

teris of this my last will, and I have hereunto set my hand July 21: 1655:

witnes

Humpri Bradstreet Mathew Boyes John harris

PART OF SALEM IN \$700. NO. 11.

BY SIDNEY PERLEY.

The map on page 69 represents that part of Salem which is bounded by Flint, Essex and Boston streets and the North river, the latter being now filled except that part which is the present canal. It is based on actual surveys and title deeds, and is drawn on a scale of two hundred feet to an inch. It shows the location of all houses that were standing in 1700. The braces marked "a" show where Federal street now runs, the brace marked "b" where Fowler street begins and that marked "c" where North Pine street begins.

North river has been known as such since the very first settlement by the

Europeans.

Flint street was one of the original lanes leading down to the water. It was called a highway in 1668; lane yt leads to ye north river, 1679; Dean's lane, 1766; Dean street, 1795; and Flint street, 1894.

Essex street has been the principal thoroughfare of the town from the beginning of its settlement. It was called a street in 1659; ye broad street that goes to the bridge or causeway at the western main street, 1696; ye great street leading through ye town, 1713; and Essex street, 1796.

Boston street was laid out in 1642, after the first bridge was finished, across private lands belonging to Robert Moulton and John Alderman, and cutting across their lots diagonally. It was called a street in 1663; highway to the causeway, 1670; ye bridge street so called towards Trask's mills, 1680; the street going towards the mill bridge, 1681; the main street, 1696; ye bridge street, 1698; street or highway

leading to ye town bridge 1702; ye

country road, 1737; way leading into town 1752; street leading from Buffum's corner to Town bridge, 1779; Town bridge street, 1789; great road, 1789; and Boston street, 1799.

There was a highway along the river a short distance from the bridge in 1679, being probably the right of way reserved along the water front in the original laying out of the town, which in most places was never used, and became forgotten.

Federal street was laid out across private land about 1769. It was called the new street in 1770; new street laid out near the North river, 1779; a town way, 1782; and Federal street, 1794.

Fowler street was laid out by the owner of the land through the middle of the Fowler lot, presumably to open up the rear land for building lots, about 1820. was called a town way about 1824; a way, 1848; and Fowler street, 1868.

North Pine street was laid out about 1850; and was called by that name in

1852, being then a private way.

This section was called the town's end, or western end of the town. At the bridge, the village, or Salem village began.

The Fortification. Late in 1675, the danger from the Indians was so imminent, because of the uprising of King Philip and others, that the general court ordered the towns to fortify themselves by building a stockade or stone wall eight feet in height. Salem was protected by a stone The northwestern wall and palisades. end of ye town, 1679; highway, 1689; ye end of it is indicated on the map. It ran from North river to the mill pond, the upper end of South river. The rivers were half a mile apart, and this was the most feasible place to build such a defence. There was no house at that time beyond this line within half a mile, and the rising ground with a slope southerly toward the main land made it an ideal spot for the purpose. On all other sides the town was protected by water. The fortification terminated at its southeasterly end, at the pointed ledge, a short distance easterly of the south end of Phelps street. On the ledges, for about

Exhibit 2 Page 10/5

two hundred feet, the wall was erected, but the rest of the distance was covered by a stockade or palisados, probably from the ledge to the water's edge southeasterly, and northwesterly to North river. Probably the only open places were where it crossed the roads now called Broad and Boston streets. The stockade crossed what is now Broad street about midway between Flint and Jackson streets, the junction of Warren and Essex streets, passing along the brow of the hill at the elbow in May street and so on as shown on the map.

Felt says, that March 28, 1676, "our military committee" reported that they had placed "several garrisons in and about our farms and outhouses:" and that "the town have begun a substantial wall which forthwith shall be carried from river to river." So the plan seems to have been to build a wall the entire length of the line; but probably, as the palisade was more easily, cheaply and quickly built than the stone wall, it was resorted to. Expedition was the great desideratum at that time, when it was expected that the war whoop might be heard in the stillness of any midnight in the peaceful streets of Salem, and massacre and captivity go hand in hand with titles and deeds referred to pertain to the the destruction of the homes of the inhabitants. The terrible acts of the savages at Rowley, Newbury, Haverhill, Dover and many places at the eastward, even for years later, indicate the danger that lurked around Salem at this time.

Seven years after the war was over, in 1683, Felt says, the "pallasados near the bridge" were given to the poor for firewood.

In 1693, he further says our people had been at much charge for the maintenance of block-houses and other fortifications. The mortgage given by Benjamin Pickering, in 1702,* shows that the ortification which has just been described was slightly westward or beyond the house on Broad street that then belonged to

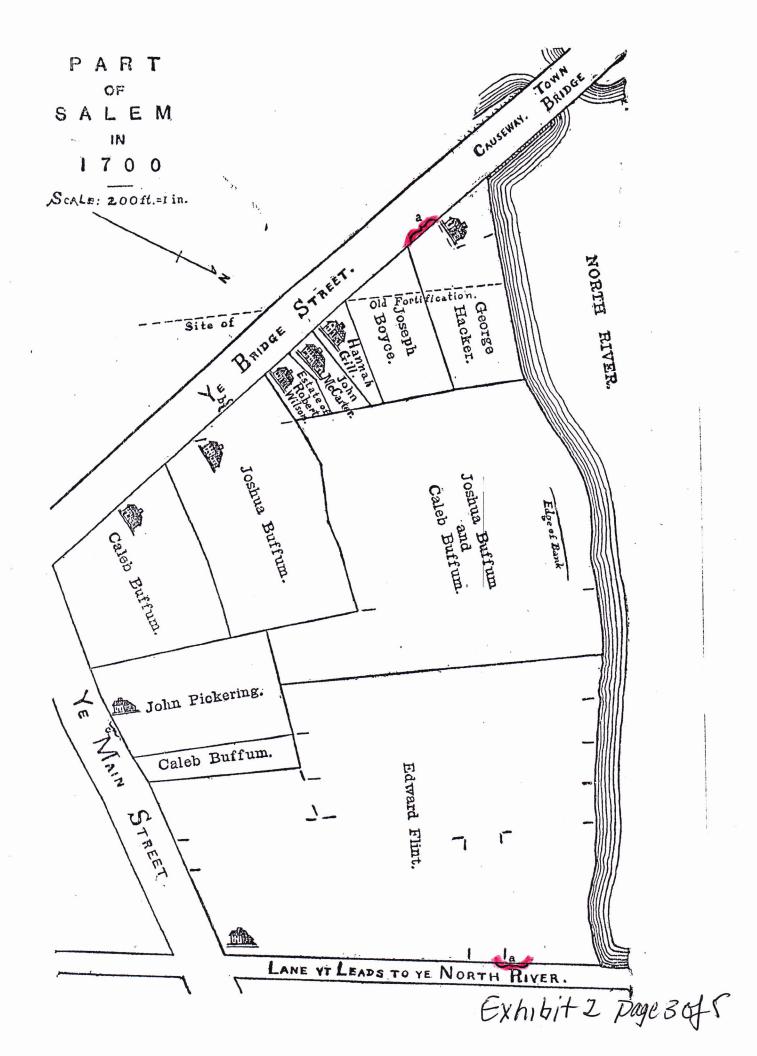
Richard Adams and has been described in The Antiquarian, volume v., pages 33-36. This house was built in 1645, and when it was burned in 1865, its walls were found to be lined with bricks and the second story overhung the first. Perhaps this was a block-house in the time of King Philip's war, or in the later Indian wars, the house having been prepared for its use in this way by the town at that time. Sept. 21, 1702, Felt says, further, the block-houses are to be supplied with such articles as are necessary for defence. In 1706, he writes: "A report of Salem says, 'We are at considerable charge for building a line of about two hundred feet long, and two blockhouses, in which are several guns, and we keep a constant watch there every night, being more than a mile from the fort, nigh the end of the town, we design to set up one hundred and fifty to two hundred feet of stockades near the two blockhouses.' " It seems by this that a blockhouse with guns was built in this neighborhood, "nigh the end of the town," in 1706. Block house square on Fort avenue shows the site of the block house at the eastern part of the town.

In the sketches that follow, after 1700, houses and land under and adjoining, and not always to the whole lot, the design being, after that date, to give the history of the houses then standing principally.

The lots of George Hacker, Joseph Boyce, Hannah Gill, John McCarter, Estate of Robert Wilson and the triangular part of the lot of Joshua Buffum which is marked by dashes was part of a large lot, through which Boston street was laid out in 1642, granted to John Alderman in the first settlement of the town. He apparently conveyed the southwestern end of the lot somètime before his decease to Giles Corey, who lived in a small house, which stood on what is now the western corner of Federal and Boston streets, until 1659, when he removed to a site near the West Peabody Junction

Page 2015

^{*}Essex Registry of Deeds, book 16, leaf 84.



lroad station, from whence he went to awful death in 1692. Mr. Alderman ed possessed of the remainder of the in 1657, his residence being the house own on the map on the Hannah Gill In his will he had devised the lot d house to Ezra Clapp, son of Edward app of Dorchester, yeoman, and Naaniel Clapp, son of Nicholas Clapp, of orchester. They sold the remainder of e lot and the house to Mr. Corey imediately, and he took possession at that ne, but no deed of conveyance passed tween them until July 24, 1663, when ey delivered a deed to him.*

Mr. Corey had sold, 14: 8: 1659, his 'n house and lot and the house and lot had bought of the Clapps, to John orton of Salem, carpenter.† The house which Giles Corey lived was gone before

The Robert Wilson lot was conveyed him, probably by Mr. Norton, before oril 8, 1670.

That part of the Alderman lot that is own on the map as a part of the lot of shua Buffum was probably conveyed to r. Buffum quite early, but by which one the owners of the Alderman lot the

iter has not learned.

Mr. Norton, for eighty pounds, coneyed to Jeremiah Meacham of Salem, eaver, that part of the lot lying west of obert Wilson's, being one and one-half eres of land, dwelling house and orchard, ear ye new bridge or causeway at ye estern end of the town, April 8, 1670.‡ ir. Meacham conveyed the eastern part the lot, sixteen square rods, to his son--law, John McCarter of Salem, dyer, efore Sept. 20, 1678, when the latter ortgaged "my now dwelling house," hich he had built thereon. § Mr. McCarer reconveyed the estate to Mr. Meacham ine 9, 1679, for one hundred pounds. Ir. Meacham died in possession of the

estate, and in 1696 it was divided among his children as shown on the map.

George Hacker House. Mr. Meacham conveyed to his son-in-law George Hacker and his wife fourteen rods at the southwestern corner of his estate, being that part included within the dashes, on which Mr. Hacker had already built a house, and described in the deed as "at the town's end near the bridge or causeway without the fortification," March 4, 1679-80.* The house of Giles Corey had occupied the same or nearly the same site. Mr. Hacker probably built his house after his marriage, about the year 1678, and lived in it in 1679 and 1680. Its front was toward the street. In the division of the estate of Mr. Meacham, in 1696, the remainder of the George Hacker lot was assigned to him and his wife Bethiah, daughter of the deceased.

Mr. Hacker died in 1702, intestate, leaving several children and his wife Bethiah. The inventory of his estate mentions an old house and about three-fourths of an acre of land, valued at fifty pounds. The "old dwelling house" and lot were sold by the widow of Mr. Hacker, who was then widow Bethiah Darling, of Salem, for fifty pounds, to her son Isaac Hacker of Salem, cordwainer, June 30, 1731.† Mr. Hacker died in 1753; and in the division of his real estate the house and lot were assigned to his only son Jeremiah Hacker of Salem, shoreman, in 1754. Joseph Bassett of Lynn, yeoman, and his wife Eunice, daughter of the deceased, released their interest in the estate, including the part assigned as dower, to her brother Jeremiah Hacker Aug. 22, 1754.‡ Mr. Hacker probably took down the old house a few years later, building upon the same site the later Hacker dwelling house, which was removed some ten years ago.

Joseph Boyce Lot. In the division of the real estate of the late Jeremiah Meacham, in 1696, this lot was assigned

^{*}Essex Registry of Deeds, book 4, leaf 108. †Essex Registry of Deeds, book 1, leaf 75. ‡Essex Registry of Deeds, book 3, leaf 79. §Essex Registry of Deeds, book 5, leaf 6. Essex Registry of Deeds, book 5, leaf 38.

^{*}Essex Registry of Deeds, book 5, leaf 74, Essex Registry of Deeds, book 55, leaf 266. ‡Essex Registry of Deeds, book 98, leaf 262.

to his son-in-law Joseph Boyce; and the title remained in him until 1704.

Hannah Gill House. In the division of the real estate of Jeremiah Meacham, in 1696, this small house and lot were assigned to widow Hannah Gill, daughter of the deceased. This was the old house, as it was then called, that Mr. Meacham lived and died in, and in which, earlier, John Alderman resided. Mrs. Gill married, secondly, John Priest of Salem in 1700, and conveyed the house and lot to Caleb Buffum of Salem, yeoman, June 2, 1707,* and the grantee's son, Caleb Buffum, lived in the house until his death in or before 1730. Mr. Buffum, sr., died in January, 1730-1, having in his will devised the house and lot to his minor grandson Caleb (son of son Caleb) Buffum. Mary Buffum, widow of Caleb Buffum, son of the deceased, lived in the house at that time, and she was devised that privilege as long as she remained Caleb's widow. In case Caleb died under age or without issue, the will provided that the estate should go to his brother Joshua. Caleb Buffum, the devisee, removed to Newport, R. I., and died in 1744, probably without issue. The place came into the hands of his brother Joshua Buffum, probably by the provisions of the will. Joshua Buffum was a cordwainer, having lived in Berwick, Me., and, for one hundred and fifty pounds, he conveyed to his brother Samuel Buffum of Salem, glazier, subject to the liberty of his mother, widow Mary Buffum, to live in the house, the house and lot Sept. 15, 1747.† How many years the house stood after this time the writer is un-

John McCarter House. In the division of the real estate of Jeremiah Meacham, in 1696, this house and lot were assigned to his son Capt. Isaac Meacham and John McCarter, husband of Rebecca, daughter of the deceased. The house had been built by Mr. McCarter, as stated

on a previous page, probably about 1675, the time of his marriage, and it was occupied in 1695 and 1696 by Capt. Daniel King. The house and lot were valued in 1696 at eighty-one pounds. Captain Meacham was a fuller, living in Enfield, Mass., and, for forty-four pounds, released his interest in the house and lot to Mr. McCarter, who was a dyer and then lived in Warwick, R. I., June 21, 1698.* Mr. McCarter came to Salem to live the next year. With his wife Rebecca, for forty-six pounds, he conveyed the estate to William Browne, esq., of Salem, Nov. 30, 1703.† Hon. William Browne died in 1716, having devised this estate to his sons Samuel and John Browne, esquires. John Browne released his halfinterest in the property, for twenty pounds, to his brother Samuel Jan. 22, 1717.‡ Samuel Browne probably erected a new house, in place of the old, as when he conveyed the lot with a house upon it, March 7, 1725-6 to Benjamin Houlton of Salem, \$ the consideration of the transfer was one hundred and eighty pounds; and, four years later, Feb. 25, 1730, when Mr. Houlton conveyed the estate to Ezekiel Fowler and Abraham Fowler, both of Salem, tanners, | the consideration was two hundred and fifty pounds.

Estate of Robert Wilson House. Robert Wilson probably bought this lot of land of John Norton before 1670, and built a house thereon. He married Deborah, daughter of Robert Buffum 6: 12 mo.: 1658, and it is possible he bought the land and built at about the time of his marriage. He was a soldier in the war against King Philip, and was killed in the terrible slaughter at Deerfield, Sept. 18, 1675. The inventory of his estate mentions a dwelling house and land on which it stands in the town, valued at sixty pounds. The administrator of

^{*}Essex Registry of Deeds, book 20, leaf 26. †Essex Registry of Deeds, book 90, leaf 57.

^{*}Essex Registry of Deeds, book 13, leaf 198. †Essex Registry of Deeds, book 16, leaf 72. ‡Essex Registry of Deeds, book 33, leaf 72. §Essex Registry of Deeds, book 47, leaf 259. ||Essex Registry of Deeds, book 64, leaf 98.

Salem in the Eighteenth Century'
by James Duncan Phillips @ 1969
Town Life in the Twenties and Thirties 119
P.119

Street and some near the foot of Turner Street, the largest of which belonged to Colonel John Turner.

Of the three great wharves of later days, namely, Derby Wharf, Phillips Wharf, and Union Wharf, the latter was about to be started. The idea of connecting Jeggle's Island with the shore, which really made Union Wharf, seems to have been thought of at about this time. The island was granted to Thomas Gardner in 1684 and descended to his daughter, Mary, who married Captain William Bowditch, and he deeded it in 1726 to the proprietors of the Union Wharf, of whom he was one." It is interesting to notice that three years later, two aged gentlemen swore that they had helped take a vessel of two hundred tons through this channel north of the island, so the blocking of it by connection with the shore indicated that the channel on the other side was better yet.2 This seems to have been the beginning of this great wharf, which was the most important in the city for the next fifty years.

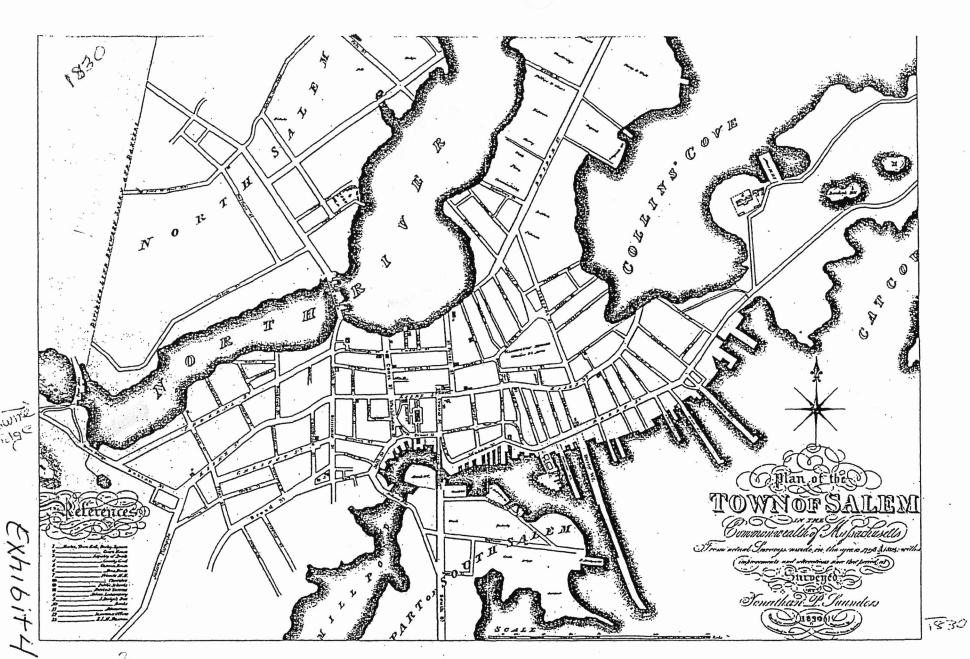
There were important wharves on the North River near the present site of North Bridge, which was not built till 1744. The river there was deep and navigable, and even the shipyards near Boston Street had no trouble in getting their ships to sea.³ A little later than this, the sloping beach back of Federal Street was covered, all the way from North Street to Fint Street, with fish flakes which belonged to Benjamin Pickman, and it is reasonable to suppose that fishermen were already using this ground in a smaller way.

In 1721, Winter Island, which had always been a place for drying fish, but seems to have been part of the common

Exhibit3

¹ Essex Antiquarian, x, 166; Essex Institute, Salem Miscellaneous MSS., 1. Deposition, Feb. 23, 1729/30, Stephen Daniels and Samuel Foot, E.I.H.C., 111, 289.

³ Even as late as 1801, Pierce and Waite landed the cargo of the ship Friendship from St. Petersburg on their wharf on North River, just back of the Nichols house, where Mr. Pierce lived. E.I.H.C., xxxi, 122.



Salem in 1820 showing wharfs extending along the South River into the center of the town. Courtesy of the Peabody Essex Museum.

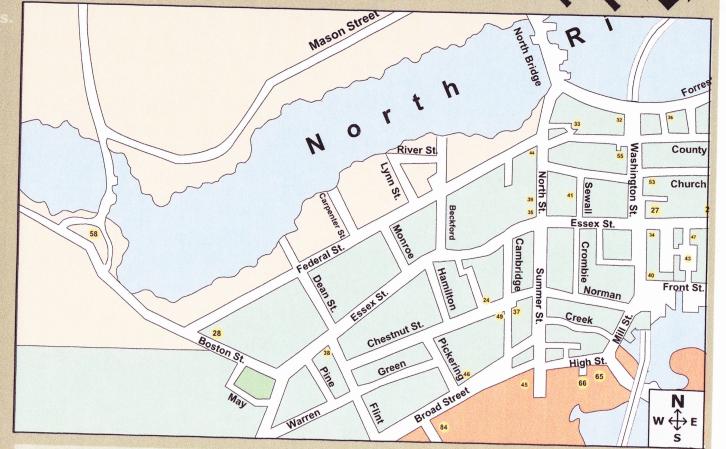
Main Menu

Downtown & Chestnut/Federal Sts

- 24. Bott-Fabens House
- 25. Bowker (Manning) Block
- 26. Central Building Old Custom House
- 27. City Hall
- 28. Cook-Oliver House
- 29. Cromble Street Church
- 30. Eastern Railroad Depot
- 31. Essex Bank Building
- 32. Essex County Courthouse
- 33. First Baptist Church
- 34. First Church
- 35. First North Church
- 36. First Universalist Meetinghous
- 37. Hamilton Ha!
- 38. House of Charles Osgood
- 39. Jonathan Corwin House
- 40. Lawrence Place
- 41. Methodist Church
- 42. Old Custom House
- 43. Old Town Hal
- 44. Peirce-Nichols House
- 46. Pickering House
- 47. Pickman-Derby Block
- 8. Pickman and Henfield Bldg
- 49. Robinson-Little House
- 52. Salem Jail & Sheriff's Office
- 53. Salem Lyceum
- 54. South Church
- 55. Tabernacle Church

Salem Map 1842



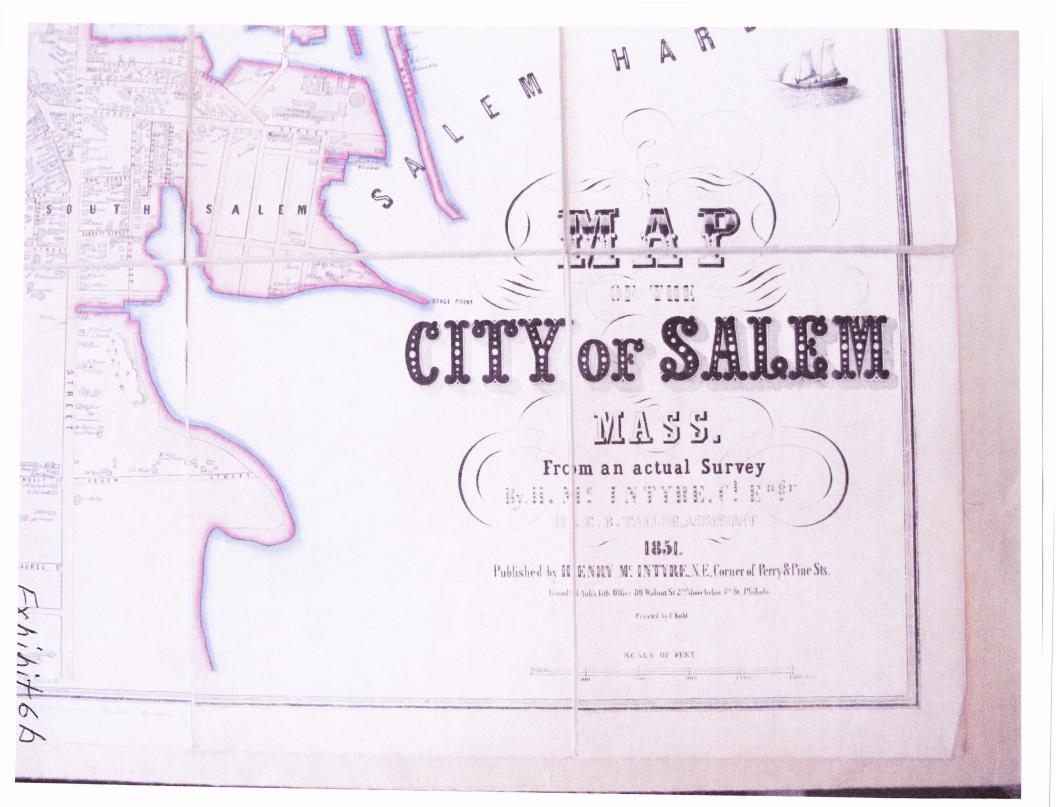


Downtown and Chestnut/Federal Streets: Introduction

It is surprising how much of Salem resembles the city that Hawthorne knew. This area during Hawthorne's time, as today, was the location of Salem's civic buildings, commercial buildings, and railroad depot (although the railroad depot is not in the same place as it was in Hawthorne's time). Also, during Hawthorne's time, as today, Chestnut and Federal

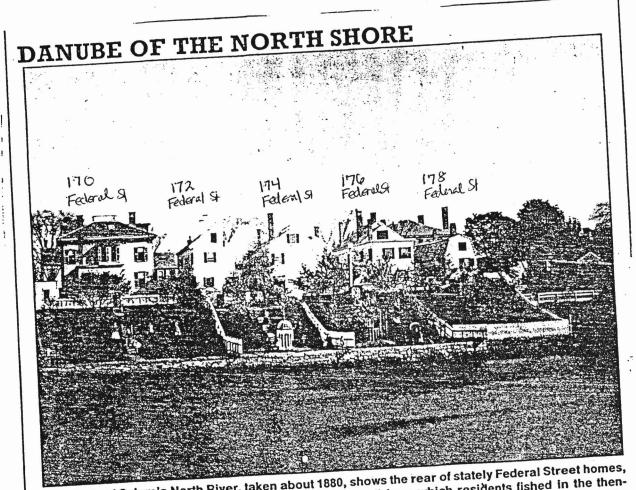
Related Images





Exhibitec CITY OF SALEM MASS.
From an actual Survey

Before the Pits in Leather Manufacturing



This photo of Salem's North River, taken about 1880, shows the rear of stately Federal Street homes, with their terraced lawns and gardens, and the sea wall from which residents fished in the thenclean water. No one would refer to the North River as the Danube today. The photo was submitted by John Dombrowski of 60 Boston St., Salem.

Sylvania Office

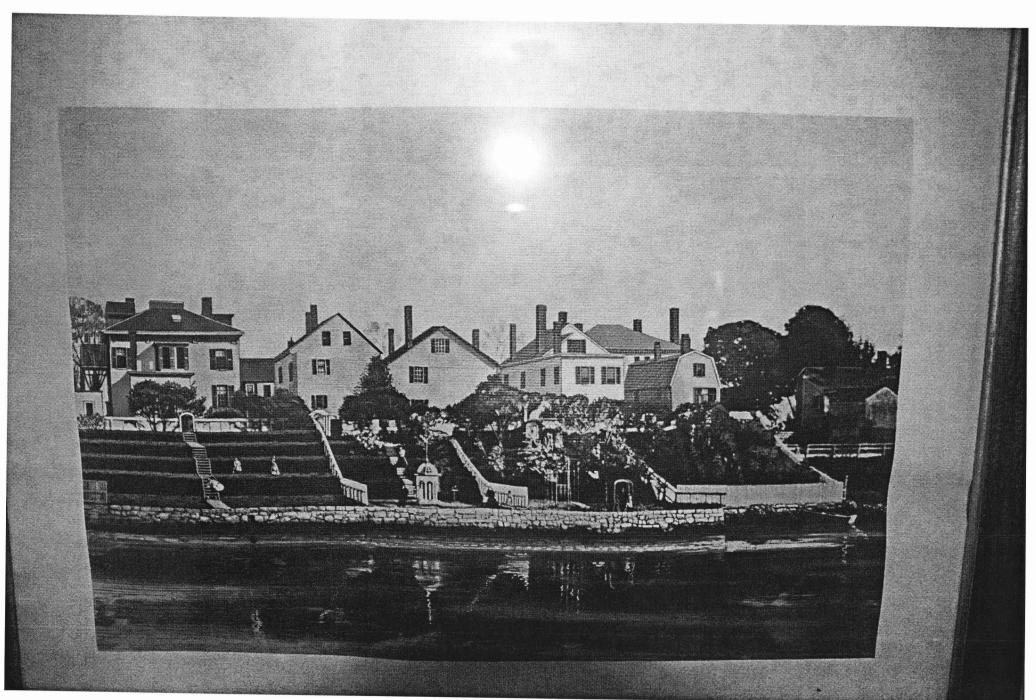
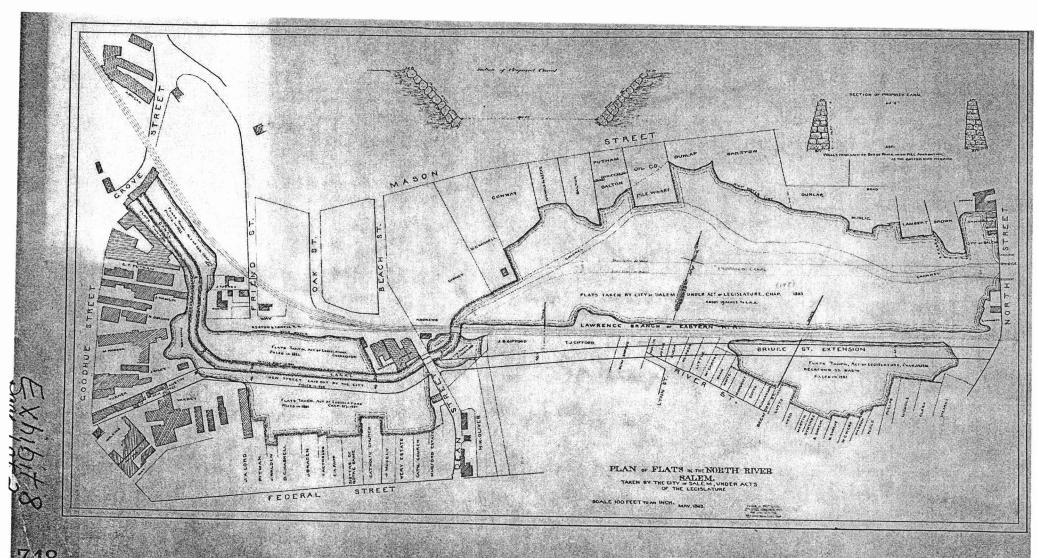


Exhibit 76

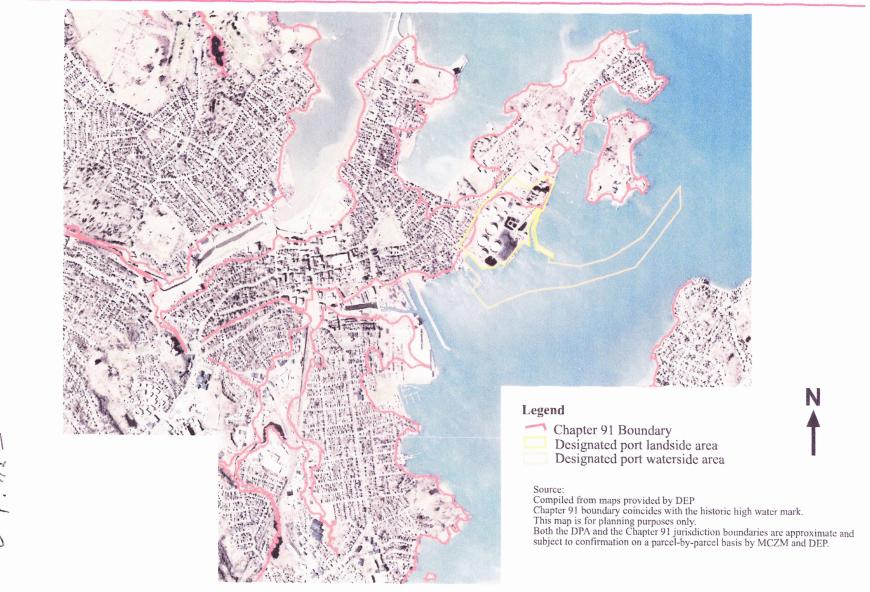


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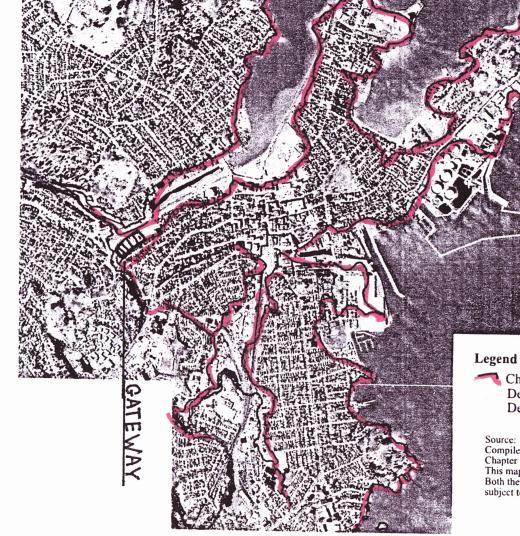
No. 748. June 7. 1883. The Hours for Liveling a Camel in Both River Salem. men approved by the Board.

Meet To Michellayon, Chainsan

Figure 11: DESIGNATED PORT AREA AND CHAPTER 91 DESIGNATION



SALEM HARBOR PLAN



Chapter 91 Boundary Dessignated port landside area Designated port waterside area

Source:
Compiled from maps provided by DEP
Chapter 91 boundary coincides with the historic high water mark
This map is for planning purposes only.
Both the DPA and the Chapter 91 jurisdiction boundaries are approximate and subject to confirmation on a parcel-by-parcel basis by MCZM and DEP.

SALEM HARBOR PLAN

I, Clement E. Connelly,

ANTOCKAPOR AND STATE OF THE ESTATE OF THE ESTATE OF THE ESTATE OF THE STEE OF THE STATE OF THE S the late John J. Connelly

by power conferred by the Probate Court for the County of Essex in said Commonwealth of Massachusetts

and every other power, for Thirty-five hundred (\$3500) Dollars paid, grant to John J. Connelly Jr. and Eleanor J. Connelly, husband and twife, and Mary J. Connelly, as joint temants and not as temants in Dollars common, all of Salem in said Essex County, A certain parcel of land with the building thereon, in said Salem bounded and described as follows, viz: Beginning at the southeasterly bound on Federal Street at land of the Wesley Methodist Church, thence running westerly by Federal Street about 39.75 feet to land of Walden, thence running northerly by land of Walden about 198.3 feet to the old sea wall at land of Elizabeth Newhall and others, thence running easterly by said land last named about 46 feet to land of the Wesley Methodist Church, thence running southerly about 163.98 feet, easterly about 4.67 feet, southerly 17 feet, westerly about 4.67 feet, thence southerly 16 feet to Federal Street and the point begun at, the last five courses being by land of said Wesley Methodist Church, being the same conveyed by deed to John J. Connelly, March 18,1907 from Elizabeth D. Newhall et al and recorded with Essex South District Deeds Book 1864, Page 524.

Witnesshand	and seal this.	2126	day of	november	19.5.5
Mass. Excise Stamps	4.30	affixed —	Elemen	1 6 for	moll.
and cancelled on back	of this ins	+		John & la	
			HP/MU1	Driver J. Kon	nively
		maram, my			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

The Commonwealth of Massachusetts

november 21, Lossy

Then personally appeared the above named blument E. farmily achieve Site. and acknowledged the foregoing instrument to be free act and deed, before me

U. S. Docum. Stamps \$ 3.85 affixed Concl. 1. 3.15 and cancelled on back of this instrument

My commission expires Afril 1 Essex ss. Recorded Nov. 21, 1955. 58 m. past 2 P. M. #189

peared the above names Sterry E. Smith and acknowledge. ed the foregoing instrument to be his free act and deed before me, Undrew & its guetree of the Prage Enemo acid apr. 8,1907. 50m past 10 am Backery Willard J. Hale. Rep.

Dlanual W.R etur. et al

throw all men by these presents that we ligabeth D. Newholl, Sucy of Richardson Jennie W. Grant of Bornelly and & Erank Boroldson all of Balan, Country of Essex and Commonwealth of Massachusetts in consideration of one dollar and other considerations paid by John J. bonnelly of said & alem, the receipt where of is hereby acknow. ledged, do hereby give, grant, bargain, sell, and convey unto the said John of boundly "hat piece of land with the buildings thereon, numbered one hundred and eventy four Declaral Street in said Salam, bounded as follows: Beginring at the 8 outheasterly bound thereof or " ederal Street at law of the Wesley Westerdist Episcopal Church, thouse running Westerly by & ederal Street about thirtynine and executy fine one hundred back to land of Wolden House running or otherly by said land of Walden about one hundred and minety eight and three tells feet to the "old rea wall" at other land of grantors: there running Gasterly by said other land of grantois about forty six feet to said land of the Wesley Methodist topiscopal Ghurch: Source sented popula one bundred and jufty break primer and ninety eight one hundredtho feet: theuse & asterly about four and eight seven one hundredthe feet. James Southerly seventien feet: there Westerly about four and airly somer one hundredtha feet: theme I outherly sixteen feet to Ederal Street and the point begun at. all of five last named courses being by land of said War ley Methodiat Epiacopal Church. Laing land formerly owned by Daniel & & askell and passing to said grantors with Ina land, under the will of said boaskall & have and to hold the granted promise at blood of bus and appurtaness thereto belonging to the said Gorn of boundly and his hairs and assigns to their own use and behoof forever. and we do hereby, for ourselves and our heirs. executions and administrations consument with the said grantes and his heins and arriagno that we are lawfully saized in fee simple of the granted premises, that they are free from all inumbrances, that we have good night to cell and coming

Exhibit.10

the same as aforesaid and that we will and our heirs, evewhose, and administrators shall warrant and defend the same to the said grantee and his heirs and assigns forever against the lawful claims and demands of all persons Und for the consideration aforesaid - Joseph W. Newholl, husband of Elizabeth D. Nawholl, Charles W. Richardson Rusbaud of Sung to Richardson and George W. Want husband of Jennie U. Grant do hereby release unto the said grantes and his hairs and assigns all right to an estate by curtary atutate by attention, carinant between att is accurate and all other rights therein . In witness whereif we the said gantors Elizabeth B. Newholl + Joseph W. Newholl, dury To Richardson and Charles W. Richardson, Journe W. Shout and beorge W. Brank and g. & nauk Donaldson, beingummarned. hereunto est our hands and reals this eighteenth day of March in the year one thousand nine hundred and seven. - ab dus, baloss, beyord

lue ad in presence of -Allesuroumod of Marsachusetts. Carex. .. april 6. 1907. Thou personally appeared the above named !

Chinabeth B. Newhall goseph W. Newhall lass ducy Ho. Richardson seal Chas. W. Richardson Real Januie W. Grant lass Teo. W. Varant عمعا roabiland show o. p Sace

go rank Donaldson and acknowledged the foregoing instrumout tabe his free act and deed,

before me , Robert Mr. Mahoney Justice of the Peace. lació ap. 81907. 40m past 110 m as starly Theland Stale. (Leg-

Throw all men by these present shot I golin & & Comelly I bonuelly of Salem, Essex County, Massachusetts, in consideration of Four Thousand Dollars paid by the Solam Solam 5, San Ok Our bouts & airus Bauk, a corporation duly established by law and located at I alam in the Country of Essex and commonwoods of massachusts the religions borely acknowledged, do hereby give, grant, bargain, rell and convey unto the said Salon Five Couts Savings Bank contain parcel of land with all brildings thereon in said falan bounded beginning at the southeasterly bound and ederal Street at land of the Wesley methodist Expir Espol Church, there running westerly by I aderal Street bout thirty nine and seventy five one hundredths (39.75) feet to land of Walden, there running northerly by land

Exhibit 10 Page Bof 3

Discharge

B.2895 6.476

Exhibit 11a From Bridge Street





Exhibit 11a

Exhibit 11b







Exhibit 116

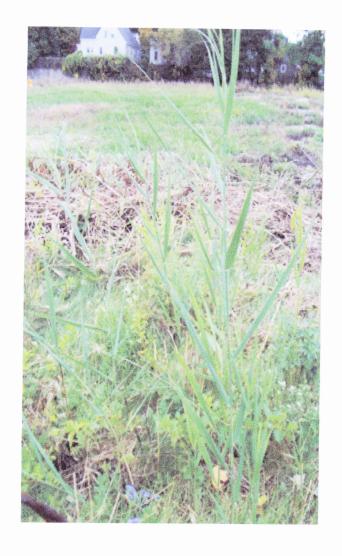




Exhibit 11c

EXHIBIT

MM DD 09258	YYYY 2011					
B Location★ Check this box to In Module In Section B	dicate that the address for this incident is provided on the Wildland Fire Census Tract 2047 - 00					
X Street address Intersection X In front of Rear of Adjacent to Directions Apt./Suite/Room City	lem					
C Incident Type *	E1 Date & Times Midnight is 0000 E2 Shift & Alarms					
363 Swift water rescue	Check boxes if Month Day Year Hr Min Sec Local Option					
Incident Type Aid Given or Received*	Date. Alarm + 10 04 2011 07:49:00 Shift or Alarms District					
D	ARRIVAL required, unless canceled or did not arrive					
1 Mutual aid received 2 Automatic aid recv. 3 Mutual aid given 4 Automatic aid given 5 Other aid given N X None Their FDID Their State Their FDID Their State Their FDID Their State	X Arrival * 10 04 2011 07:56:00 E3 CONTROLLED Optional, Except for wildland fires Special Studies LAST UNIT CLEARED, required except for wildland fires Last Unit X Cleared 10 04 2011 08:04:00 Special Study Value					
F Actions Taken *	G1 Resources * G2 Estimated Dollar Losses & Values					
Primary Action Taken (1) Additional Action Taken (2)	Check this box and skip this section if an Apparatus or Personnel form is used. Apparatus Personnel Suppression Contents \$					
	Other 0001 Property \$, 000 , 000					
Additional Action Taken (3)	Check box if resource counts include aid received resources. Contents \$,000,000					
Completed Modules Fire-2	None None Not whited Not					
J Property Use* Structures	341 Clinic, clinic type infirmary 539 Household goods, sales, repairs 342 Doctor/dentist office 579 Motor vehicle/boat sales/repair					
131 Church, place of worship 161 Restaurant or cafeteria 162 Bar/Tavern or nightclub 213 Elementary school or kindergarten 215 High school or junior high 241 College, adult education 311 Care facility for the aged 331 Hospital	361 Prison or jail, not juvenile 571 Gas or service station 419 1-or 2-family dwelling 599 Business office 429 Multi-family dwelling 615 Electric generating plant					
Outside 124 Playground or park 655 Crops or orchard 669 Forest (timberland) 807 Outdoor storage area 919 Dump or sanitary landfill 931 Open land or field	936 Vacant lot 938 Graded/care for plot of land 946 Lake, river, stream 951 Railroad right of way 960 Other street 961 Highway/divided highway 962 Residential street/driveway 981 Construction site 984 Industrial plant yard 984 Other a Property Use code only if you have NOT checked a Property Use box: Property Use 963 Street or road in commercial NFIRS-1 Revision 03/11/99					

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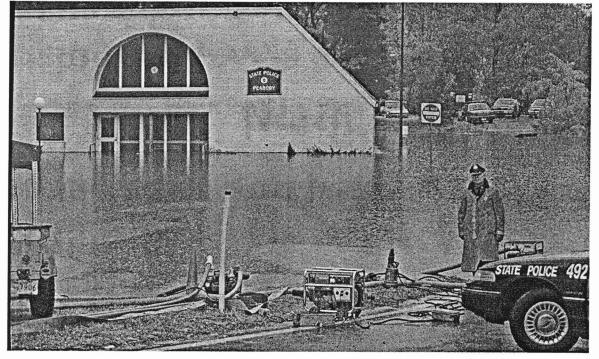
The Boston Globe

North

Planning forum focuses on rising sea levels

Recent deluge spurs need for more data collection

By Justin A. Rice GLOBE CORRESPONDENT OCTOBER 16, 2011



TOM LANDERS/GLOBE STAFF

PEABODY, 1996: Trooper James Galvin stands next to barracks under several feet of water.

The organizers of a new regional effort to combat rising sea levels didn't launch their initiative in response to the widespread flooding that hit the North region on Oct. 4, but the timing doesn't hurt their cause.

"The flooding of Peabody Square, a train line underwater in Swampscott, both those are member towns," Sam Cleaves, senior regional planner for the

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Metropolitan Area Planning Council, said after conducting an Oct. 11 workshop at the Peabody Institute Library in Danvers on the rising sea levels in area communities.

"National disasters and climate preparedness are more on people's minds since 2005 and [Hurricane] Katrina. We're not playing on any specific disaster, but I think people are paying more attention to climate change after a string of big events - the snowstorms last winter and the flooding two weeks ago. They start to add up and people start to think about it."

While studies have shown that rising sea levels lead to land loss, more flooding, and saltwater invading bodies of fresh water, Cleaves said there isn't necessarily a direct correlation between rising sea levels and the type of rainstorm and flooding the region saw on Oct. 4.

But one member of the workshop noted that the severe rain was coupled with high tides, an event that is likely to occur more often in the future.

"One of the pretty well-documented effects of climate change is you get intense precipitation events," Cleaves said. "Sea-level rise sort of is a part of that, but when you get five inches of rain in three hours, it's sort of hard for anyone's local drains to keep up and you get flooding in low spots."

Julie Knisel, of the state Energy and Environmental Affairs Office of Coastal Zone Management, said sea levels have risen about a foot in the last 100 years.

"We could see double that rate in the next 50 to 100 years," she said.

Cosponsored by MAPC's North Shore Task Force, the Coastal Zone Management North Shore Conservation Commission Network, and the Great Marsh Coalition, the workshop was attended by about a dozen stakeholders from Rockport, Ipswich, Gloucester, and Amesbury.

One major topic in the workshop was how communities and individuals can help document and address sea-level change in their towns and cities.

Kathryn Glenn, the North Shore regional coordinator for Coastal Zone Management, said it is setting up a website at www.stormreporter.stormsmart.org

so residents can upload their own photos that document sea levels rising in their communities.

She said while the initiative is mostly for outreach purposes, if a series of photos is time-stamped and taken from the same spot, it could be used for documenting sea-level rise as well.

"Many people in planning already are thinking that way, and many of the people in the general public are not," she said. "And photos are a very graphic way of doing that. . . . Old photos and old postcards are really neat to have because a lot of times you can get a comparison."

Barbara Warren, executive director of Salem Sound Coastwatch, said many of the issues raised at the MAPC forum were addressed in a 2008 study her organization conducted with Tufts University students.

Three years later, she said, recommendations made in the report have not yet been acted upon.

"I'm glad we're having this conversation tonight," said Warren.

But later in the meeting, Warren questioned whether a regional effort is really viable.

"I was looking at the Salem Sound region; and Marblehead is very different from Salem," she said of the recommendations regarding climate change. "Everybody had a different picture of what it meant. I really don't see it happening unless the money is behind it."

The chairman of the Ipswich Conservation Commission, Dave Standley, was slightly more optimistic.

"We're engaging in a great experiment to see if that will work," he said in response to Warren's concerns. "Sort of like Lincoln's Gettysburg Address."

The workshop also focused on available and soon-to-be available data that can help cities and towns map future water levels, establish a better baseline of information to track coastal changes, and identify additional ways to adapt to

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climate change.

Those data include LIDAR (Light Detection and Ranging) coordinates collected by the US Geological Survey this spring. Cleaves said the data will allow the state to give towns and cities more accurate data on their flood zones.

He said it will also help conservationists lobby against building in low areas, and could result in zoning changes.

Those data will be available to the state as early as January, according to Knisel. She said it's unclear how long it will take for them to provide those data to cities and towns, and that they need to get a better sense from municipalities about what the best format is to present the data to them.

"We're hoping with the information coming out in January we'll be able to get [cities and towns] to look at their [flood-prone] facilities in more critical manor," she said.

Cleaves said it's crucial to make cash-strapped municipalities understand that it will be more cost-effective to deal with the rise in sea levels now than to kick the can down the road.

"We have to get cracking and at least have conversations about what are we going to do as a region," he said, adding that a meeting will be held this winter to discuss specifically how to get cities and towns involved.

For more information about the event, contact Sam Cleaves at scleaves@mapc.org or 617-451-2770 x2013. For more information on MAPC and the North Shore Coalition, visit www.mapc.org.

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Exhibit 14



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