



LOGAN INTERNATIONAL AIRPORT COASTAL FLOOD OPERATIONS PLAN



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A. Introduction

- A.1. This document describes the assumptions, operations, organization and areas of responsibility for Massport and all responding agencies and partners to respond to and recover from a coastal flooding emergency at Boston Logan International Airport.
- A.2. This document is a companion document to and references the “*Massport Boston Logan International Airport - Airport Emergency Plan*”, herein referred to as the *Airport Emergency Plan* or AEP.

B. Purpose

- B.1. This document is a guidance document, which establishes procedures to be followed in the event of a forecasted coastal flood at Boston Logan International Airport (referred to herein as “Logan Airport” or “the Airport”).
- B.2. A coastal flood might create hazardous conditions at Logan Airport that have the potential to lead to injury, loss of life, operational disruption, and loss of property. The procedures described herein will help to mitigate these risks.
- B.3. Given the importance of Logan Airport and Massport’s Maritime facilities to the region, it is imperative that Massport be prepared to take all necessary actions to respond to a forecasted coastal flood and recover from any residual impacts that cannot be mitigated, as outlined in this document.

C. Situation and Assumptions

C.1. Coastal Flood Hazards at Logan Airport

- C.1.a. A coastal flood is defined for the purposes of this document to be an event in which the maximum water surface elevation (combination of tide and storm surge) is greater than or equal to 14.5 ft. MLLW at Logan Airport, as measured at the Boston Harbor Tide Gauge (NOAA Station ID: 8443970). Elevations in this plan are presented in Mean Lower Low Water (MLLW) datum. To convert from MLLW datum to NAVD88 datum, subtract 5.5 ft. For example, to convert from 14.5 ft. MLLW subtract 5.5 ft to get 9.0 ft. NAVD88.
- C.1.b. “Forecasted” implies advanced warning of an impending coastal flood, at least thirty-six (36) hours prior to its anticipated arrival, based on forecasts issued by the National Oceanic and Atmospheric (NOAA) and/or the National Weather Service (NWS) or other public or private sources of predicted flood information.

- C.1.c. Figures B1-B4 in Appendix B depict the estimated extents of flooding for a range of coastal flood elevations that might be forecasted. Table A0 in Appendix A shows which critical Massport buildings and structures might be vulnerable to flooding under each such scenario. These figures and tables are not exact predictions, as a variety of storm characteristics will influence the actual extent and depth of a given flood across Airport property.

C.2. Regional Context

- C.2.a. In the event of a coastal flood, flooding will likely not be isolated to Logan Airport. Massport's Maritime facilities and real estate properties, as well as large low-lying areas in the broader Metro Boston region, including areas of East Boston, South Boston, Charlestown, Winthrop, Chelsea, and Revere, will likely also experience severe flooding from the same event.
- C.2.b. The regional scale of response, damage, and recovery associated with a coastal flood will create a different set of operational challenges, compared with an aircraft incident, winter storm, or other Airport emergency.
 1. Massport's ability to draw on a regional pool of resources for support will be more limited than usual due to competition for regional resources and the resultant scarcity and disruptions to supporting infrastructure and services (e.g., telecommunications, energy, transportation).
 2. Massport will need to coordinate and cooperate more closely with a larger, more diverse, group of external partners that may not be traditionally involved in more localized emergencies at Logan Airport (e.g., the National Guard, utility companies, suppliers, contractors, other state/local/federal agencies).
 3. Reestablishing operations at Logan Airport will be a regional priority, both in the short-term in order to serve as a base for regional relief operations and in the long-term to speed regional recovery.

C.3. Airport Access

- C.3.a. Access to Logan Airport is likely to be limited immediately before, during and immediately after a major coastal flooding event. The extent of impacts will depend on the levels of flooding experienced (which may lead to major evacuations), the resultant disruption to metro-Boston transportation systems, and the prevalence of storm-related debris.

1. Immediately before a forecasted coastal flood is due to hit the region, the following major transportation routes to/from Logan Airport might be closed or have very limited capacity:
 - a. Roadways might be congested due to mandatory coastal evacuations.
 - b. MassDOT might close the I-90 (Ted Williams) and Route 1A (Callahan and Sumner) tunnels.
 - c. MBTA might halt Silver Line and Blue Line subways and Water Transit services.
 - d. The U.S. Coast Guard might close the Port of Boston to vessel movements 12-24 hours prior to the onset of gale-force winds.
 - e. State Police Troop F might close Airport roadways to prevent unauthorized traffic from entering the airport if Massport decides to close the Airport.
2. During a coastal flood, on-site access might face the following constraints:
 - a. Only the upper level (Departures) Airport terminal circulation roadways are likely to be fully above water and traversable.
 - b. The lower level (Arrivals) Airport terminal circulation roadways and other on-site routes such as the airfield perimeter road, Harborside Drive, Tomahawk Drive, Porter Street, Service Road, Prescott Street, Lovell Street, and other access routes might be flooded or otherwise impassable to traffic (e.g., due to debris). Driving on flooded roads should be avoided, as nearly half of flood fatalities are vehicle-related.
3. Immediately after flooding has receded, on-site and offsite transportation modes are unlikely to be immediately accessible due to the following hazards:
 - a. Debris and other obstructions.
 - b. Impacts to electrical and communication systems.
 - c. Standing water in low areas or areas with poor drainage.
 - d. Failure of signals, lighting, or navigational aids.
 - e. Road, rail or water navigation closures by law enforcement.

- f. Damage to transportation infrastructure (roads, tunnels, rails, piers).
 - g. Loss or limited capacity of runways and taxiways which would impede resumption of airport operations.
- C.3.b. Due to the potential impacts to Airport access and circulation described above, Massport’s capacity to implement the following response actions are likely to be diminished immediately before, during, and/or immediately after a coastal flood:
- 1. Execute a large-scale evacuation safely and efficiently.
 - 2. Obtain emergency resources from offsite locations, including essential employees, contractors, consultants, equipment, and supplies.
 - 3. Transport on-site resources to/from staging areas or impacted facilities.
 - 4. Implement life safety, hazard mitigation, property protection, inspection and damage assessment, damage repair and remediation activities in impacted areas.
 - 5. Operate runways and taxiways to allow delivery of emergency equipment and supplies into the region.
- C.3.c. Significant advanced preparations, including early on-site mobilization and staging of response resources, and implementation of priority response actions, will help to mitigate the negative consequences of being immobilized by limited access.

C.4. Airport Buildings and Structures

- C.4.a. Table A0 in Appendix A identifies the critical buildings and structures at Logan Airport that will likely be impacted under a range of forecasted coastal flood elevations.
- 1. In Table A0, under a given coastal flood elevation, an empty colored cell indicates that a site is likely to only experience flooding outside and around the building. A number inside a colored cell is the first-floor elevation of the building (Mean Lower Low Water (MLLW) datum), which indicates whether or not a site is likely to experience exterior and/or interior flooding.
 - 2. Even if flooding does not reach a sufficient elevation to enter a building, exterior flooding may temporarily isolate buildings making evacuation or re-entry during or immediately after the flood extremely dangerous.

3. Table A0 also indicates general level of priority (high, moderate, or lower) for each building and structure. Priority levels were determined based on input collected from Massport management and leadership staff for the Disaster Infrastructure Resiliency Planning Study. These priority classifications are carried into Tables A1-A26 in Appendix A, Response and Recovery Actions and Timelines, to aid in Massport's emergency decision-making when resources and/or time are limited.

C.4.b. Figures B1-B4 in Appendix B graphically depict the extent of flooding for a range of coastal flood elevations, and show the locations of vulnerable Massport buildings and structures under various flooding scenarios. These figures are not exact predictions, as a variety of storm characteristics will influence the actual extent and depth of a given flood across Airport property.

C.5. Airport Utilities

C.5.a. Utility services, including electrical power, fuel storage and delivery, natural gas, telecommunications, water, sewer, and/or associated heating and cooling will likely be interrupted during a major coastal flood and might remain unavailable immediately afterward.

C.5.b. Table A0 in Appendix A identifies the centralized utilities facilities and individual buildings and structures at Logan Airport that are likely to be impacted under a range of forecasted coastal flood elevations. The table does not provide exact predictions, as a variety of storm characteristics will influence the actual extent and depth of a given flood across Airport property.

C.5.c. Centralized utilities facilities, with their Massport building numbers in (), include the following:

1. Wood Island Substation (2)
2. Porter Street Substation (41)
3. Bird Island Flats Substation (67)
4. Harborside Substation (32)
5. Airfield Lighting Vault (66)
6. Central Heating Plant/Facilities I (18)
7. Utility Tunnels (T18A-T31B)
8. MPA Pumping Station and Electrical/Telecom Building (6A/6B)
9. Logan Office Center (65)
10. State Police/TSA Building (11)
11. Terminal C Crawl Space (22)

C.5.d. Utility services might also be interrupted at Logan Airport if facilities of offsite service providers, such as those listed below, are impacted by coastal flooding:

1. Chelsea electrical transmission substation
2. East Boston natural gas regulator station
3. East Boston liquid fuel tank farm
4. Boston telecommunications facility (i.e. Verizon)

C.5.e. Due to the potential utility impacts anticipated above, Massport's capacity to implement the following response actions might be diminished during and/or immediately after a coastal flood:

1. Use of equipment, electronics, and systems that rely on electricity, natural gas, or liquid fuels
2. Delivery of potable water and high-pressure fire suppression water
3. Access to liquid fuel from underground storage tanks
4. Transmission of internal and external communications
5. Use of centralized access control and security monitoring systems
6. Remote monitoring of fire alarms
7. Controlling building environments, both locally and remotely

C.6. Worst Case Scenario

C.6.a. A coastal flood with a maximum water elevation of 21.5 ft. MLLW or greater would inundate almost every critical building and structure at Logan Airport. Such a scenario, while extremely unlikely, is possible if a Category 2 hurricane or greater hits Boston directly at high tide and under the most extreme conditions possible for maximum storm surge development.

C.6.b. The coastal flood elevations forecasted and/or experienced at Logan Airport will be unique to the specific characteristics of each hurricane, tropical storm or nor'easter.

C.6.c. Implementation of response actions described in this document for a given forecasted coastal flood will be based on the maximum water elevation (combination of tide and storm surge) predicted by the National Oceanic and Atmospheric (NOAA) and/or the National Weather Service (NWS) or other public or private sources of predicted flood information, as prescribed in paragraph D.1.

C.7. Communications Capabilities

C.7.a. Communications capabilities at Logan Airport could likely be diminished during and immediately after a major coastal flood due to a variety of factors, including

water damage to Massport and offsite service provider infrastructure due to flooding (see paragraph C.5).

1. Network/Internet-based Services

- a. Telecommunications services and systems that rely on fiber networks are particularly vulnerable to failure during a coastal flood, including:
 - Internet
 - E-mail
 - Voice Over IP phone service (VOIP)
 - Access control and security monitoring systems
 - Parking management systems
 - People and Culture information systems
 - Financial accounting and reporting systems
 - Time and attendance systems
 - Air traffic control systems, including runway lighting, navigation aids and other related systems
- b. Functionality of telecommunications facilities is dependent on electrical service and supporting telecommunications infrastructure (e.g., data centers, wiring, switches, routers) which would likely fail if exposed to salt water during flooding or might be shutdown prior to flooding to avoid catastrophic failure.

2. Cellular/Mobile Phone Service

- a. Cellular networks are often overwhelmed by the high volume of usage that occurs during and immediately after natural disasters and other emergencies, so personal and business cell phones might not be functional or may be severely limited.
- b. Mobile networks are also dependent on electrical service and supporting telecommunications infrastructure (e.g., antenna towers, data centers) which might fail if exposed to high winds or water during flooding, or might be shutdown prior to flooding to avoid catastrophic failure.

3. Telephone Land Line Services

- a. Traditional land line telephone services are less vulnerable to failure in that they do not rely on electricity to function.

- b. Battery backup, however, is required for most receiving devices to work without electricity.
 - c. Land line services are also vulnerable to physical water damage at certain exposed points (e.g., telephone switches, wire connections).
 4. Radio communications infrastructure, such as centralized radio systems, dispatch centers, and personal radios and charging stations (which require power to operate), will likely be damaged if directly exposed to water. Radio antennas might also be damaged by high winds.
- C.7.b. Massport has significant redundancies in the event of telecommunications failures.
 1. A limited number of Massport employees have Government Emergency Telecommunications Service (GETS) Cards that provide priority access through overwhelmed mobile phone networks.
 2. Massport is connected to the land line telephone infrastructure of all major telecommunications providers in the region, allowing them to switch from an impacted service to a functioning service (if one is available).
 3. Voice Over IP (VOIP) phone services and internet-based communications, including the Massport website and email system and data, can be accessed at offsite facilities where they are backed-up. These offsite facilities are in areas unlikely to be impacted by a coastal flood or have appropriate resiliency measures in place to remain functional during a coastal flood.
 4. For commercial operations at the Airport to resume, however, network-based telecommunications services would need to be restored on-site.
 5. The central radio system is significantly elevated, so it should not be directly exposed to water damage. However, the substation, back-up generator, and emergency panel that power this system are located at or below grade and therefore might be exposed to flood damage.
 6. Massport maintains a full back-up radio system in an emergency communications trailer stored at Logan Airport. This communications trailer should be moved to an area not susceptible to flooding in the event of a major flood.
 7. Personal handheld radio receivers used by field staff are battery powered. Charging stations for these receivers and/or extra batteries will be required for them to operate for extended periods of time. Both the receivers and

the charging stations are portable and can therefore be moved to a safe location in advance of flooding.

8. Centralized and distributed networking, data storage, and associated cooling equipment are connected to back-up power sources including emergency generators, uninterruptible power supplies (UPS), and batteries. However, back-up power supplies have limited capacity and are not designed to support operations for an extended period of time.
9. Fire alarms are centrally monitored at two different locations at Logan Airport, both of which have significant back-up emergency power. Both sites would have to be impacted by flooding for this capability to be completely interrupted. In such a scenario, Airport premises would need to be physically surveyed for audible and visual alarms.

D. Operations

D.1. Coastal Flood Forecasts, Monitoring and Reporting

- D.1.a. The Massport Climate Resiliency Application is an interactive website that facilitates field data collection and management oversight of flooding or heavy precipitation events impacting Massport infrastructure. It automatically monitors and displays, in real-time, tidal flood elevation forecasts at the National Oceanic and Atmospheric Administration (NOAA) tide gauge in Boston Harbor (NOAA Station ID: 8443970) as reported by the NOAA National Water Prediction Service at:

<https://water.noaa.gov/gauges/bhbm3>

In addition to tidal flooding alerts, the application monitors and displays National Weather Service (NWS) precipitation forecasts within the system.

The Massport Climate Resiliency Application website provides a simple-to-use interface for staff in the field to record information before and during an event, as well as for managers overseeing the status of infrastructure preparation, conditions during an incident, and recovery from any flooding impacts. Massport personnel can access the Massport Climate Resiliency Application using a computer, smart phone, or tablet, with the following link and their normal Massport log in credentials:

<https://experience.arcgis.com/experience/7449ced659504c578bc4600da962f32>

Once logged in, the Resiliency Application provides Massport staff with the following capabilities:

1. Facilitate management oversight of flooding or heavy precipitation events impacting Massport infrastructure.
2. Inform decision-making during a flood event where Massport flood operations plans may or have been activated.
3. Enable select Massport personnel to post real-time field photos and status updates to a shared online dashboard, including:
 - a. Flood water encroachment
 - b. Barrier and resource deployments
 - c. Operational issues encountered
 - d. Equipment status or “positive” activity milestones (i.e., all clear, action completed, etc.)
 - e. Site inspections
4. Contribute to after-event reporting using the date/time stamps of entered statuses, information and observations

Responding personnel are encouraged to post both negative (locations of flooding, flood barrier deployment/operational issues encountered, etc.) and positive (all clear, action completed, etc.) information.

- D.1.b. When water surface flood elevation forecasts at the NOAA Boston Harbor Tide Gauge exceed 13.0 ft. MLLW (combination of tide and storm surge), the application will send real-time notifications via email to a list of personnel in Capital Programs. ***As a precaution, this notification trigger is 1.5 ft. lower than the elevation at which flood prevention actions are initiated (See Appendix A).*** Setting a lower notification threshold allows Capital Programs to become aware of potential flood events and consider taking precautionary actions, such as notifying other Massport departments and units and putting their flood barrier deployment contractor on notice, further in advance of a potential event.

To verify and supplement the NOAA flood forecasts, Capital Programs will also manually monitor other public websites that provide flood, wind, and storm forecast information, including:

- NOAA Extra-Tropical Storm Surge at the following web link:
<https://slosh.nws.noaa.gov/etsurge/index.php?page=stn®ion=ne&atum=mlw&list=&map=0-48&type=both&stn=mabos>
- Boston Station ETSURGE Hydrographs (for Nor’easters)
<https://slosh.nws.noaa.gov/etsurge2.0/index.php?stid=8443970&datum=MLLW&show=1-1-1-0>

- NOAA National Hurricane Center – Atlantic Tropical Cyclones and Disturbances <https://www.nhc.noaa.gov/?atlc>
- NOAA Coastal Inundation Dashboard (integrates NWS Storm Surge Watch/Warning and Coastal Flood Advisory/Watch/Warning information) <https://tidesandcurrents.noaa.gov/inundationdb/#>
- Windfinder - Boston Harbor Forecast (wind speed, maximum gusts) https://www.windfinder.com/forecast/boston_logan_airport
- The Weather Channel – Boston <https://weather.com/weather/today/l/5a6f4d01288ad71fa9bb0d3628094fd1ccae65f1fbb85c8f587a9ef36ae6094e>
- Weather Underground <https://www.wunderground.com/weather/KBOS>
- Local television newscasts and news radio also provide extensive coverage of any storm that may threaten our area (TV Channels 4, 5, 7 and 25; radio station 1030 AM)

When Capital Programs staff receive an automatic notification from the Massachusetts Climate Resiliency Application that a forecasted flood elevation might exceed a specific threshold that is determined to pose a potential risk to Aviation assets, Capital Programs will develop a Coastal Flood Forecast Advisory and hold a conference with the Aviation Operations Team.

The Coastal Flood Forecast Advisory will include the following information:

1. Date and time of each advisory.
2. Date and time of forecasted coastal flood arrival at Boston Harbor when water surface elevation at the Boston Tide Gauge is expected to reach an elevation of 14.5 ft. MLLW or higher. The NOAA forecasting models are reported in local Eastern Standard Time or Eastern Daylight Savings Time, as appropriate. To avoid potential errors in reporting morning or afternoon times, a 24-hour clock will be utilized to report all times.
3. Maximum flood elevation (combination of tide and storm surge) forecasted at the Boston Harbor Tide Gage (NOAA Station ID: 8443970). Elevations will be reported in MLLW datum.

4. Range of anticipated wave heights forecasted in Boston Harbor and the eastern-facing sections of the Airport at the time of maximum flood elevation arrival, in feet, if available.
5. Date and time of forecasted maximum flood elevation arrival at Boston Harbor.
6. Date and time of forecasted flood recession when the water surface is expected to fall below and remain below elevation 14.5 ft. MLLW.
7. Forecasted total flood duration (hours and minutes). The time will be cumulative and will be calculated as the total time from the first time that the water surface is forecast to exceed an elevation of 14.5 ft. MLLW to the last time that the water surface is forecast to drop below elevation 14.5 MLLW, taking into account multiple tidal cycles.
8. Forecasted maximum wind gust speed and direction (miles per hour)
9. Forecasted maximum sustained wind speed and direction (miles per hour)

Example Flood Forecast Advisory

DESCRIPTION	FLOOD FORECAST DATA
Date and time of Advisory	10/30/15 13:00
Date and time of arrival of flood elevation greater than or equal to 14.5 MLLW	10/31/15 12:30
Maximum forecasted flood elevation (ft.)	16.5 MLLW
Anticipated wave height at time of maximum flood elevation (ft.) (if available)	Harbor: 2-3 ft. East-Facing Airport: 7 -9 ft.
Date and time of maximum flood elevation	10/31/15 14:00
Date and time of recession of flood elevation below 14.5 ft. MLLW	10/31/15 18:00
Duration of predicted flooding above elevation 14.5 ft. MLLW from start to recession	5 hours, 30 minutes
Forecasted maximum wind gust speed & direction	92 mph, NE
Forecasted maximum sustained wind speed and direction	78 mph, NE

- D.1.c. The Massport Communications Center (MCC) will receive advisories of storm forecasts provided by Capital Programs and communicate these forecasts to Aviation Operations.
- D.1.d. If at any point the track cone prediction of a hurricane or other storm is within 250 miles of Boston, Aviation Operations, in consultation with Capital Programs, will begin monitoring coastal flood elevation forecasts at the NOAA tide gauge in Boston Harbor (NOAA Station ID: 8443970) as reported by the National Oceanic and Atmospheric Administration (NOAA) National Water Prediction Service and the National Weather Service, and will participate in National Weather Service briefings.
- D.1.e. Aviation Operations will communicate any forecasted storm warnings or watches with a predicted maximum flood elevation greater than 14.5 ft. MLLW at the next 8:30 am security briefing and through a designated flood group e-mail distribution list of Massport departments and partner agencies. Tenant advisories will also be issued as appropriate. At a minimum, the flood group list will include the following departments and units:
1. Aviation Operations
 2. Fire Rescue Department
 3. State Police Troop F
 4. Corporate Security/Emergency Management
 5. Airport Facilities
 6. Capital Programs
 7. Maritime Operations
 8. Information Technology
 9. Boston EMS
 10. Risk Management
 11. Real Estate and Asset Management
 12. People and Culture
- D.1.f. Aviation Operations, in consultation with Capital Programs, will continue to monitor weather and flooding forecast updates from NOAA and the National Weather Service and will provide daily updates at the 8:30 am security briefings and will issue weather updates via the flood group e-mail distribution and tenant advisories, as appropriate.

D.2. Activation and De-activation

- D.2.a. A Coastal Flood Emergency will be declared by the Massport Chief Executive officer, Director of Aviation or Director of Aviation Operations, when Aviation Operations receives notification from Capital Programs that a maximum water surface elevation (combined tide and storm surge) of 14.5 ft. MLLW or greater is

forecasted at the Boston Harbor Tide Gauge. “Forecasted” implies advanced warning of an impending flood, at least thirty-six (36) hours prior to its anticipated arrival.

- D.2.b. A declaration of a Coastal Flood Emergency will activate appropriate actions described in the *Airport Emergency Plan* (AEP) as well as those described in this document.
- D.2.c. A Coastal Flood Emergency shall be terminated by the Massport Chief Executive Officer, Director of Aviation or Director of Aviation Operations. To terminate the Coastal Flood Emergency after a flood has occurred, they must determine, based on an evaluation of conditions on the ground, that emergency operations are no longer warranted, and flooding must have receded below elevation 14.5 ft. MLLW for the last time according to forecasts. To terminate the emergency before a flood has occurred, Aviation Operations must receive notification from Capital Programs that the forecasted maximum flood elevation in Boston Harbor is no longer expected to exceed elevation 14.5 ft. MLLW.

D.3. Response and Recovery Actions and Timelines

- D.3.a. As noted in paragraph C.4., Table A0 in Appendix A identifies the critical buildings and structures at Logan Airport that might be impacted under a range of forecasted coastal flood elevations. It also indicates the general priority level of each building and structure.
- D.3.b. Tables A1-A26 in Appendix A describe the response and recovery actions required under each forecasted maximum coastal flood elevation, the responsible party, and the timelines to be followed. The tables also provide guidance on priority of actions, although ultimate discretion is maintained by the Unified Command as described in Chapter 2, paragraph D (Operations) of the *Airport Emergency Plan*.
- D.3.c. The Unified Command and all supporting departments and agencies shall use Tables A1-A26 as a guide for planning and carrying out response and recovery actions and timeframes based on the most recent maximum coastal flood elevation forecasts and any other available resources. Responsibilities of different departments and agencies are further described in Section E of this document.
- D.3.d. Maximum coastal flood elevations are broken down into one-foot ranges, as follows, where “X” is the forecasted maximum flood elevation:
 1. $X < 14.5$ feet MLLW
 2. $14.5 \leq X < 15.5$ feet MLLW

3. $15.5 \leq X < 16.5$ feet MLLW
4. $16.5 \leq X < 17.5$ feet MLLW
5. $17.5 \leq X < 18.5$ feet MLLW
6. $18.5 \leq X < 19.5$ feet MLLW
7. $19.5 \leq X < 20.5$ feet MLLW
8. $20.5 \leq X < 21.5$ feet MLLW
9. $X \geq 21.5$ feet MLLW

D.3.e. Response timeframes are broken down as follows (in reference to the forecasted time to the arrival of coastal flooding):

1. 72 hours before flood
2. 48 hours before flood
3. 24 hours before flood
4. 12 hours before flood
5. 6 hours before flood
6. During flood
7. 0-12 hours after flood
8. 12+ hours after flood

E. Organization and Assignment of Responsibilities

E.1. Responsibilities of the Unified Command

- E.1.a. Massport will utilize the Unified Command as noted in Chapter 2, paragraph D of the *Airport Emergency Plan (AEP)* to provide overall command and coordination for Coastal Flood Emergencies.
- E.1.b. Once a Coastal Flood Emergency is declared, the Unified Command will be responsible for carrying out the Response and Recovery Actions and Timelines described under paragraph D.3 of this document, within the areas of responsibility listed below.
- E.1.c. Management of flood emergencies will be shared by the responding parties of the Unified Command.
- E.1.d. The Unified Command will have full authorization from the Aviation Director to support response and recovery for a Coastal Flood Emergency.
- E.1.e. During a Coastal Flood Emergency, the Unified Command will be the commanding entity and all other units and or agencies will provide support to the Unified Command.

- E.1.f. The Unified Command will maintain liaison with mutual aid partners, other external agencies, utilities, and fuel providers in order to obtain priority support for the Airport and Maritime operations and facilities. The Emergency Operations Center (EOC), when activated, will coordinate with utilities and fuel providers to obtain priority support for Airport and Maritime operations and facilities.
- E.1.g. The Unified Command will maintain responsibilities for contingency plans to shelter the travelling public.
- E.1.h. The Unified Command will maintain or delegate responsibilities for preparing sheltering arrangements for all Massport essential employees and standby contractors, including:
 - 1. Hotels (delegated to Aviation Administration)
 - 2. Airport-based catering services
 - 3. Pallets of bottled water
 - 4. Bulk purchases of food and other supplies at wholesale stores
- E.1.i. Emergency Operations Center (EOC)
 - 1. If a Coastal Flood Emergency is declared, the Emergency Operations Center (EOC) will be activated, and the Unified Command will transition to the same building (but not the same room) as the EOC once the EOC is able to support the command.
 - 2. For a Coastal Flood Emergency, notifications and steps to establish the EOC will start approximately 72 hours prior to the arrival of forecasted flooding at a location to be determined by the Unified Command using the following criteria (potential locations to be considered include, but are not limited to, Massport Fire Rescue Headquarters, Amelia Earhart Building No. 55 Aviation Conference Room, T16 COOP site, Logan Office Center Auditorium and Aviation Operations Conference Room 3A):
 - a. Located in a building that is not forecasted to flood.
 - b. Elevated at least 1 ft. above the forecasted maximum flood elevation.
 - c. No large glass exterior windows.
 - d. Accessible to/from other non-flooded buildings in vehicles or by foot – access will not be flooded based on the forecasted flood elevation.

- e. Capable of supporting communications, with the following infrastructure/services:
 - Radio service
 - Ethernet jacks (multiple)
 - Wireless internet
 - Telephone hard line jacks (multiple)
 - Cellular service
 - Electrical outlets for plugging in computers, phones, and equipment
 - Cable TV service
 - f. Has an emergency generator that is at least one foot above the forecasted maximum flood elevation.
 - g. Emergency generator has sufficient capacity to power EOC loads and life-safety loads.
 - h. Has sufficient space for the anticipated number of people on duty, including representatives from local, state, and federal partners, tenants and utilities.
 - i. Adjacent rooms are available for the Unified Command and/or executive consultations.
 - j. Has adequate nearby restroom and kitchen facilities.
3. The EOC shall not be established at the State Police/TSA Building until such time as flooding has receded and the building is accessible, fully powered, safe for occupancy, and otherwise able to support the EOC.
 4. Once activated, the EOC will be used by Massport Departments for all liaison and coordination activities with federal, state, and local agencies as well as tenants, utilities, and fuel providers.
- E.1.j. Mobile Command Post
1. If a Coastal Flood Emergency is declared, the Unified Command will request Airport Facilities to move the Fire-Rescue Mobile Command Post to the upper level (Departures) Airport Terminal circulation roadways or an upper level of the West Garage or Central Garage, in case it is needed.

E.1.k. Public Information Officer

1. Massport's Public Information Officer will serve as the Public Information Officer of the Unified Command.

E.2. Responsibilities of Massport Executives and Senior Staff

- E.2.a. Advise the Unified Command on priorities and available resources for response and recovery actions.
- E.2.b. Provide finance and material resource support for response and recovery.
- E.2.c. Assign representative personnel to participate in Aviation Operations briefings for flood operations.
- E.2.d. Determine and augment staffing levels as necessary.
- E.2.e. Communicate needs, available resources, status, and updates to the Unified Command.
- E.2.f. Provide accountability and documentation for response and recovery actions for regulatory, insurance, and disaster aid reimbursement purposes.

E.3. Responsibilities of Aviation Operations

- E.3.a. The overall role of Aviation Operations in a Coastal Flood Emergency is to manage Massport's organizational response, by setting priorities, allocating all necessary resources, and coordinating implementation of activities, to ensure a safe and efficient response and recovery.
- E.3.b. As a member of the Unified Command, Aviation Operations will cooperate with Massport Fire-Rescue Department and State Police Troop F to ensure that resources and actions needed to meet regulatory requirements for the resumption of aviation operations at the Airport are prioritized and implemented, insofar as they do not detract from meeting the primary priority of life safety.
- E.3.c. General procedures in the following sections of the *Airport Emergency Plan* pertaining to Aviation Operations responsibilities, including those of the Director of Aviation, Deputy Director of Aviation, and Operations Shift Manager, also apply:

1. Chapter 3, Section 1 – Command and Control
2. Chapter 3, Section 3 – Alert Notification and Warning
3. Chapter 3, Section 4 – Emergency Public Information
4. Chapter 3, Section 5 – Protective Actions
5. Chapter 3, Section 8 – Health and Medical
6. Chapter 3, Section 9 – Resource Management

E.3.d. Aviation Operations will have primary responsibility for:

1. Managing the Massport Communications Center, including monitoring, notifications, and communicating coastal flood forecasts.
2. Notifying and communicating emergency status to all responding departments.
3. Reporting a Coastal Flood Emergency to Maritime Operations and all flood group email list recipients in accordance with paragraph D.1.e.
4. Convening flood briefings and coordinating activities in support of the Unified Command.
5. Activating the Emergency Operations Center through the Unified Command.
6. Requesting relocation of the backup emergency communications trailer located near Facilities II to a location at the Airport not forecasted to flood.
7. Requesting activation of existing term and on-call contracts as required on an emergency basis for the implementation of infrastructure protection and recovery.
8. Advising the Capital Programs Department in the use and deployment of contractors, consultants, and vendors.
9. Communicating needs, available resources, status and updates to the Unified Command and EOC (if activated).
10. Issuing Situational Awareness Messages, emergency public information, tenant advisories, NOTAMs, and other alert notifications and warnings through the Unified Command.
11. Deciding to curtail, suspend, or cease airfield operations through the Unified Command.

12. Ordering departments and agencies to relocate personnel, critical vehicles, equipment, and supplies to designated safe locations through the Unified Command.
13. Coordinating with the Unified Command the evacuation of the airport or vulnerable buildings, structures or other vulnerable areas.
14. Coordinating with airlines, airport operators, and tenants.
15. Working with the Capital Programs Department through the Unified Command to establishing pre-flood and post-flood staging areas in locations that are not forecast to flood.
16. Requesting through the Unified Command for the Ground Transportation Unit (GTU) to organize on-site transportation (e.g., shuttles) to facilitate recovery work in the post-flood time period.
17. Regulatory compliance, including:
 - a. Coordinating with regulatory authorities, such as FAA, TSA, and US Customs and Border Control, to meet requirements for resumption of aviation operations.
 - b. Monitoring areas for compliance with federal aviation regulations.
 - c. Closing areas and issuing NOTAMs as necessary.
 - d. Inspecting areas after a flood event for compliance with federal aviation regulations.
 - e. Reopening closed surfaces and issuing NOTAMs as necessary.
 - f. Determining if T-16 needs to temporarily relocate due to high winds to a location determined by Aviation Operations.
18. Communicating needs for on-site sheltering of essential employees and standby contractors to the Unified Command, or their delegate, and the EOC (when it is activated) including:
 - a. Hotels (delegated to Aviation Administration)
 - b. Airport-based catering services
 - c. Pallets of bottled water
 - d. Bulk purchases of food and other supplies at wholesale stores

19. Maintaining documentation of pre/post conditions, actions taken, and expenses incurred using the Massport Climate Resiliency Application for post-event accounting, insurance, and disaster aid.

E.4. Responsibilities of Massport Communications Center

- E.4.a. Massport Communications Center will be responsible for receiving weather and flood forecasts from Capital Programs, and issuing weather notifications and Coastal Flood Forecast Reports, as detailed in paragraph D.1.
- E.4.b. General procedures in the following sections of the *Airport Emergency Plan* pertaining to Massport Communications Center responsibilities also apply:
 1. Chapter 3, Section 3 – Alert Notification and Warnings
 2. Chapter 3, Section 4 – Emergency Public Information

E.5. Responsibilities of Fire-Rescue Department

- E.5.a. Massport Fire-Rescue Department is the primary agency responsible for life safety, firefighting, and hazardous materials response in a Coastal Flood Emergency.
- E.5.b. As a member of the Unified Command, Massport Fire-Rescue will coordinate with Aviation Operations and State Police Troop F to ensure that resources and actions needed to meet regulatory requirements for the resumption of aviation operations at the Airport are prioritized and implemented, insofar as they do not detract from meeting the primary priority of life safety.
- E.5.c. Once a Coastal Flood Emergency is declared, Massport Fire-Rescue will be responsible for carrying out the Response and Recovery Actions and Timelines described under paragraph D.3 of this document, within the areas of responsibility listed below.
- E.5.d. General procedures in the following sections of the *Airport Emergency Plan* pertaining to Massport Fire-Rescue Department responsibilities also apply:
 1. Chapter 3, Section 1 – Command and Control
 2. Chapter 3, Section 7 – Fire Fighting
 3. Chapter 3, Section 8 – Health and Medical
 4. Chapter 4, Section 3 – Structural Fires, Fuel Farms and Fuel Storage
- E.5.e. Fire-Rescue Department will have primary responsibility for:
 1. Participating as a member of the Unified Command and Massport Departmental Operations Center (DOC) for flood operations.

2. Conducting fire suppression and rescue operations, as needed.
3. Assisting in providing emergency medical assistance, as needed.
4. Surveying areas forecasted to flood for hazardous material storage and directing responsible parties to mitigate any identified hazards before the arrival of flooding.
5. Supervising the evacuation of buildings and structures, in accordance with paragraph D.3 of this document.
6. Cooperating with State Police Troop F and Aviation Security to secure and prevent unauthorized entry to evacuated buildings, structures and areas.
7. Assisting in support operations, including search, inspections, personnel accountability, large-scale evacuation, and sheltering in place.
8. Communicating needs, available resources, status and updates to the Unified Command and to the EOC (when it is activated).
9. Coordinating mutual aid activities with local fire departments and health and medical partners through the Unified Command through the EOC (when it is activated).
10. Reporting damage to Aircraft Rescue and Firefighting (ARFF) facilities, equipment, and supplies through the Unified Command.
11. Providing initial response to suspected hazardous material releases.
12. Securing outside storage areas and equipment at Fire Rescue Stations.
13. Reporting hazardous materials releases and recommending priorities for response and remediation through the Unified Command.
14. Identifying ARFF personnel and inventory apparatuses and critical equipment/supplies at facilities forecasted to flood and relocating them to designated locations in accordance with paragraph D.3 of this document.
 - a. Critical equipment includes, but is not limited to, the following ARFF apparatus and all onboard systems, equipment, and supplies:

- ARFF vehicles and supply trailers
 - ARFF boats (large, small, and air boat)
 - ARFF personal protective equipment
 - Personal portable radios and charging stations
15. Coordinating with Airport Facilities to inspect and test fire alarm systems, fire suppression systems, emergency fuel shut-offs, and hydrants.
16. Surveying Fire Rescue Stations 1, 2, and 3 after a flood:
- a. Coordinating with Airport Facilities and Capital Programs and/or their consultants/ contractors to:
 - Determine the integrity of ARFF stations.
 - Assess status of gas, electricity, water, sanitation, fuel tanks and pumps, and air compression equipment at ARFF stations.
 - b. Testing all telephones, fire phone system.
 - c. Testing apparatus mounted radios.
 - d. Testing station and portable radios.
 - e. Testing alerting system.
17. Maintaining documentation of pre/post conditions, actions taken, and expenses incurred in the Massport Climate Resiliency Application for post-event accounting, insurance, and disaster aid.

E.6. Responsibilities of State Police Troop F

- E.6.a. State Police Troop F is the primary agency responsible for security, investigation of criminal activity, emergency movements of people and traffic management in response to a Coastal Flood Emergency.
- E.6.b. As a member of the Unified Command, the State Police will cooperate with Aviation Operations and Massport Fire-Rescue to ensure that resources and actions needed to meet regulatory requirements for the resumption of aviation operations at the Airport are prioritized and implemented, insofar as they do not detract from meeting the primary priority of life safety.
- E.6.c. Once a Coastal Flood Emergency is declared, State Police Troop F will be responsible for carrying out the Response and Recovery Actions and Timelines

described under paragraph D.3 of this document, within the areas of responsibility listed below.

- E.6.d. General procedures in the following sections of the *Airport Emergency Plan* pertaining to State Police also apply:
1. Chapter 3, Section 1 – Command and Control
 2. Chapter 3, Section 5 – Protective Actions
 3. Chapter 3, Section 6 – Law Enforcement/Security
 4. Chapter 3, Section 8 – Health and Medical
 5. Chapter 4, Section 5 – Hazardous Materials Incident
 6. Chapter 4, Section 9 – Crowd Control
- E.6.e. State Police Troop F will have primary responsibility for:
1. Participating as a member of the Unified Command and Massport Departmental Operations Center (DOC) for flood operations.
 2. Coordinating all law enforcement responses and providing security before, during, and after a coastal flood.
 3. Participating in staffing the Mobile Command Post as ordered by the Unified Command.
 4. Managing the evacuation process through the Unified Command if large scale evacuation of the Airport is ordered, including overall traffic control, in accordance with Chapter 3, Section 5 – Protective Actions in the *Airport Emergency Plan*.
 5. Patrolling, enforcing access and preventing unauthorized entry into evacuated buildings, structures, and areas.
 6. Assisting in support operations, to include search, inspections, personnel accountability, building evacuations, and sheltering in place.
 7. Communicating needs, available resources, status, and updates to the Unified Command and EOC (when it is activated).
 8. Coordinating mutual aid activities with local, state, and federal law enforcement and emergency management agencies through the Unified Command and the EOC (when it is activated).

9. Reporting damage to State Police facilities, equipment, and supplies through the Unified Command.
10. Providing for physical surveillance and access control of the public-SIDA interface if automated access control and security monitoring systems are compromised:
 - a. Providing elevated staffing levels, including through mutual aid, if required.
 - b. Managing movements by setting up controlled checkpoints and locking/securing all other access points.
 - c. Searching, clearing, and securing areas for which access control has lapsed prior to resumption of aviation operations at the Airport.
11. Identifying State Police personnel and K-9 resources and inventorying vehicles, and specialized equipment/supplies at the State Police/TSA Building and relocating them to designated locations prior to a flood in accordance with paragraph D.3 of this document.
 - a. Critical equipment includes, but is not limited to, the following:
 - Law enforcement vehicles and supply trailers
 - Telecommunications equipment that can be re-stationed at T16 (to be coordinated with IT)
 - Mobile command post
 - Explosive detection equipment
 - Weapons and ammunition
 - Personal protective equipment
 - Personal portable radios and charging stations
 - K-9 resources and supplies
 - Portable card readers, in coordination with TSA, IT and on-site contractors
12. Surveying the State Police/TSA Building and K-9 Kennel after a flood, including but not limited to cooperating with IT Department, Airport Facilities, Capital Programs and/or their consultants/contractors, to:
 - Determine the integrity of the buildings

- Assess status of gas, electricity, water, sanitation, and communications
- Assess needs for remediation of mold or hazardous materials, particularly for cell blocks
- Test all telephones, and emergency call box systems for the Greenway and East Boston parks
- Test vehicle mounted radios
- Test station and portable radios
- Test alerting systems (e.g., door alarm monitoring system)

13. Maintaining documentation of pre/post conditions, actions taken, and expenses incurred in the Massport Climate Resiliency Application for post-event accounting, insurance, and disaster aid.

E.7. Responsibilities of Airport Facilities

- E.7.a. The overall role of Airport Facilities in a coastal flood emergency is to prepare for and implement and/or supervise infrastructure protection and recovery activities.
- E.7.b. Once a coastal flood emergency is declared, Airport Facilities will be responsible for carrying out the Response and Recovery Actions and Timelines described under paragraph D.3 in this document, within the areas of responsibility listed below.
- E.7.c. General procedures in the following sections of the *Airport Emergency Plan* pertaining to Airport Facilities also apply:
1. Chapter 3, Section 1 – Command and Control
 2. Chapter 3, Section 3 – Alert Notification and Warning
 3. Chapter 3, Section 5 – Protective Actions
 4. Chapter 3, Section 9 – Resource Management
 5. Chapter 3, Section 10 – Airport Operations and Maintenance
- E.7.d. Airport Facilities will have primary responsibility for the following:
1. Monitoring impacts to Airport infrastructure, implementing, and/or supervising infrastructure protection and recovery activities.
 2. Supervising term contractor and/or implementing retrieval, deployment, installation, and demobilization of temporary flood barriers systems at facilities forecasted to flood. Temporary flood barrier equipment is currently stored in the Logan Office Center Garage at One Harborside Drive or at on-site locations. Installation plans are included in Appendix C (Figures C2-C7).

3. Check, deploy, fuel, maintain operation, clean and return to stock rooms portable pumps as required.
 4. Identifying Airport Facilities personnel and inventorying Airport Facilities vehicles, equipment, supplies, and stock in areas and buildings forecasted to flood and relocating them to designated locations in accordance with paragraph D.3 in this document.
 5. Raising critical inventory and loose equipment off of floors above the forecasted maximum flood level to prevent damage, to the maximum extent feasible.
 6. Supervising Airport Facilities contractors, consultants, and vendors at all facilities as needed.
 7. Updating and printing contact information for on-call and term contractors for contracts being supervised by Airport Facilities including, but not limited to, the following types:
 - a. Electrical
 - b. Structural
 - c. Architectural (Roofing, Windows, Doors)
 - d. Mechanical
 - e. HVAC
 - f. Drainage
 - g. Water and sewer
 - h. Hazmat
 - i. Building cleaning
 - j. Baggage handling
 - k. Heavy equipment operations
 - l. Equipment rental (loaders, cranes, trucks, fuel delivery, pumps, emergency generators)
 - m. Bulk provisions (potable water, hot and cold meals)
- E.7.e. Specific responsibilities for senior Airport Facilities staff include, but are not limited to, the following:
1. Providing support personnel, materials and equipment to aid in response and recovery in support of the Unified Command.
 2. Prioritizing and coordinating all emergency maintenance and repair activities through the Unified Command.

3. Communicating needs, available resources, status, and updates to the Unified Command and EOC (when it is activated).
 4. Coordinating with Capital Programs to approve activation of current term and on-call contracts as required to engage contractors and/or consultants on an emergency basis for the implementation of infrastructure protection and recovery.
 5. Securing and applying for additional outside resources, beyond the capabilities of current term and on-call contracts under the supervision of Airport Facilities, for the implementation of infrastructure protection and recovery actions through the Unified Command.
 6. Communicating needs for on-site sheltering of essential employees and standby contractors to the Unified Command, or their delegates, and the EOC (when it is activated), including:
 - a. Hotels (delegated to Aviation Administration)
 - b. Airport-based catering services
 - c. Pallets of bottled water
 - d. Bulk purchases of food and other supplies at wholesale stores
 7. Maintaining documentation of pre/post conditions, actions taken, and expenses incurred using the Massport Climate Resiliency Application for post-event accounting, insurance, and disaster aid.
- E.7.f. Structural Department specific responsibilities include the following:
1. Supervising the deployment and demobilization of temporary flood barriers around the State Police/TSA Building (Building 11). Installation plans are included in Appendix C (Figure C2). Clean Harbors has a term contract with Massport to provide labor for installation of deployable barriers.
 2. Surveying airport buildings, in coordination with the Safety Officer and Capital Programs staff or consultants/contractors, to:
 - a. Determine integrity of buildings and structures.
 - b. Coordinate with the Capital Programs and Maritime Safety Officer regarding mold or hazardous materials concerns.
 3. Reporting damage to airport facilities to Airport Facilities Senior Staff.

4. Maintaining documentation of pre/post conditions, actions taken, and expenses incurred using the Massport Climate Resiliency Application for post-event accounting, insurance, and disaster aid.

E.7.g. Airside/Landside, Fleet Maintenance specific responsibilities include the following:

1. Implementing or supervising the collection and removal of debris and standing water from the airfield, airport roadways, and impacted buildings and structures after flooding.
2. Relocating specialized snow removal equipment and other Massport vehicles and equipment under their management to upper level (Departures) airport terminal circulation roadways, or other areas that are not forecast to flood, prior to flooding.
3. Reporting damage to airport facilities to Airport Facilities senior staff.
4. Maintaining documentation of pre/post conditions, actions taken, and expenses incurred using the Massport Climate Resiliency Application for post-event accounting, insurance, and disaster aid.

E.7.h. Mechanical/Water Sewer Department specific responsibilities include the following:

1. Supervising the deployment and demobilization of temporary flood barriers around the MPA Pumping Station and Electrical/Telecom Building (Buildings 6A and 6B). Installation plans are included in Appendix C (Figure C3). Clean Harbors has a term contract with Massport to provide labor for installation of deployable barriers.
2. Coordinating with water and sewer service providers to coordinate emergency shut-downs and resumption of service.
3. Closing (before flood) and re-opening (after flood) sewer/drainage shutoff valves at designated facilities.
4. Testing, installing, fueling, and re-fueling portable water pumps at designated facilities.
5. Pre-inspecting all roadways, crawl spaces, and terminal pumps and sump pumps and taking any corrective measures required to restore operations at facilities.

6. Coordinating with MassDOT on roadway drainage pump station operations including, but not limited to, the 37A pump station and the inbound road tunnel.
 7. Installing or supervising the operation of tide gates and backflow preventers at drainage outfalls.
 8. Inspecting storm drains and outfalls for obstructions and taking any corrective measures necessary.
 9. Pre-positioning drainage pumps at drainage outfalls.
 10. Cleaning out Massport-owned oil water separators, as appropriate.
 11. Monitoring fire hydrant water pressure in coordination with Massport Fire-Rescue Department.
 12. Reporting damage to airport facilities to Airport Facilities senior staff.
 13. Maintaining documentation of pre/post conditions, actions taken, and expenses incurred using the Massport Climate Resiliency Application for post-event accounting, insurance, and disaster aid.
- E.7.i. Electrical Department specific responsibilities include the following:
1. Supervising the deployment and demobilization of temporary flood barriers at Wood Island Substation (Building 2) and Porter Street Substation (Building 42). Installation plans are included in Appendix C (Figures C4-C5). Clean Harbors has a term contract with Massport to provide labor for installation of deployable barriers.
 2. Coordinating with electrical utility providers to coordinate emergency shut-downs (before flood) and resumption of service (after flood).
 3. Testing, monitoring, refueling and repairing emergency generators and emergency electrical equipment as needed.
 4. Coordinating with IT Department on airport-wide and/or building-specific electrical shut-downs (before flood) and restarts (after flood).

5. Securing airfield lighting equipment and electrical distribution systems as required.
 6. Reporting damage to airport facilities to Airport Facilities senior staff.
 7. Maintaining documentation of pre/post conditions, actions taken, and expenses incurred using the Massport Climate Resiliency Application for post-event accounting, insurance, and disaster aid.
- E.7.j. Contract Services Department specific responsibilities include the following:
1. Providing resource management support in accordance with Chapter 3 Section 9 in the *Airport Emergency Plan*.
 2. Coordinating and overseeing on-call term contracts, on an as-needed basis, including:
 - a. Clean Harbors for deployment of temporary flood barriers.
 - b. Cleaning contractors
 - c. Vertical circulation contractors for elevator and escalator protection prior to flooding and repairs post-flooding.
- E.7.k. Central Stockroom Department specific responsibilities include the following:
1. Inventorying, re-stocking and testing safety and emergency response materials, as needed.
 2. Reporting damage to airport facilities and/or inventories to Airport Facilities senior staff.
 3. Maintaining documentation of pre/post conditions, actions taken, and expenses incurred using the Massport Climate Resiliency Application for post-event accounting, insurance, and disaster aid.
- E.7.l. Central Heating Plant/HVAC Department specific responsibilities include the following:
1. Coordinating with liquid fuel and natural gas service providers to coordinate emergency shut-downs (before flood) and resumption of service (after flood).
 2. Monitoring building controls remotely and identifying and reporting facilities suspected of systems failure or those needing repair to senior staff.

3. Reporting damage to airport facilities to Airport Facilities senior staff.
4. Maintaining documentation of pre/post conditions, actions taken, and expenses incurred using the Massport Climate Resiliency Application for post-event accounting, insurance, and disaster aid.

E.8. Responsibilities of Capital Programs

- E.8.a. Capital Program’s Resiliency Team’s overall role in a Coastal Flood Emergency is to monitor forecasted water surface elevations (combined tide and storm surge) at the Boston Harbor Tide Gauge and report forecasted data to Aviation Operations and Maritime, source and supply necessary engineering, architectural design, construction, and environmental management services, and to provide associated project management, for the purposes of infrastructure protection and/or recovery.
- E.8.b. Once a Coastal Flood Emergency is declared, Capital Programs will be responsible for carrying out the Response and Recovery Actions and Timelines described under paragraph D.3 in this document, within the areas of responsibility listed below.
- E.8.c. Capital Programs leadership specific responsibilities include the following:
1. Providing advice to the Unified Command on priorities and available resources for infrastructure protection and/or recovery.
 2. Coordinating Capital Programs and outside resources to implement infrastructure protection and recovery actions.
 3. Reporting on status of infrastructure protection and recovery activities to the Unified Command.
 4. Determining Capital Programs staffing levels and augmenting as necessary.
 5. Maintaining documentation of pre/post conditions, actions taken, and expenses incurred using the Massport Climate Resiliency Application for post-event accounting, insurance, and disaster aid.
- E.8.d. The Resiliency Teams’ specific responsibilities include the following:
1. Activating the term contractor (Clean Harbors) responsible for providing labor, equipment, and transportation for the deployment and demobilization of temporary flood barriers around vulnerable critical assets.

Temporary flood barrier equipment is currently stored in the Logan Office Center Garage at One Harborside Drive and on-site at various locations. Installation plans are included in Appendix C (Figures C1-C7).

2. Identifying “essential” employees in consultation with Capital Programs leadership.
3. Coordinating, prioritizing and issuing requests for support through the Unified Command.
4. Prioritizing and responding to requests for support from other Massport departments and Mutual Aid partners through the Unified Command.
5. Updating contact information for contractors and consultants, and coordinating needs with Airport Facilities and other entities, including but not limited to, the following types:
 - a. Engineering/architecture services (structural, architecture, civil, electrical, mechanical)
 - b. Skilled and unskilled labor (HVAC, electricians, carpenters, equipment operators, laborers)
 - c. Hazmat/remediation
 - d. Equipment rental (loaders, cranes, trucks, fuel delivery, pumps, emergency generators)
 - e. Bulk provisions (potable water, hot and cold meals)
6. Securing and applying for additional (beyond current term and on-call contracts) outside resources listed for the implementation of infrastructure protection and recovery actions.
7. Communicating needs for on-site sheltering of essential employees and standby contractors to the Unified Command, or their delegates, and the EOC (when it is activated), including:
 - a. Hotels (delegated to Aviation Administration)
 - b. Airport-based catering services
 - c. Pallets of bottled water
 - d. Bulk purchases of food and other supplies at wholesale stores
8. Maintaining documentation of pre/post conditions, actions taken, and expenses incurred using the Massport Climate Resiliency Application for post-event accounting, insurance, and disaster aid.

9. The Resiliency Team will work with the DTIG group to obtain accurate electronic plans as needed for building layouts, utilities, environmental mapping, and other key engineering documents for reference before, during, and after a flood event.
10. Maintaining documentation of pre/post conditions, actions taken, and expenses incurred using the Massport Climate Resiliency Application for post-event accounting, insurance, and disaster aid.

E.8.e. Project Manager's and Resident Engineer's specific responsibilities include the following:

1. Taking necessary actions to prepare and secure vulnerable project staging areas and construction sites before a flood and/or heavy winds.
2. Facilitating the execution of standby contractor and consultant duties (e.g., escort, badging/access, advice, monitoring, reporting) during pre-flood preparation and post-flood response and recovery.
3. Providing project management and resident engineering services for recovery-stage capital projects.
4. Assisting with debris management.
5. Supervising clean-up and activities to return construction sites and project staging areas to safe conditions before resuming construction activities.
6. Maintaining documentation of pre/post conditions, actions taken, and expenses incurred using the Massport Climate Resiliency Application for post-event accounting, insurance, and disaster aid.

E.8.f. Safety Officer specific responsibilities include the following:

1. Monitoring and assessing safety hazards and unsafe situations, which responders, victims, and equipment may be exposed to.
2. Keeping the Unified Command advised of any safety issues and taking immediate action, if necessary, to eliminate safety hazards.
3. Assisting Massport Fire Rescue Department with building evacuations by identifying and communicating real and potential safety risks to the on-site Officer-in-Charge (OIC).

4. Assisting Airport Facilities and Capital Programs staff with the implementation of flood protection measures by attending pre-flood preparation meetings and deployments, as practical, and identifying and communicating real and potential safety risks to the on-site person in charge for:
 - a. Temporary barrier installations
 - b. Construction and staging areas
 - c. Stored materials locations (e.g. hazardous materials)
5. Providing access to locked or otherwise accessing secured areas, when an alternative access provider cannot be identified, for implementation of pre-flood preparation and/or post-flood response and recovery actions.
6. Managing the building safety inspection process during recovery, including:
 - a. Tracking the implementation of initial building safety inspections and required remedial measures to address safety issues, including additional inspections and coordinating with regulatory authorities.
 - b. Compiling and reviewing documented findings from building safety inspections and determining whether further coordination with regulatory authorities is required.
 - c. Coordinating with Massachusetts Department of Public Safety (DPS) for required inspections associated with repairs/reconstruction after a flood through the Unified Command and EOC (when it is activated).
 - d. Participating in all required building safety inspections both before and after flooding.
7. Activating current term and on-call contracts for industrial hygienists as required on an emergency basis for the implementation of mold and hazardous materials surveys and remediation.
8. Maintaining documentation of pre/post conditions, actions taken, and expenses incurred using the Massport Climate Resiliency Application for post-event accounting, insurance, and disaster aid.

E.9. Responsibilities of Information Technology (IT) Department

- E.9.a. The overall role of the IT Department in a Coastal Flood Emergency is to implement and supervise measures to protect and restore Massport's data, data

networks, telecommunications, and access control and security monitoring systems.

- E.9.b. Once a Coastal Flood Emergency is declared, the IT Department will be responsible for carrying out the intention of the Response and Recovery Actions and Timelines as generally described under paragraph D.3 in this document, within the areas of responsibility listed below.
- E.9.c. The IT Department will have primary responsibility for the following:
1. Providing IT support, if requested, to the Unified Command, Emergency Operations Center (if activated), and Command Post (if activated).
 2. Identifying IT Department personnel, vehicles, equipment, and supplies in areas or buildings forecasted to flood and relocating them to designated locations in accordance with paragraph D.3 in the document.
 3. Planning and executing Massport-wide data backups, according to established vital record hierarchies, in coordination with utilities and third-party service providers.
 4. Position staff or contractors at offsite locations where telecommunications and IT redundancy and resiliency measures are available to supplement lost or degraded functions at the Airport.
 5. Monitoring and repairing impacted access control and security monitoring system infrastructure.
 6. Providing technical support for radio, cellular, and internet communications, including setting up and supporting the Logan Airport EOC and the emergency communications trailer. The emergency communications trailer is normally parked near Facilities II but will be moved to higher ground in advance of a forecasted coastal flood, in accordance with paragraphs D.3 and E.3.d.6.
 7. Implementing notifications through electronic sign messages.
 8. Determining and augmenting staffing levels as necessary.
 9. Activating current term and on-call contracts as required on an emergency basis for the implementation of infrastructure protection and recovery.

10. Securing and applying additional (beyond existing term and on-calls) outside resources for the implementation of infrastructure protection and recovery actions through the Unified Command.
11. Communicating needs for on-site sheltering of essential employees and standby contractors to the Unified Command, or their delegates, and the EOC (when it is activated), including:
 - a. Hotels (delegated to Aviation Administration)
 - b. Airport-based catering services
 - c. Pallets of bottled water
 - d. Bulk purchases of food and other supplies at wholesale stores
12. Planning and implementing managed shutdowns of IT infrastructure and data networks prior to flooding to prevent catastrophic damage, in coordination with Electrical personnel.
13. Restoring office automation, parking and revenue control, access control system, and Maritime data networks, in cooperation with Electrical personnel.
14. Monitoring data security during response and recovery periods.
15. Reporting damage to IT Department infrastructure through the Unified Command.
16. Maintaining documentation of pre/post conditions, actions taken, and expenses incurred using the Massport Climate Resiliency Application for post-event accounting, insurance, and disaster aid.

E.10. Responsibilities of Boston EMS

E.10.a. General procedures in the following sections of the *Airport Emergency Plan* pertaining to Boston EMS shall apply:

1. Chapter 3, Section 1 – Command and Control
2. Chapter 3, Section 8 – Health and Medical

E.10.b. Boston EMS specific responsibilities include the following:

1. Identifying Boston EMS personnel and relocating ambulances, vehicles, and specialized medical equipment/supplies from the Boston EMS trailer and

garage to designated locations in accordance with paragraph D.3 in this document.

2. Providing personnel and equipment to staging areas, Unified Command and EOC (if activated) as directed by the Boston Mayor’s Office of Emergency Management.
3. Caring for and transporting injured to area hospitals.
4. Maintaining documentation of pre/post conditions, actions taken, and expenses incurred for post-event accounting, insurance, and disaster aid.

E.11. Responsibilities of the People and Culture Department

E.11.a. People and Culture’s specific responsibilities include the following:

1. Reviewing and implementing contingency plans for People and Culture systems and services, including time and attendance, payroll, and employee assistance programs (e.g., critical incident debriefings, mental health counseling).
2. Coordinating with Executives, Senior Staff, and the Public Information Officer to provide Massport employees with information regarding modified work schedules, release of non-essential staff, recall of essential staff, home-based work authorizations, time and attendance and payroll procedures, employee assistance programs, safety, and home preparedness.
3. Maintaining documentation of pre/post conditions, actions taken, and expenses incurred for post-event accounting, insurance, and disaster aid.

E.12. Responsibilities of Mutual Aid Agencies, Utilities and Fuel Providers

E.12.a. Mutual Aid Agencies, utilities, and fuel providers will be responsible for providing support and updates per their specific agreement’s needs and will be responsible for sending a representative to staging areas or the EOC (when it is activated) as requested by the Unified Command.

F. Administration and Logistics

- F.1. In the event of a coastal flood that affects operations at Logan Airport for an extended period of time, Massport will initiate the Continuity of Operations Plan (COOP) in

coordination with MEMA and FEMA. The Continuity of Operations Plan is a separate document and not included in this document.

G. Plan Development and Maintenance

- G.1. Massport’s Senior Resiliency Manager is responsible for the upkeep and maintenance of the Logan International Airport Coastal Flood Operations Plan, keeping its attachments current, and ensuring that SOP/SOGs and checklists are developed and maintained.
- G.2. Annual training exercises shall be carried out to verify that the decision-making framework, division of labor, available resources, and timelines to carry out the procedures described in this section are clear and achievable, and to identify any adjustments to the plan that are necessary.

H. Authorities and References

- H.1. Massport, to its best ability, and in conjunction with Local, State, and Federal agencies, shall enforce all applicable laws, rules, and regulations associated with the safe operation of air traffic and customer use at Boston Logan International Airport. Massport will utilize all available resources during an emergency to ensure a safe and efficient response and recovery.

APPENDIX A

TABLES A0 TO A26

Water Elevations at which Response and Recovery Actions are Necessary
ft. MLLW First Floor Critical Elevation Indicated

TABLE A0 LOGAN AIRPORT

**BUILDINGS
AND STRUCTURES
AT RISK OF FLOODING**

No.	Name (*) Flood Protected	Water Elevation Ranges (ft. MLLW)								Priority		
		<14.5	14.5 ≤ El. < 15.5	15.5 ≤ El. < 16.5	16.5 ≤ El. < 17.5	17.5 ≤ El. < 18.5	18.5 ≤ El. < 19.5	19.5 ≤ El. < 20.5	20.5 ≤ El. < 21.5		21.5 ≤ El. < 22.5	22.5 ≤ El. < 23.5
41	Porter Street Substation (*)			16.48								High
79	Fire-Rescue II (*)			15.54								High
06A	MPA Pumping Station (*)			15.76								High
4	Facilities III (*)			15.55								Moderate
64	West Outfall (Bar screen building)			15.94								Moderate
11	State Police/TSA Building (*)			16.09								High
85	Marine Fire-Rescue			16.10								High
3	Facilities II			16.26								Moderate
3A	Facilities 2 Fuel Island (*)			16.26								Moderate
2	Wood Island Substation (*)				16.65							High
15	Large Vehicle Storage Building				16.65							High
26	Air Traffic Control Tower				16.87							High
43	Boston EMS Station (Trailer and Garage)				17.34							High
74	Water Shuttle Pier				17.41							Lower
45	ConRAC					17.54						High
06B	Electrical/Telecom Building					17.86						High
26	Control Tower Substation					17.95						High
46	BOSFuel Operations and Control Building					18.19						Moderate
T18E	CHP to Terminal E (Door under overhead walkway to E)					18.36						Lower
64	West Outfall (Electrical)						18.65					Moderate
65	Logan Office Center						18.78					High
22	Terminal C Pier B						18.89					Moderate
19A	West Baggage Room						18.89					Moderate
T18C	Intersection to Terminal C (Ventilation at Old Tower)						18.93					Moderate
31	Terminal A Main (Landside)						18.94					Moderate
18	Central Heating Plant/Facilities I						19.18					High
T18C	Intersection to Terminal C (Door at Central Garage)						19.34					Moderate
	Fire Training Facility fuel tanks							19.50				Lower
T31B	Utility Tunnel between Terminal A and Terminal B (Door at Term B airside)											Lower
22	Terminal C Main							19.54				Moderate
78	Fire-Rescue I							E				High
66	Airfield Lighting Vault							20.11				High
44	North Gate							E	E	20.84		Moderate
52	South Gate							E	E	21.30		Moderate
T18C	Intersection to Terminal C (Hatch at Old Tower)							19.66				Moderate
22	Terminal C Pier A							19.69				Moderate
30	Terminal B Pier B							19.87				Moderate
22	Terminal C Pier B (UAL Baggage)							20.13				Moderate
27	Terminal B Pier A							20.16				Moderate
67	Bird Island Flats Substation							20.23				High
22	Terminal C Pier C							20.29				Moderate
19	Terminal E									21.67		Moderate
46	Jet Fuel Tank Farm (Containment Wall)									21.90		Moderate
T18A	Intersection to Terminal A (Door at West Garage)									20.66		Lower
31	Terminal A Main (Airside)									20.91		Moderate
32	Terminal A Satellite									20.95		Moderate
T31A	Terminal A Main to Satellite (Stair LL)									20.95		Lower
32	Harborside Substation									21.00		High
T18B	CHP to Intersection (Utility hatch at West Garage)									21.26		Lower

TABLE A0 LOGAN AIRPORT

Water Elevations at which Response and Recovery Actions are Necessary
 ft. MLLW First Floor Critical Elevation Indicated

**BUILDINGS
 AND STRUCTURES
 AT RISK OF FLOODING**

No.	Name (*) Flood Protected	Water Elevations at which Response and Recovery Actions are Necessary ft. MLLW First Floor Critical Elevation Indicated								Priority	
		<14.5	14.5 ≤ El. < 15.5	15.5 ≤ El. < 16.5	16.5 ≤ El. < 17.5	17.5 ≤ El. < 18.5	18.5 ≤ El. < 19.5	19.5 ≤ El. < 20.5	20.5 ≤ El. < 21.5		21.5 ≤ El. < 22.5
OTHER NON-MASSPORT ASSETS											
37	MBTA Airport Station (bus stop only)						18.82				
37A	Substation/Lift Station (CA/T)						18.92				

Table A1 - Logan International Airport - Coastal Flood Operation

Task	General Actions		Location
	BLD #		
Join NWS conference calls; monitor State and local agency actions			Operations
Meet with tenants and airlines; issue tenant advisories as needed			Operations
Identify & notify essential employees to be on standby; provide home preparedness information			CP
			Facilities
			Operations
			IT
			Fire Rescue
			State Police
Update emergency contact lists for contractors, consultants, & vendors			EMS
			CP
			Facilities
			Operations
Inspect roof drains for clogs			IT
			Facilities
Clear out transfer station			Facilities
Priority Level			14.5 ft. ≤ El. < 15.5 ft. 72 Hours Before Flood

Task	General Actions		Location
	BLD #		
Inspect construction & staging sites for missile hazards, hazmat, materials, equipment			CP
Secure, elevate, relocate construction & staging site materials & equipment			CP
Ensure that Communications Trailer will not be flooded. If it will be flooded, move to higher ground			Operations
Survey forecasted flood areas & buildings for safety hazards			CP (Safety)
Survey forecasted flood areas for hazmat & direct mitigation actions			Fire Rescue
			CP (Safety)
Priority Level			14.5 ft. ≤ El. < 15.5 ft. 48 Hours Before Flood

Task	Location	
	General Actions	BLD #
Communicate flood safety & personal protective measures to personnel		CP (Safety)
Raise loose equipment & secure doors & openings		Facilities
Notify FAA of NAVAIDs & airfield electrical sites at risk of flooding		Operations
Priority Level		14.5 ft. ≤ El. < 15.5 ft. 24 Hours Before Flood

Table A2 - Logan International Airport - Coastal Flood Operation

Task	General Actions	Location
	BLD #	
Close areas & issue NOTAMs		Operations
Install tide gates		Facilities
Priority Level		14.5 ft. ≤ El. < 15.5 ft. 6 Hours Before Flood

Task	General Actions	Location
	BLD #	
Monitor potential flooding		Facilities
Priority Level		14.5 ft. ≤ El. < 15.5 ft. During Flood

Task	General Actions	Location
	BLD #	
Remove tide gates		Facilities
Conduct search, personnel accountability, rescue, fire fighting, & law enforcement operations as needed		State Police
		Fire Rescue
Survey for damage to structure, utilities, ACS, fire alarms & suppression; contamination, safety issues, & saltwater intrusion		Facilities
		CP
		Fire Rescue
Advise FAA to inspect for damage		IT
		Operations
Report damages to senior staff		Facilities
		CP
		IT
		Operations
Priority Level		14.5 ft. ≤ El. < 15.5 ft. 0-12 Hours After Flood

General Actions
Location

Task

	BLD #	
Provide project management & resident engineering support		CP
Priority Level		14.5 ft. ≤ El. < 15.5 ft. 12+ Hours After Flood

Table A3- Logan International Airport - Coastal Flood Operations Plan

Task	Location										
	General Actions	Porter Street Substation	Fire-Rescue II	MPA Pumping Station (New)	State Police Building	Marine Fire-Rescue	Facilities III	Screen Building	West Outfall (Bar Island)	Facilities II Fuel	
BLD #		41	79	6A	11	85	4	64	3A	3	
Join NWS conference calls; monitor State and local agency actions											Operations
Meet with tenants and airlines; issue tenant advisories as needed											Operations
Identify & notify essential employees to be on standby; provide home preparedness information											CP Facilities Operations IT Fire Rescue State Police EMS
Update emergency contact lists for contractors, consultants, & vendors											CP Facilities Operations IT
Develop debris collection, storage & disposal plan											CP Facilities Operations
Review contingency plan for sheltering traveling public											Operations
Provide Unified Command and Aviation Administration with estimate of sheltering needs											CP Facilities Operations IT Fire Rescue EMS State Police
Review electrical shutdown plan in coordination with IT and utility											Facilities IT
Review IT shutdown plan in coordination with Electrical											IT Facilities
Inventory critical equipment & supplies; plan to relocate, elevate, or repair											Facilities Fire Rescue State Police
Mobilize contractor for temporary barrier installation											CP
Inventory temporary barriers at storage facility											Facilities (Term Contractor)
Inspect roof drains for clogs											Facilities
Clear out transfer station											Facilities
Priority Level		High	High	High	High	High	Moderate	Moderate	Moderate	Moderate	15.5 ft. ≤ El. < 16.5 ft. 72 Hours Before Flood

Table A4 - Logan International Airport - Coastal Flood Operations Plan

Task	Location										
	General Actions	Porter Street Substation	Fire-Rescue II Station	MPA Pumping Station (New)	State Police Building	Marine Fire-Rescue	Facilities III	West Outfall (Bar Island)	Facilities II Fuel Island	Facilities II	
BLD #		41	79	6A	11	85	4	64	3A	3	
Notify non-essential personnel and provide information											Human Resources
Inspect construction & staging sites for missile hazards, hazmat, materials, equipment											CP
Secure, elevate, relocate construction & staging site materials & equipment											CP
Ensure that Communications Trailer will not be flooded. If it will be flooded, move to higher ground											Operations
Activate emergency contracts											CP Facilities Operations IT
Issue new emergency contracts											CP Facilities Operations IT
Establish staging area for standby contractors outside of flood risk areas											Operations
Activate Mobile Command Post											State Police
Plan large scale evacuation including traffic management											State Police
Relocate non-essential vehicles from at risk areas & buildings											CP Facilities Operations IT Fire Rescue State Police
Test emergency generators											Facilities
Begin to relocate or elevate critical equipment & supplies											Facilities Fire Rescue State Police
Priority Level		High	High	High	High	High	Moderate	Moderate	Moderate	Moderate	15.5 ft. ≤ El. < 16.5 ft. 48 Hours Before Flood

Table A5 - Logan International Airport - Coastal Flood Operations Plan

Task	Location										
	General Actions	Porter Street Substation	Fire-Rescue II Station	MPA Pumping Station (New)	State Police Building	Marine Fire-Rescue	Facilities III Screen Building	West Outfall (Bar Island)	Facilities II Fuel	Facilities II	
BLD #		41	79	06A	11	85	4	64	3A	3	
Curtail, suspend or cease operations											Operations
Notify facilities and areas to be evacuated and review evacuation plans											Operations
Implement large-scale evacuation											State Police
Prevent unauthorized traffic from entering Airport roadways											State Police
Communicate flood safety & personal protective measures to personnel											CP (Safety)
Inspect roadway drainage pumps											Facilities
Position personnel at offsite backup IT locations											IT
Clean out oil water separators											Facilities
Secure outdoor storage & parking in at risk areas											ALL
Charge portable radios											ALL
Relocate essential vehicles from at risk areas											CP
											Facilities
											Operations
											IT
											Fire Rescue State Police
Prepare sandbags											Facilities
Fill emergency generators											Facilities
Deploy & stage portable pumps											Facilities
Begin to implement IT shutdown plan in coordination with Electrical											IT
											Facilities
Begin to implement electrical shutdown plan in coordination with IT and utility											Facilities
											IT
Install temporary barriers, stairs, catch basin enclosures - maintain access											Facilities (Term Contractor)
Raise loose equipment & secure doors & openings											Facilities
Notify FAA of NAVAIDs & airfield electrical sites at risk of flooding											Operations
Complete relocation or elevation of critical equipment & supplies											Facilities
											Fire Rescue
											State Police
Priority Level		High	High	High	High	High	Moderate	Moderate	Moderate	Moderate	15.5 ft. ≤ El. < 16.5 ft. 24 Hours Before Flood

Table A6 - Logan International Airport - Coastal Flood Operations Plan

Task	Location											
	General Actions	Porter Street Substation	Fire-Rescue II	Station (New)	MPA Pumping Building	State Police/ Building	Marine Fire-Rescue/ TSA	Facilities III	Screen Building	West Outfall (Bar Island)		Facilities II Fuel
	BLD #	41	79	06A	11	85	4	64	3A	3		
Position vehicle or trailer mounted large pumps at outfalls												Facilities
Evacuate at risk buildings & area												Fire Rescue
												CP (Safety)
												State Police
Secure evacuated facility & prevent unauthorized access												State Police
Deploy sandbags												Facilities
Raise elevator cabs												Facilities
Inspect temporary barrier installation, evacuate & close access												Facilities (Term Contractor)
Priority Level		High	High	High	High	High	Moderate	Moderate	Moderate	Moderate		15.5 ft. ≤ El. < 16.5 ft. 12 Hours Before Flood

Task	Location											
	General Actions	Porter Street Substation	Fire-Rescue II	Station (New)	MPA Pumping Building	State Police/ Building	Marine Fire-Rescue/ TSA	Facilities III	Screen Building	West Outfall (Bar Island)		Facilities II Fuel
	BLD #	41	79	06A	11	85	4	64	3A	3		
Close areas & issue NOTAMs												Operations
Install tide gates												Facilities
Priority Level		High	High	High	High	High	Moderate	Moderate	Moderate	Moderate		15.5 ft. ≤ El. < 16.5 ft. 6 Hours Before Flood

Task	Location											
	General Actions	Porter Street Substation	Fire-Rescue II	Station (New)	MPA Pumping Building	State Police/ Building	Marine Fire-Rescue/ TSA	Facilities III	Screen Building	West Outfall (Bar Island)		Facilities II Fuel
	BLD #	41	79	06A	11	85	4	64	3A	3		
Redirect onsite IT & telecom												IT
Monitor, repair & refuel emergency generators												Facilities
Monitor fire hydrant water pressure												Facilities
												Fire Rescue
Monitor, repair & refuel portable pumps												Facilities
Priority Level		High	High	High	High	High	Moderate	Moderate	Moderate	Moderate		15.5 ft. ≤ El. < 16.5 ft. During Flood

Table A7 - Logan International Airport - Coastal Flood Operations Plan

Task	Location										
	General Actions	Porter Street Substation	Fire-Rescue II	MPA Pumping Station (New)	State Police/ TSA Building	Marine Fire-Rescue	Facilities III	Screen Building	West Outfall (Bar Island)	Facilities II Fuel	Facilities II
BLD #		41	79	06A	11	85	4	64	3A	3	
Remove tide gates											Facilities
Assess runway & taxiway pavement, integrity, & lighting											CP
											Facilities
Inspect airfield areas											Operations
Conduct search, personnel accountability, rescue, fire fighting, & law enforcement operations as needed											State Police
											Fire Rescue
Report hazmat releases to Unified Command & recommend priorities											Fire Rescue
Monitor, repair & refuel emergency generators											Facilities
Survey for damage to structures, utilities, ACS, fire alarms & suppression; contamination, safety, saltwater intrusion											Facilities
											CP
											Fire Rescue
											IT
Advise FAA to inspect for damage											Operations
Report damages to senior staff											Facilities
											CP
											IT
											Operations
											Fire Rescue
Compile tracking list of damages and priority repairs to Unified Command											State Police
											Facilities
											CP
											IT
											Operations
Implement debris collection, storage & disposal plan											Fire Rescue
Remove standing water from airfield											State Police
											Facilities
Remove water from tunnels, crawl spaces, bag rooms, elevator & escalator pits											Operations
Remove water from tunnels, crawl spaces, bag rooms, elevator & escalator pits											Facilities
Priority Level		High	High	High	High	High	Moderate	Moderate	Moderate	Moderate	15.5 ft. ≤ El. < 16.5 ft. 0-12 Hours After Flood

Table A8 - Logan International Airport - Coastal Flood Operations Plan

Task	General Actions	Porter Street Substation	Fire-Rescue II	MPA Pumping Station (New)	State Police Building	Marine Fire/TSA	Facilities III	Screen Building	West Outfall (Bar Island)	Facilities II Fuel	Facilities II	Location
BLD #		41	79	06A	11	85	4	64	3A	3		
Clean and sanitize public areas; test for contamination												Facilities
Remove sandbags & store with debris for disposal												Facilities
Clean and return barriers and portable pumps to storage areas												Facilities (Term Contractor)
Provide project management & resident engineering support												CP
Repair ACS & security monitoring systems												IT
Restore IT systems												IT
												Facilities
Reopen areas & issue NOTAMS												Operations
Test telephones, alerting systems, vehicle radios, dispatch equipment, personal radios												Facilities
												IT
												State Police
												Operations
Provide physical surveillance & access control for airside												Fire Rescue
												State Police
Search & clear secure areas												State Police
												Operations
Implement emergency repairs												Facilities
Priority Level		High	High	High	High	High	Moderate	Moderate	Moderate	Moderate		15.5 ft. ≤ El. < 16.5 ft. 12+ Hours After Flood

Table A9 - Logan International Airport - Coastal Flood Operations Plan

Task	Location														Task					
	General Actions	Porter Street Substation	Wood Island Fire-Rescue II	Station (New)	MPA Pumping Station	State Police Building	Marine Police/TSA	Storage Fire-Rescue	Large Building	Air Traffic Control Tower	Boston EMS Station (Trailer)	Facilities I Island	Facilities II Fuel	Screen Building		West Outfall (Bar)	Facilities II	Water Shuttle Pier	3	74
BLD #		41	2	79	6A	11	85	15	26	43	3A	4	64							
Join NWS conference calls; monitor State and local agency actions																				Operations
Meet with tenants and airlines; issue tenant advisories as needed																				Operations
Identify & notify essential employees to be on standby; provide home preparedness information																				CP
																				Facilities
																				Operations
																				IT
																				Fire Rescue
																				State Police
Update emergency contact lists for contractors, consultants, & vendors																				CP
																				Facilities
Develop debris collection, storage & disposal plan																				Operations
																				CP
Review contingency plan for sheltering traveling public																				Facilities
																				Operations
Provide Unified Command with estimate of sheltering needs																				CP
																				Facilities
																				Operations
																				IT
																				Fire Rescue
																				EMS
Review electrical shutdown plan in coordination with IT and utility																				State Police
																				Facilities
Review IT shutdown plan in coordination with Electrical																				IT
																				Facilities
Inventory critical equipment & supplies; plan to relocate, elevate, or repair																				Facilities
																				Fire Rescue
																				EMS
																				State Police
Mobilize contractor for temporary barrier installation																				CP
Inventory temporary barriers at storage facility																				Facilities (Term Contractor)
Inspect roof drains for clogs																				Facilities
Clear out transfer station																				Facilities
Priority Level		High	High	High	High	High	High	High	High	High	High	Moderate	Moderate	Moderate	Moderate	Moderate	Lower			16.50 ft. ≤ El. < 17.5 ft. 72 Hours before Flood

Table A10 - Logan International Airport - Coastal Flood Operations Plan

Task	BLD #	41	2	79	6A	11	85	15	26	43	3A	4	64	3	74	Location		
	General Actions	Porter Street Substation	Wood Island Substation	Fire-Rescue II Station (New)	MPA Pumping Station (New)	State Police Building	Marine Fire-Rescue	Storage Building	Large Vehicle Tower	Air Traffic Control (Trailer)	Boston EMS Station	Facilities II Fuel Island	Facilities III	Screen Building	West Outfall (Bar)	Facilities II	Water Shuttle Pier	Location
Notify non-essential personnel and provide information																		Human Resources
Inspect construction & staging sites for missile hazards, hazmat, materials, equipment																		CP
Secure, elevate, relocate construction & staging site materials & equipment																		CP
Ensure that Communications Trailer will not be flooded. If it will be flooded, move to higher ground																		Operations
Activate emergency contracts																		CP
																		Facilities
																		Operations
																		IT
Issue new emergency contracts																		CP
																		Facilities
																		Operations
Establish staging area for standby contractors outside of flood risk areas																		IT
																		Operations
Activate Mobile Command Post																		State Police
Plan large scale evacuation including traffic management																		State Police
Relocate non-essential vehicles from at risk areas & buildings																		CP
																		Facilities
																		Operations
																		IT
																		Fire Rescue
																		EMS
Test emergency generators																		State Police
Survey forecasted flood areas & buildings for safety hazards																		Facilities
Survey forecasted flood areas for hazmat & direct mitigation actions																		CP (Safety)
																		Fire Rescue
Inventory & relocate or elevate portable radios & charging stations																		CP (Safety)
Retrieve, test & fuel portable pumps																		ALL
Inspect & test existing sump pumps																		Facilities (Term Contractor)
Backup files on local drives to MPA network																		Facilities
Retrieve temporary barriers, stairs, catch basin enclosures from storage																		Facilities
Deliver temporary barriers, stairs, catch basin enclosures to sites																		Facilities (Term Contractor)
Begin to relocate or elevate critical equipment & supplies																		Facilities
																		Fire Rescue
																		EMS
																		State Police
Priority Level		High	High	High	High	High	High	High	High	High	Moderate	Moderate	Moderate	Moderate	Lower			16.50 ft. ≤ El. < 17.5 ft. 48 Hours before Flood

Table A11 - Logan International Airport - Coastal Flood Operations Plan

Task	Location															Location		
	General Actions	Porter Street Substation	Wood Island Substation	Fire-Rescue II	MPA Pumping Station (New)	State Police Building	Marine Fire-Rescue	Storage Building	Air Traffic Control Tower	Boston EMS Station (Trailer)	Facilities I Fuel Island	Facilities II Fuel	Screen Building	West Outfall (Bar)	Facilities II		Water Shuttle Pier	
	BLD #	41	2	79	6A	11	85	15	26	43	3A	4	64	3	74			
Curtail, suspend or cease operations																	Operations	
Notify facilities and areas to be evacuated and review evacuation plans																	Operations	
Implement large-scale evacuation																	State Police	
Prevent unauthorized traffic from entering Airport roadways																	State Police	
Communicate flood safety & personal protective measures to personnel																	CP (Safety)	
Inspect roadway drainage pumps																	Facilities	
Position personnel at offsite backup IT locations																	IT	
Backup MPA network data to offsite platform																	IT	
Clean out oil water separators																	Facilities	
Secure outdoor storage & parking in at risk areas																	ALL	
Charge portable radios																	ALL	
Relocate essential vehicles from at risk areas																	CP	
																	Facilities	
																	Operations	
																	IT	
																		Fire Rescue
																		EMS
Prepare sandbags																	State Police	
Prepare sandbags																	Facilities	
Fill emergency generators																	Facilities	
Deploy & stage portable pumps																	Facilities (Term Contractor)	
Begin to implement IT shutdown plan in coordination with Electrical																	IT	
																	Facilities	
Begin to implement electrical shutdown plan in coordination with IT and utility																	Facilities	
																	IT	
Install temporary barriers, stairs, catch basin enclosures - maintain access																	Facilities (Term Contractor)	
Raise loose equipment & secure doors & openings																	Facilities	
Notify FAA of NAVAIDs & airfield electrical sites at risk of flooding																	Operations	
Complete relocation or elevation of critical equipment & supplies																	Facilities	
																	Fire Rescue	
																	EMS	
																	State Police	
Priority Level		High	High	High	High	High	High	High	High	High	Moderate	Moderate	Moderate	Moderate	Lower		16.50 ft. ≤ El. < 17.5 ft. 24 Hours before Flood	

Table A12 - Logan International Airport - Coastal Flood Operations Plan

Task	General Actions	Porter Street Substation	Wood Island Substation	Fire-Rescue II	MPA Pumping Station (New)	State Police/ TSA Building	Marine Fire-Rescue	Large Fire-Rescue Storage Building	Large Vehicle Tower	Air Traffic Control	Boston EMS Station (Trailer)	Facilities II Island	Facilities II Fuel	Screen Building	West Outfall (Bar)	Facilities II	Water Shuttle Pier	Location	
	BLD #	41	2	79	6A	11	85	15	26	43	3A	4	64	3	74				
Position vehicle or trailer mounted large pumps at outfalls																			Facilities
Evacuate at risk buildings & area																			Fire Rescue
																			CP Safety Officer
Secure evacuated facility & prevent unauthorized access																			State Police
Deploy sandbags																			Facilities
Raise elevator cabs																			Facilities
Inspect temporary barrier installation, evacuate, & close access																			Facilities (Term Contractor)
Priority Level		High	High	High	High	High	High	High	High	High	Moderate	Moderate	Moderate	Moderate	Lower	16.50 ft. ≤ El. < 17.5 ft. 12 Hours before Flood			

Task	General Actions	Porter Street Substation	Wood Island Substation	Fire-Rescue II	MPA Pumping Station (New)	State Police/ TSA Building	Marine Fire-Rescue	Large Fire-Rescue Storage Building	Large Vehicle Tower	Air Traffic Control	Boston EMS Station (Trailer)	Facilities II Island	Facilities II Fuel	Screen Building	West Outfall (Bar)	Facilities II	Water Shuttle Pier	Location	
	BLD #	41	2	79	6A	11	85	15	26	43	3A	4	64	3	74				
Order shelter in place																			Operations
Close areas & issue NOTAMs																			Operations
Install tide gates																			Facilities
Priority Level		High	High	High	High	High	High	High	High	High	High	Moderate	Moderate	Moderate	Moderate	Lower	16.50 ft. ≤ El. < 17.5 ft. 6 Hours before Flood		

Task	General Actions	Porter Street Substation	Wood Island Substation	Fire-Rescue II	MPA Pumping Station (New)	State Police/ TSA Building	Marine Fire-Rescue	Large Fire-Rescue Storage Building	Large Vehicle Tower	Air Traffic Control	Boston EMS Station (Trailer)	Facilities II Island	Facilities II Fuel	Screen Building	West Outfall (Bar)	Facilities II	Water Shuttle Pier	Location	
	BLD #	41	2	79	6A	11	85	15	26	43	3A	4	64	3	74				
Redirect onsite IT & telecom																			IT
Monitor, repair & refuel emergency generators																			Facilities
Monitor fire hydrant water pressure																			Facilities
																			Fire Rescue
Priority Level		High	High	High	High	High	High	High	High	High	High	Moderate	Moderate	Moderate	Moderate	Lower	16.50 ft. ≤ El. < 17.5 ft. During Flood		

Table A13 - Logan International Airport - Coastal Flood Operations Plan

Task	Location																
	General Actions	Porter Street Substation	Wood Island Substation	Fire-Rescue II	MPA Pumping Station (New)	State Police/TSA Building	Marine Fire-Rescue	Storage Building	Large Vehicle	Air Traffic Control Tower	Boston EMS Station (Trailer)	Facilities II Fuel Island	Facilities III	West Outfall (Bar Screen Building)	Facilities II		Water Shuttle Pier
	BLD #	41	2	79	6A	11	85	15	26	43	3A	4	64	3	74		
Remove tide gates																Facilities	
Assess runway & taxiway pavement, integrity, & lighting																CP	
																Facilities	
Inspect airfield areas																Operations	
Conduct search, personnel accountability, rescue, fire fighting, & law enforcement operations as needed																State Police	
																Fire Rescue	
Report hazmat releases to Unified Command & recommend priorities																Fire Rescue	
Monitor, repair & refuel emergency generators																Facilities	
Survey for damage to structures, utilities, ACS, fire alarms & suppression; contamination, safety, saltwater intrusion																Facilities	
																CP	
																Fire Rescue	
																IT	
Advise FAA to inspect for damage																Operations	
Report damages to senior staff																Facilities	
																CP	
																IT	
																Operations	
																Fire Rescue	
																EMS	
Compile tracking list of damages and priority repairs to Unified Command																State Police	
																Facilities	
																CP	
																IT	
																Operations	
Implement debris collection, storage & disposal plan																Fire Rescue	
																State Police	
Remove standing water from airfield																Facilities	
																Operations	
Remove water from tunnels, crawl spaces, bag rooms, elevator & escalator pits																Facilities	
Priority Level		High	High	High	High	High	High	High	High	High	Moderate	Moderate	Moderate	Moderate	Lower	16.50 ft. ≤ EL. < 17.5 ft. 0 -12 Hours After Flood	

Table A14 - Logan International Airport - Coastal Flood Operations Plan

Task	General Actions	Porter Street Substation	Wood Island Substation	Fire-Rescue II	MPA Pumping Station (New)	State Police/TSA Building	Marine Fire-Rescue	Storage Building	Large Vehicle	Air Traffic Control Tower	Boston EMS Station (Trailer)	Facilities II Fuel	Facilities III	West Outfall (Bar Screen Building)	Facilities II	Water Shuttle Pier	Location
	BLD #	41	2	79	6A	11	85	15	26	43	3A	4	64	3	74		
Clean and sanitize public areas; test for contamination																	Facilities
Remove sandbags & store with debris for disposal																	Facilities
Return portable pumps to stockroom																	Facilities (Term Contractor)
Clean and return barriers and portable pumps to storage areas																	Facilities (Term Contractor)
Provide project management & resident engineering support																	CP
Repair ACS & security monitoring systems																	IT
Restore IT systems																	IT
																	Facilities
Reopen areas & issue NOTAMs																	Operations
Test telephones, alerting systems, vehicle radios, dispatch equipment, personal radios																	Facilities
																	IT
																	State Police
																	Operations
																	EMS
Provide physical surveillance & access control for airside																	Fire Rescue
Provide physical surveillance & access control for airside																	State Police
Search & clear secure areas																	State Police
																	Operations
Implement emergency repairs																	Facilities
Priority Level		High	High	High	High	High	High	High	High	High	High	Moderate	Moderate	Moderate	Moderate	Lower	16.50 ft. ≤ El. < 17.5 ft. 12+ Hours After Flood

Table A15 - Logan International Airport - Coastal Flood Operations Plan

Task	General Actions	Porter Street Substation	Wood Island Substation	Fire-Rescue II Station	MPA Pumping Station (New)	State Police Building	Marine Fire-Rescue	Storage Fire-Rescue	Large Vehicle	Air Traffic Control Tower	Boston EMS Station (Trailer)	ConRAC	Electrical/Telecom Building	Control Tower Substation	Facilities III Screen Building	West Outfall (Bar)	Facilities II (Bar and Control Bldg.)	BOSFuel Operations Island	Facilities II Fuel	CHP to Terminal E	Water Shuttle Pier	Location	
	BLD #	41	2	79	6A	11	85	15	26	43	45	6B	26	4	64	3	46	3A	T18E	74			
Join NWS conference calls; monitor State and local agency actions																						Operations	
Meet with tenants and airlines; issue tenant advisories as needed																						Operations	
Identify & notify essential employees to be on standby; provide home preparedness information																						CP Facilities Operations IT Fire Rescue State Police EMS	
Update emergency contact lists for contractors, consultants, & vendors																						CP Facilities Operations It	
Develop debris collection, storage & disposal plan																						CP Facilities Operations	
Review contingency plan for sheltering traveling public																						Operations	
Provide Unified Command with estimate of sheltering needs																						CP Facilities Operations IT Fire Rescue EMS State Police	
Review electrical shutdown plan in coordination with IT and utility																						Facilities IT	
Review IT shutdown plan in coordination with Electrical																						IT Facilities	
Inventory critical equipment & supplies; plan to relocate, elevate, or repair																						Facilities Fire Rescue EMS State Police	
Mobilize contractor for temporary barrier installation																						CP	
Inventory temporary barriers at storage facility																						Facilities (Term Contractor)	
Inspect roof drains for clogs																						Facilities	
Clear out transfer station																						Facilities	
Priority Level		High	High	High	High	High	High	High	High	High	High	High	High	High	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Lower	Lower	17.50 ft. ≤ El. < 18.5 ft. 72 Hours Before Flood

Table A16 - Logan International Airport - Coastal Flood Operations Plan

Task	Location																			Task		
	General Actions	Porter Street Substation	Wood Island Substation	Fire-Rescue II	MPA Pumping Station (New)	Marine Fire-Rescue State Police/TSA Building	Storage Fire-Rescue	Large Vehicle Building	Air Traffic Control Tower	Boston EMS Station (Trailer)	CONRAC	Electrical/Telecom Building	Control Tower Substation	Facilities III	Screen Building	West Outfall (Bar)	Facilities II	EOS/Fuel Operations and Control Bldg	Facilities II Fuel Island		CHP to Terminal E	Water Shuttle Pier
BLD #		41	2	79	6A	11	85	15	26	43	45	6B	26	4	64	3	46	3A	T18E	74		
Notify non-essential employees and provide information																						Human Resources
Inspect construction & staging sites for missile hazards, hazmat, materials, equipment																						CP
Secure, elevate, relocate construction & staging site materials & equipment																						CP
Ensure that Communications Trailer will not be flooded. If it will be flooded, move to higher ground																						Operations
Activate emergency contracts																						CP Facilities Operations IT
Issue new emergency contracts																						CP Facilities Operations IT
Establish staging area for standby contractors outside of flood risk areas																						Operations
Activate Mobile Command Post																						State Police
Plan large scale evacuation including traffic management																						State Police
Relocate non-essential vehicles from at risk areas & buildings																						CP Facilities Operations IT Fire Rescue EMS State Police
Test emergency generators																						Facilities
Survey forecasted flood areas & buildings for safety hazards																						CP (Safety)
Survey forecasted flood areas for hazmat & direct mitigation actions																						Fire Rescue CP (Safety/Env.)
Inventory & relocate or elevate portable radios & charging stations																						All
Retrieve, test & fuel portable pumps																						Facilities (Term Contractor)
Inspect & test existing sump pumps																						Facilities
Backup files on local drives to MPA network																						All
Retrieve temporary barriers, stairs, catch basin enclosures from storage																						Facilities (Term Contractor)
Deliver temporary barriers, stairs, catch basin enclosures to sites																						Facilities (Term Contractor)
Begin to relocate or elevate critical equipment & supplies																						Facilities Fire Rescue EMS State Police
Priority Level		High	High	High	High	High	High	High	High	High	High	High	High	Moderate	Moderate	Moderate	Moderate				Lower	17.50 ft. ≤ El. < 18.5 ft. 48 Hours Before Flood

Table A17 - Logan International Airport - Coastal Flood Operations Plan

Task	Location																							
	General Actions	Porter Street Substation	Wood Island Substation	Fire-Rescue Station II	MPA Pumping Station (New)	State Police Building	Marine Fire-Rescue	Storage Fire-Rescue	Large Vehicle Building	Air Traffic Control Tower	Boston EMS Station (Trailer)	ConRAC	Electrical/Telecom Building	Control Tower Substation	Facilities II	Screen Building	West Outfall (Bar)	Facilities I	BDS Fuel Operations and Control Bldg		Facilities I Fuel Island	CHP to Terminal E	Water Shuttle Pier	74
BLD #	41	2	79	6A	11	85	15	26	43	45	6B	26	4	64	3	46	3A	T18E	74					
Curtail, suspend or cease operations																								Operations
Notify facilities and areas to be evacuated and review evacuation plans																								Operations
Implement large-scale evacuation																								State Police
Prevent unauthorized traffic from entering Airport roadways																								State Police
Communicate flood safety & personal protective measures to personnel																								CP (Safety)
Inspect roadway drainage pumps																								Facilities
Position personnel at offsite backup IT locations																								IT
Fill fuel trucks																								Facilities
Fill fuel storage tanks																								Facilities
Backup MPA network data to offsite platform																								IT
Clean out oil water separators																								Facilities
Secure outdoor storage & parking in at risk areas																								ALL
Charge portable radios																								ALL
Relocate essential vehicles from at risk areas																								CP Facilities Operations IT Fire Rescue EMS State Police
Prepare sandbags																								Facilities
Fill emergency generators																								Facilities
Deploy & stage portable pumps																								Facilities (Term Contractor)
Begin to implement IT shutdown plan in coordination with Electrical																								IT Facilities
Begin to implement electrical shutdown plan in coordination with IT and utility																								Facilities IT
Install temporary barriers, stairs, catch basin enclosures - maintain access																								Facilities (Term Contractor)
Raise loose equipment & secure doors & openings																								Facilities
Notify FAA of NAVAIDs & airfield electrical sites at risk of flooding																								Operations
Complete relocation or elevation of critical equipment & supplies																								Facilities Fire Rescue EMS State Police
Priority Level		High	High	High	High	High	High	High	High	High	High	High	High	Moderate	Moderate	Moderate	Moderate	Moderate	Lower	Lower				17.50 ft. ≤ El. < 18.5 ft. 24 Hours Before Flood

Table A18 - Logan International Airport - Coastal Flood Operations Plan

Task	General Actions	Porter Street Substation	Wood Island Substation	Fire-Rescue II	MPA Pumping Station (New)	State Police/TSA Building	Storage Fire-Rescue	Large Vehicle	Air Traffic Control Tower	Boston EMS Station (Trailer)	ConRAC	Electrical/Telecom Building	Control Tower Substation	Facilities III Screen Building	West Outfall (Bar Building)	Facilities II	BOSFuel Operations and Control Bldg.	Facilities II Fuel Island	CHP to Terminal E	Water Shuttle Pier	Location		
	BLD #	41	2	79	6A	11	85	15	26	43	45	6B	26	4	64	3	46	3A	T18E	74			
Position vehicle or trailer mounted large pumps at outfalls																						Facilities	
Evacuate at risk buildings & area																						Fire Rescue	
																						CP (Safety)	
																						State Police	
Secure evacuated facility & prevent unauthorized access																						State Police	
Deploy sandbags																						Facilities	
Raise elevator cabs																						Facilities	
Inspect temporary barrier installation, evacuate, & close access																						Facilities (Term Contractor)	
Priority Level		High	High	High	High	High	High	High	High	High	High	High	High	High	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Lower	Lower	17.50 ft. ≤ El. < 18.5 ft. 12 Hours Before Flood

Task	General Actions	Porter Street Substation	Wood Island Substation	Fire-Rescue II	MPA Pumping Station (New)	State Police/TSA Building	Storage Fire-Rescue	Large Vehicle	Air Traffic Control Tower	Boston EMS Station (Trailer)	ConRAC	Electrical/Telecom Building	Control Tower Substation	Facilities III Screen Building	West Outfall (Bar Building)	Facilities II	BOSFuel Operations and Control Bldg.	Facilities II Fuel Island	CHP to Terminal E	Water Shuttle Pier	Location		
	BLD #	41	2	79	6A	11	85	15	26	43	45	6B	26	4	64	3	46	3A	T18E	74			
Order shelter in place																						Operations	
Close areas & issue NOTAMS																						Operations	
Install tide gates																						Facilities	
Priority Level		High	High	High	High	High	High	High	High	High	High	High	High	High	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Lower	Lower	17.50 ft. ≤ El. < 18.5 ft. 6 Hours Before Flood

Task	General Actions	Porter Street Substation	Wood Island Substation	Fire-Rescue II	MPA Pumping Station (New)	State Police/TSA Building	Storage Fire-Rescue	Large Vehicle	Air Traffic Control Tower	Boston EMS Station (Trailer)	ConRAC	Electrical/Telecom Building	Control Tower Substation	Facilities III Screen Building	West Outfall (Bar Building)	Facilities II	BOSFuel Operations and Control Bldg.	Facilities II Fuel Island	CHP to Terminal E	Water Shuttle Pier	Location		
	BLD #	41	2	79	6A	11	85	15	26	43	45	6B	26	4	64	3	46	3A	T18E	74			
Redirect onsite IT & telecom																						IT	
Monitor, repair & refuel emergency generators																						Facilities	
Monitor fire hydrant water pressure																						Facilities	
																						Fire Rescue	
Priority Level		High	High	High	High	High	High	High	High	High	High	High	High	High	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Lower	Lower	17.50 ft. ≤ El. < 18.5 ft. During Flood

Table A19 - Logan International Airport - Coastal Flood Operations Plan

Task	Location																					
	General Actions	Porter Street Substation	Wood Island Substation	Fire-Rescue II	MPA Pumping Station (New)	State Police/TSA Building	Marine Fire-Rescue	Storage Building	Large Vehicle	Air Traffic Control Tower	Boston EMS Station (Trailer)	ConRAC	Electrical/Telecom Building	Control Tower Substation	Facilities III	West Outfall (Bar Screen Building)	Facilities II	BOS Fuel Operations and Control Bldg.	Facilities II Fuel Island	CHP to Terminal E		Water Shuttle Pier
	BLD #	41	2	79	6A	11	85	15	26	43	45	6B	26	4	64	3	46	3A	T18E	74		
Remove tide gates																						Facilities
Assess runway & taxiway pavement, integrity, & lighting																						CP
																						Facilities
Inspect airfield areas																						Operations
Conduct search, personnel accountability, rescue, fire fighting, & law enforcement operations as needed																						State Police
																						Fire Rescue
Report hazmat releases to Unified Command & recommend priorities																						Fire Rescue
Monitor, repair & refuel emergency generators																						Facilities
Survey for damage to structures, utilities, ACS, fire alarms & suppression; contamination, safety, saltwater intrusion																						Facilities
																						CP
																						Fire Rescue
																						IT
Advise FAA to inspect for damage																						Operations
Report damages to senior staff																						Facilities
																						CP
																						IT
																						Operations
Compile tracking list of damages and priority repairs to Unified Command																						State Police
																						Facilities
																						CP
																						IT
Implement debris collection, storage & disposal plan																						Fire Rescue
Remove standing water from airfield																						State Police
																						Facilities
Remove water from tunnels, crawl spaces, bag rooms, elevator & escalator pits																						Operations
Remove water from tunnels, crawl spaces, bag rooms, elevator & escalator pits																						Facilities
Priority Level		High	High	High	High	High	High	High	High	High	High	High	High	High	Moderate	Moderate	Moderate	Moderate	Moderate	Lower	Lower	17.50 ft. ≤ El. < 18.5 ft. 0-12 Hours After Flood

Table A20 - Logan International Airport - Coastal Flood Operations Plan

Task	Location																						
	General Actions	Porter Street Substation	Wood Island Substation	Fire-Rescue II	MPA Pumping Station (New)	State Police Building	Marine Police/TSA Building	Storage Fire-Rescue	Large Vehicle Building	Air Traffic Control Tower	Boston EMS Station (Trailer)	ConRAC	Electrical/Telecom Building	Control Tower	Facilities III Screen Building	West Outfall (Bar)	Facilities II	BOS Fuel Operations and Control Bldg.	Facilities II Fuel Island	CHP to Terminal E		Water Shuttle Pier	74
BLD #		41		2	79	6A	11	85	15	26	43	45	6B	26	4	64	3	46	3A	T18E			
Clean and sanitize public areas; test for contamination																							Facilities
Remove sandbags & store with debris for disposal																							Facilities
Return portable pumps to stockroom																							Facilities (Term Contractor)
Provide project management & resident engineering support																							CP
Clean and return barriers and portable pumps to storage areas																							Facilities (Term Contractor)
Repair ACS & security monitoring systems+AA15:A29																							IT
Restore IT systems																							IT Facilities
Reopen areas & issue NOTAMS																							Operations
Test telephones, alerting systems, vehicle radios, dispatch equipment, personal radios																							Facilities
																							IT
																							State Police
																							Operations
																							EMS
Provide physical surveillance & access control for airside																							State Police
Search & clear secure areas																							State Police
																							Operations
Implement emergency repairs																							Facilities
Priority Level		High	High	High	High	High	High	High	High	High	High	High	High	High	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Lower	Lower	17.50 ft. ≤ El. < 18.5 ft. 12+ Hours After Flood

Table A22 - Logan International Airport - Coastal Flood Operations Plan

Task	Location																								Location				
	General Actions	Porter Street Substation	Woods Island Fire-Rescue Station	MPA Pumping Station (New)	State Police Building	Marine Fire-Rescue Building	Storage Building	Large Vehicle Air Traffic Control Tower	Boston EMS Station (Trailer)	ConRAC	Electrical/Telecom Substation Building	Logan Office Center	Central Heating Plant / Facility I	Facilities III	West Outfall (Bldg.)	Facilities II	BOS Fuel Ops. & Ctrl. Bldg.	West Outfall (Electrical)	Terminal C Pier B	West Baggage Room	Tunnel - Terminal C (vestib)	Terminal A Main (Landside)	Tunnel - Terminal C (Door at Cent. Gar.)	Facilities II Fuel		Water Shuttle Pier	CHP to Terminal E		
BLD #	41	2	79	6A	11	85	15	26	43	45	68	26	65	18	4	64	3	46	64	22	19A	T18C	31	T18C	3A	74	T18E		
Notify non-essential employees and provide information																												Human Resources	
Inspect construction & staging sites for missile hazards, hazmat, materials, equipment																												CP	
Secure, elevate, relocate construction & staging site materials & equipment																												CP	
Ensure that Communications Trailer will not be flooded. If it will be flooded, move to higher ground																												Operations	
Activate emergency contracts																												CP Facilities Operations IT	
Issue new emergency contracts																												CP Facilities Operations IT	
Establish staging area for standby contractors outside of flood risk areas																												Operations	
Activate Mobile Command Post																												State Police	
Plan large scale evacuation including traffic management																												State Police	
Relocate non-essential vehicles from at risk areas & buildings																												Facilities CP IT Operations Fire Rescue EMS State Police	
Test emergency generators																												Facilities	
Survey forecasted flood areas & buildings for safety hazards																												CP (Safety)	
Survey forecasted flood areas for hazmat & direct mitigation actions																												Fire Rescue, CP (Safety/Env.)	
Inventory & relocate or elevate portable radios & charging stations																												ALL	
Retrieve, test & fuel portable pumps																												Facilities (Term Contractor)	
Inspect & test existing sump pumps																												Facilities	
Backup files on local drives to MPA network																												All	
Retrieve temporary barriers, stairs, catch basin enclosures from storage																												Facilities (Term Contractor)	
Deliver temporary barriers, stairs, catch basin enclosures to sites																												Facilities (Term Contractor)	
Begin to relocate or elevate critical equipment & supplies																												Facilities CP Operations Fire Rescue EMS State Police	
Priority Level		High	High	High	High	High	High	High	High	High	High	High	High	High	High	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Lower	Lower	18.50 ft. ≤ EL. < 19.5 ft. 48 Hours Before Flood

Table A23 - Logan International Airport - Coastal Flood Operations Plan

Task	BLD #	41	2	79	6A	11	85	15	26	43	45	68	26	65	18	4	64	3	46	64	22	19A	T18C	31	T18C	3A	74	T18E	Location	
Raise loose equipment & secure doors & openings																														Facilities
Complete relocation or elevation of critical equipment & supplies																														Facilities
																														Operations
																														CP
																														Fire Rescue
																														EMS
Priority Level		High	High	High	High	High	High	High	High	High	High	High	High	High	High	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Lower	Lower	18.50 ft. ≤ El. < 19.5 ft. 24 Hours Before Flood

Table A24 - Logan International Airport - Coastal Flood Operations Plan

Task	General Actions	Porter Street Substation	Wood Island Substation	Fire-Rescue II Station	MPA Pumping Station (New)	State Police/TSA Building	Marine Fire-Rescue	Storage Building	Large Vehicle	Air Traffic Control Tower	Boston EMS Station (Trailer)	ConRAC	Electrical/Telecom Building	Control Tower	Logan Office Center	Central Heating Plant / Facility I	Facilities III	West Outfall (Bldg.)	Facilities II	BOSFuel Ops. & Ctrl. Bldg.	West Outfall (Electrical)	Terminal C Pier B	West Baggage Room	Tunnel - Terminal C (vents)	Terminal A Main (Landside)	(Door at Cent. Gar.)	Tunnel - Terminal C	Facilities II Fuel Island	Water Shuttle Pier	CHP to Terminal E	Location	
	BLD #	41	2	79	6A	11	85	15	26	43	45	68	26	65	18	4	64	3	46	64	22	19A	T18C	31	T18C	3A	74	T18E				
Position vehicle or trailer mounted large pumps at outfalls																															Facilities	
Evacuate at risk buildings & area																															Fire Rescue	
																															CP (Safety)	
																															State Police	
Secure evacuated facility & prevent unauthorized access																															State Police	
Deploy sandbags																															Facilities	
Raise elevator cabs																															Facilities	
Inspect temporary barrier installation, evacuate, & close access																															Facilities (Term Contractor)	
Priority Level		High	High	High	High	High	High	High	High	High	High	High	High	High	High	High	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Lower	Lower	18.50 ft. ≤ El. < 19.5 ft. 12 Hours Before Flood

Task	General Actions	Porter Street Substation	Wood Island Substation	Fire-Rescue II Station	MPA Pumping Station (New)	State Police/TSA Building	Marine Fire-Rescue	Storage Building	Large Vehicle	Air Traffic Control Tower	Boston EMS Station (Trailer)	ConRAC	Electrical/Telecom Building	Control Tower	Logan Office Center	Central Heating Plant / Facility I	Facilities III	West Outfall (Bldg.)	Facilities II	BOSFuel Ops. & Ctrl. Bldg.	West Outfall (Electrical)	Terminal C Pier B	West Baggage Room	Tunnel - Terminal C (vents)	Terminal A Main (Landside)	(Door at Cent. Gar.)	Tunnel - Terminal C	Facilities II Fuel Island	Water Shuttle Pier	CHP to Terminal E	Location	
	BLD #	41	2	79	6A	11	85	15	26	43	45	68	26	65	18	4	64	3	46	64	22	19A	T18C	31	T18C	3A	74	T18E				
Order shelter in place																																Operations
Close areas & issue NOTAMs																																Operations
Install tide gates																																Facilities
Priority Level		High	High	High	High	High	High	High	High	High	High	High	High	High	High	High	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Lower	Lower	18.50 ft. ≤ El. < 19.5 ft. 6 Hours Before Flood

Task	General Actions	Porter Street Substation	Wood Island Substation	Fire-Rescue II Station	MPA Pumping Station (New)	State Police/TSA Building	Marine Fire-Rescue	Storage Building	Large Vehicle	Air Traffic Control Tower	Boston EMS Station (Trailer)	ConRAC	Electrical/Telecom Building	Control Tower	Logan Office Center	Central Heating Plant / Facility I	Facilities III	West Outfall (Bldg.)	Facilities II	BOSFuel Ops. & Ctrl. Bldg.	West Outfall (Electrical)	Terminal C Pier B	West Baggage Room	Tunnel - Terminal C (vents)	Terminal A Main (Landside)	(Door at Cent. Gar.)	Tunnel - Terminal C	Facilities II Fuel Island	Water Shuttle Pier	CHP to Terminal E	Location	
	BLD #	41	2	79	6A	11	85	15	26	43	45	68	26	65	18	4	64	3	46	64	22	19A	T18C	31	T18C	3A	74	T18E				
Redirect onsite IT & telecom																																IT
Monitor, repair & refuel emergency generators																																Facilities
Monitor fire hydrant water pressure																																Facilities
																																Fire Rescue
Priority Level		High	High	High	High	High	High	High	High	High	High	High	High	High	High	High	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Lower	Lower	18.50 ft. ≤ El. < 19.5 ft. During Flood

Table A25 - Logan International Airport - Coastal Flood Operations Plan

Task	Location																											Location			
	General Actions	Porter Street Substation	Wood Island Substation	Fire-Rescue II	MPA Pumping Station (New)	State Police Building	Marine Fire-Rescue	Storage Building	Large Vehicle Tower	Air Traffic Control Tower	Boston EMS Station (Trailer)	ConRAC	Electrical/Telecom Building	Control Tower Substation	Logan Office Center	Central Heating Plant / Facility I	Facilities III	West Outfall (Bldg.)	Facilities II	BOSFuel Ops. & Ctrl. Bldg.	West Outfall (Electrical)	Terminal C Pier B	West Baggage Room	Tunnel - Terminal C (vents)	Terminal A Main (Landside)	Tunnel - Terminal C (Door at Cent. Gar.)	Facilities II Fuel Island		Water Shuttle Pier	CHP to Terminal E	T18E
BLD #	41	2	79	6A	11	85	15	26	43	45	68	26	65	18	4	64	3	46	64	22	19A	T18C	31	T18C	3A	74	T18E				
Remove tide gates																													Facilities		
Assess runway & taxiway pavement, integrity, & lighting																													CP		
																													Facilities		
Inspect airfield areas																													Operations		
Conduct search, personnel accountability, rescue, fire fighting, & law enforcement operations as needed																													State Police		
																													Fire Rescue		
Report hazmat releases to Unified Command & recommend priorities																													Fire Rescue		
Monitor, repair & refuel emergency generators																													Facilities		
Survey for damage to structures, utilities, ACS, fire alarms & suppression; contamination, safety, saltwater intrusion																													Facilities		
																													CP		
																													Fire Rescue		
																														IT	
Advise FAA to inspect for damage																													Operations		
Report damages to senior staff																													Facilities		
																													CP		
																													IT		
																													Operations		
																													Fire Rescue		
																														EMS	
																														State Police	
Compile tracking list of damages and priority repairs to Unified Command																													Facilities		
																													CP		
																													IT		
																													Operations		
																													Fire Rescue		
Implement debris collection, storage & disposal plan																													State Police		
Remove standing water from airfield																													Facilities		
																													Operaitons		
Remove water from tunnels, crawl spaces, bag rooms, elevator & escalator pits																													Facilities		
Priority Level		High	High	High	High	High	High	High	High	High	High	High	High	High	High	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Lower	Lower	18.50 ft. ≤ El. < 19.5 ft. 0-12 Hours After Flood

Table A26 - Logan International Airport - Coastal Flood Operations Plan

Task	General Actions	Porter Street Substation	Wood Island Substation	Fire-Rescue II Station	MPA Pumping Station (New)	State Police Building	Marine Fire-Rescue	Storage Building	Large Vehicle Tower	Air Traffic Control Tower	Boston EMS Station (Trailer)	ConRAC	Logan Office Center	Central Heating Plant / Facility I	Facilities III	West Outfall (Bldg.)	Facilities II	BOSFuel Ops. & Ctrl. Bldg.	West Outfall (Electrical)	Terminal C Pier B	West Baggage Room	Tunnel - Terminal C (vents)	Terminal C (Landside)	(Door at Cent. Gar.)	Tunnel - Terminal Island	Facilities II Fuel	Water Shuttle Pier	CHP to Terminal E	Location		
BLD #		41		2	79	6A	11	85	15	26	43	45	6B	26	65	18	4	64	3	46	64	22	19A	T18C	31	T18C	3A	74	T18E		
Clean and sanitize public areas; test for contamination																														Facilities	
Remove sandbags & store with debris for disposal																														Facilities	
Return portable pumps to stockroom																														Facilities (Term Contractor)	
Clean and return barriers and portable pumps to storage areas																														Facilities (Term Contractor)	
Provide project management & resident engineering support																														CP	
Repair ACS & security monitoring systems																														IT	
Restore IT systems																														IT Facilities	
Reopen areas & issue NOTAMs																														Operations	
Test telephones, alerting systems, vehicle radios, dispatch equipment, personal radios																														Facilities	
																														IT	
																														State Police	
																														Operations	
																															EMS Fire Rescue
Provide physical surveillance & access control for airside																														State Police	
Search & clear secure areas																														State Police Operations	
Implement emergency repairs																														Facilities	
Priority Level		High	High	High	High	High	High	High	High	High	High	High	High	High	High	High	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Lower	Lower	18.50 ft. ≤ El. < 19.5 ft. 12+ Hours After Flood

APPENDIX B

LOGAN AIRPORT AREAS AT RISK OF FLOODING

TABLES B1 TO B4

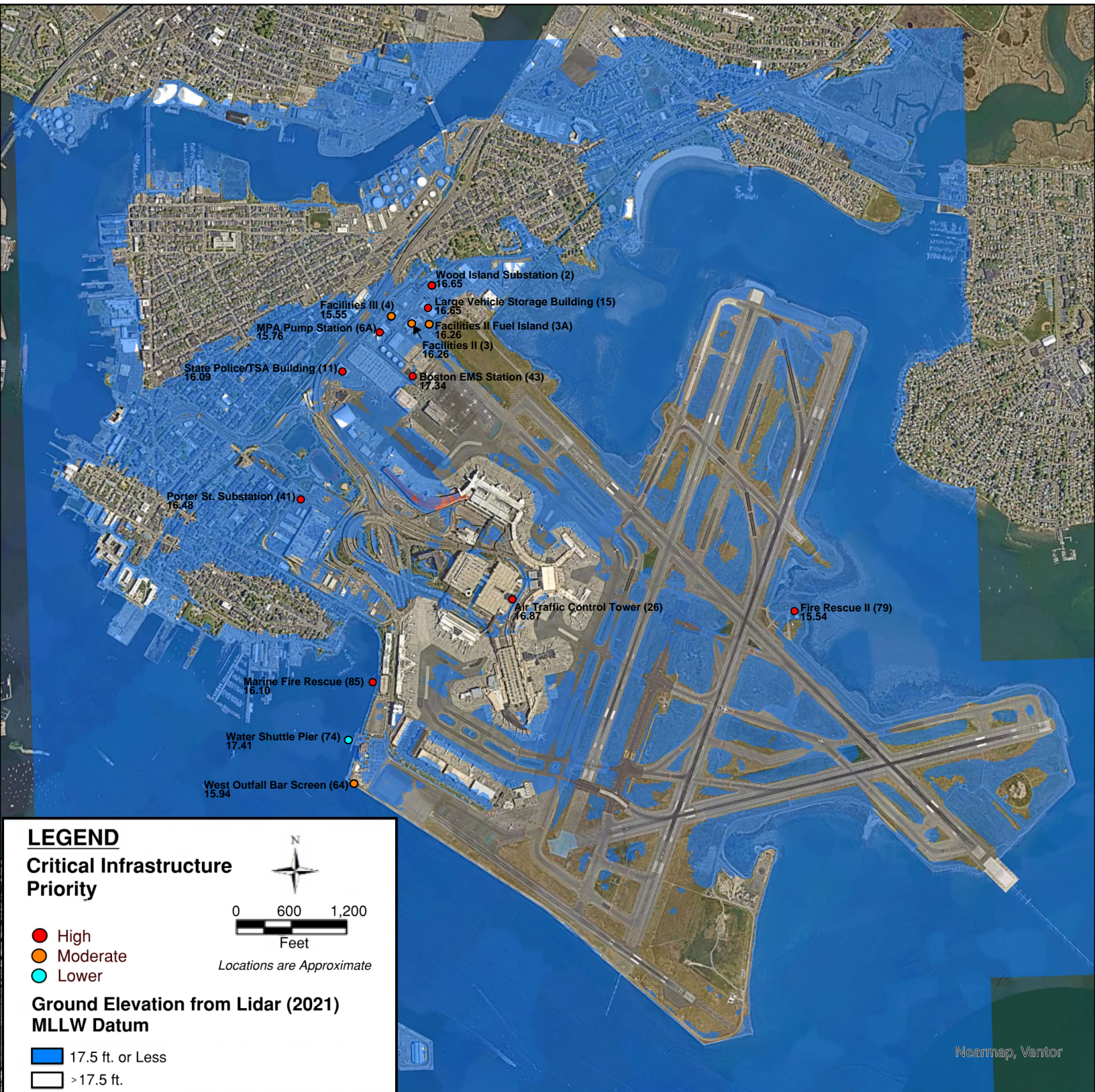
Appendix B

Figure B1 - Logan Airport Areas at Risk of Flooding Below 16.5 MLLW



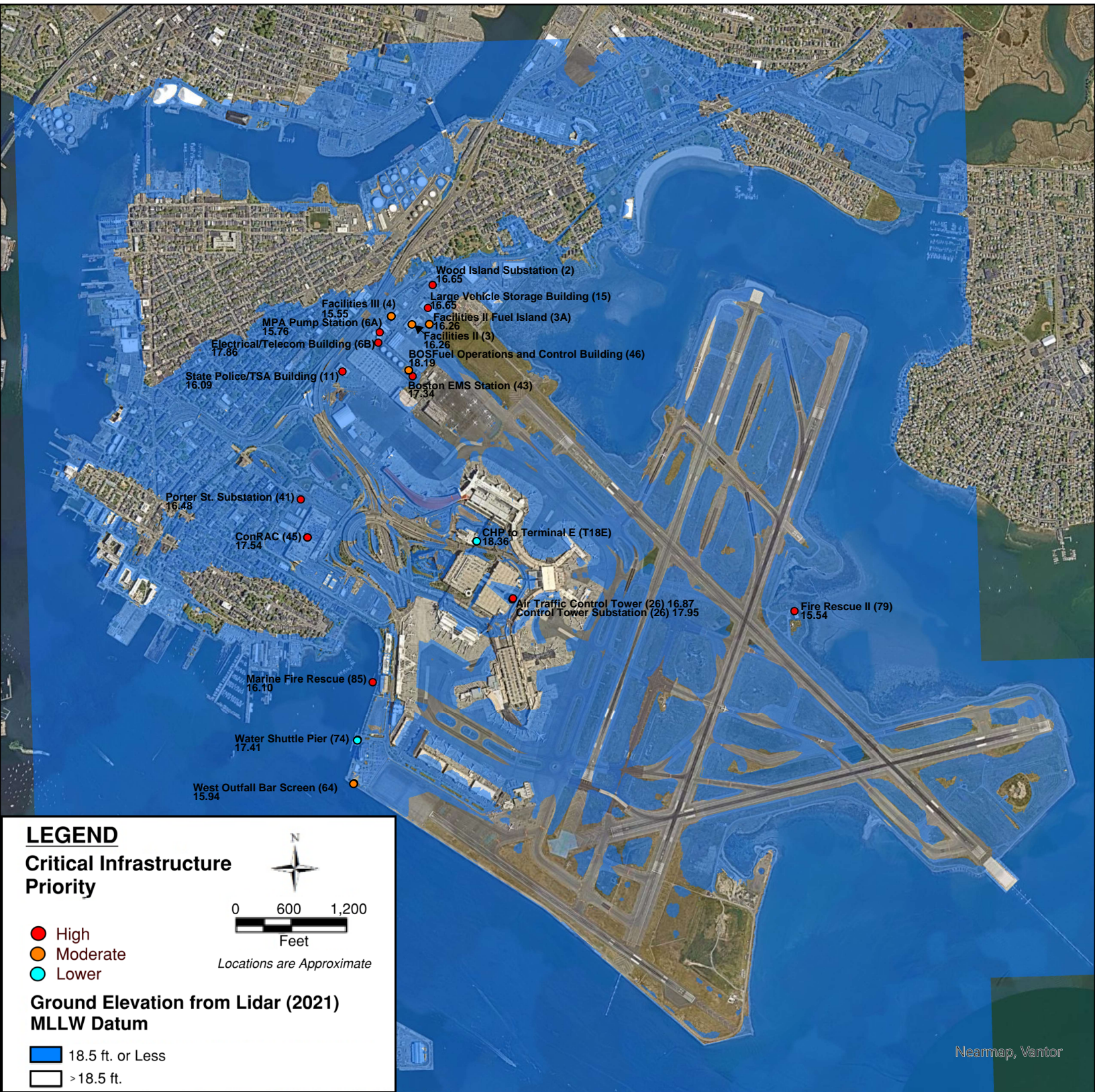
Appendix B

Figure B2 - Logan Airport Areas at Risk of Flooding Below 17.5 MLLW



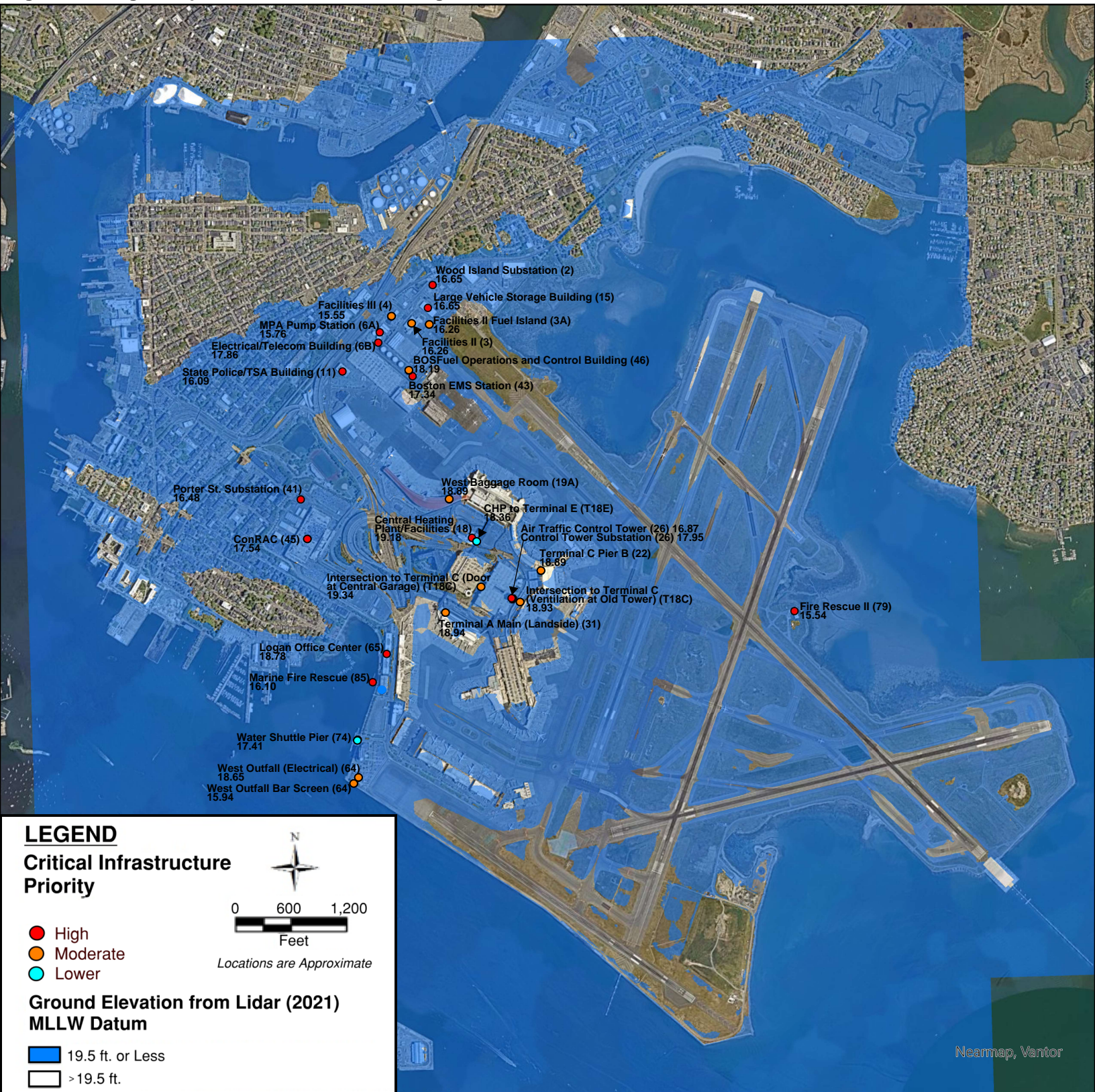
Appendix B

Figure B3 - Logan Airport Areas at Risk of Flooding Below 18.5 MLLW



Appendix B

Figure B4 - Logan Airport Areas at Risk of Flooding Below 19.5 MLLW



APPENDIX C

FLOOD EQUIPMENT INVENTORY AND INSTALLMENT PLANS

FIGURES C1 TO C7

C2 - FLOOD EQUIPMENT INVENTORY & INSTALLATION PLAN: STATE POLICE-TSA BUILDING (11)

Last Updated: August 22, 2019

Address: 2 Service Rd, Boston, MA 02128



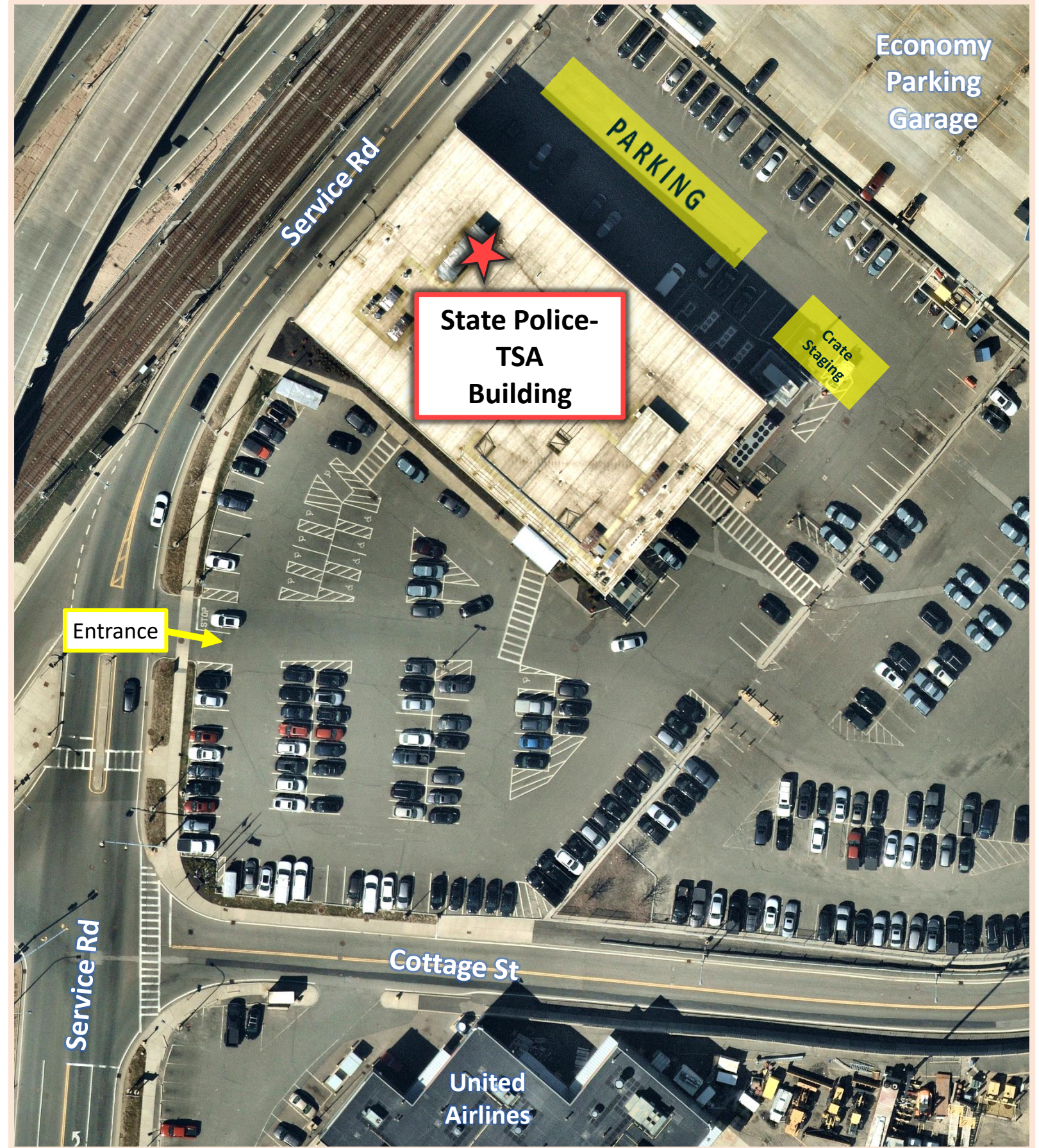
Elevation: 16.09 ft (MLLW*)

Priority: High

Estimated Deployment Time**: 14.25 hours

Flood Resiliency Inventory

Quantity	Type
14	Short Crate (~7'x4'x4') containing flood barriers
1	Portable crossover stair
1	Catch basin enclosure
2	3" trash pumps
2	3" suction hoses
2	3" discharge hoses
2	3" screens
2	5-gallon metal gasoline cans
TBD	"Go-Box" containing items such as anchor bolts, drill bit sockets, expanding foam, foam gasket material, replacement caps, chains and locks, specialty drill bits, extra nuts and bolts, etc.



*To convert MLLW to NAVD88, subtract 5.5.

**Assuming 4 person crew @ 60 LF per hr



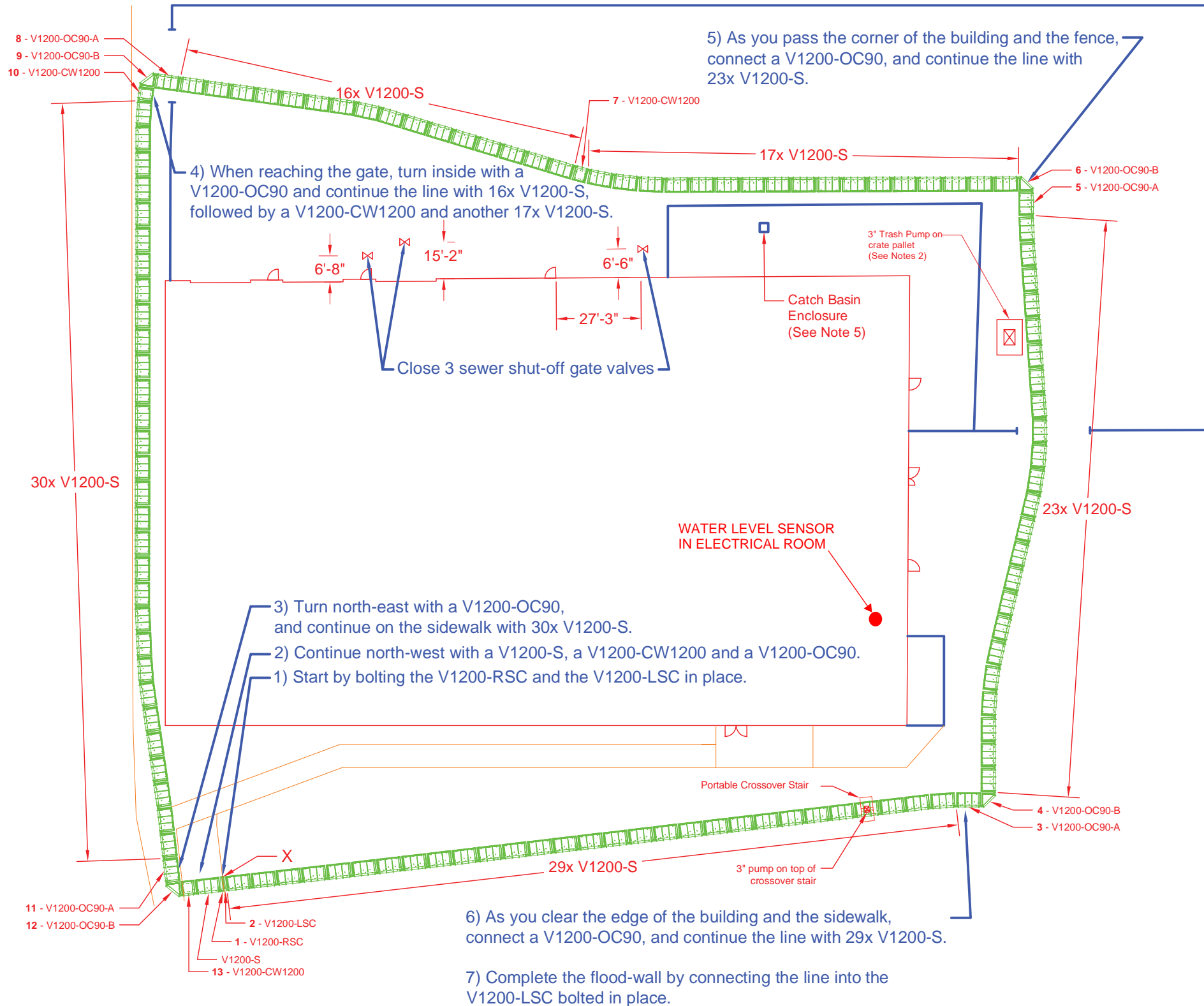
Trash Pumps



Catch Basin Enclosure



Crossover Stair



X
 1/2 inch bolted curb-climbing solution.
 Each bolt having a 500 LBS load requirement.
 3x bolts horizontally on each wall-connector.

V1200-S	
V1200-RSC	
V1200-LSC	
V1200-OC90-A	
V1200-OC90-B	
V1200-CW1200 (Width 3'-11")	

- Notes:
- Building perimeter
 - AquaFence
 - Fencing
 - Sidewalk/curb/walkway
- NOTES**

1. AquaFence panels and hardware stored in wooden crates at LOC Garage. Install anchors at all preset anchor locations.
2. Trash pumps, hoses, and screens stored at BU Building. Deliver 2 - 3" trash pumps, 2 - 3" suction hoses, 2 - 3" discharge hoses, and 2 - 3" screens. Locate pumps as shown on drawing. Mount on empty crate pallet.
3. Portable crossover stair stored at LOC Garage.
4. Catch basin enclosure stored at LOC Garage. Bolt 2 half-panels together and nail down to asphalt pavement with 3/8" spikes.
5. Close 3 sewer shut-off valves as shown on drawing when instructed to do so.

REV:	DESCRIPTION:	BY:	DATE:
STATUS:	FINAL - APPROVED		
AquaFence www.aquafence.com			
CLIENT:	MASSPORT		
ARCHITECT:	KLEINFELDER		
SITE:	STATE POLICE - TSA BUILDING (11)		
TITLE:	FLOOD BARRIER DEPLOYMENT PLAN		
SCALE AT A1:	DATE:	DRAWN:	CHECKED:
1:200	03/01/2016	MD	MD
PROJECT NO:	DRAWING NO:	REVISION:	
03	v4.121015	v4	

C3 - FLOOD EQUIPMENT INVENTORY & INSTALLATION PLAN: MPA PUMPING STATION- NEW (6A) & ELECTRICAL/TELECOM BLDG (6B)

Last Updated: August 19, 2019

Address: 190 Prescott St, Boston, MA 02128

DRAWING BEING REVISED

6A



Elevation: 15.76 ft (MLLW*)

Priority: High

Est. Deployment Time**: 0.5 hours

Flood Resiliency Inventory

Quantity	Type
1	Long Crate (~10'x2'x4') containing flood barrier fence panels
TBD	Go-Box containing items such as anchor bolts, drill bit sockets, expanding foam, foam gasket material, replacement caps, chains and locks, specialty drill bits, extra nuts and bolts, etc.

6B



Elevation: 17.86 ft (MLLW*)

Priority: High

Est. Deployment Time**: 3 hours

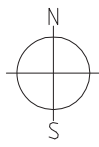
Flood Resiliency Inventory

Quantity	Type
3	Short Crate (~7'x4'x4') containing flood barriers
1	Portable crossover stair
1	2" trash pump
1	2" suction hose
1	2" discharge hose
1	2" screen
1	5-gallon metal gasoline can
TBD	Go-Box containing items such as anchor bolts, drill bit sockets, expanding foam, foam gasket material, replacement caps, chains and locks, specialty drill bits, extra nuts and bolts, etc.



*To convert MLLW to NAVD88, subtract 5.5.

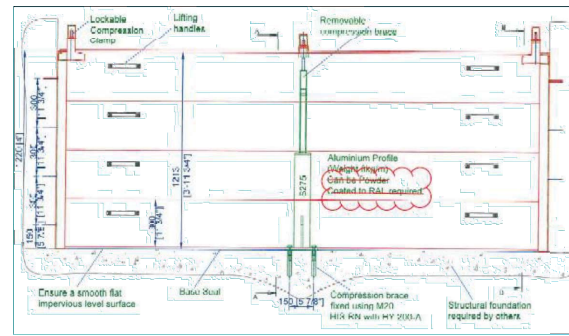
**Assuming 4 person crew @ 60 LF per hr and approximately 30 min installation time for metal panels



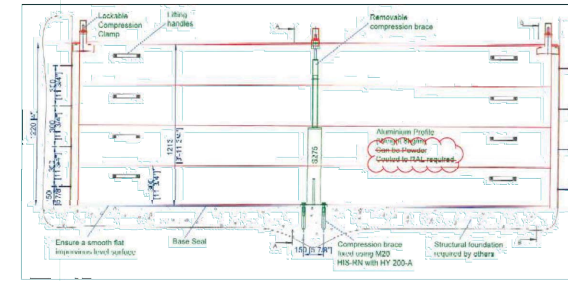
INSTALL FLOOD BARRIER CENTER POST AND PLANKS AT NORTH DOOR



Crossover Stair



NORTH DOOR



SOUTH DOOR

- Notes:
- Building perimeter
 - AquaFence
 - Wall-adapter/crates

NOTES

1. Flood barrier posts, anchor bolts, panels, and hardware are stored in wooden box at LOC Garage labeled "Logan Airport MPA Pump Station".
2. Aquafence panels and hardware stored in wooden crates at LOC Garage. Install anchors at all preset anchor locations.
3. Trash pump, hoses, and screen stored in wooden box at BU Building. Deliver 1 - 3" trash pump, 1 - 3" suction hose, 1 - 3" discharge hose, and 1 - 3" screen. Locate pumps as shown on drawing.
4. Portable crossover stair stored at LOC Garage.

DRAWING BEING REVISED



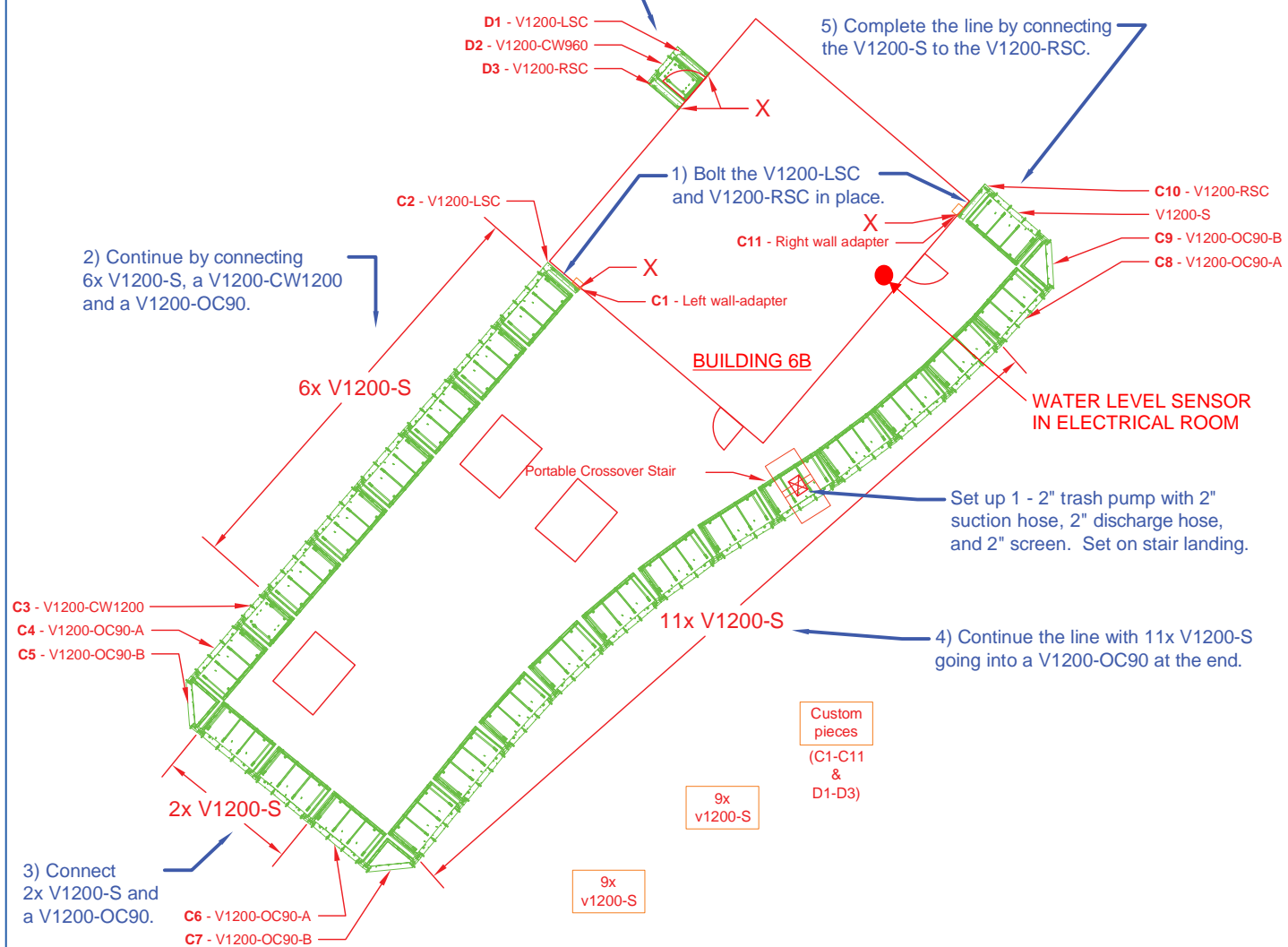
Trash Pumps

- 1) Bolt the V1200-LSC in place.
- 2) Connect the V1200-CW960 to the V1200-LSC, and the V1200-RSC.
- 3) Bolt the V1200-RSC in place.

X
 1/2 inch bolted wall connections. Each bolt having a 500 LBS load requirement. 3x bolts vertically and 3x horizontally on each wall-connector.

V1200-CW1200 (Width 3'-11")	
V1200-CW1000 (Width 3'-3")	
V1200-CW960 (Width 3'-2")	
V1200-CW400 (Width 1'-4")	
Left wall adapter	

V1200-S	
V1200-RSC	
V1200-LSC	
V1200-OC90-A	
V1200-OC90-B	
Right wall adapter	



REV:	DESCRIPTION:	BY:	DATE:
STATUS: FINAL - APPROVED			



CLIENT: MASSPORT

ARCHITECT: KLEINFELDER

SITE: MPA PUMPING STATION 6A/6B ELECTRICAL BUILDING & TRANSF

TITLE: FLOOD BARRIER DEPLOYMENT PLAN

SCALE AT A1:	DATE:	DRAWN:	CHECKED:
1:100	03/01/2016	MD	MD
PROJECT NO:	DRAWING NO:	REVISION:	
04	v4.121015	v4	

C4 - FLOOD EQUIPMENT INVENTORY & INSTALLATION PLAN: WOOD ISLAND SUBSTATION (2)

Last Updated: August 19, 2019

Address: 16 Lovell St, Boston, MA 02128



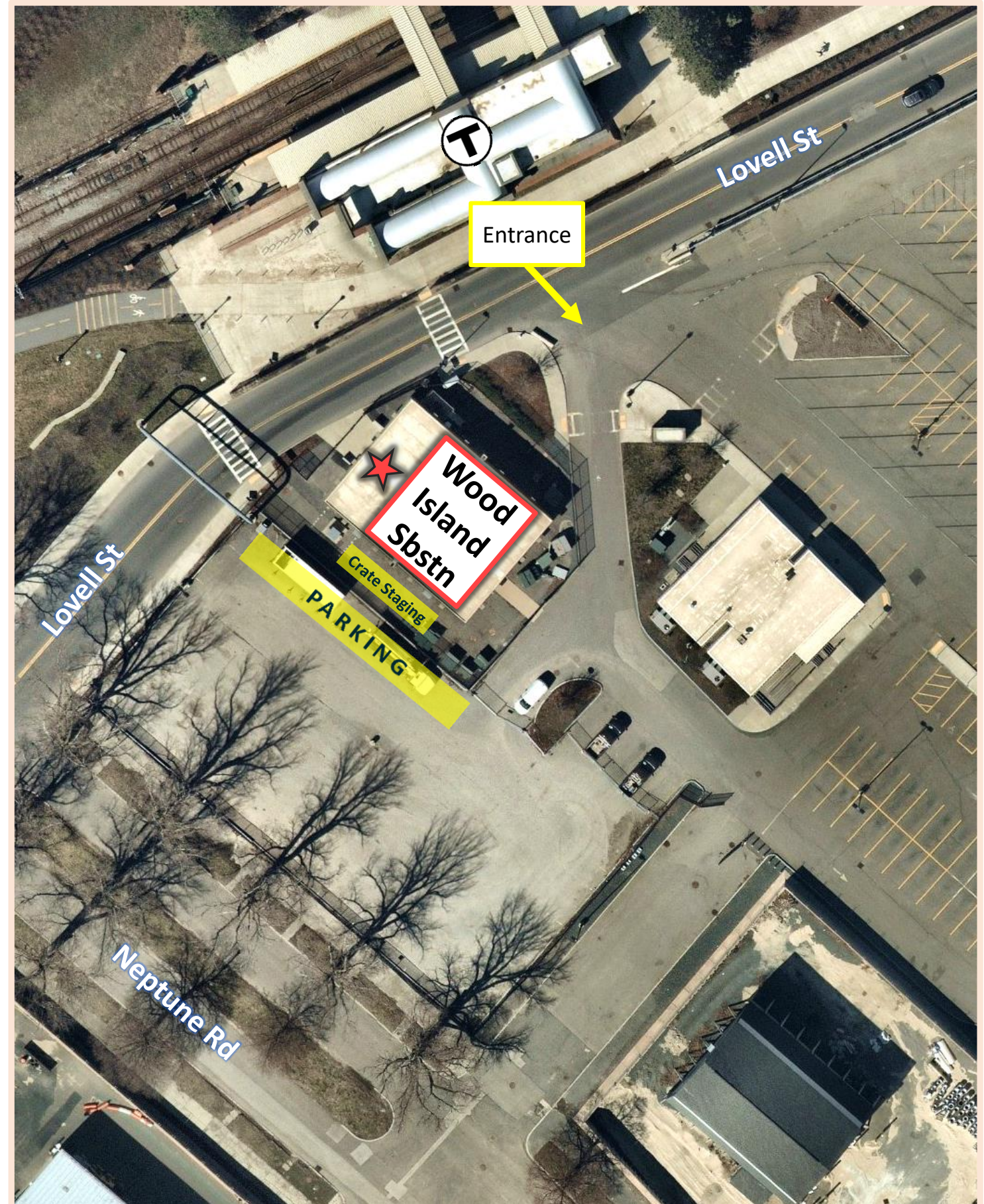
Elevation: 16.65 ft (MLLW*)

Priority: High

Estimated Deployment Time:** 1.33 hours

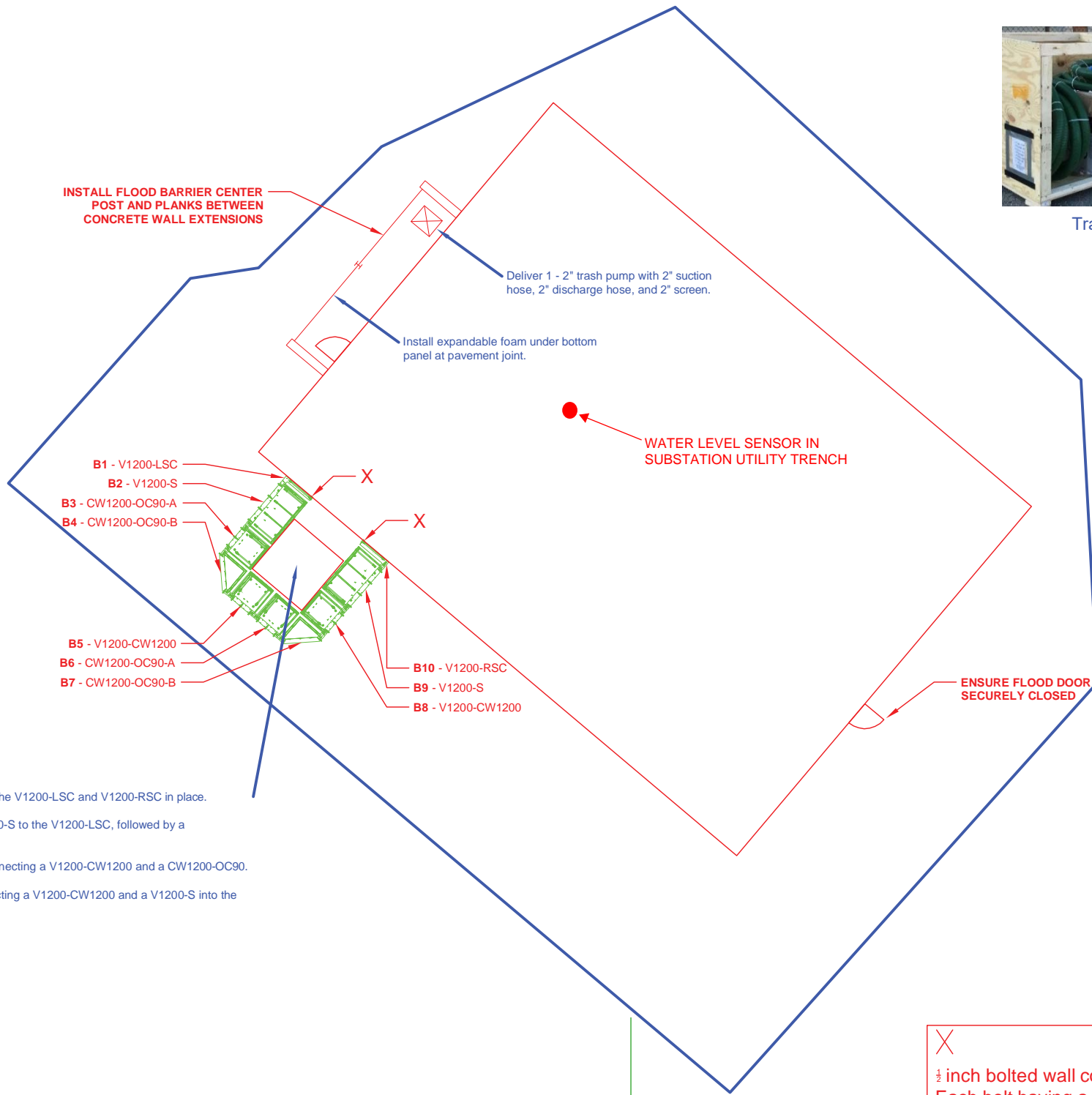
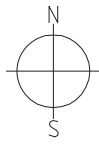
Flood Resiliency Inventory

Quantity	Type
1	Short Crate (~7'x4'x4') containing flood barriers
1	Long Crate (~10'x2'x4') containing flood barrier fence panels
1	2" trash pump
1	2" suction hose
1	2" discharge hose
1	2" screen
1	5-gallon metal gasoline can
TBD	Go-Box containing items such as anchor bolts, drill bit sockets, expanding foam, foam gasket material, replacement caps, chains and locks, specialty drill bits, extra nuts and bolts, etc.



*To convert MLLW to NAVD88, subtract 5.5.

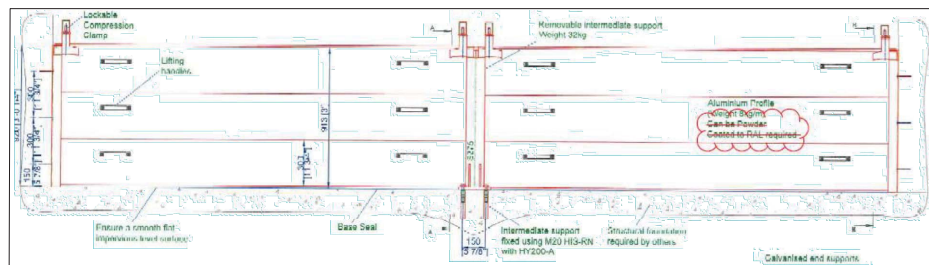
**Assuming 4 person crew @ 60 LF per hr and approximately 30 min installation time for metal panels



Trash Pumps

- 1) Start by bolting the V1200-LSC and V1200-RSC in place.
- 2) Connect a V1200-S to the V1200-LSC, followed by a CW1200-OC90.
- 3) Continue by connecting a V1200-CW1200 and a CW1200-OC90.
- 4) Finish by connecting a V1200-CW1200 and a V1200-S into the V1200-RSC.

X
 1/2 inch bolted wall connections.
 Each bolt having a 500 LBS load requirement.
 3x bolts vertically and 3x horizontally on each wall-connector.



North Door

V1200-S	
V1200-RSC	
V1200-LSC	
V1200-OC90-A	
CW1200-OC90-A (Width 3'-11")	
V1200-OC90-B CW1200-OC90-B	
V1200-CW1200 (Width 3'-11")	

Notes:

- Building perimeter
- AquaFence
- Fencing

NOTES

1. Flood barrier posts, anchor bolts, panels, and hardware are stored in wooden box at LOC Garage labeled "Logan Airport Wood Island Flood Barriers".
2. Aquafence panels and hardware stored in wooden crates at LOC Garage. Install anchors at all preset anchor locations.
3. Trash pump, hoses, and screen stored in wooden box at BU Building. Deliver 1 - 3" trash pump, 1 - 3" suction hose, 1 - 3" discharge hose, and 1 - 3" screen. Locate pumps as shown on drawing.

REV:	DESCRIPTION:	BY:	DATE:
STATUS: FINAL - APPROVED			

AquaFence
www.aquafence.com

CLIENT: MASSPORT

ARCHITECT: KLEINFELDER

SITE: WOOD ISLAND SUBSTATION (2)

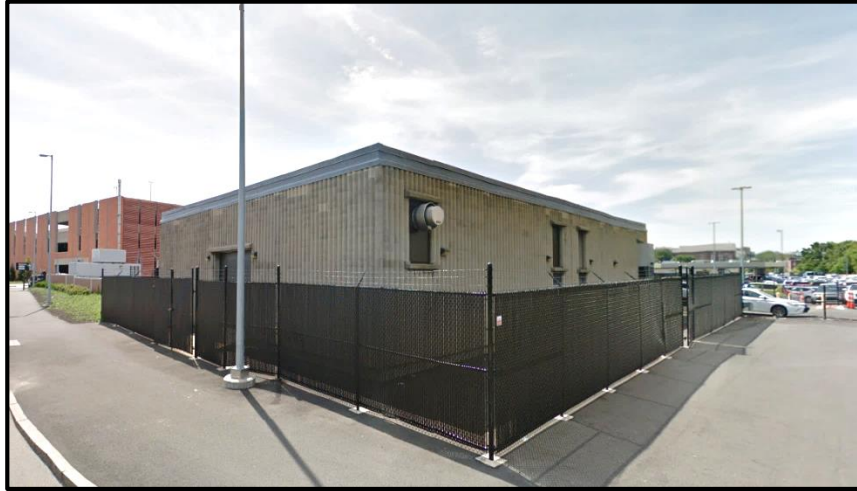
TITLE: FLOOD BARRIER DEPLOYMENT PLAN

SCALE AT A1:	DATE:	DRAWN:	CHECKED:
1:100	03/01/16	MD	MD
PROJECT NO:	DRAWING NO:	REVISION:	
02	v4.121015	v4	

C5 - FLOOD EQUIPMENT INVENTORY & INSTALLATION PLAN: PORTER STREET SUBSTATION (41)

Last Updated: June 25, 2018

Address: 225 Porter St, Boston, MA 02128



Elevation: 16.48 ft (MLLW*)

Priority: High

Estimated Deployment Time**: 0.5 hours

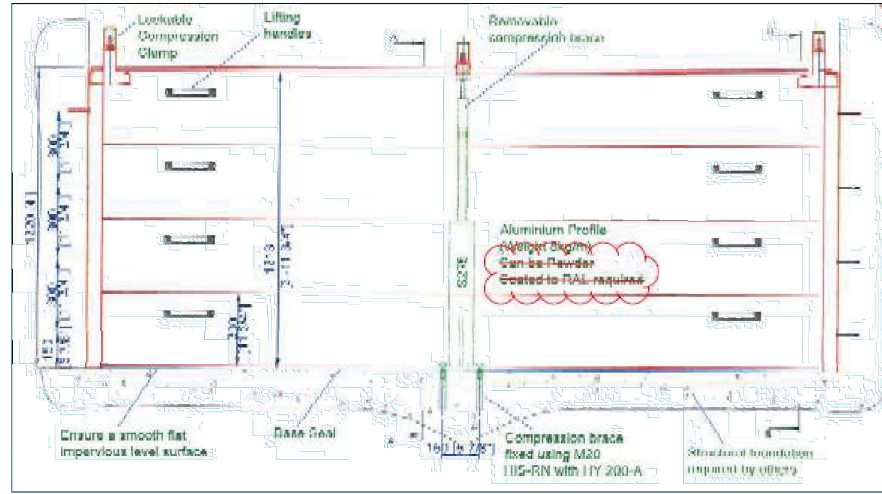
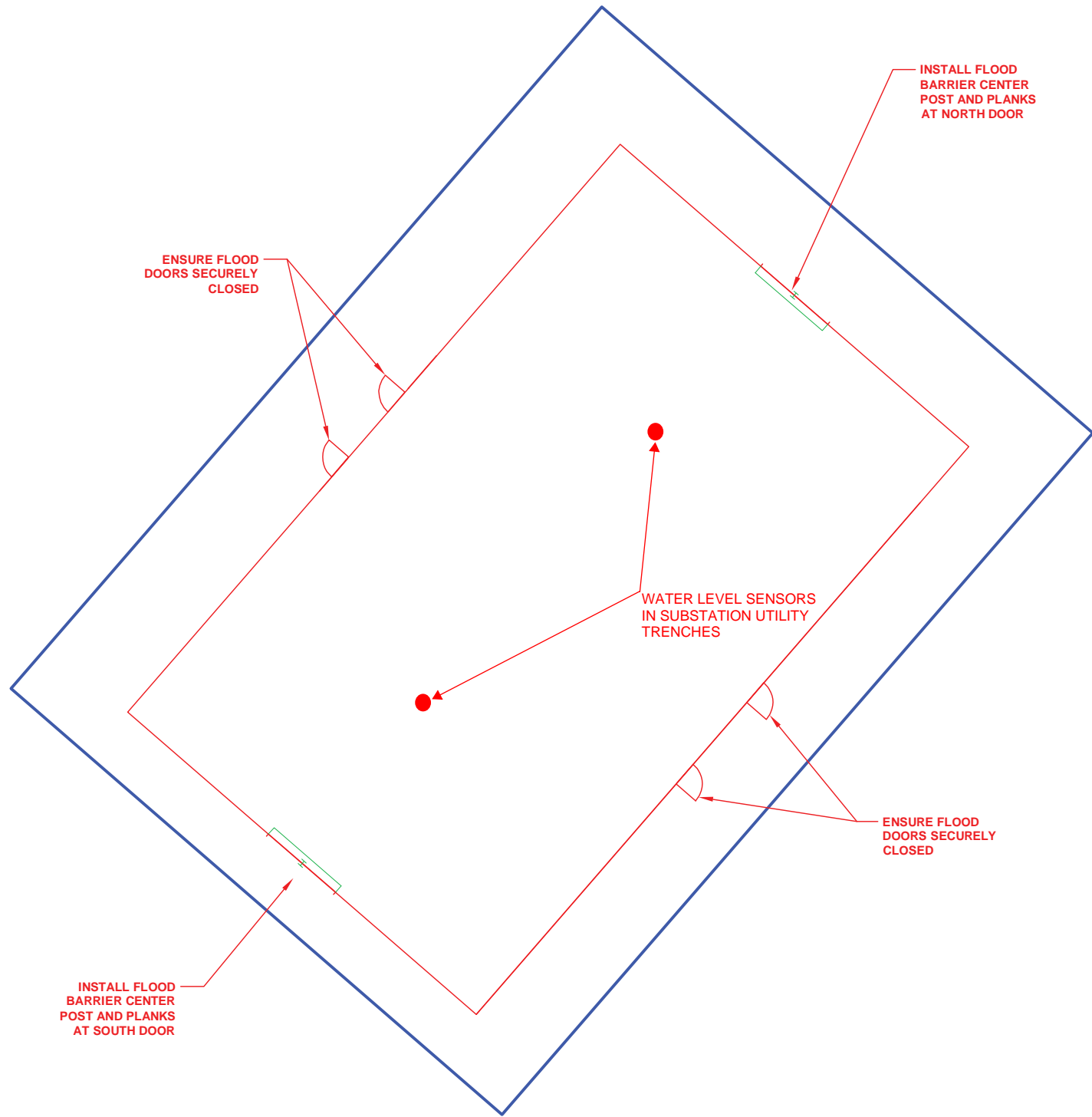
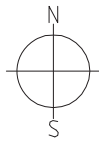
Flood Resiliency Inventory

Quantity	Type
1	Long Crate (~10'x2'x4') containing flood barrier fence panels
TBD	Go-Box containing items such as anchor bolts, drill bit sockets, expanding foam, foam gasket material, replacement caps, chains and locks, specialty drill bits, extra nuts and bolts, etc.

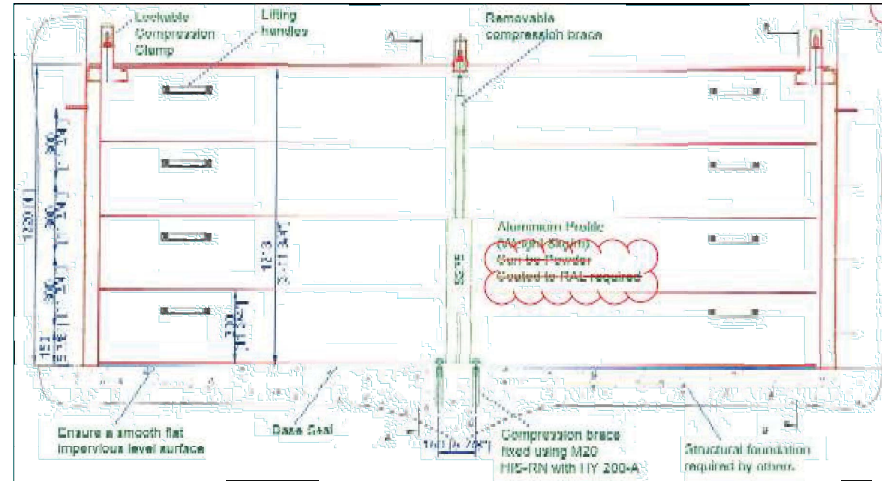


*To convert MLLW to NAVD88, subtract 5.5.

**Assuming approximately 30 min installation time for metal panels



NORTH DOOR



SOUTH DOOR

NOTES

1. Flood barrier posts, anchor bolts, panels, and hardware are stored in wooden box at LOC Garage labeled "Logan Airport Porter Street Flood Barriers".

REV:	DESCRIPTION:	BY:	DATE:
STATUS: FINAL - APPROVED			



CLIENT: MASSPORT

ARCHITECT: KLEINFELDER

SITE: PORTER STREET SUBSTATION (41)

TITLE: FLOOD BARRIER DEPLOYMENT PLAN

SCALE AT A1:	DATE:	DRAWN:	CHECKED:
1:100	03/01/16	MD	MD
PROJECT NO:	DRAWING NO:	REVISION:	
01	v4.121015	v4	

C6 - FLOOD EQUIPMENT INVENTORY & INSTALLATION PLAN: FACILITIES III (4)

Last Updated: August 19, 2019

Address: 11 Lovell St, Boston, MA 02128



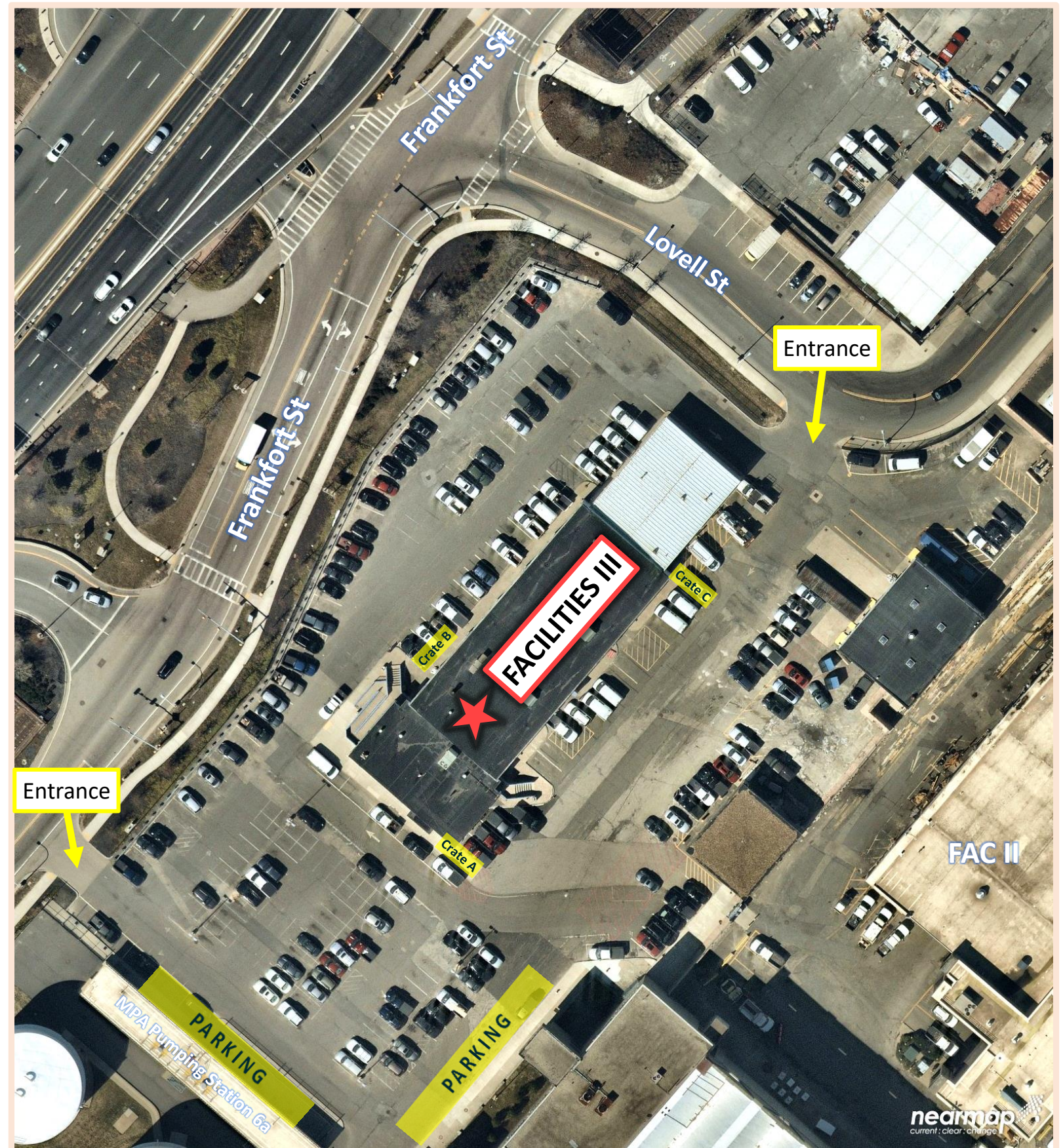
Elevation: 15.55 ft (MLLW*)

Priority: Moderate

Estimated Deployment Time**: 2.4 hours

Flood Resiliency Inventory

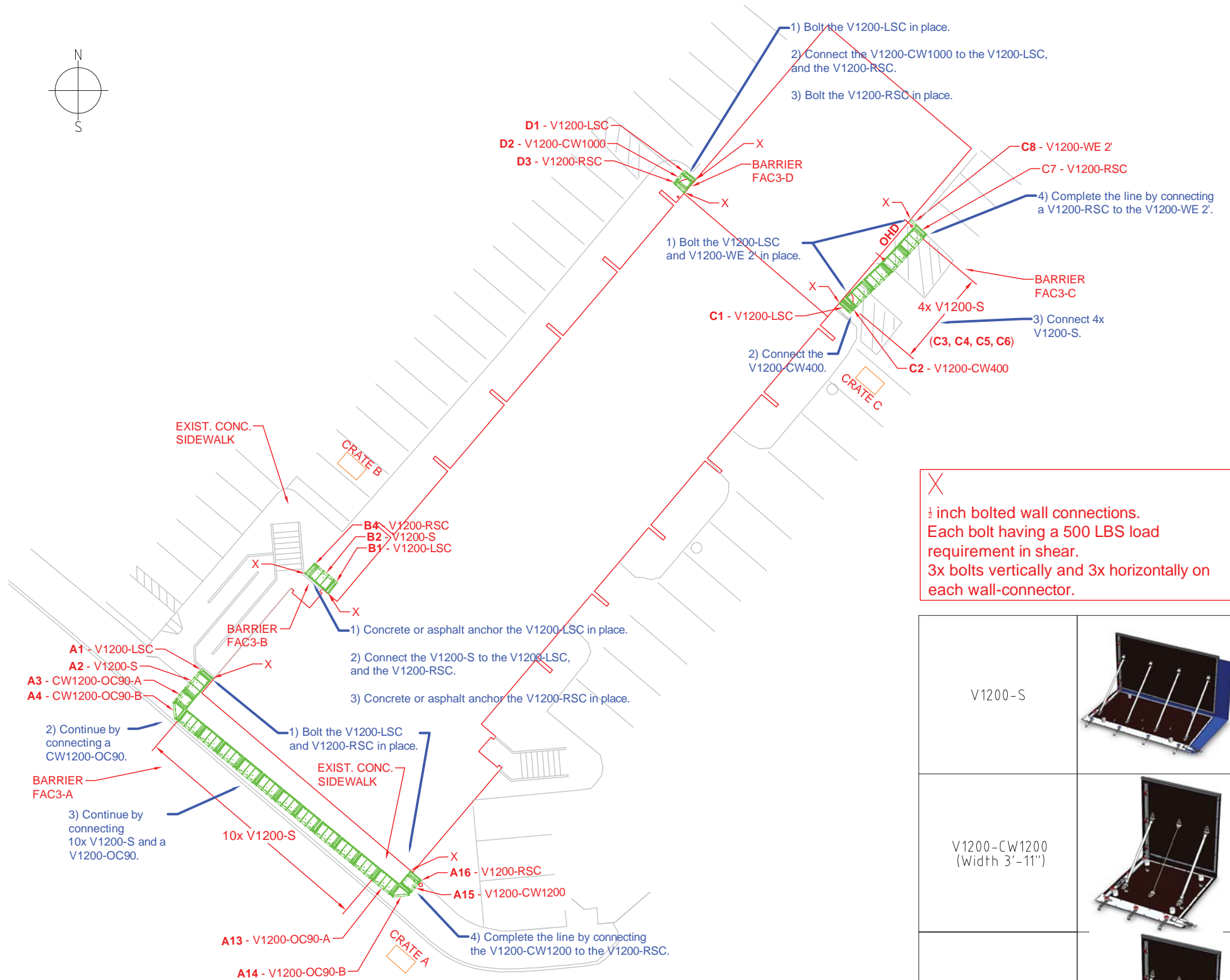
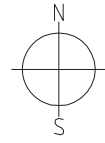
Quantity	Type
3	Short Crate (~7'x4'x4') containing flood barriers
TBD	Go-Box containing items such as anchor bolts, drill bit sockets, expanding foam, foam gasket material, replacement caps, chains and locks, specialty drill bits, extra nuts and bolts, etc.



Questions? Contact Peter DeBruin (cell: 617-593-0026, office: 617-568-3583, pdebruin@massport.com) or Lauren Laskey (cell: 617-455-9300, office: 617-568-3542, llaskey@massport.com)

*To convert MLLW to NAVD88, subtract 5.5.

**Assuming 4 person crew @ 60 LF per hr



X
 1/2 inch bolted wall connections.
 Each bolt having a 500 LBS load requirement in shear.
 3x bolts vertically and 3x horizontally on each wall-connector.

ANCHOR SCHEDULE	
CONCRETE ANCHOR	107 EA
ASPHALT PAVEMENT ANCHOR	29 EA

- Notes:
- Building perimeter
 - AquaFence
 - Crates

NOTES

- Aquafence panels and hardware stored in wooden crates at LOC Garage. Install anchors at all preset anchor locations.

V1200-WE 2'	
V1200-RSC	
V1200-S	
V1200-LSC	
V1200-CW1200 (Width 3'-11")	
V1200-CW1000 (Width 3'-3")	
V1200-CW400 (Width 1'-4")	
V1200-OC90-A	
V1200-OC90-B CW1200-OC90-B	
CW1200-OC90-A (Width 3'-11")	

REV:	DESCRIPTION:	BY:	2/6/17
STATUS:	ISSUED FCN 8		



CLIENT: MASSPORT

ARCHITECT: KLEINFELDER

SITE: FACILITIES III

TITLE: FLOOD BARRIER DEPLOYMENT PLAN

SCALE AT A1:	DATE:	DRAWN:	CHECKED:
1:200	02/06/2017	JDH	NCB
PROJECT NO:	DRAWING NO:	REVISION:	
A310-C1	FCN8-1	v1	

C7 - FLOOD EQUIPMENT INVENTORY & INSTALLATION PLAN: FACILITIES II FUEL ISLAND

Last Updated: June 25, 2018

Address: 204 Prescott St, Boston, MA 02128

(Airside entrance through North Gate)



Elevation: 16.26 ft (MLLW*)

Priority: Moderate

Estimated Deployment Time:** 1.13 hours

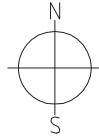
Flood Resiliency Inventory

Quantity	Type
1	Short Crate (~7'x4'x4') containing flood barriers
TBD	Go-Box containing items such as anchor bolts, drill bit sockets, expanding foam, foam gasket material, replacement caps, chains and locks, specialty drill bits, extra nuts and bolts, etc.



*To convert MLLW to NAVD88, subtract 5.5.

**Assuming 4 person crew @ 60 LF per hr



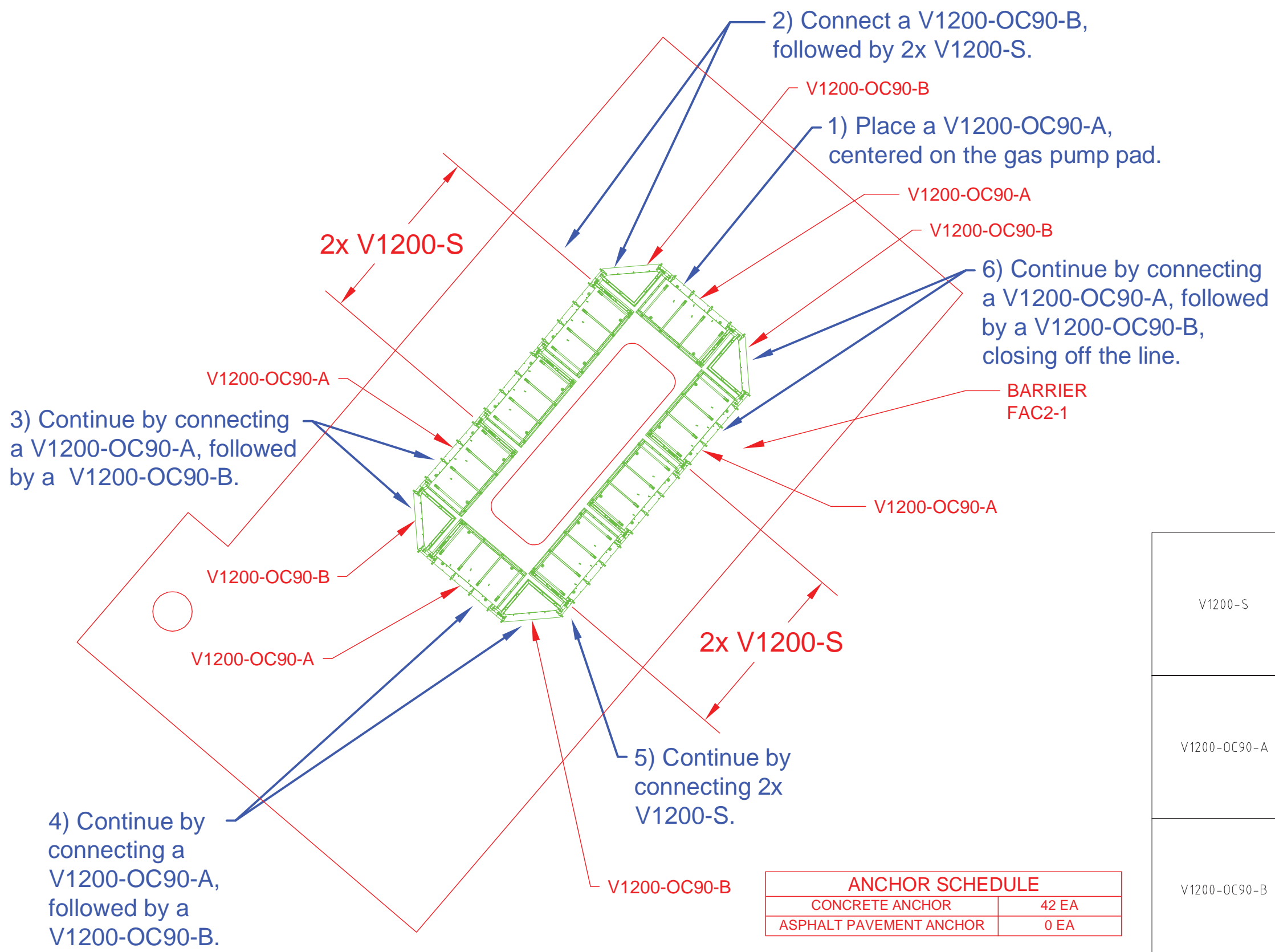
Notes:

- Gas Pump Pad
- AquaFence

1. Barrier FAC2-1 is anchored using $\frac{1}{2}$ " dia. concrete anchors.

NOTES

1. Aquafence panels and hardware stored in wooden crates at LOC Garage. Install anchors at all preset anchor locations.



ANCHOR SCHEDULE	
CONCRETE ANCHOR	42 EA
ASPHALT PAVEMENT ANCHOR	0 EA



REV:	DESCRIPTION:	BY:	2/6/17
STATUS:	ISSUED FCN 8		
CLIENT:	MASSPORT		
ARCHITECT:	KLEINFELDER		
SITE:	FACILITIES II FUEL ISLAND		
TITLE:	FLOOD BARRIER DEPLOYMENT PLAN		
SCALE AT A1:	DATE:	DRAWN:	CHECKED:
1:50	2/6/17	JDH	NCB
PROJECT NO:	DRAWING NO:	REVISION:	
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