5	51.5	475	600	300
Westbound	Signal	D	38.1	40.6	36.5	425	500	325
Northbound		D	53.1	59.8	50.0	625	900	550
Southbound		D	45.1	49.8	41.8	375	525	325
Estes Drive and Somerset Drive		-		-	-	-	-	-
Eastbound	Two-Way		-	-	-	-	-	-
Westbound	Stop	,	-	-	-	-	-	-
Northbound		F	56.9	74.6	45.6	150	250	100
Southbound		F	87.2	128.2	62.9	250	300	200
Estes Drive and E. Franklin Street		F	102.3	113.2	92.6			
Eastbound	Signal	F	88.8	95.6	83.4	750	1250	600
Westbound	Signal	F	144.2	191.1	113.3	1275	1325	1150
Northbound		F	135.7	189.6	86.3	1100	1525	700
Southbound		D	53.9	60.3	49.5	675	725	500
MLK Blvd and Future Aura Access #1	Two-Way	,	,	-	-	-	-	-
Westbound	Stop	Α	6.2	7.1	3.4	25	25	25
Estes Dr and Future Aura Access #2	Two-Way	1		-			-	-
Southbound	Stop	Δ	31.1	41.3	25.6	75	100	50
NC 86 (MLK Blvd) and Local Rd Access (RIRO)	Two-Way	-	-	-	-	-	-	-
Westbound	Stop	В	12.2	14.6	8.9	50	100	25

Town of Chapel Hill | 405

# **Average Maximum Queue Lengths**

The table below summarizes the afternoon average maximum queue lengths at the intersection of Martin Luther King Jr. Blvd. and Estes Drive:

	2021 Base Model	2024 No-Build	2024 Build	2024 Build with Improvements
	Ave. Max Queue	Ave. Max Queue	Ave. Max Queue	Ave. Max Queue
Eastbound	650	550	575	475
Westbound	850	725	575	425
Northbound	625	675	675	625
Southbound	475	375	375	375

The technical memorandum provides details for each of the four scenarios.



NOAA Atlas 14, Volume 2, Version 3 Location name: Chapel Hill, North Carolina, USA\* Latitude: 35.9361°, Longitude: -79.0547° Elevation: 463.18 ft\*\* source: ESRI Maps



POINT PRECIPITATION FREQUENCY ESTIMATES

### **Storm Event Depths from** NOAA

#### PF tabular

		PD	S-based point precipitation frequency estimates with 90% confidence intervals (in inches) <sup>1</sup>											
Duration	S-based po	Duration		Average recurrence interval (years)										
5-min	0.410 (0.375-0.448) (0.	Duration	1	2 5 10 25 50 100 200 500 1000										
10 min	0.654 (0.599-0.715) (0.	12-hr	2.54	3.06	3.79	4.43	5.27	5.99	6.72	7.48	8.55	9.47		
15-min	0.818 (0.749-0.894) (0		(2.34-2.77)	(2.82-3.34)	(3.49-4.13)	(4.06-4.82)	(4.79-5.71)	(5.40-6.47)	(5.99-7.25)	(6.60-8.07)	(7.40-9.22)	(8.07-10.2)		
30-min	1.12 (1.03-1.23) (	24-hr	2.96	3.58	4.47	5.17	6.11	6.85	7.61	8.40	9.48	10.3		
60-min	1.40 (1.28-1.53) (		(2.78-3.17)	(3.36-3.82)	(4.19-4.77)	(4.83-5.51)	(5.69-6.53)	(6.37-7.33)	(7.05-8.16)	(7.75-9.01)	(8.70-10.2)	(9.43-11.1)		
2-hr	1.68 (1.53-1.84) (	2-day	3.47	4.18         5.18         5.95         6.98         7.79         8.62         9.46         10.6         11.5										
3-hr	1.78 (1.63-1.96) (		(3.25-3.71)	(3.92-4.47)	(4.85-5.53)	(5.56-6.35)	(6.50-7.46)	(7.24-8.34)	(7.98-9.24)	(8.72-10.2)	(9.74-11.4)	(10.5-12.4)		

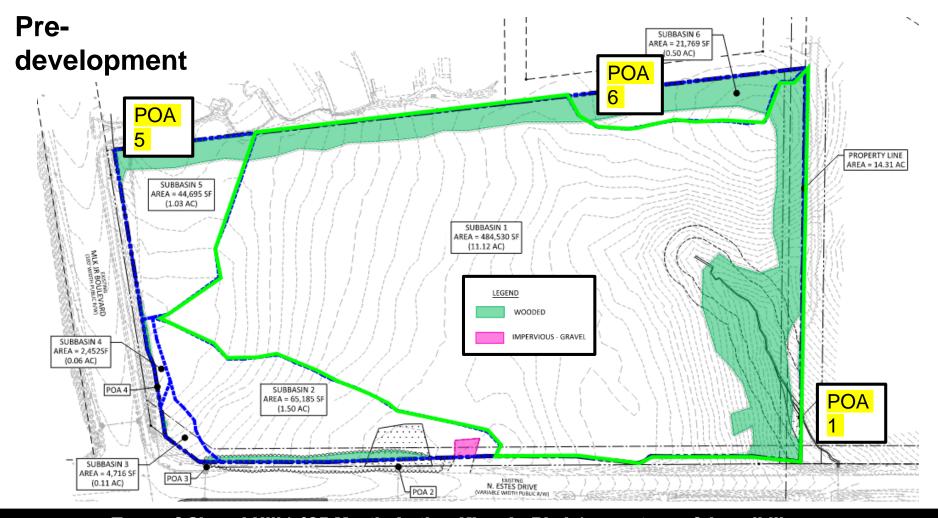
6-hr	2.15	2.59	3.19	3.70	4.37	4.92	5.47	6.04	6.81	7.46
	(1.97-2.35)	(2.38-2.83)	(2.93-3.48)	(3.39-4.04)	(3.97-4.75)	(4.44-5.34)	(4.89-5.94)	(5.35-6.56)	(5.94-7.39)	(6.43-8.13)
12-hr	2.54	3.06	3.79	4.43	5.27	5.99	6.72	7.48	8.55	9.47
	(2.34-2.77)	(2.82-3.34)	(3.49-4.13)	(4.06-4.82)	(4.79-5.71)	(5.40-6.47)	(5.99-7.25)	(6.60-8.07)	(7.40-9.22)	(8.07-10.2)
24-hr	2.96	3.58	4.47	5.17	6.11	(6.85	7.61	8.40	9.48	10.3
	(2.78-3.17)	(3.36-3.82)	(4.19-4.77)	(4.83-5.51)	(5.69-6.53)	(6.37-7.33)	(7.05-8.16)	(7.75-9.01)	(8.70-10.2)	(9.43-11.1)
2-day	3.47	4.18	5.18	5.95	6.98	7.79	8.62	9.46	10.6	11.5
	(3.25-3.71)	(3.92-4.47)	(4.85-5.53)	(5.56-6.35)	(6.50-7.46)	(7.24-8.34)	(7.98-9.24)	(8.72-10.2)	(9.74-11.4)	(10.5-12.4)
3-day	3.67 (3.44-3.92)	4.41 (4.14-4.71)	5.44 (5.10-5.81)	6.24 (5.84-6.67)	7.32 (6.82-7.83)	8.18 (7.59-8.75)	9.04 (8.37-9.70)	9.93 (9.15-10.7)	11.2 (10.2-12.0)	<b>12.1</b> (11.1-13.1)
4-day	3.87	4.64	5.70	6.54	7.67	8.56	9.47	10.4	11.7	12.7
	(3.63-4.14)	(4.35-4.96)	(5.35-6.09)	(6.12-6.99)	(7.14-8.21)	(7.94-9.17)	(8.75-10.2)	(9.58-11.2)	(10.7-12.6)	(11.6-13.8)
7-day	4.44	5.30	6.43	7.33	8.55	9.52	10.5	11.5	12.9	14.0
	(4.19-4.73)	(5.00-5.64)	(6.07-6.86)	(6.90-7.81)	(8.02-9.12)	(8.90-10.2)	(9.79-11.2)	(10.7-12.3)	(11.9-13.9)	(12.8-15.1)
10-day	5.05 (4.77-5.37)	6.00 (5.67-6.38)	7.20 (6.79-7.66)	8.14 (7.67-8.65)	9.41 (8.84-10.0)	<b>10.4</b> (9.74-11.1)	<b>11.4</b> (10.7-12.2)	<b>12.5</b> (11.6-13.3)	13.9 (12.8-14.9)	15.0 (13.8-16.1)
20-day	6.75	7.96	9.40	10.5	<b>12.1</b>	13.3	14.6	15.8	17.6	18.9
	(6.38-7.14)	(7.53-8.42)	(8.88-9.94)	(9.95-11.2)	(11.4-12.8)	(12.5-14.1)	(13.6-15.5)	(14.7-16.9)	(16.2-18.7)	(17.4-20.2)
30-day	8.39	9.87	11.5	12.7	14.3	15.6	16.8	18.1	19.8	21.1
	(7.95-8.87)	(9.35-10.4)	(10.8-12.1)	(12.0-13.4)	(13.5-15.1)	(14.7-16.5)	(15.8-17.8)	(16.9-19.2)	(18.4-21.0)	(19.5-22.5)
45-day	10.7	<b>12.5</b>	14.3	15.7	17.5	18.9	20.3	21.7	23.5	24.9
	(10.2-11.2)	(11.9-13.1)	(13.6-15.0)	(14.9-16.5)	(16.6-18.4)	(17.9-19.9)	(19.2-21.4)	(20.4-22.9)	(22.0-24.9)	(23.2-26.4)
60-day	12.8	15.0	16.9	18.4	20.3	21.7	23.1	24.4	26.2	27.5
	(12.3-13.4)	(14.3-15.7)	(16.1-17.7)	(17.5-19.2)	(19.3-21.2)	(20.6-22.8)	(21.9-24.3)	(23.1-25.7)	(24.7-27.6)	(25.9-29.0)

Yellow values are regulated by Town LUMO

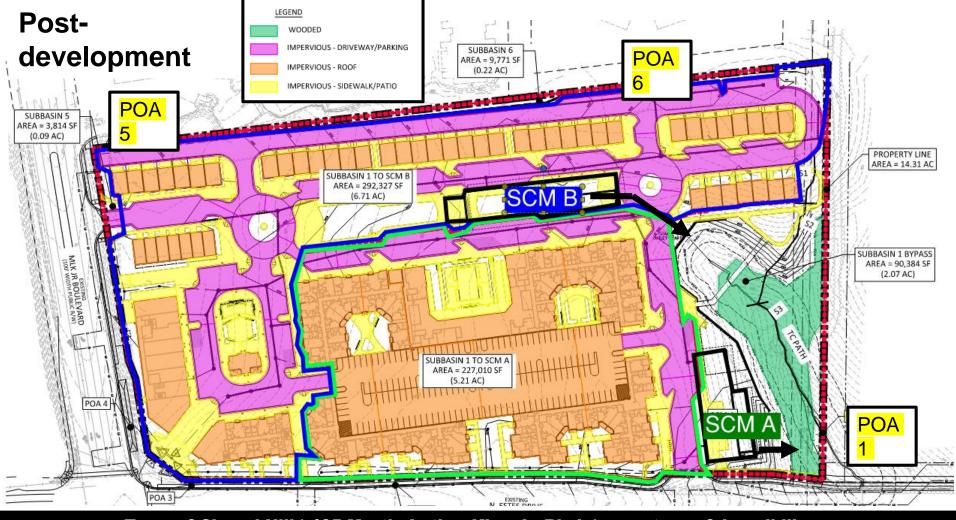
Blue values are the 50-year and 100year design events

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

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



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# **Land Use Area Across Project Area**

<b>—</b>	Sub-basin ID		Onsite Area [acres]						
$\subseteq$	Sub-pasiii ib	Impervious	Open	Wooded	Pond	Total			
<u></u>	1	0.00	9.51	1.61	0.00	11.12			
	2	0.02	1.40	0.08	0.00	1.50			
$\stackrel{\circ}{\leftarrow}$	3	0.00	0.10	0.00	0.00	0.11			
<u> </u>	4	0.00	0.05	0.01	0.00	0.06			
<b>e</b>	5	0.00	0.83	0.20	0.00	1.03			
Ó	6	0.00	0.14	0.36	0.00	0.50			
Ö	Totals =	0.02	12.03	2.26	0.00	14.31			

	Sub-basin ID		Onsite	Area [acres]		
<b>—</b>	Sub-basin iD	Impervious	Open	Wooded	Pond	Total
<u>e</u>	1 to SCM A	4.74	0.47	0.00	0.00	5.21
$\subseteq$	1 to SCM B	5.81	0.90	0.00	0.00	6.71
O	1 Bypass	0.22	1.20	0.66	0.00	2.07
0	5	0.02	0.07	0.00	0.00	0.09
<u> </u>	6	0.00	0.22	0.00	0.00	0.22
<b>S</b>	Totals =	10.79	2.86	0.66	0.00	14.31

#### **Peak Runoff Rates**

POINT OF ANALYSIS #1				
Return Period	Pre-Dev	Post-Dev	% Increase	
	[cfs]	[cfs]	[%]	
1-Year	7.56	3.90	-48%	
2-Year	12.12	9.67	-20%	
25-Year	30.72	29.77	-3%	

POINT OF ANALYSIS #5				
Return Period	Pre-Dev	Post-Dev	% Increase	
	[cfs]	[cfs]	[%]	
1-Year	0.98	0.17	-83%	
2-Year	1.56	0.24	-85%	
25-Year	3.77	0.49	-87%	

POINT OF ANALYSIS #6				
Return Period	Pre-Dev	Post-Dev	% Increase	
	[cfs]	[cfs]	[%]	
1-Year	0.37	0.32	-14%	
2-Year	0.62	0.49	-21%	
25-Year	1.62	1.10	-32%	

# Aura- Proposed Conditions and Modifications

The applicant is requesting the following modifications to regulations:

- Reduced foundation landscaping standards
- Modified perimeter buffer standard

# Aura Development — Recommendations

Boards/Commissions	Recommendation	Conditions/Comments
Community Design Commission	Approval with Conditions	Elevation approval, northern buffer, building elevations
Transportation and Connectivity Board	Denial	Parking spaces, traffic impacts, goals of Central West Plan
Housing Advisory Board	Approval	
Environmental Stewardship Advisory Board	Approval with Conditions	Stormwater and traffic concerns
Planning Commission	Approval with Conditions	Affordable housing, tree canopy coverage, impervious surface, increase in commercial