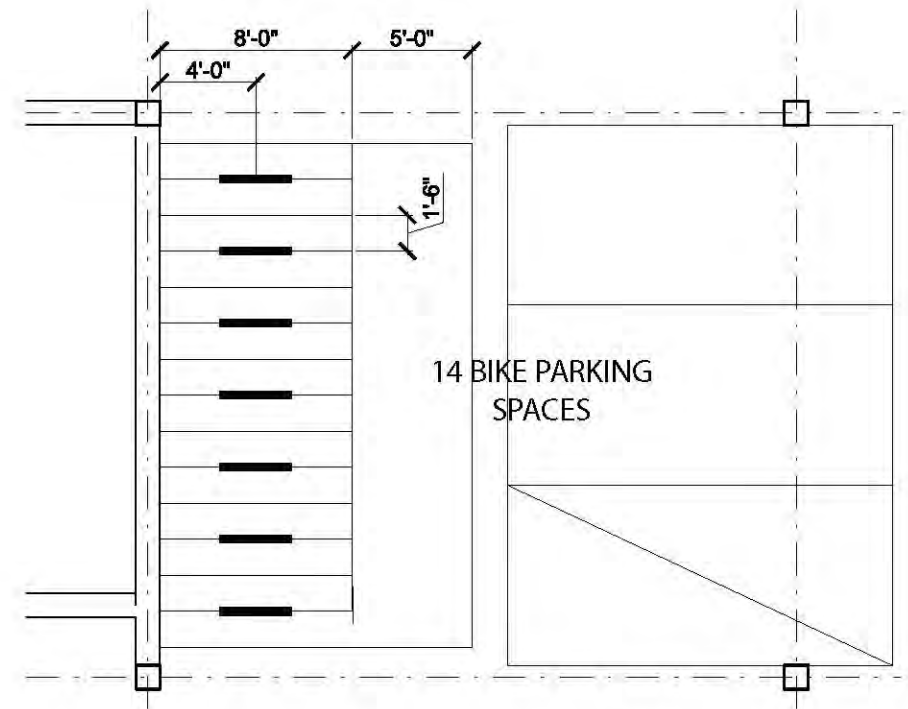
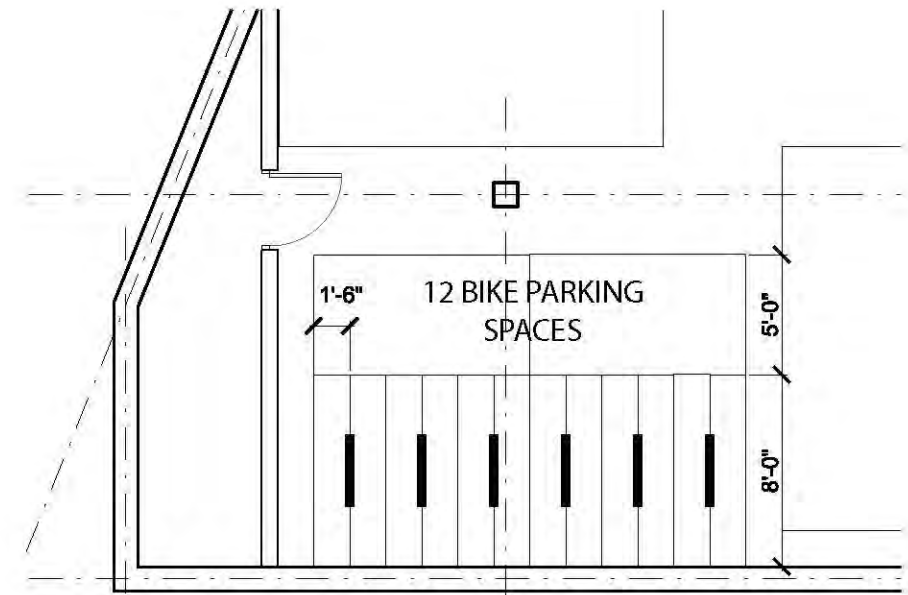
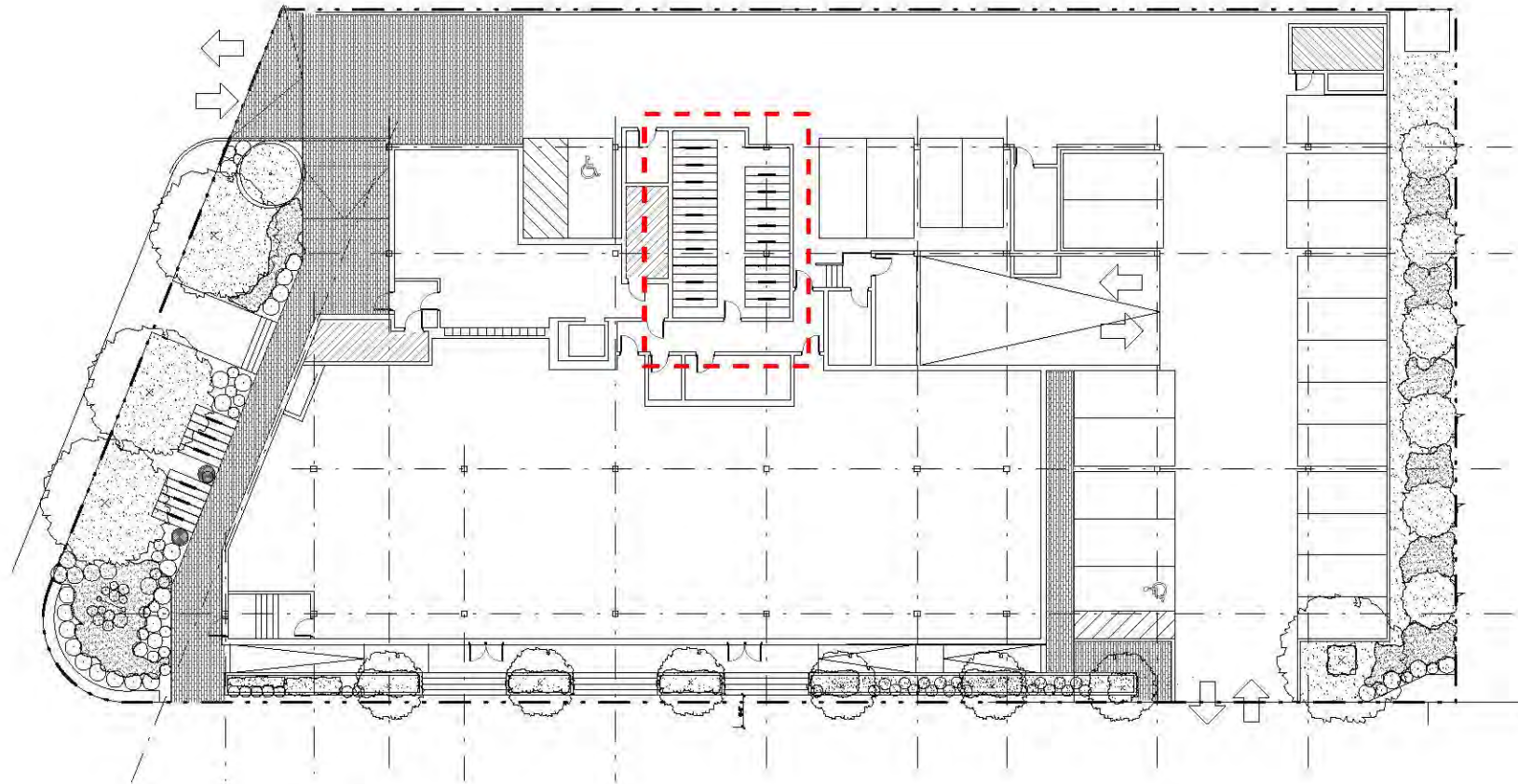


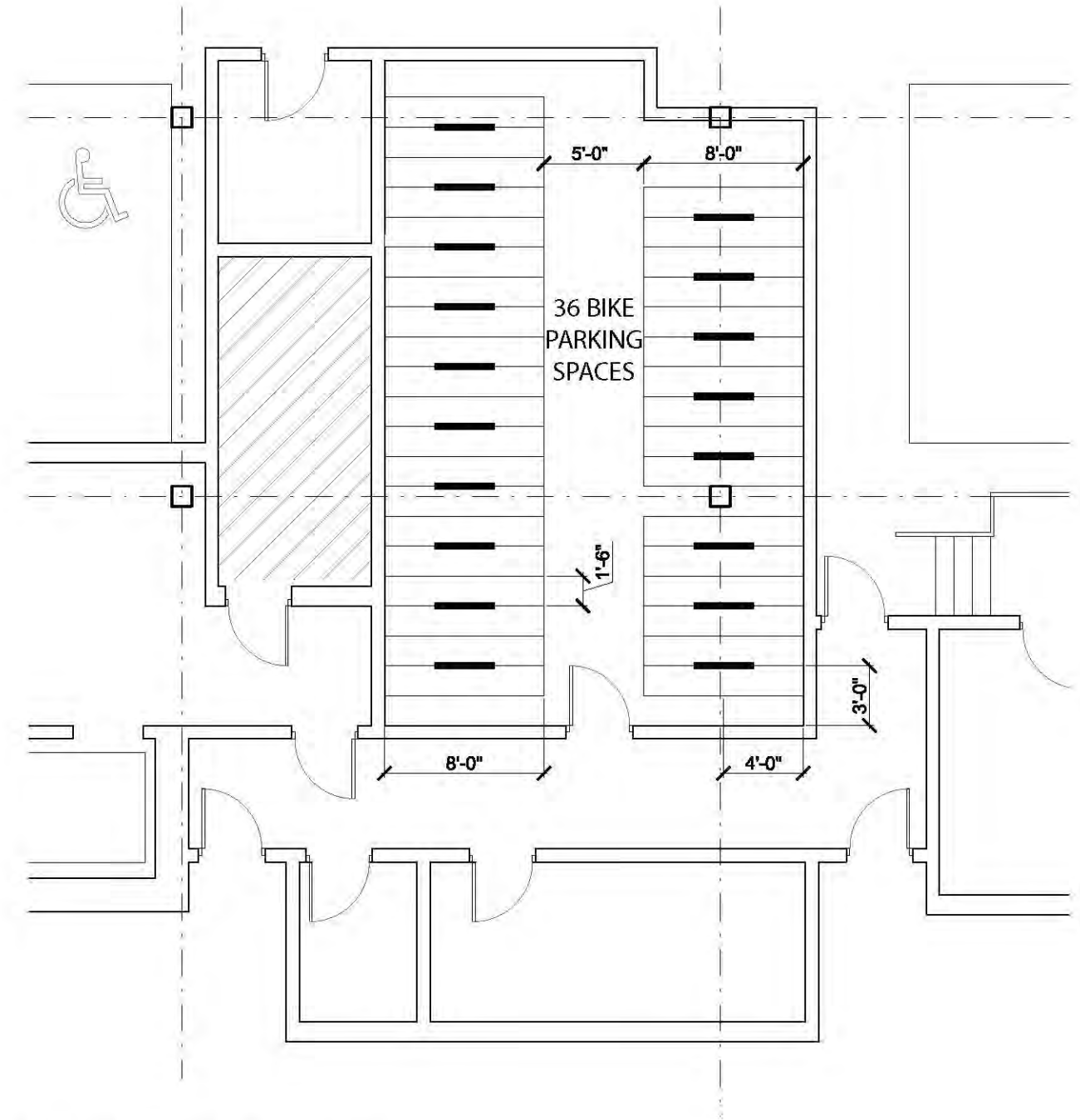
1 | BASEMENT FLOOR PLAN



2 | BASEMENT LEVEL - BIKE PARKING AREAS



1 | GROUND FLOOR PLAN



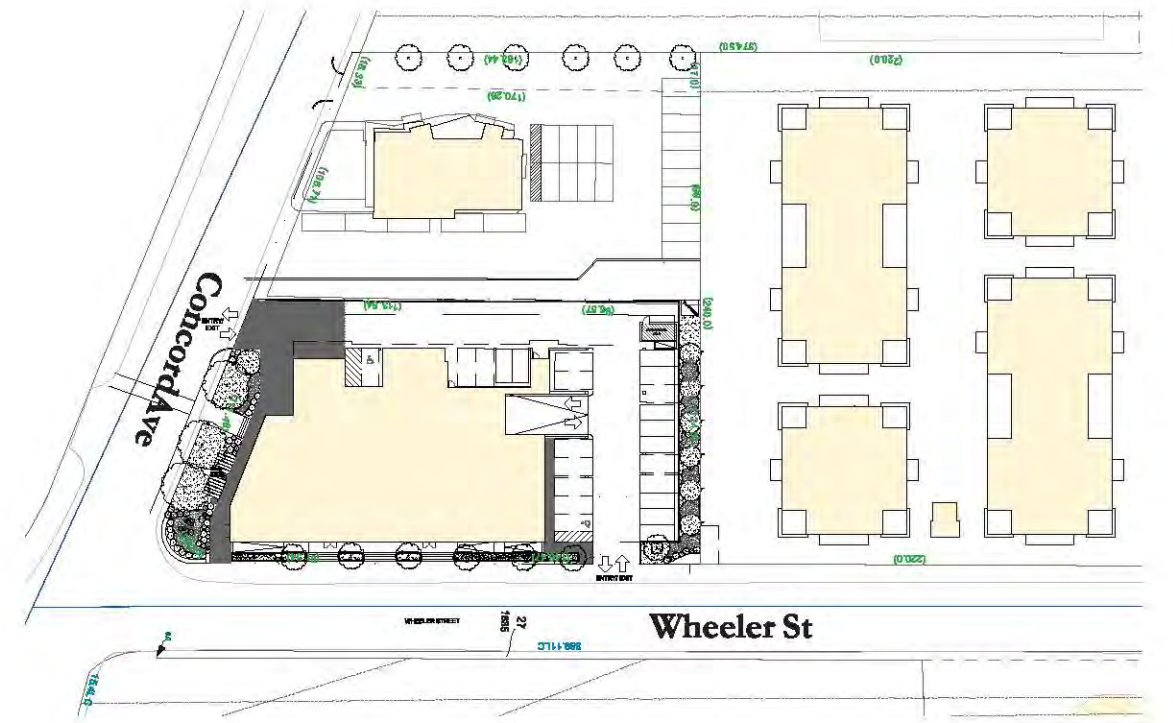
2 | GROUND FLOOR - BIKE PARKING AREAS



CONCORD-WHEELER | **CONCORD AVENUE**
 Cambridge, MA | **ELEVATION**



DATE: 9 MAR 12
 PROJECT No: 10008
 DRAWN BY: KL
 SCALE: 1/16" = 1'

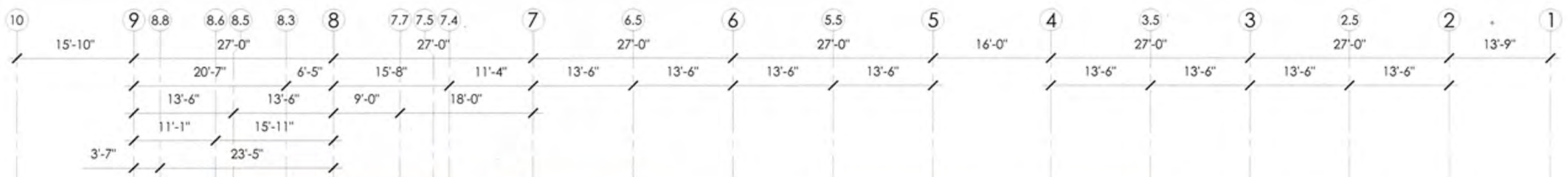


CONCORD - WHEELER
Cambridge, MA

**WHEELER STREET
ELEVATION**



DATE: 9 MAR 12
PROJECT No: 10008
DRAWN BY: KL
SCALE: 1/16" = 1'

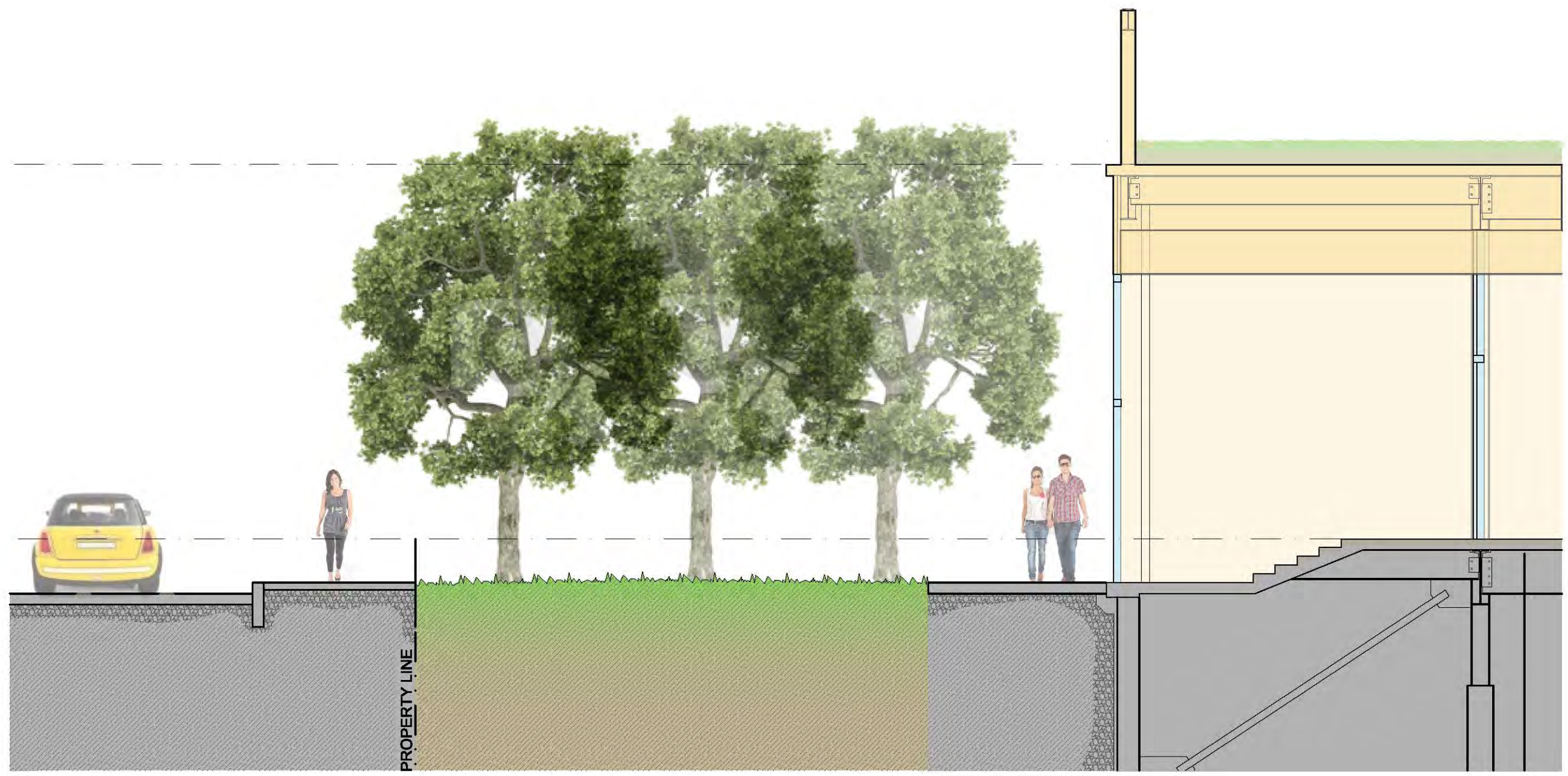
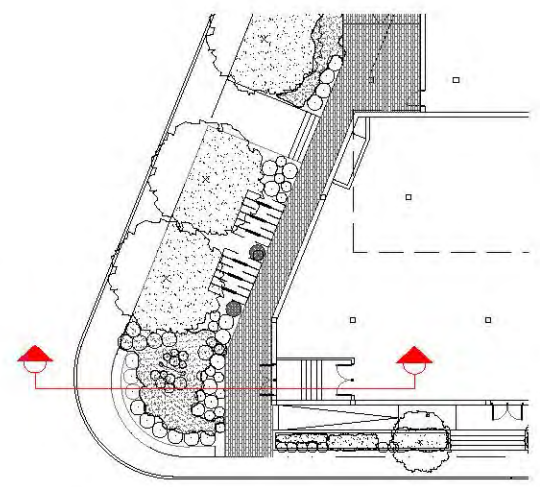


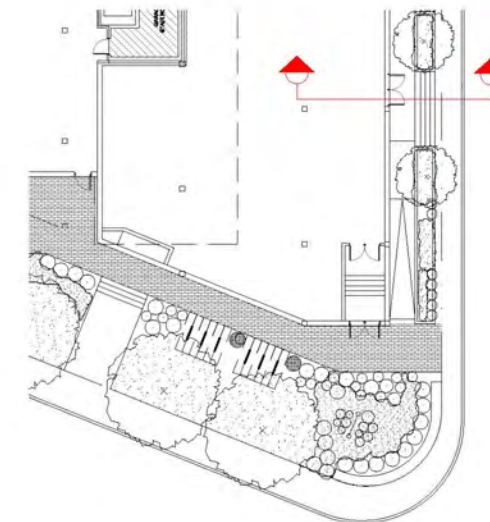












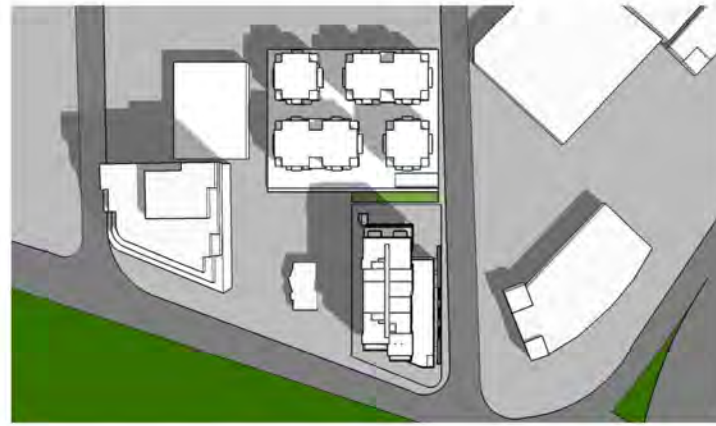
CONCORD AVENUE | **WHEELER STREET**
 cambridge, ma | **SIDEWALK SECTION**

June 23
summer solstice

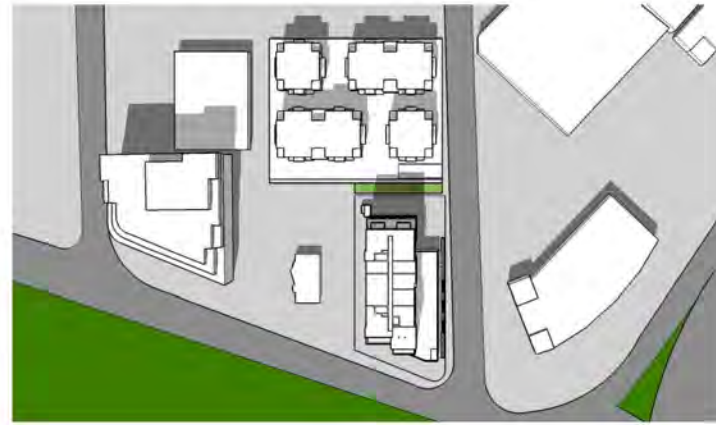
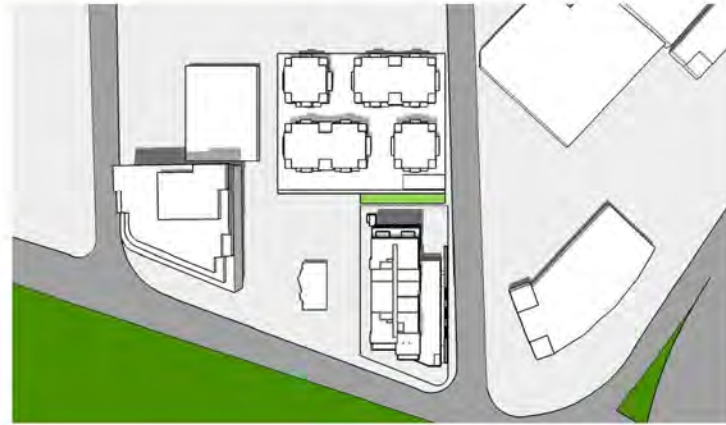
march/september 23
equinox

December 23
winter solstice

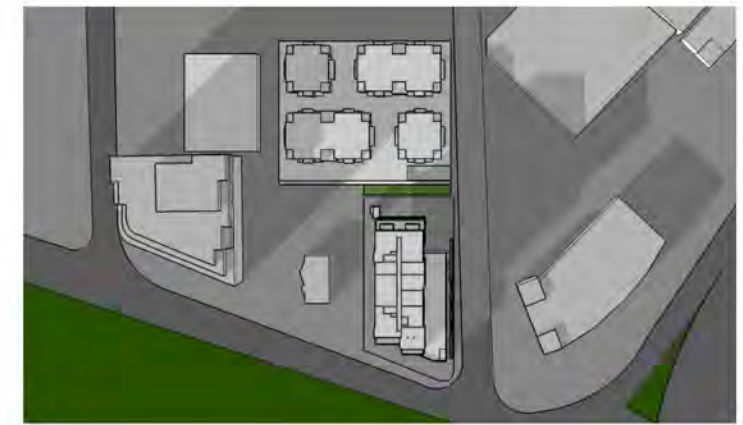
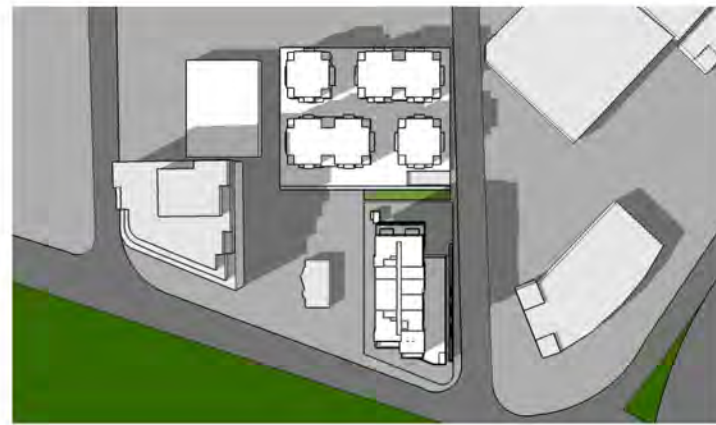
9am



12pm

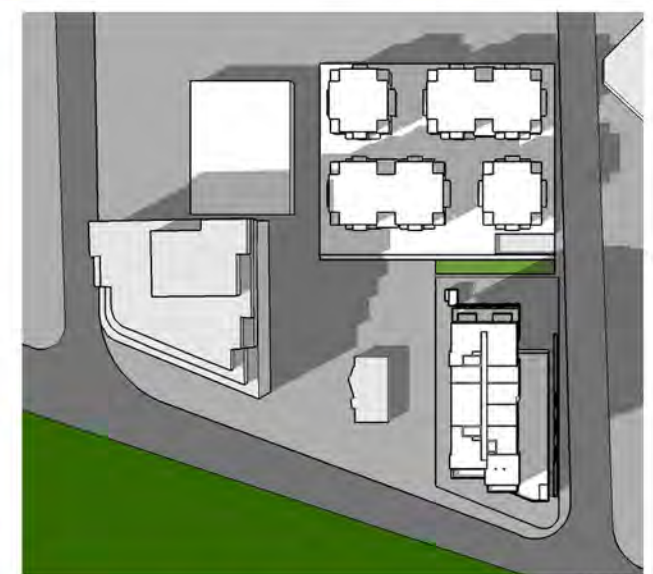
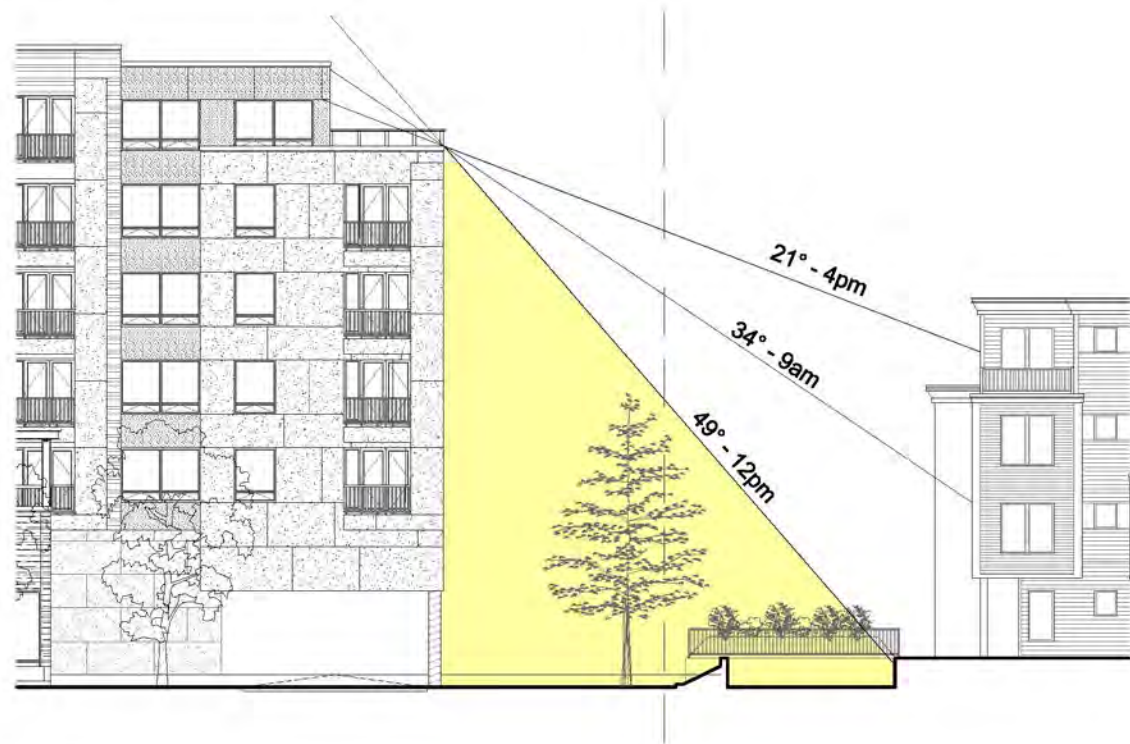
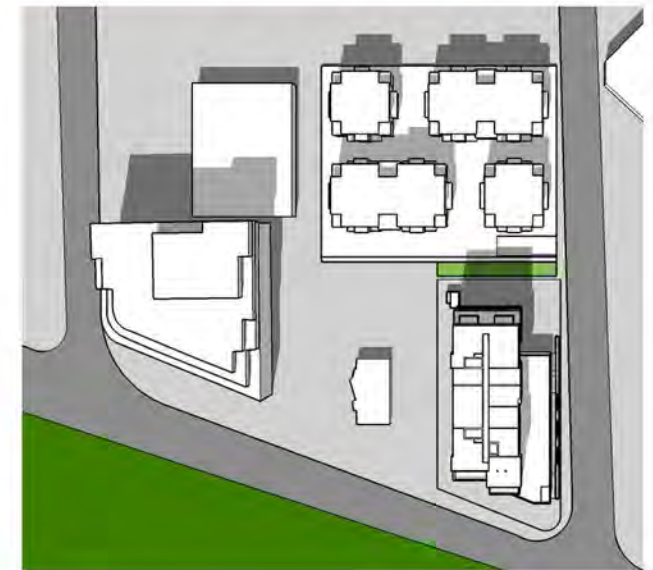
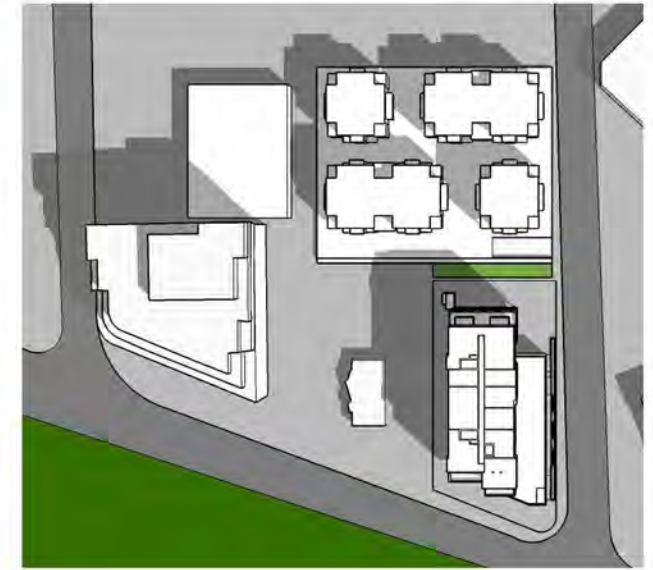
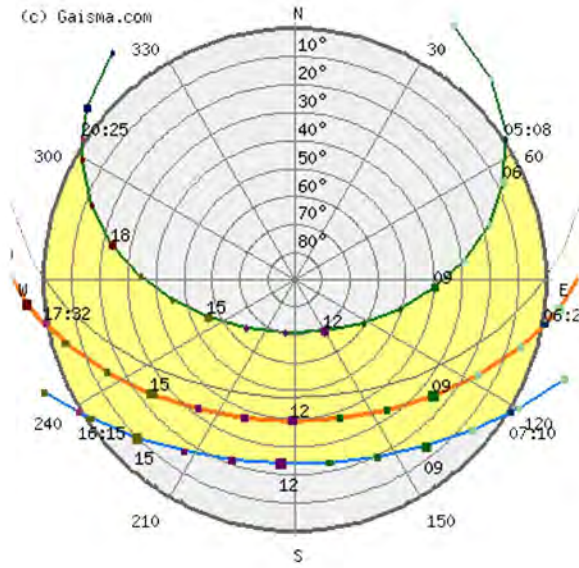


3pm

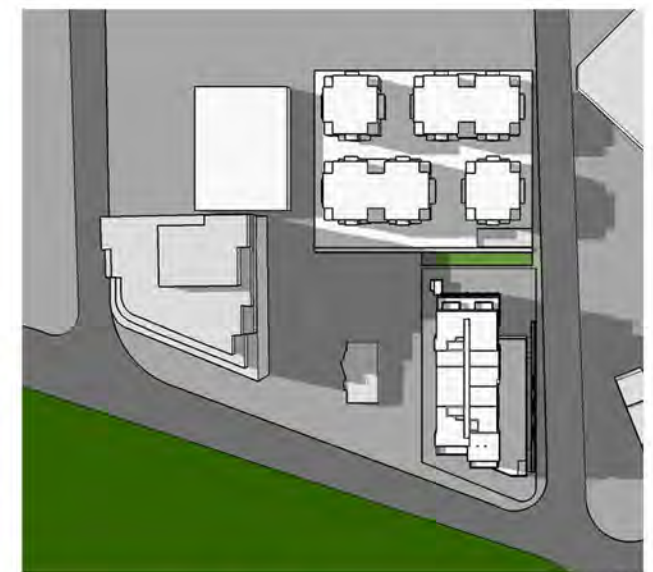
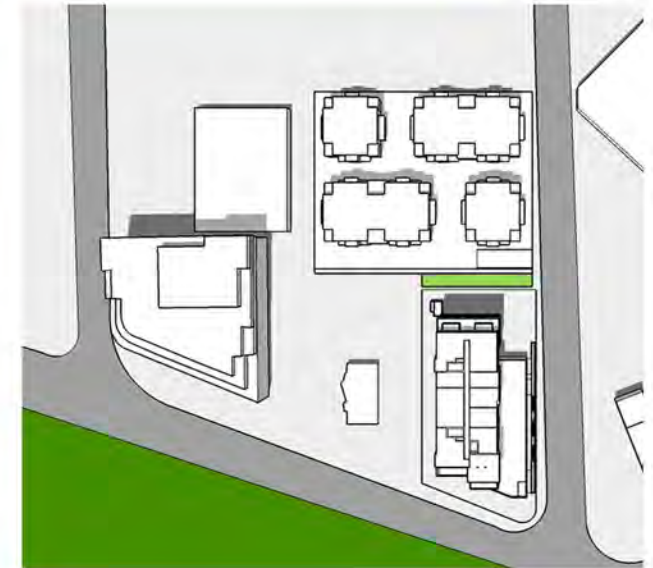
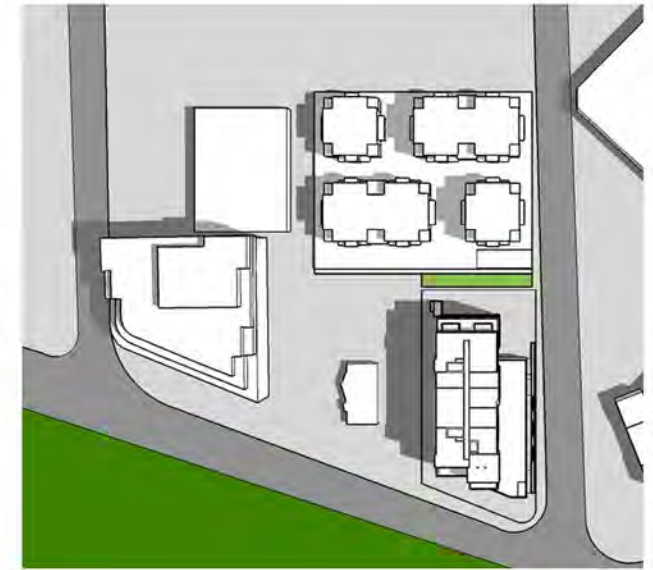
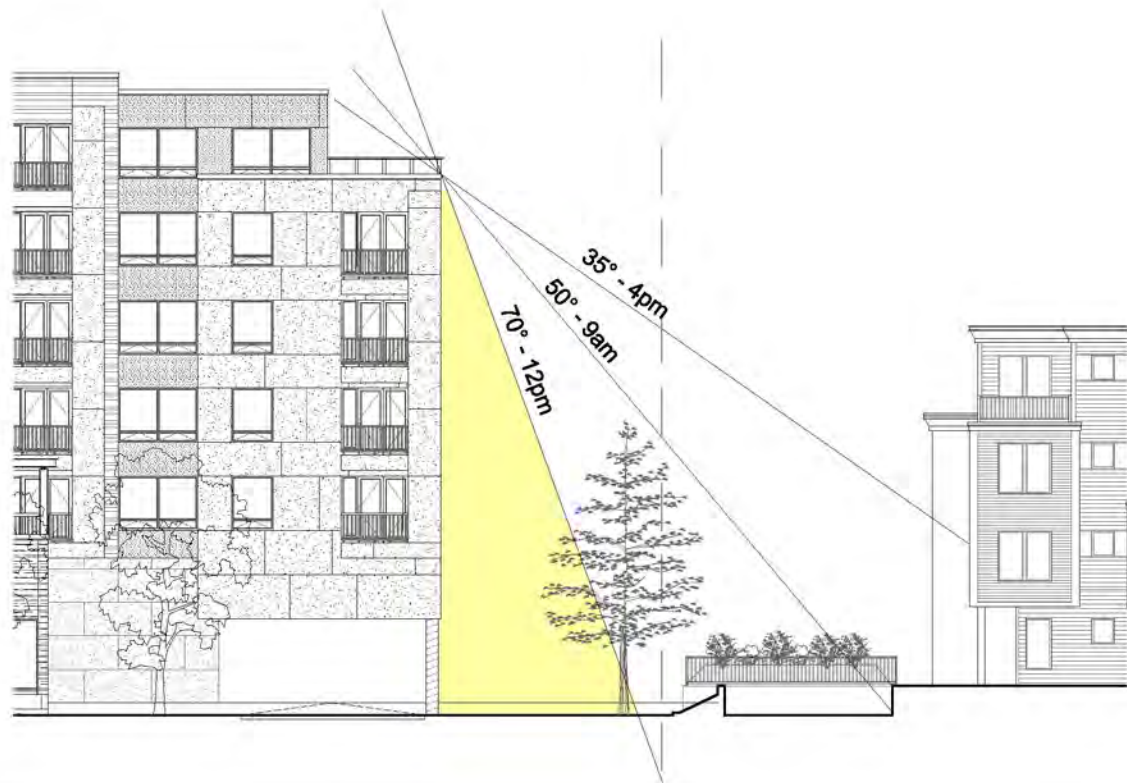
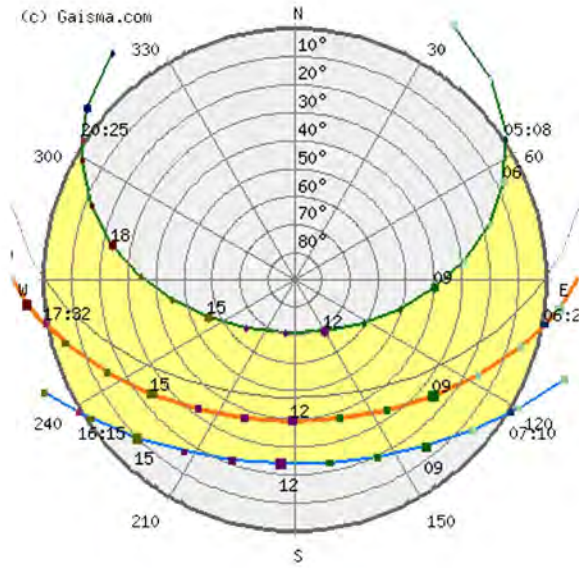


March/September 23

equinox

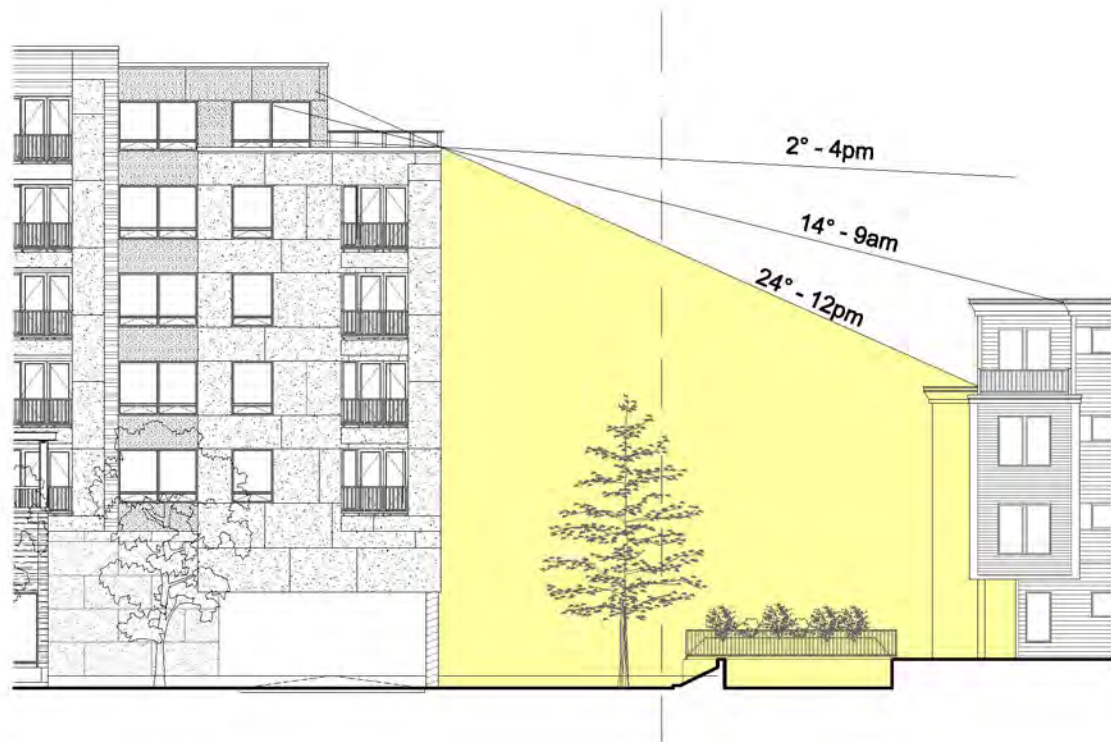
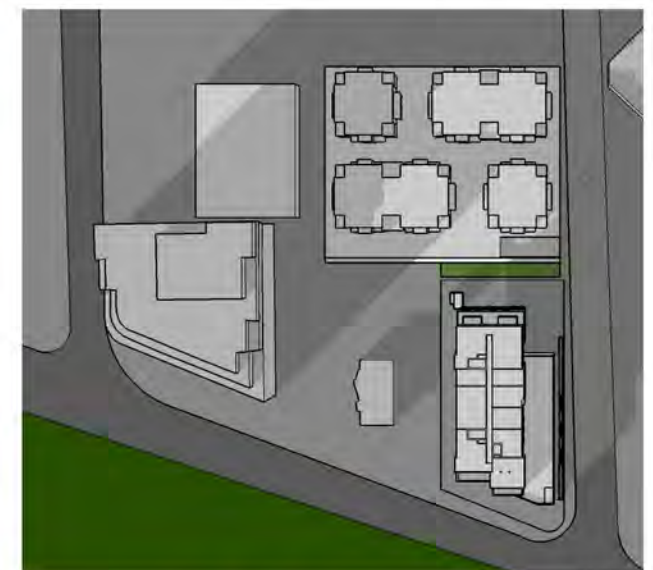
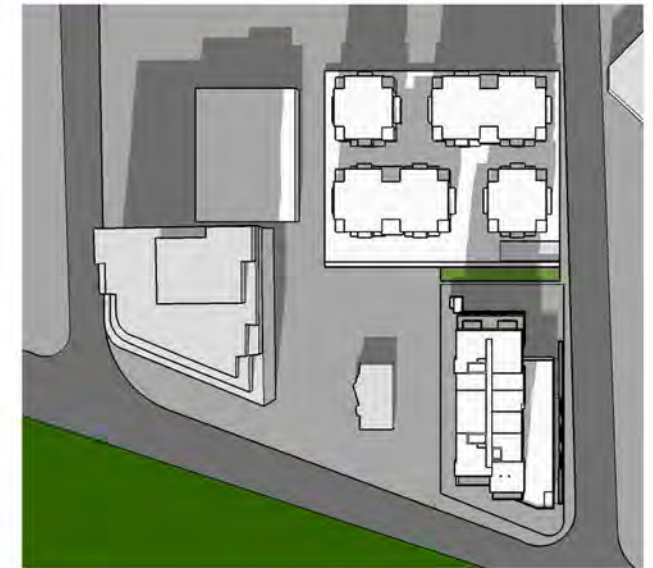
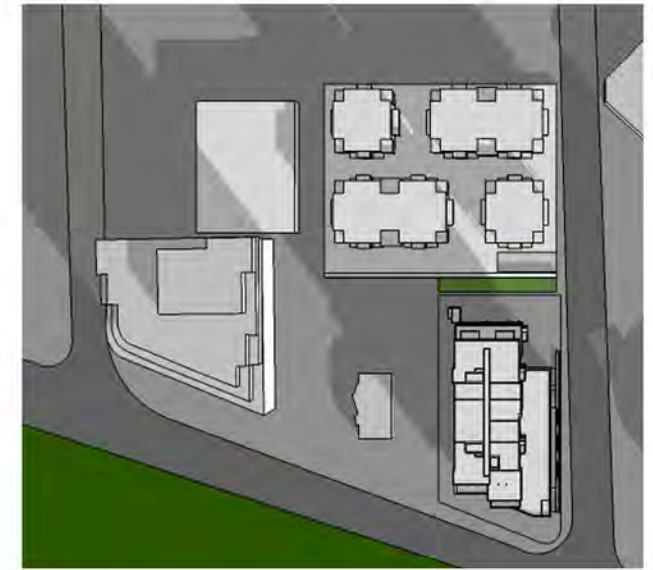
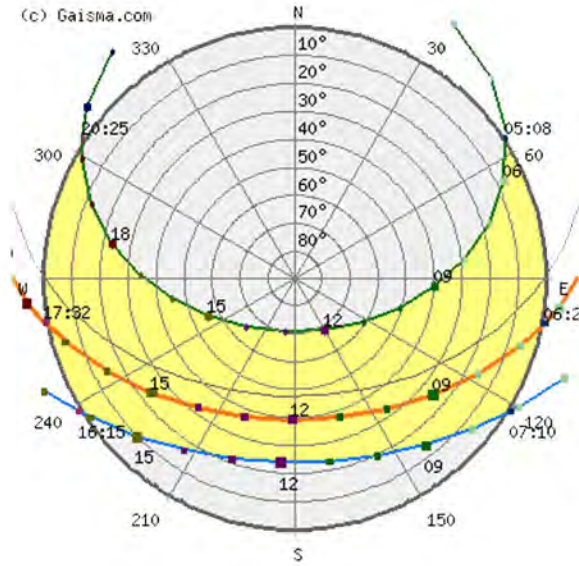


June 23
summer solstice



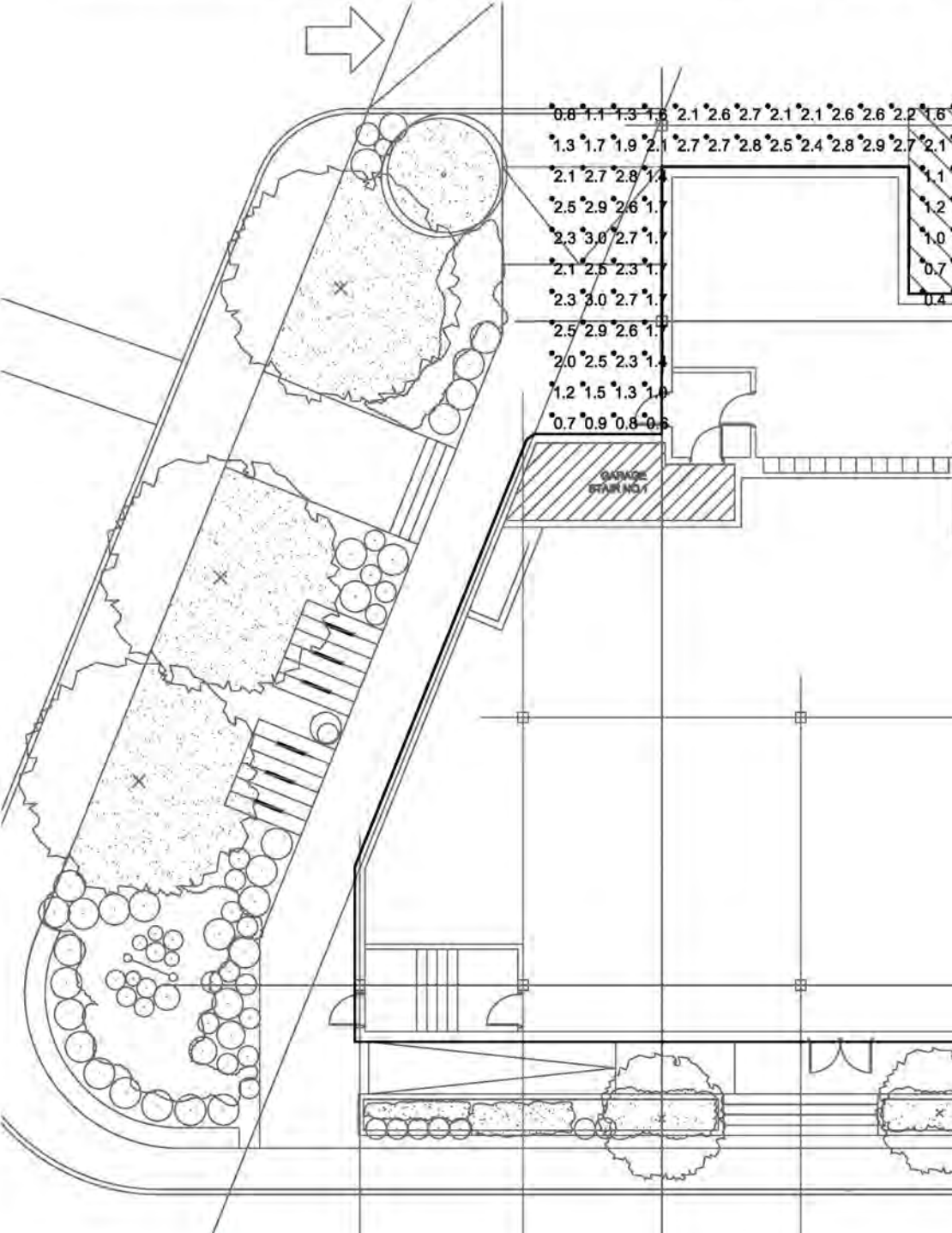
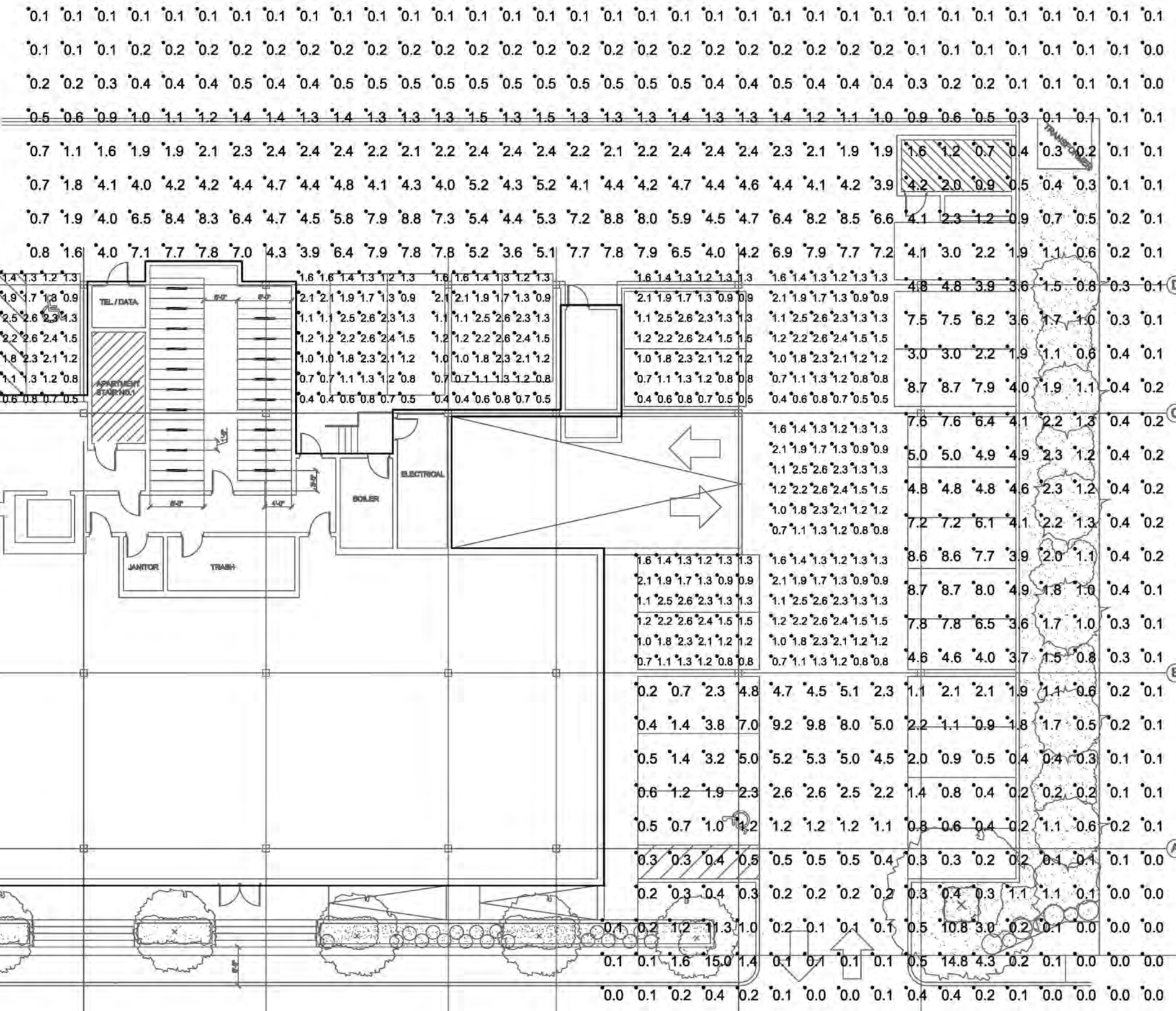
December 23

winter solstice



Calculation Summary					
Label	Avg	Max	Min	Avg/Min	Max/Min
Under canopy	1.85	3.0	0.4	4.63	7.50
Building perimeter	2.01	15.0	0.0	N.A.	N.A.

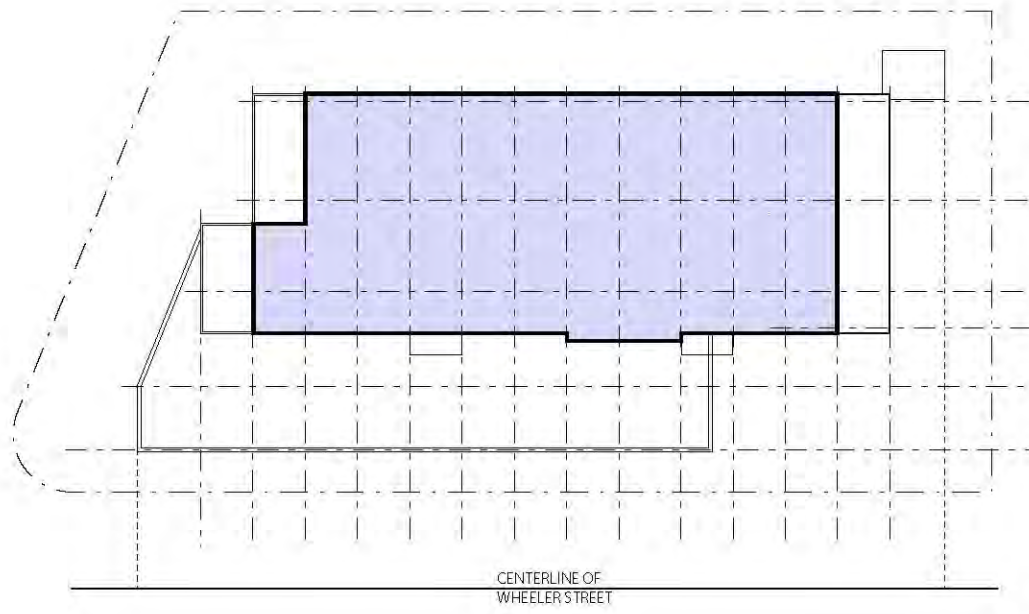
Luminaire Schedule				
Qty	Label	Description	Lumens	LLF
7	C	LW2-80L-5R-UN-WT	-1	0.850
2	B	PL7-25L-41K-UN-RF-5C-BZ	2000	0.850
5	D	IC20LEDG2-3R c/w 204C-WH	-1	0.850



CONCORD - WHEELER PHOTOMETRIC PLAN
Cambridge, MA



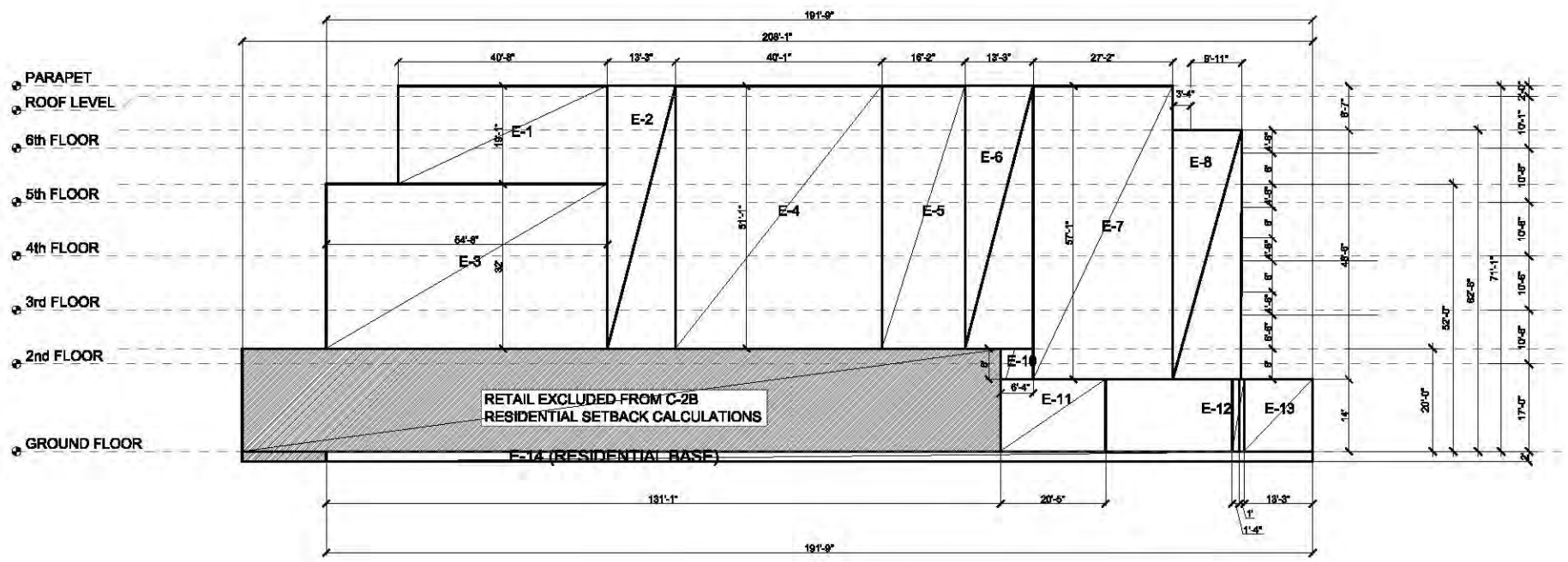
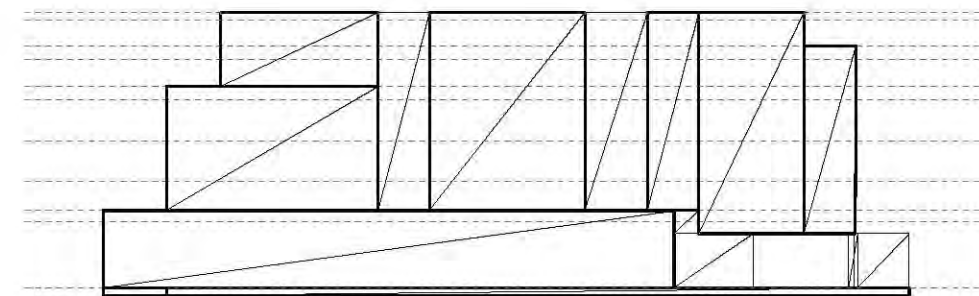
DATE: 9 MAR 12
PROJECT No: 10008
DRAWN BY: LJ
SCALE: NTS

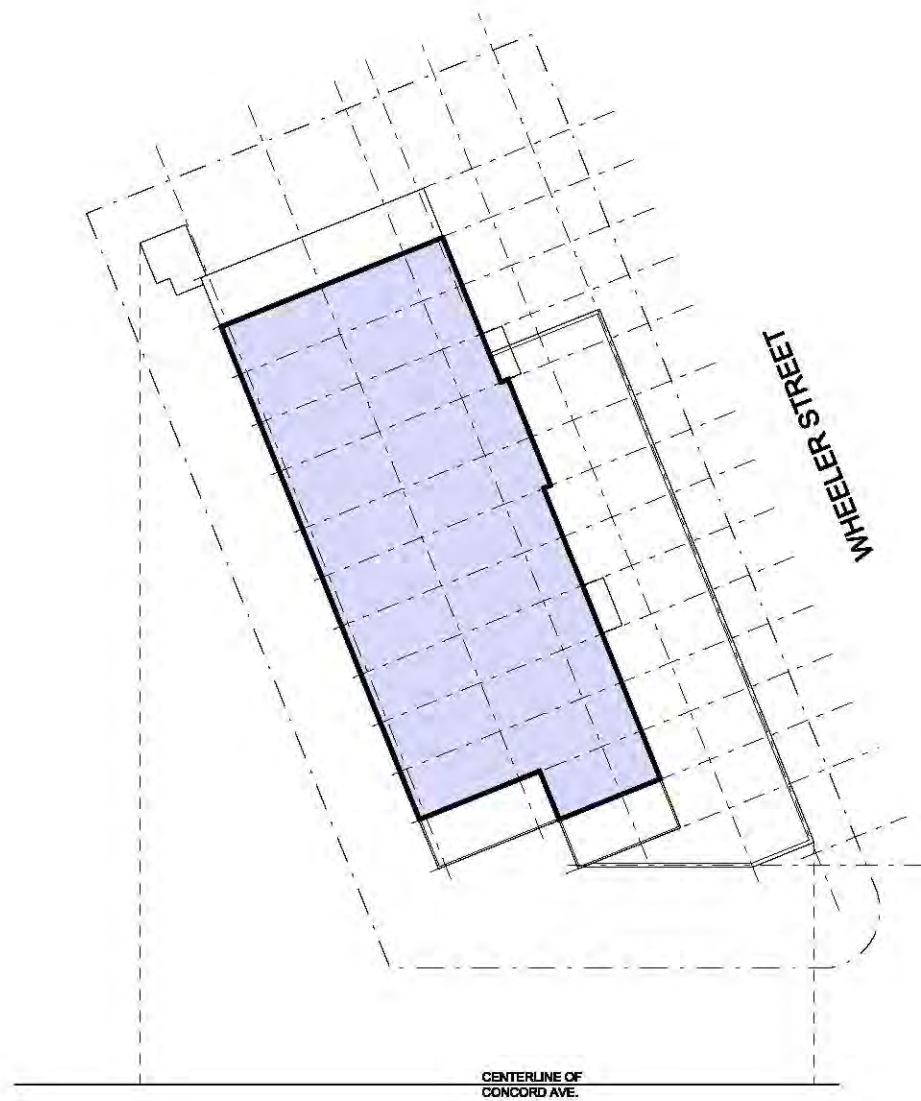


EAST ELEVATION RESIDENTIAL SETBACKS (WHEELER STREET)							
Vertical Planes	Absolute Height in ft (H)	Area Height (h)	Length in ft (L)	Setback (H+L)/4 (S)	Actual Setback* (s)	Facing Area Sf (A)	Facing Area x Actual Setback
Plane E1	73.08	19.08	40.67	28.44	65.83	775.98	51,083.00
Plane E2	73.08	51.08	13.25	21.58	60.33	676.81	40,831.95
Plane E3	54.00	32.00	54.67	27.17	65.83	1749.44	115,165.64
Plane E4	73.08	51.08	40.08	28.29	65.83	2047.29	134,772.86
Plane E5	73.08	51.08	16.17	22.31	63.83	825.96	52,721.26
Plane E6	73.08	51.08	13.25	21.58	60.33	676.81	40,831.95
Plane E7	73.08	57.08	27.17	25.06	65.83	1550.86	102,093.35
Plane E8	73.08	57.08	13.33	21.60	58.33	760.88	44,381.92
Plane E9				0.00			0.00
Plane E10	22.00	6.00	5.33	6.83	65.83	31.98	2,105.24
Plane E11	16.00	14.00	19.42	8.86	75.33	271.88	20,480.72
Plane E12	16.00	14.00	2.33	4.58	66.83	32.62	2,179.99
Plane E13	16.00	14.00	13.25	7.31	126.50	185.50	23,465.75
Plane E14	2.00	2.00	191.75	48.44	35.33	383.50	13,549.06

	H _{avg}	L _{total}	H _{avg} +L/4	S _{sum}	A _{sum}	A _{sum} x (H _{avg} x L _{tot}) / 4
Plane 1	35.49	191.75	56.81	875.96	9,969.51	566,356.65

Setback Calcs: Sum of Setback x Facing Area > Single Plane Setback x Single Plane Facing Area
 643,662.69 > 566,356.65 77,306.04



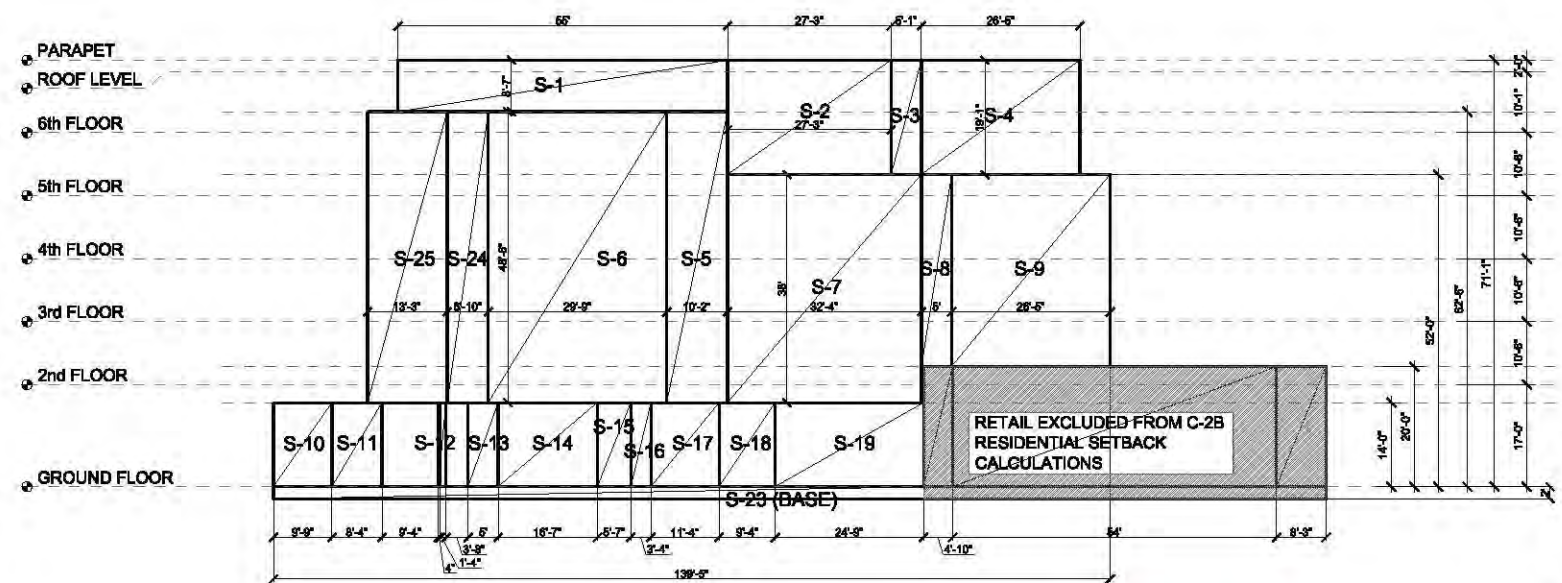
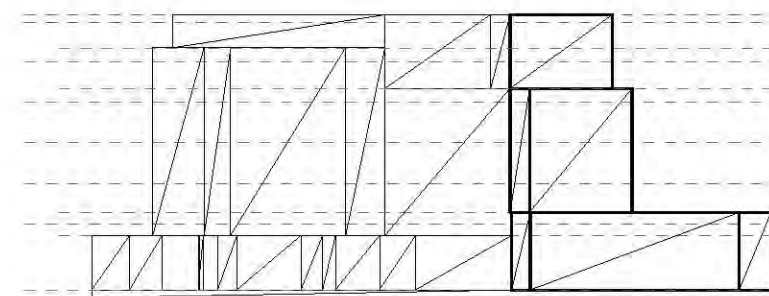


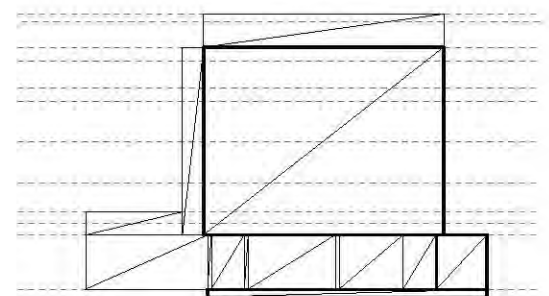
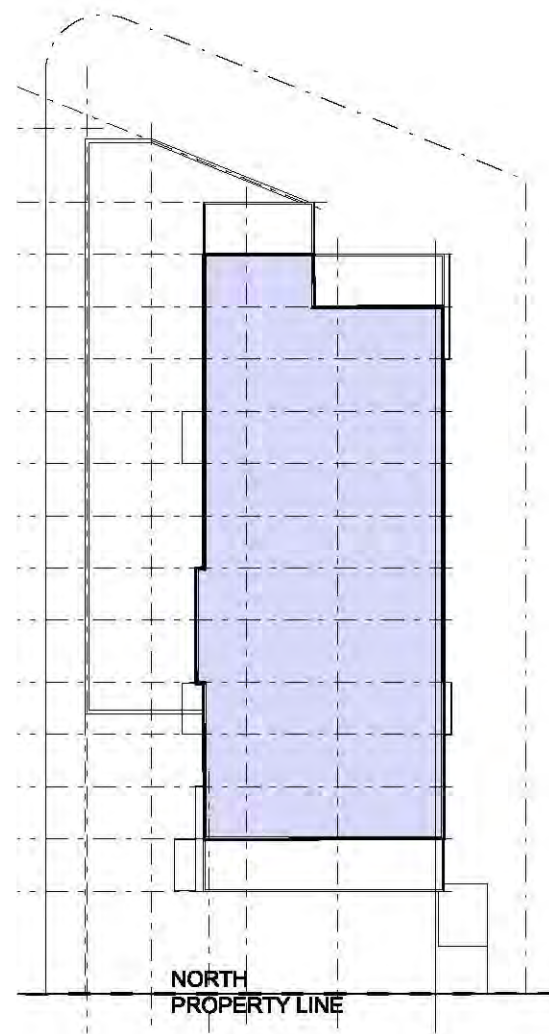
SOUTH ELEVATION RESIDENTIAL SETBACKS (CONCORD AVE.)							
Vertical Planes	Absolute Height in ft (H)	Area Height (h)	Length in ft (L)	Setback (H+L)/4 (S)	Actual Setback* (s)	Facing Area Sf (A)	Facing Area x Actual Setback
Plane S1	73.08	8.58	55.00	32.02		471.90	0.00
Plane S2	73.08	19.08	27.25	25.08		519.93	0.00
Plane S3	73.08	19.08	5.08	19.54		96.93	0.00
Plane S4	73.08	19.08	26.42	24.88		504.09	0.00
Plane S5	64.50	48.50	10.17	18.67	55.17	493.25	27,212.33
Plane S6	64.50	48.50	41.08	26.40	84.42	1992.38	168,196.72
Plane S7	54.00	38.00	32.33	21.58	55.17	1228.54	67,778.55
Plane S8	54.00	32.00	5.00	14.75	55.67	160.00	8,907.20
Plane S9	54.00	32.00	26.50	20.13	55.67	848.00	47,208.16
Plane S10	16.00	16.00	9.75	6.44	203.75	156.00	31,785.00
Plane S11	16.00	16.00	8.33	6.08	203.75	133.28	27,155.80
Plane S12	16.00	16.00	1.67	4.42	183.33	26.72	4,898.58
Plane S13	16.00	16.00	5.00	5.25	158.33	80.00	12,666.40
Plane S14	16.00	16.00	16.58	8.15	158.33	265.28	42,001.78
Plane S15	16.00	16.00	5.58	5.40	152.50	89.28	13,615.20
Plane S16	16.00	16.00	3.33	4.83	94.92	53.28	5,057.34
Plane S17	16.00	16.00	11.33	6.83	94.92	181.28	17,207.10
Plane S18	16.00	16.00	9.33	6.33	58.25	149.28	8,695.56
Plane S19	16.00	16.00	24.75	10.19	58.25	396.00	23,067.00
Plane S23	2.00	2.00	104.42	26.61	56.25	208.84	11,747.25
Plane S24	64.50	48.50	6.83	17.83	157.50	331.26	52,172.66
Plane S25	64.50	48.50	13.25	19.44	175.42	642.63	112,729.28

	H _{avg}	L _{total}	H _{avg} +L/4	S _{sum}	A _{sum}	A _{sum} X (H _{avg} X L _{tot}) / 4
Plane 1	40.31	139.42	44.93	2,061.60	9,028.14	405,663.27

Setback Calcs: Sum of Setback x Facing Area > Single Plane Setback x Single Plane Facing Area
 682,101.90 > 276,438.64

*Distance to Centerline of Street



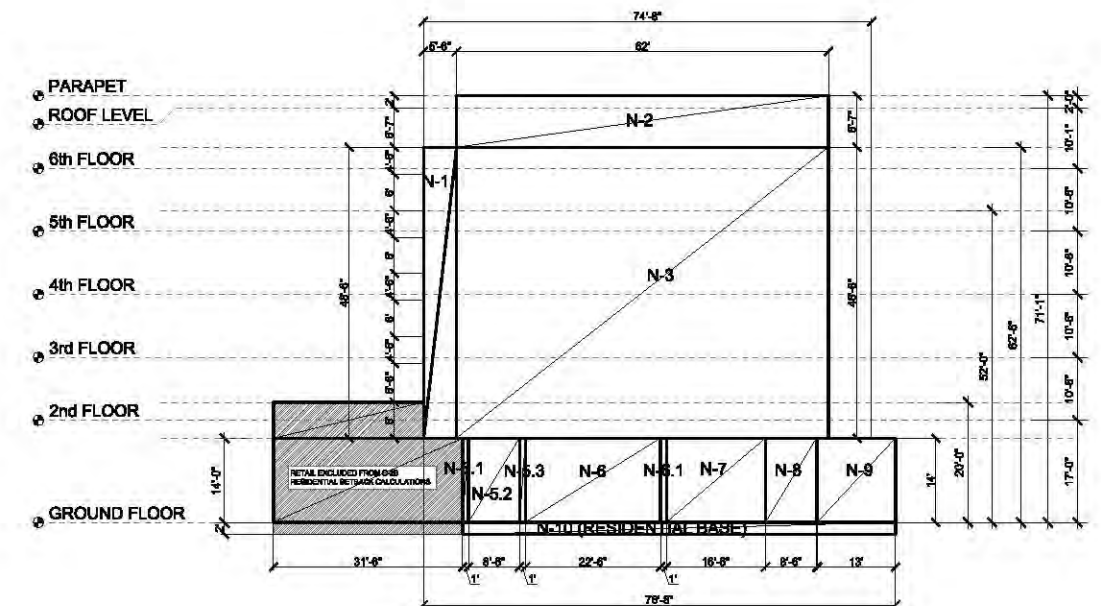


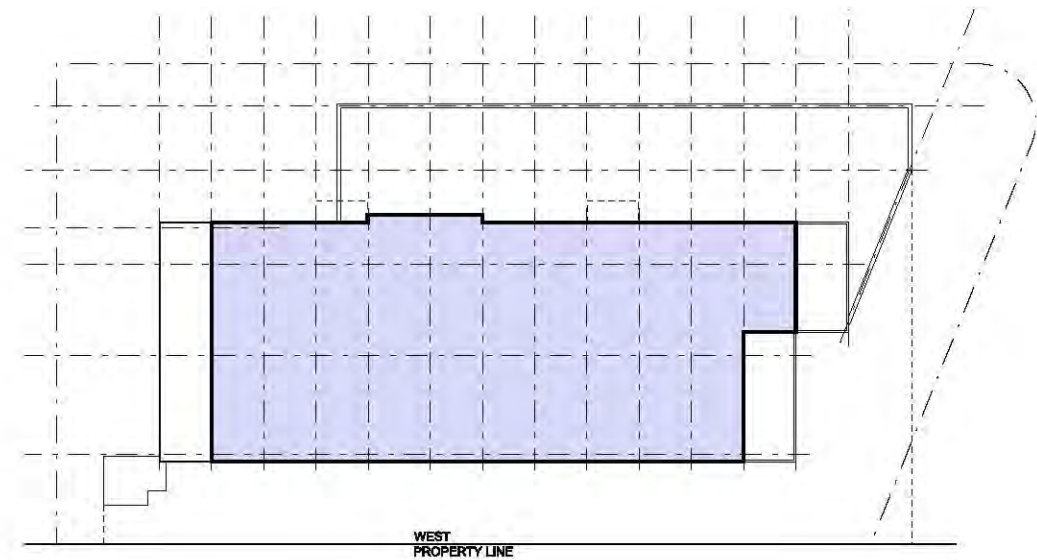
NORTH ELEVATION RESIDENTIAL SETBACKS							
Vertical Planes	Absolute Height in ft (H)	Area Height (h)	Length in ft (L)	Setback (H+L)/4 (S)	Actual Setback* (s)	Facing Area Sf (A)	Facing Area x Actual Setback
Plane N1	73.08	48.50	5.42	19.63	26.42	262.87	6,945.03
Plane N2	73.08	8.58	62.00	33.77	39.92	531.96	21,235.84
Plane N3	64.50	48.50	62.00	31.63	26.42	3007.00	79,444.94
Plane N5.1	16.00	14.00	1.00	4.25	26.42	14.00	369.88
Plane N5.3	16.00	14.00	1.00	4.25	26.42	14.00	369.88
Plane N6	16.00	14.00	22.50	9.63	52.92	315.00	16,669.80
Plane N6.1	16.00	14.00	1.00	4.25	26.42	14.00	369.88
Plane N7	16.00	14.00	16.50	8.13	70.67	231.00	16,324.77
Plane N8	16.00	14.00	8.50	6.13	66.33	119.00	7,893.27
Plane N9	16.00	14.00	13.00	7.25	12.67	182.00	2,305.94
Plane N10	2.00	2.00	68.17	17.54	12.67	136.34	1,727.43

Plane 1	H _{avg}	L _{total}	H _{avg} +L/4	S _{sum}	A _{sum}	A _{sum} x (H _{avg} x L _{tot}) / 4
Plane 1	38.60	74.67	28.32	387.28	4,827.17	136,694.86

Setback Calcs: Sum of Setback x Facing Area > Single Plane Setback x Single Plane Facing Area
 153,656.66 > 136,694.86 16,961.79

*Distance to Property Line





WEST ELEVATION RESIDENTIAL SETBACKS							
Vertical Planes	Absolute Height in ft (H)	Area Height (h)	Length in ft (L)	Setback (H+L)/4 (S)	Actual Setback* (s)	Facing Area Sf (A)	Facing Area x Actual Setback
Plane W1	73.08	8.67	137.00	52.52	21.17	1187.79	25,145.51
Plane W2	64.50	10.50	96.50	40.25	21.17	1013.25	21,450.50
Plane W3	73.08	19.08	13.50	21.65	55.17	257.58	14,210.69
Plane W4	54.00	38.00	110.00	41.00	21.17	4180.00	88,490.60
Plane W5	54.00	32.00	14.00	17.00	55.17	448.00	24,716.16
Plane W6	16.00	16.00	15.58	7.90	10.00	249.28	2,492.80
Plane W6.1	16.00	16.00	1.00	4.25	22.67	16.00	362.72
Plane W7	16.00	14.00	13.42	7.36	25.83	187.88	4,852.94
Plane W8	16.00	16.00	1.00	4.25	22.67	16.00	362.72
Plane W9	16.00	14.00	15.00	7.75	41.00	210.00	8,610.00
Plane W10	16.00	16.00	1.00	4.25	22.67	16.00	362.72
Plane W11	16.00	14.00	25.60	10.40	41.00	358.40	14,694.40
Plane W12	16.00	16.00	1.00	4.25	22.67	16.00	362.72
Plane W13	16.00	14.00	16.83	8.21	41.00	235.62	9,660.42
Plane W14	16.00	14.00	9.00	6.25	22.67	126.00	2,856.42
Plane W15	16.00	16.00	1.00	4.25	22.67	16.00	362.72
Plane W16	16.00	14.00	16.00	8.00	41.00	224.00	9,184.00
Plane W17	16.00	14.00	25.00	10.25	28.00	350.00	9,800.00
Plane W17.1	16.00	14.00	1.00	4.25	22.67	14.00	317.38
Plane W18	64.50	48.50	13.50	19.50	19.17	654.75	12,551.56
Plane W19	64.50	48.50	40.50	26.25	21.17	1964.25	41,583.17
Plane W20	2.00	2.00	168.17	42.54	41.00	336.34	13,789.94

	H _{avg}	L _{total}	H _{avg} +L/4	S _{sum}	A _{sum}	A _{sum} x (H _{avg} x L _{tot}) / 4
Plane 1	40.81	191.75	58.14	641.71	12,077.14	702,153.32

Setback Calcs: Sum of Setback x Facing Area > Single Plane Setback x Single Plane Facing Area
 306,220.10 > 702,153.32 -395,933.22
REQUIRES SETBACK RELIEF FROM PLANNING BOARD

