

## MEMORANDUM

**DATE:** March 11, 2021  
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**TO:** Peter Bemis, (508)480-0225 x11, [pbemis@edcma.com](mailto:pbemis@edcma.com)  
**SUBJECT:** Modeling of Chestnut Street and Jackson Drive Residences  
Proposed Warehouse Sound Analysis  
555 Hopping Brook Road, Holliston, MA

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This memorandum provides additional modeling results regarding the Cavanaugh Tocci letter report to Mr. Peter Bemis, Engineering Design Consultants, Inc. dated January 25, 2021 concerning the proposed warehouse at 555 Hopping Brook Road, Holliston, MA. In addition to the eight Medway residences previously modeled, this memorandum includes the residence at 56 Chestnut Street in Holliston and the recently constructed residences on Jackson Drive in Holliston

Figure 1 is a site plan sketch indicating the eight original receptor locations R1-R8 and the two new receptor locations R9 and R10, as well as the corresponding property line locations PL1-PL10.

Table 1 lists estimated stationary source sound levels at R1-R10 and at the corresponding property line locations PL-PL10. Also contained in Table 1 are the total sound levels at receptor study locations, and the zoning and MassDEP Noise Policy stationary source limits considered in this study.

Table 2 lists estimated sound levels produced by transient mobile sources at R1-R10 and at PL1-PL10. As transient sounds are at most only seconds in length and very rarely occur at the same time, the total has no physical meaning and is not reported in Table 2.

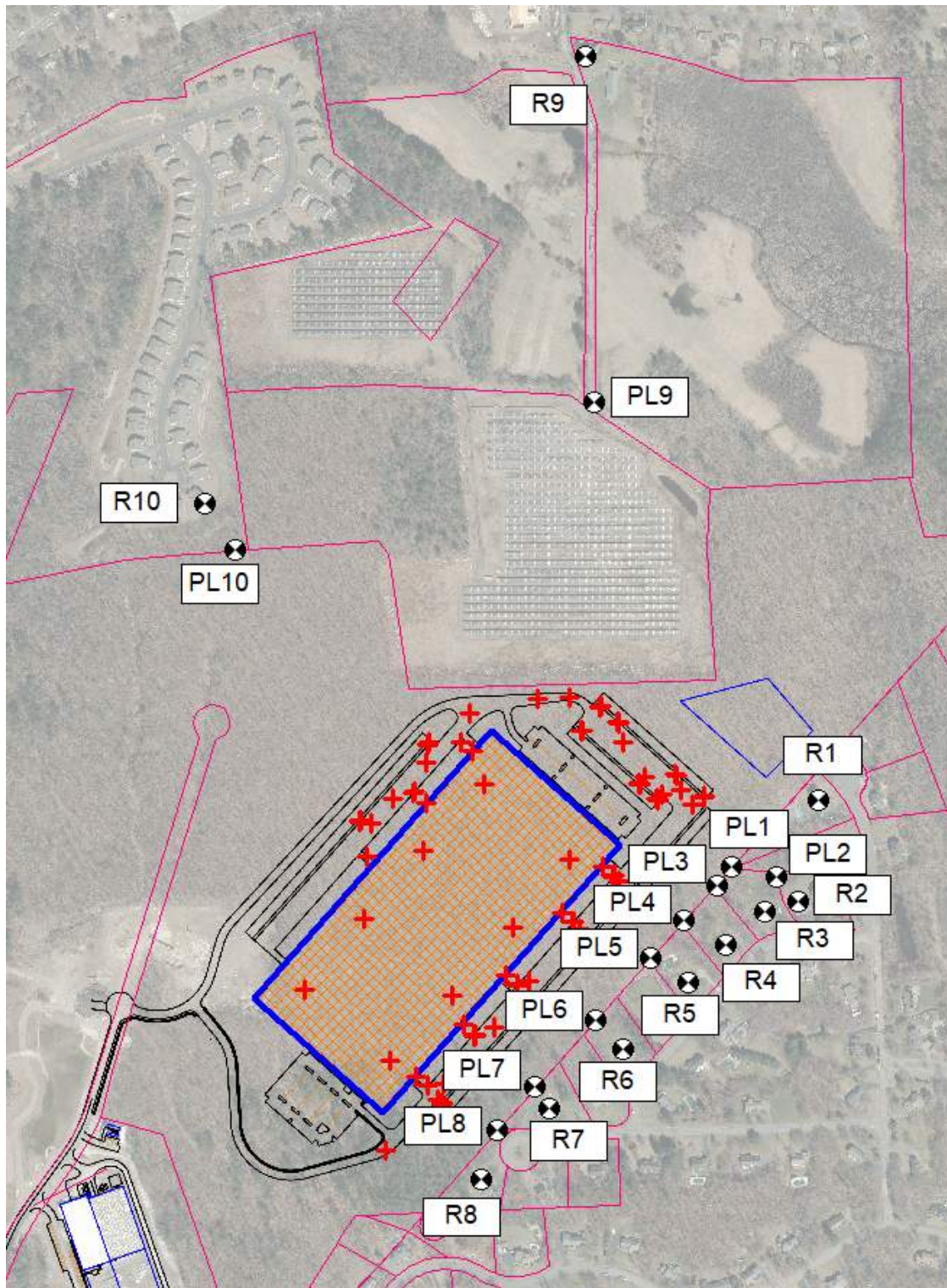


Figure 1. Pairing of property line locations PL1-PL10 with second floor (17' above grade) residential receptors R1-R10  
Proposed Warehouse, 555 Hopping Brook Road, Holliston, MA

Stationary Sources	R1	PL1	R2	PL2	R3	PL3	R4	PL4	R5	PL5	R6	PL6	R7	PL7	R8	PL8	R9	PL9	R10	PL10
Warehouse interior equipment	27	26	28	27	29	27	29	27	29	28	31	29	32	29	31	29	19	26	17	25
Rooftop make-up air unit	24	20	28	24	29	21	29	22	30	24	33	27	34	28	32	28	21	28	22	26
Emergency generator	9	10	10	10	10	11	11	11	11	12	12	13	13	13	12	12	23	32	25	23
<b>Total Continuous</b>	<b>29</b>	<b>27</b>	<b>31</b>	<b>29</b>	<b>32</b>	<b>28</b>	<b>32</b>	<b>28</b>	<b>33</b>	<b>30</b>	<b>35</b>	<b>31</b>	<b>36</b>	<b>32</b>	<b>35</b>	<b>32</b>	<b>26</b>	<b>34</b>	<b>27</b>	<b>29</b>
Holliston 2015 Zoning Bylaw	50																			
Holliston 2019 Zoning Bylaw	40																			
MassDEP Noise Policy	40																			
Medway Zoning Bylaw	45																			

**Table 1. Summary of stationary equipment sound levels at  
2<sup>nd</sup> floor receptors locations R1-R10 and property line locations PL1-PL10, and applicable limits  
Proposed Warehouse, 555 Hopping Brook Road, Holliston, MA**

Transient Sources	R1	PL1	R2	PL2	R3	PL3	R4	PL4	R5	PL5	R6	PL6	R7	PL7	R8	PL8	R9	PL9	R10	PL10
Truck high idle	36	37	36	36	37	36	38	35	38	37	38	37	39	37	38	39	30	37	28	34
Backup alarm, tonal	35	37	34	34	36	36	35	37	35	36	37	36	40	38	38	40	30	34	25	34
Truck pass-by	41	42	41	41	42	41	41	41	43	41	43	43	44	43	43	44	33	42	31	38
Truck accelerating	36	36	36	36	37	37	37	37	38	37	41	40	43	43	46	45	24	28	23	25
Trailer disconnect	47	47	47	46	48	47	48	46	48	47	49	47	49	48	49	49	41	47	38	44

**Table 2. Summary of maximum transient sound levels at  
2<sup>nd</sup> floor receptors locations R1-R10 and property line locations PL1-PL10  
Proposed Warehouse, 555 Hopping Brook Road, Holliston, MA**

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