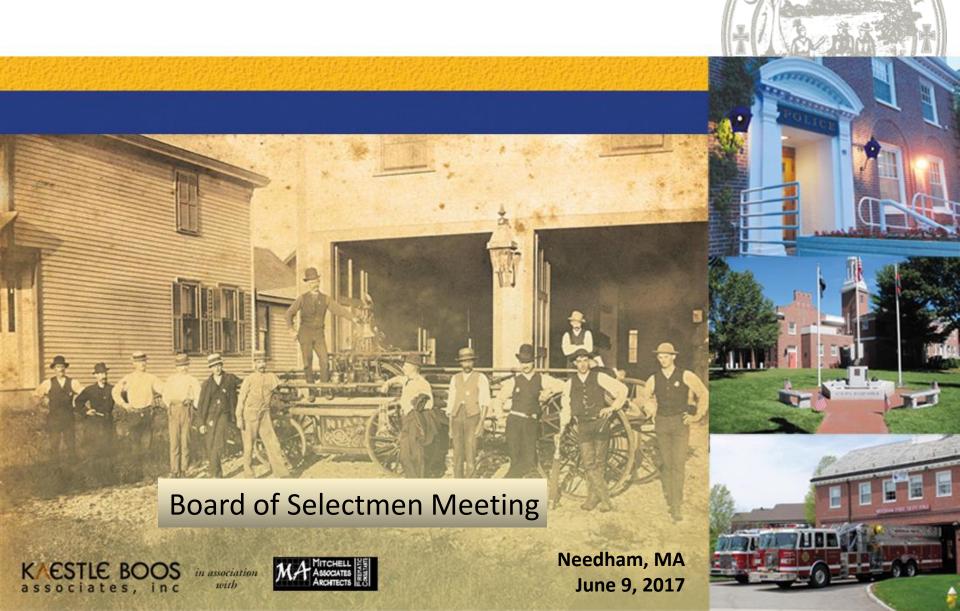
NEEDHAM POLICE & FIRE HQ NEEDHAM FIRE STATION #2





Needham Police & Fire HQ



Existing Facility: 31,145 Square Feet Proposed Facility: 56,408 Square Feet



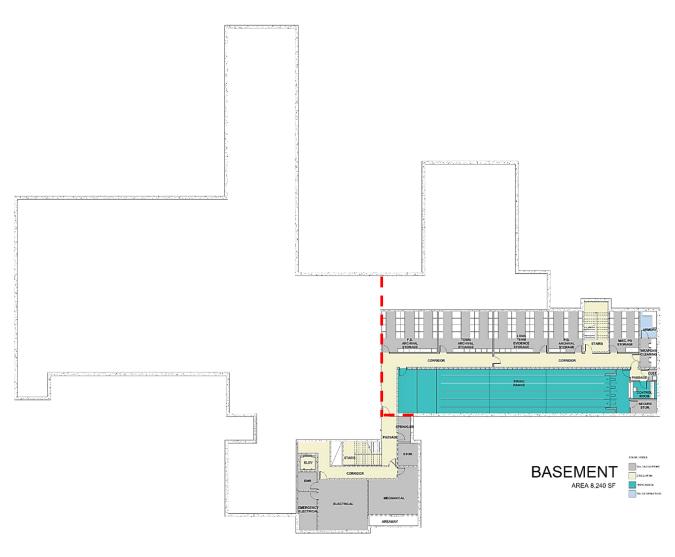




BASEMENT LEVEL FLOOR PLAN





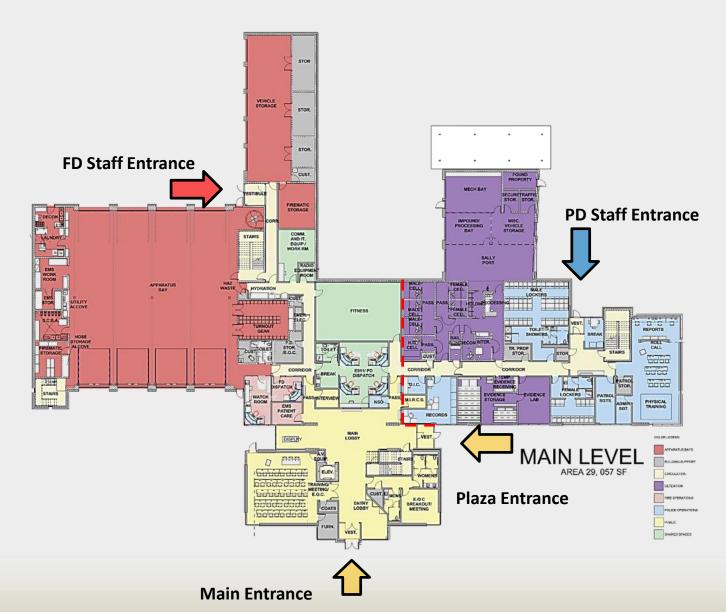




MAIN LEVEL FLOOR PLAN









UPPER LEVEL FLOOR PLAN





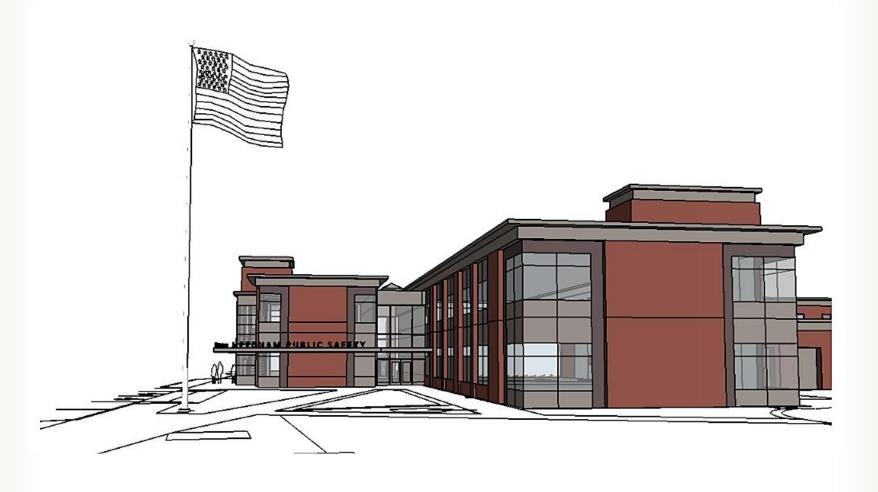










































Needham Fire Station No. 2



Existing Facility: 9,630 Square Feet Current Design: 22,112 Square Feet









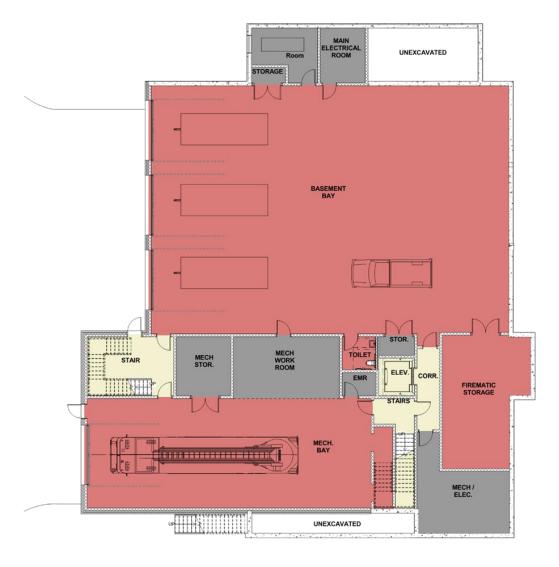




LOWER LEVER FLOOR PLAN





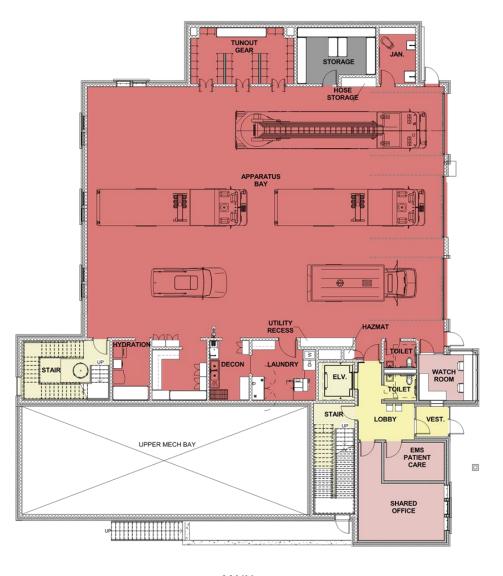


BASEMENT AREA 9,002 SF



MAIN LEVEL FLOOR PLAN





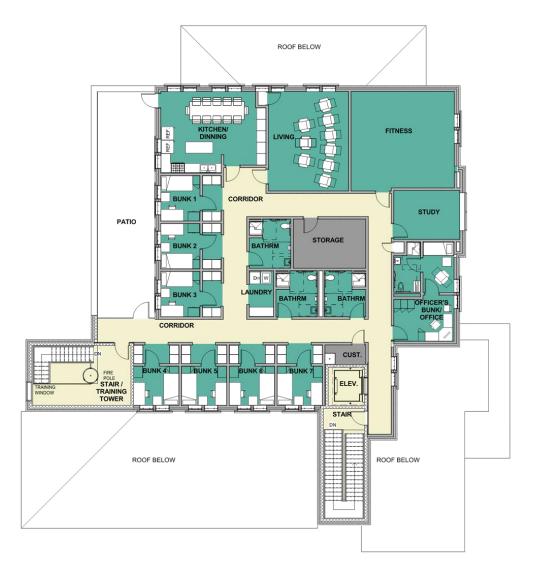
MAIN AREA 7,695 SF



UPPER LEVEL FLOOR PLAN



















SIZE COMPARISON-COMBINED PUBLIC SAFETY FACILITIES KAESTLE BOOS

(Police & Fire in Same Building)

A ASSOCIATES HEIST ARCHITECTS

FACILITY (Year Bid)	AREA (SF)	SERVICE AREA POPULATION	SF/Person
NEEDHAM (Existing HQ)	31,145	30,457	1.02
88-99 Chestnut St.			
NATICK (1994)	54,000	34,230	1.58
MANSFIELD (2016)	39,621	23,378	1.70
NORWOOD (2002)	52,399	30,502	1.72
NEEDHAM (2019)	56,408	30,457	1.85
HOLDEN (2009)	36,450	17,340	2.10
SHARON (2015)	42,460	17,612	2.41
FOXBOROUGH (2005)	41,400	16,865	2.45
MEDFIELD (2015)	41,022	12,660	3.24
PLAINVILLE (2017)	43,644	8,736	4.99
NANTUCKET (2008)	64,540	10,399 (50,000)*	6.20

^{* =} SUMMER POPULATION



SIZE COMPARISON-ADJACENT TOWNS

KAESTLE BOOS associates, inc



(Total Buildings per Town)

TOWN	POP.	No. of STATIONS	TOTAL AREA	AVG. AGE STATIONS	SF/Person
NEEDHAM (Existing)	30,457	2	41,243	81 Years	1.35
WELLESLEY	27,982	3	50,873	39 Years	1.82
DEDHAM	24,729	3	45,548	71 Years	1.84
NEWTON	85,146	7	185,233	19 Years	2.18
NEEDHAM	30,457	2	78,520	-2 Years	2.58
NATICK	32,786	5	86,019	33 Years	2.62
WESTWOOD	14,618	3	47,431	21 Years	3.24



RECENT PUBLIC SAFETY CONSTRUCTION BID/COSTS





FACILITY & TYPE	AREA (SF)	YEAR	COST
MEDFIELD COMBINED	41,022	2015	\$371/SF
WESTON POLICE	19,800	2015	\$455/SF
MILLIS POLICE	7,890	2015	\$460/SF
SHARON COMBINED	42,460	2015	\$463/SF
MANSFIELD COMBINED	39,621	2016	\$465/SF
WESTWOOD POLICE	20,748	2016	\$490/SF
RANDOLPH FIRE	8,500	2015	\$491/SF
PLAINVILLE COMBINED	41,655	2017	\$495/SF
ORLEANS POLICE	17,830	2016	\$515/SF
SCITUATE COMBINED	28,818	2016	\$527/SF
NEEDHAM FIRE STATION 2	22,112	2019	\$565/SF*
WESTWOOD FIRE	20,457	2015	\$572/SF
NEEDHAM COMBINED HQ	56,408	2019	\$590/SF*
NANTUCKET FIRE	22,340	2017	\$713/SF
	_ ,		<u> </u>

Note: SF numbers include Site Costs

^{*} Combined project: 78,520 SF, \$583/SF. Estimated costs include escalation



TOTAL PROJECT COST FOR COMBINED HEADQUARTERS





Public Safety Headquarters

Construction Cost

Total Construction Cost	\$33,268,000
Escalation (to 1st Quarter)	\$ 2,933,000
General Contractor Mark-up	\$ 4,703,000
Building Construction Cost	\$23,846,000
Site Construction Cost	\$ 1,786,000

Temporary Quarters for Police \$ 1,000,000

Owner's Indirect Costs

Professional Services	\$ 3,210,000
r roressional services	7 3,210,000
Project Management	\$ 832,000
r roject Management	• • • • • • • • • • • • • • • • • • • •
Loose Equipment Cost	\$ 1,834,000
Loose Equipment Cost	7 1,004,000
Communications Cost	\$ 1,325,000
Communications Cost	7 1,323,000
Owner's Contingency	\$ 4,147,000
Owner 3 contingency	7 7,177,000
Total Indirect Costs	\$11,348,000
iotai iiiaiicet costs	311.370.000

Total HQ Project Cost \$45,616,000



TOTAL PROJECT COST FOR FIRE STATION #2





Fire Station #2

Construction Cost	
Site Construction Cost	\$ 615,000
Building Construction Cost	\$10,266,000
General Contractor Mark-up	\$ 1,683,000
Escalation (to 1st Quarter)	\$ 1,215,000
Total Construction Cost	\$13,779,000
Temporary Quarters for Police	\$ 843,500
Owner's Indirect Costs	
Professional Services	\$ 1,533,000
Project Management	\$ 344,000
Loose Equipment Cost	\$ 512,000
Communications Cost	\$ 100,000
Owner's Contingency	\$ 1,711,000
Total Indirect Costs	\$ 4,200,000

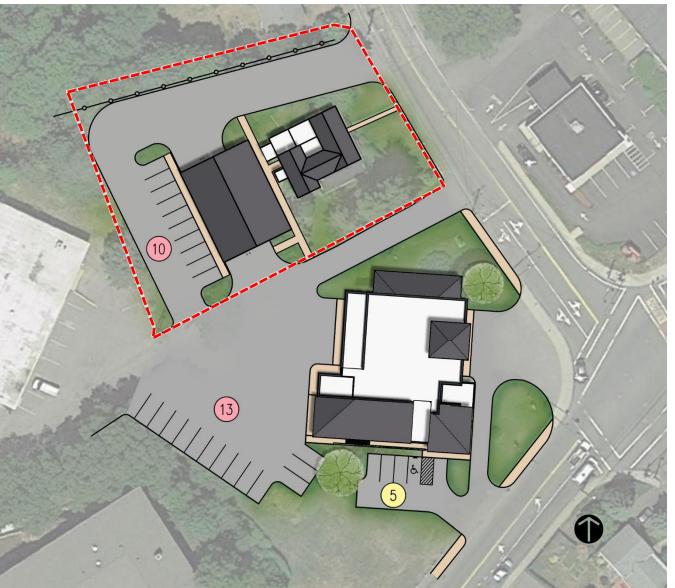
Total HQ Project Cost \$18,822,500



ALTERNATE: STATION #2 WITH TEMPORARY FACILITY

KAESTLE BOOS associates, inc







RECENT PUBLIC SAFETY CONSTRUCTION BID/COSTS



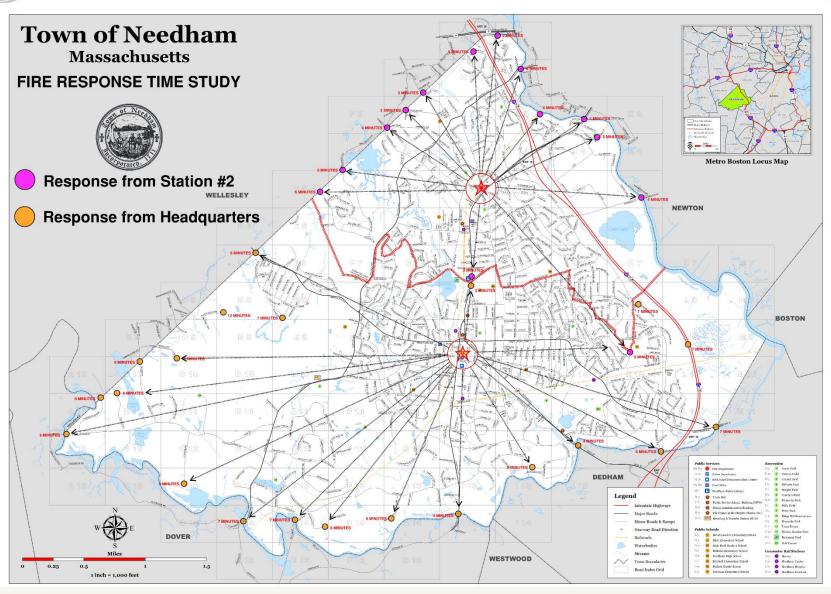


QUESTIONS & ANSWERS

NEEDHAM RESPONSE TIME MAP









AVERY STREET POTENTIAL TEMP FACILITY LOCATION

KAESTLE BOOS associates, inc

