# **Charing Cross**

1501 Commonwealth Avenue Boston, MA



# **Project Notification Form**

Submitted Pursuant to Article 80 of the Boston Zoning Code

Submitted to:

Boston Redevelopment Authority One City Hall Square Boston, Massachusetts 02201

by:

The Brighton Partnership for Community Reinvestment, LLC 288 Newbury Street, Suite 308
Boston, MA 02115

23 February 2012

# The Brighton Partnership for Community Reinvestment, LLC

a Joint Venture of

# Diamond Sinacori, LLC & Hart Development Associates 437 Columbus Avenue Boston, Massachusetts 02116 617-369-5650 (tel) · 617-369-5652 (fax) www.believeinbrighton.com

February 21, 2012

Peter Meade, Director Boston Redevelopment Authority One City Hall Square Boston, MA 02201-1007

Re:

Project Notification Form

1501 Commonwealth Avenue - 'Charing Cross'

Dear Mr. Meade:

Pursuant to Article 80 of the Zoning Code of the City of Boston, we are submitting this Project Notification Form in connection with the proposed redevelopment of the former Provident Nursing Home, 1501 Commonwealth Avenue in Brighton, into a mixed-income residential complex with accessory parking.

The property is a gateway site, and it presents a unique opportunity to provide market rate and much needed affordable housing for the City. *Charing Cross* promises to be one of the best new buildings in this part of the City in the past half century, and will complement the best of Commonwealth Avenue's historic fabric.

The proposed project will contain approximately 65,000 gross square feet, 55 residential condominium units, and will include a residential parking garage. The Community Benefits package includes, among other things, streetscape improvements on Commonwealth Avenue, a donation to beautify adjacent Ringer Park, the enhancement of the computer center at the nearby Commonwealth housing development, and the creation of both construction and property management apprenticeship programs for area youths.

The Project will exceed the City's affordable housing requirements, and will require zoning relief.

We look forward to working with you and the BRA staff on this very exciting project.

Sincerely,

DR Hart

Daniel R. Hart For the Brighton Partnership for Community Reinvestment, LLC

cc: Heather Campisano, BRA
Lance Campbell, BRA
Evelyn Friedman, DND
John Feuerbach, DND
Merrill Diamond, BPCR
Nicholas Sinacori, BPCR

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#### 1.0 GENERAL INFORMATION

#### 1.1 Introduction

The Brighton Partnership for Community Reinvestment, a joint venture of Diamond Sinacori, LLC and Hart Development Associates, is proposing to redevelop the former Provident Nursing Home located at 1501 Commonwealth Avenue in the Brighton section of Boston, MA, into *Charing Cross*, a 55 unit, mixed-income residential complex with accessory parking. The project will include both market rate condominiums (37) and income-restricted condominiums (18). As such, presents a unique opportunity to provide much needed new housing units for this part of the City of Boston.

This property is located on a highly visible site near the crest of a hill that affords skyline views of Boston and the surrounding area. This location, on the north side of Commonwealth Avenue along the 1500 block, is an eclectic mix of uses and building typologies. Located in a grouping of non-residential, institutional structures, *Charing Cross* is flanked by the Evergreen Institute to the South and Brighton Marine to the North. An MBTA stop is located directly across the street from the project.

Charing Cross will be a 4-story building that will contain approximately 65,000 gross square feet. It will also include a parking garage for approximately 55 vehicles for residential use. Designed in the English Jacobean style that typifies the best of the historic architectural fabric of this section of Commonwealth Avenue, this signature building will be a unique and contextual piece of architecture of a type not constructed in the greater Boston area for the past seventy years.

The Community Benefits package that accompanied the successful RFP Response encompasses streetscape improvements on Commonwealth Avenue, improvements to adjacent Ringer Park, and other types of benefits for the host community. In addition, the developers have committed to creating an Apprenticeship program for both the construction and the property management of *Charing Cross*.

#### 1.2 Development Team

The Brighton Partnership for Community Reinvestment ("BPCR") has assembled a development team of firms and individuals that have demonstrated, over almost three decades, the technical and financial ability to complete a project of this type.

The following are the key members of our team, accompanied by some general information that speaks directly to our experience and capacity to develop an affordable, mixed-income condominium development.

#### **CO-DEVELOPERS:**

# Diamond Sinacori, LLC

Diamond/Sinacori is the successor firm to Parencorp, a real estate development firm founded in 1978 by two architects, Merrill H. Diamond and the late Gordon I. Hurwitz. Almost from its

inception, the firm has been recognized nationally for taking a different approach to real estate development. In an environment where the emphasis is usually only on the bottom line, Diamond/Sinacori has become known for both the appropriateness of its architecture, its creativity in its marketing approach, and for involving municipal and neighborhood groups in the development process. While the firm has been honored for its business acumen, it is most proud of being cited for sensitivity to the un-built environment and the conservation efforts that mark many Diamond/Sinacori projects. Of note, founding partner, Merrill H. Diamond, has previously served as Chair of the Brookline Conservation Commission.

While Diamond/Sinacori has a wide range of experience in various housing types spanning both new construction and renovation, the firm boasts especially strong credentials in the area of historic preservation and adaptive re-use. In that regard, Merrill H. Diamond formerly served as a Commissioner of the Massachusetts Historical Commission and is a recent member of the Board of Directors of Preservation Mass. Seventy-five percent of the firm's work over the past two decades has featured historic preservation and adaptive re-use, either in whole or in part. The Waterworks at Chestnut Hill is one of the firm's current residential projects.

Diamond/Sinacori's corporate honors and Merrill H. Diamond's personal honors include the following: "Entrepreneur of the Year" awarded by *Venture Magazine* and Ernst & Young, Inc.; "Developer of the Year," awarded by the Condominium Associations Institute; twice named "One of America's fastest growing companies" by *Inc. Magazine*; and numerous awards for both design and marketing from *Builder Magazine*. In addition, Merrill H. Diamond and his former partner were named "Two of America's Most Valuable People," by the nation's national newspaper, *USA Today*.

#### **Hart Development Associates**

Hart Development Associates is a full service real estate development and consulting firm based in Boston, Massachusetts. Led by Daniel R. Hart, the firm leverages its principals' vast and varied experience in a myriad of transaction and asset types. The firm prides itself in its proven ability to an integrated and coordinated approach to real estate development from project feasibility and assessment through punch list.

Mr. Hart previously served as Director of Development for EA Fish Associates, a prominent, multifaceted real estate development firm, where he was involved with the development of over \$714,000,000 of real estate, totaling 2,454 units of housing, 71,000 square feet of commercial space, and 1,403 structured parking spaces.

Mr. Hart is a graduate of Boston College High School and Bowdoin College where he earned a dual degree in History and Government & Legal Studies. He has continued his education in Real Estate Finance and Development at Harvard University as well as at Boston University's Real Estate Studies Program. Additionally, he studied Construction Management at the Wentworth Institute of Technology. He was named to the Mayor Thomas Menino's Housing Advisory Committee in the Fall of 2003. Prior to working at EA Fish Associates of Boston, Mr. Hart was employed by Suffolk Construction Co, Inc. of Boston.

#### **ARCHITECT:**

# Tise Design Associates, Inc.

Tise Design Associates has earned a national reputation as a unique architectural and planning resource, providing comprehensive and imaginative design services to our clients. Over the past 30 years the award winning firm has evolved into an internationally recognized group of professionals who focus on creative solutions to complex design challenges and the interactive processes that result in consensus, feasibility and programmatic appropriateness. Stephen Tise started his practice in 1976 with the desire to create a design studio servicing clients who share his unique goals for the built environment. His strength as an architectural designer is evidenced in many projects that exhibit unique design and technical solutions to complex design problems. The firm limits its commissions in order to enable Mr. Tise to personally oversee all work and the office enjoys the support of a core group of enlightened clients who share TDA's commitment to achieving the highest level of design. Steve's reputation in interior design has allowed the firm to undertake extensive interior and space planning contracts. The firm employs sustainable design and green building practices in our work and utilizes state of the art visioning software, innovative US and European building systems and Smart Growth development techniques.

# **GREEN CONSULTANT:**

# **Hickory Consortium**

The Hickory Consortium provides professional services on building projects throughout the US with a focus on the Northeast. Their experts bring to Hickory the experience of over 8000 units of housing, including single- and multi-family; mid-rise, urban and rural; affordable and highend; new and rehab. Their work is currently focused on affordable housing and transit-oriented development (TOD). They also consult on light commercial buildings and other small-scale projects including administrative centers, civic buildings, and organizational headquarters. The Hickory Consortium has always been at the leading edge of design and construction methods and techniques. Their R&D background with building materials and systems manufacturers, as well as with national building research laboratories, puts them at the forefront of organizations that can demonstrate these practically. Catalyzing sustainable building is a continuum of efforts along the spectrum of the building process that must eventually result in built projects. These projects must teach, must be replicable, and must have data that can be shared.

Their awards include the following: 2003 Northeast Green Building Award; 2001 Northeast Green Building Award; 2000 NAHB Energy Value Housing Award; 2000 BSA Excellence in Environmental Design Award; 2000 Leadership in Energy Efficiency Award; 1999 NAHB Energy Value Housing Award; 1999 Sustainable Business Award; 1998 U.S. EPA Energy Star Home Designation; 1998 AIA Earth Day Top Ten Award; 1998 Green Seal Designation; 1998 NAHB Energy Value Housing Award; and the 1997 U.S. EPA Energy Star Home Designation.

#### **CIVIL ENGINEER:**

# **Nitsch Engineering**

Nitsch Engineering specializes in providing civil engineering, land surveying, transportation engineering, planning, and GIS services. Their engineering work includes designing and consulting on the sustainable site aspects of building projects. They have worked with academic clients, developers, corporate and institutional owners, public agencies, architects, and other design professionals on major private development and public infrastructure projects in 13 states and five countries. Founded in 1989 as Judith Nitsch Engineering, the firm now has over 65 employees.

Nitsch Engineering is the largest Woman-Owned Business Enterprise (WBE) engineering firm in Massachusetts, and is also certified as a WBE in New York, Pennsylvania, and Virginia.

# TRAFFIC ENGINEER:

# Howard/Stein-Hudson Associates, Inc.

Howard/Stein-Hudson Associates, Inc. (HSH), is a transportation consulting firm experienced in advancing complex projects on behalf of clients. The women owned corporation is certified as a WBE and DBE by numerous states and regional authorities. HSH was founded in Boston by Jane Howard and Kathleen E. Stein in 1987.

Nationally recognized for its creative, multidisciplinary, problem-solving approach, the firm works on projects in more than 25 states across the U.S., HSH provides regional and municipal planning, traffic engineering, roadway design and civil engineering, land development and institutional planning, and public involvement for public agencies, institutions, design and construction firms, developers, corporations, law firms, and environmental consultants. HSH worked with the principals of Diamond Sinacori, LLC and Hart Development Associates on The Waterworks at Chestnut Hill, in Brighton, Massachusetts.

#### 1.3 Evidence of Site Control

The Brighton Partnership for Community Reinvestment, LLC was designated by the City of Boston, Department of Neighborhood Development. Evidence of the same is included in Appendix A.

# 1.4 Current Zoning

The site is located in a "MFR-1" subdistrict of the Allston-Brighton Neighborhood District. The multifamily use that we have proposed for 1501 Commonwealth Avenue is an allowed use under the code, though the proposal would require relief for other provisions. The site is also adjacent to the Greenbelt Protection Overlay District.

# 1.5 Project Benefits

We believe that this project is not just about 1501 Commonwealth Avenue; it's about the impacted neighborhood and, indeed, Brighton itself.

Accordingly, we have proposed a series of significant Community Benefits aimed at improving the general area, ranging far beyond the development site itself.

These include the following:

- \$50,000 to address the deplorable condition of the Commonwealth Avenue gradient across from the site;
- \$25,000 to assist in the effort to revitalize Ringer Park.
- \$25,000 to enhance the computer lab at the Commonwealth public housing development;
- A construction and management apprenticeship program for residents of the Commonwealth public housing development;

# 1.6 Public Participation/Community Outreach

June 6, 2006	1st meeting, introduction of the site, general discussion, use/ design
Oct 18, 2006	2nd meeting, reviewed use/ design, went over draft RFP
May 31, 2007	Developer Presentation - 4 eligible applicants
July 31, 2007	Community review of applications, discussion of next step that led to rescinding the RFP an3/20/08 Dev. Presentation (all eligible applicants) sponsored by DND
May 1, 2008	Developer Presentation at BAIA
March 4, 2010	Developer Presentation at BAIA

#### 2.0 ENVIRONMENTAL PROTECTION COMPONENT

# **Existing Conditions and Proposed Development**

Fronting onto Commonwealth Avenue to the east, the approximately 31,319 square foot subject site is bounded by the Brighton Marine Health Center to the north, Kindred Hospital to the south, and wooded land to the west. The subject site is currently occupied by a vacant 2-story, concrete/masonry building that was formerly used as a nursing home. A paved surface parking lot is located to the north of the existing building. A grassed area is located behind the building on the south side.

Existing grade along the eastern portion of the site adjacent to Commonwealth Avenue slopes down from south to north from approximately Elevation +140 to Elevation +121. Within the paved parking area, existing grade slopes upward from east to west from approximately Elevation +121 to Elevation +128. Behind the building, existing grade slopes steeply upward from approximately Elevation +137 to Elevation +147.

A single level parking structure is located on the abutting property to the south. Exposed concrete columns that support the structure were observed to bear on a bedrock outcropping that extends onto the southern portion of the site, adjacent to the southwest corner of the existing site building.

It is understood that the proposed development includes demolition of the existing structure and construction of a new 4-story building containing a level of at-grade parking that will closely approximate the existing grades along Commonwealth Avenue and four levels of residential space above.

It is further understood that the proposed building will contain no below-grade space.

# **Investigation Procedures**

Our preliminary subsurface investigation consisting of three (3) soil borings was conducted at the site on April 2, 2009. The boreholes were performed by Carr-Dee Corp. of Medford, Massachusetts under contract to McPhail Associates, Inc. Logs of the soil borings are contained in the Appendix. The locations of the explorations are as indicated on the enclosed Subsurface Exploration Plan, Figure 2 which is based upon a plan entitled "ALTA/ACSM Land Title Survey, 1501 Commonwealth Avenue, Boston, Mass." prepared by Feldman Professional Land Surveyors and dated December 2008.

The subsurface explorations were monitored by a representative of McPhail Associates, Inc. who performed field layout, prepared field logs, obtained and visually classified soil samples, monitored groundwater conditions in the completed explorations and the groundwater observation wells installed at the site, made minor adjustments to the exploration locations and determined the required exploration depths based upon the actual subsurface conditions encountered.

Field locations of the subsurface explorations were determined by taping from existing site features identified on the above referenced survey plan. The existing ground surface elevation at each location was determined by a level survey performed by McPhail Associates, Inc. utilizing vertical control provided on the referenced survey plan.

The soil borings completed within the paved parking area (borings B-2 and B-3) were performed using a truck-mounted drill rig and were advanced utilizing 2-1/4-inch diameter hollow stem augers. Boring B-1, completed within the landscaped area of the site along Commonwealth Avenue, was completed with portable drilling equipment. Standard 1-3/8-inch J.D. split-spoon samples and standard penetration tests were generally obtained continuously with depth in accordance with the standard procedures described in ASTM D1586.

To permit monitoring of groundwater levels at the site boring B-3 was finished as a groundwater observation well.

# **Laboratory Testing**

At the completion of the field work, the soil samples were transported to our laboratory for more detailed classification, analyses and testing. The laboratory testing consisted of sieve analyses to obtain representative grain size distributions of samples of the fill and glacial till deposits. Laboratory test procedures were in general accordance with applicable ASTM Standards. Results of the laboratory testing conducted on samples of the fill and glacial till deposits are presented in Figures 3 and 4,respectively.

#### Subsurface Conditions

Detailed descriptions of the subsurface conditions encountered within each of the boreholes are presented on the boring logs contained in Appendix B. Following is a discussion of the generalized subsurface conditions across the site which are inferred primarily from the recent explorations, and also from our knowledge of local site geology, foundation design and construction experience in the Brighton area of Boston.

The explorations indicate that the site is covered by surface treatments consisting of either a 6-inch thick layer of topsoil or a 2-inch thickness of asphalt pavement. Beneath the surface treatments, the project site is blanketed by a loose to dense, brown fill material that generally consists of a silty sand and gravel containing trace amounts of brick, concrete, ash and cinders. The fill varied in thickness from 2 feet at the west end of the site (boring B-2) up to 15 feet at the east end of the site (boring B-3). Underlying the fill, the explorations encountered a natural deposit of glacial till at depths of 2 feet and 15 feet below ground surface in borings B-2 and B-3, respectively. The glacial till consisted of a very dense, light brown, silty sand and gravel with some cobbles. Beneath the glacial till in borings B-2 and B-3, and directly beneath the fill in boring B-1, the explorations encountered refusal on what is believed to be the underlying bedrock. Refusal was encountered at depths of 8.3 feet, 8 feet, and 18.5 feet, corresponding to Elevation +128.5, Elevation +119.0, and Elevation +106.0, in borings B-1, B-2, and B-3, respectively.

The stabilized groundwater level within the observation well installed in completed borehole B-3 was observed at 14 feet below the existing ground surface, corresponding to Elevation +110.5. It is anticipated that future groundwater levels across the site may vary from those reported herein due to factors such as normal seasonal changes, periods of heavy precipitation, and alterations of existing drainage patterns. A Groundwater Monitoring Report for the observation well installed in boring B-3 is presented in the Appendix.

# **Preliminary Foundation Design Recommendations**

Based on our current understanding of the schematic design of the proposed structure and the subsurface soil and groundwater conditions encountered during our recent subsurface exploration program, it is recommended that foundation support of the proposed buildings transfer the structural loads through the unsuitable fill deposit to the underlying glacial till or bedrock deposits that are present across the project site. Utilization of a design bearing pressure of 4 tons per square-foot for foundations bearing on either the natural very dense glacial till or bedrock deposits is recommended for preliminary design purposes. The allowable design bearing pressure may be modified during the final design based upon additional subsurface information. Based on the preliminary subsurface investigations, for purposes of determining the total lateral seismic force or base shear for earthquake design, the site of the proposed building is considered to be Site Class C as defined in Section 1615.0 of the Massachusetts State Building Code (Seventh Edition).

The selection of the specific foundation system for support of the proposed structure is highly dependent upon the elevation of the lowest level floor slab of the proposed building in relation to the elevation of the existing grades, given the variability in the anticipated depth to the bearing stratum. Based upon the subsurface conditions indicated by the preliminary subsurface investigations, the site appears to be suited for utilization of a conventional spread footing foundation system in conjunction with slab-on-grade construction. However, based upon the observed soil conditions as described above, over-excavation and replacement of unsuitable fill soils is anticipated for foundation construction, in particular, within the eastern and northeast portions of the site where the fill extends to a depths of 8 to 15 feet below existing grade. It is anticipated that lean concrete or pier foundations could be utilized to extend foundation support to the bearing surface as opposed to the over-excavation and replacement of structural fill to the design bottom of footing elevation. Given that no below-grade space is proposed, perimeter and under-slab drainage is not recommended.

# **Final Comments**

Based on our current understanding of the project scope, a final subsurface exploration program is recommended to further defined the extent of over-excavation of unsuitable fill that will be required given the variable depth of fill present at the site, and in consideration of the proposed lowest level slab elevations which have not yet been determined. In addition, a final foundation engineering report should be prepared in conjunction with the final subsurface exploration program which provides final foundation recommendations based on the specific project design requirements.

#### Hazardous Materials/Solid Waste

A Phase I Environmental Site Assessment has been completed in conformance with the ASTM E 1527-05 standard for the property located at 1501 Commonwealth Avenue in Brighton section of Boston, Massachusetts. The purpose of this report was to document the possible release of oil and/or hazardous materials, as defined in Massachusetts General Laws Chapter 21 E and the Massachusetts Contingency Plan, 310 CMR 40.0000 and to identify the potential presence of Recognized Environmental Conditions as defined by the ASTM 1527-05 standard.

Our assessment included a review of the site history relative to the possible presence of oil and/or hazardous materials, a visual reconnaissance of the subject site and the surrounding areas, a review of readily available city, state and federal records including a DEP file review, and a review of a database search completed by EDR Sanborn, Inc. of Milford, Connecticut. In addition, a subsurface investigation performed primarily for geotechnical purposes included reviewing and screening soil samples obtained from the borings for Total Volatile Organic Compounds (TVOCs). Fronting onto Commonwealth Avenue to the east, the subject site is bounded by the Brighton Marine Health Center to the north, Kindred Hospital to the south, and wooded land to the west. The subject site occupies a plan area of approximately 31,715 square feet and is currently occupied by a vacant 2-story, concrete and masonry building which was formerly utilized as a nursing home.

The results of our review of historical records indicate that prior to development in the early 1960s, the subject site was undeveloped land. Since that time, it is understood that the subject site building had been utilized as a rest home until 2005. Further, it is understood that since 2005 the subject site building has remained vacant. However, it is understood that the City of Boston Department of Neighborhood Development, allows occasional use of the subject site building by the Boston Fire Department. The property located to the north of the subject site has been occupied by a health center and associated medical officer quarters since at least 1950. The property located to the west of the subject site has remained undeveloped. The property located to the south of the subject site has been occupied by an office building since at least 1989. The results of our review of historical records indicated that there are no threats of impact to the subject site, and no RECs were identified with respect to historical usage of the subject site and surrounding properties.

Our observations of readily observable areas of the subject site and surrounding properties did not disclose evidence of a release of oil or hazardous materials, or the presence of RECs at the time of our site visit. However, we recommend that the locked wooden box labeled "Infectious Waste" and "Biohazard" observed within a storage room and containers observed within the elevator room and storage room in the eastern portion of the basement and their contents be properly disposed prior to the demolition of the existing building. A review of readily available records on the City of Boston online databases and municipal offices did not indicate the presence of RECs with respect to the subject site.

Based on our review of the DEP's on-line database of MCP sites, the subject site is not a DEP listed MCP site, nor was information identified in the available databases searched by EDR that indicated the presence of an REC.

Four (4) listed MCP release sites located within 0.5 miles of the subject site were evaluated to determine whether they could potentially pose a threat to the subject site. Files for these four (4) sites were examined at the DEP's Northeast Regional office for information relative to their potential to impact the subject property. Based on our review of readily available information at the DEP's Northeast Regional office and/or DEP's on-line MCP site database, the four (4) release sites are not considered likely to pose a threat to the subject property based on the location of the releases, the response actions completed, and/or given that a Class A was filed for each release, indicating that a Permanent Solution was achieved and a Condition of No Significant Risk exists. Accordingly, the four (4) release sites are not considered RECs with respect to the subject site.

The subsurface investigation performed at the subject site was based, in part, on gathering information relating to the proposed development of the subject site as part of a preliminary geotechnical subsurface investigation. This investigation included the performance of three (3) borings, one (1) of which was completed as groundwater monitoring well. Topsoil and asphalt surface treatments at the subject site were underlain by granular fill material containing trace amounts of brick, glass, ash and cinders that varied from 2 to 15 feet in thickness. Underlying the fill, the explorations encountered a natural deposit of very dense glacial till and/or bedrock. Where encountered, the glacial till varied from 3.5 to 6 feet in thickness. The stabilized groundwater level within the observation well installed in completed borehole B-3 was observed at 14 feet below the existing ground surface.

A total of 11 soil samples obtained from the borings were screened for the presence of Total Volatile Organic Compounds (TVOCs). The TVOC results encountered within the soil samples obtained from the borings were all 0 parts per million (ppm), or equivalent to ambient air background levels. Further, these samples did not exhibit the presence of visual or olfactory evidence of OHM. In the absence of visual or olfactory indications of the presence of OHM, TVOC results below 10 ppm are not considered likely to indicate the presence of a release of OHM. Therefore, RECs were not identified in soil during the subsurface investigation.

The proposed preliminary plans for development of the subject site is understood to include demolition of the existing structure and construction of a 4-story residential building with two levels of at-grade parking that will closely approximate the existing grades along Commonwealth Avenue. Therefore, pursuant to the Massachusetts Oil and Hazardous Materials Release Prevention and Response Act (MGL Chapter 21 E) and pursuant to the Massachusetts Contingency Plan (310 CMR 40.00), if off-site disposal of excess excavated soil from future development of the subject site becomes necessary, chemical analysis of the excess soil will be required in order to conform with the regulations and policies of the Department of Environmental Protection (DEP).

In addition, in consideration of the potential on-site reuse of fill material that was observed to contain ash and cinder, chemical analysis of the fill is recommended to assess the potential requirement for providing a 1-foot thickness of clean soil at finish grade in lawn and landscaped areas as a protective measure to future residents.

#### 3.0 URBAN DESIGN

The North side of Commonwealth Avenue along the 1500 block is a eclectic mix of uses and building typologies. 1501 is located in a grouping of non-residential, institutional structures, and is flanked by the Evergreen Institute to the South and Boston Marine to the North. The Evergreen Institute structure dominates the streetscape in this location, and is isolated as a visual icon in this neighborhood.

Due to its proximity to the MBTA, the lack of residential abutters, and the existence of large structures on this side of Commonwealth Avenue, we feel that the 1501 site is ideally suited to embrace a signature piece of architecture; however -- the relative isolation of the site notwithstanding -- the design of 1501 should be contextual in terms of the older residential stock that typifies Commonwealth Avenue.

This represents a sea change from our earlier submission that put forth a building that could "conceal" the adjacent Evergreen Institute, a tall building that is especially undistinguished from an architectural standpoint. However, with the current RFP restricting height, we feel that the appropriate solution is one that becomes a good neighbor to both the abutters and to the community as a whole.

What do we mean by being "a good neighbor?" Simply put, we have designed a building that is pleasant to look at from any vantage point (including from the buildings across the street), and one that fits relatively seamlessly into the overall fabric of Commonwealth Avenue. To the extent that this fabric is comprised of older residential buildings, we wanted a building that was also obviously residential in nature.

That said, however, we are also aware of the fact that most, if not all of the traditional residential stock on both sides of Commonwealth Avenue are not especially handsome examples of period architecture; they are connected banks of apartment buildings that were built by speculators during the first half of the 20<sup>th</sup> century. Their primary attribute is that they were constructed in an age when even mundane architecture compared favorably to some of the most expensive architecture of our own era. However, there is an enormous difference between the residential buildings on Beacon Street in Brookline and those in Back Bay where the level of design is much higher than that of the older buildings along Commonwealth Avenue.

Our charge to our architects, then, was to create something that would both fit within the overall context of Commonwealth Avenue, AND to raise the bar in terms of design. We believe that this charge has been answered and the result is a beautiful residential structure that "feels" right in a traditional environment and is a signature piece of architecture in its own right. Named *Charing Cross*, our building is evocative of the Jacobean architectural style, an early phase of English Renaissance architecture and decoration that formed a transition between the Elizabethan and the pure Renaissance style later introduced by Inigo Jones . First evidenced in the early 17th century, examples of the Jacobean style of architecture can be found in abundance in this part of the Commonwealth (e.g. The Paine Mansion, Heath Street, Chestnut Hill; restored by Merrill H. Diamond in 1990).

#### 4.0 BUILDING DESIGN

Our proposal for 1501 Commonwealth Avenue is for a four story residential structure with one level of at-grade parking that follow the slope of the land. The proposed structure is approximately 52' (to the parapet) adjacent to the Evergreen Institute, which is estimated at 93' adjacent to the 1501 property boundary. Our design drops down to a height of 27'adjacent to the Brighton Marine low scale structures to the North.

The design utilizes the natural slope of the adjacent street frontage to access the parking, thereby avoiding internal ramping. Due to geo-technical constraints, the parking is designed at grade, but is completely concealed from view from the Commonwealth Avenue frontage. We feel it is prudent to assume that any site excavation is cost prohibitive.

At the first residential floor, we propose to build out from the building above on the North façade adjacent to Brighton Marine to create five maisonettes, multi-bedroom townhouse style units with private outdoor terraces. These exceptional units will have direct access from dedicated parking spaces in the lower garage as well as direct entrances from a new public path leading from Commonwealth Avenue to the urban wilds behind. The roofs of these maisonettes serve as private terraces for the first floor units in the elevator building.

Unit types are intentionally kept to a simple standard, with three basic unit types in the elevator building, a one bedroom @ 750 and 840 s.f., a two bedroom @ 900 s.f. and 990 s.f., and a two bedroom with a study @ 1050 s.f.. Some units will have balconies and others will have bay windows, depending on location and orientation.

In addition, the five maisonettes are 1200 s.f. two bedroom townhouses. There will be very little distinction between affordable and market units.

Barrier free units will meet all State and Federal requirements, and will be designated on corridor floors. Obviously, all public areas in the building will be fully accessible.

We have proposed a library and exercise room on the ground floor adjacent to the lobby open to all residents of 1501 and their guests.

There are a total of 55 parking spaces proposed on one level, and these will be controlled through decorative hardwood garage doors.

Exterior materials and details are not finally defined, and it is assumed the building design will change as the process emerges. However, it is our strong desire to create a contextual structure that emulates other Commonwealth Avenue residential buildings. Therefore, it should be assumed that materials will be masonry and/or terra cotta, with pitched gable roof elements in simulated slate. Further design refinement will explore utilizing the sloped roof elements to organize active solar components facing south. Night lighting will be particularly important, as this side of Commonwealth Avenue is generally perceived by residents of the area as dark and uninviting.

# 5.0 APPENDIX

Appendix 1: Department of Neighborhood Development Designation & Information Document

Appendix 2: ALTA Survey

Appendix 3: Transportation Report Appendix 4: Geotechnical Report Appendix 5: Environmental Report

Appendix 6: Architectural Floor Plans and Elevations

Appendix 7: Site Photos

Appendix 8: Preliminary Sustainability Checklist Appendix 9: Inspectional Services Department Letter

Appendix 10: Boston Redevelopment Authority Letter of Intent & Project Information



# DEPARTMENT OF NEIGHBORHOOD DEVELOPMENT

THOMAS M. MENINO, MAYOR EVELYN FRIEDMAN, CHIEF AND DIRECTOR

The undersigned hereby certifies that she is the Secretary of the Public Facilities Commission, and that at a meeting of said Commission, duly called and held on Thursday, June 10, 2010, whereat Commissioner, Michael Hatfield, and Commissioner, John Walsh, of said Commission were present, it was voted:

That the vote of this Commission at its meeting on July 24, 2008 and, thereafter, amended on July 29, 2009 regarding the tentative designation and intent to sell the land with building thereon located at 1501 Commonwealth Avenue (Ward 21, Parcel Number 01830000) in the Brighton District of the City of Boston containing approximately 31,319 square feet of land to Brighton Partnership for Community Reinvestment, LLC with an address of 205 Newbury Street, Boston, MA 02116, (or nominee)

be, and hereby is amended as follows:

By deleting the words and figures: "24 months" and substituting in place thereof the following words and figures: "36 months" wherever such may appear.

Secretary for the PFC

Mayor Thomas M. Menino



# City of Boston – Department of Neighborhood Development

# ENVIRONMENTAL DATA AND PROJECT INFORMATION FORM

(Environmental Assessments for Federally Funded Development Projects)

#### I. IDENTIFICATION

Applicant:

Brighton Partnership for Community Reinvestment, LLC

Address:

437 Columbus Avenue, Boston, MA 02116

Project Name:

**Charing Cross** 

Location:

1501 Commonwealth Avenue, Boston, MA

Project Boundaries: The subject property fronts onto Commonwealth Avenue to the east, by the Brighton Marine Health Center to the north, Kindred Hospital to the south, and wooded land (Ringer Park) to the west.

Estimated Total Project Cost (All sources): Approximately \$18MM

**Estimated Total DND Cost:** 

Expected DND Funding Sources #1 Specify Amount

Expected DND Funding Sources #2 Specify Amount

Expected DND Funding Sources #3 Specify Amount

Expected DND Funding Sources #4 Specify Amount

Project Duration: Start: September 2012 Completion: January, 2014

Report Prepared by:

Merrill H. Diamond

Date:

9/8/11

(Signature)

Name:

Merrill H. Diamond

Title:

Manager

Address:

437 Columbus Avenue, Boston, MA 02116

Telephone Number:

617-512-1027

E-Mail:

mdiamond@diamondsinacori.com

# **Instructions:**

Provide the information requested on the following pages as it pertains to your project, in as much detail as is necessary for a clear understanding of the proposed project. If any item is not applicable, so state

#### I. PROJECT DESCRIPTION

Describe briefly, but in as much detail as is necessary, the proposed project. Identify and describe all component of the project and all actions necessary to complete the project. Identify applicable, size or scale of project, number of housing units, square footage of components, design, use, type of facilities to be included, and other descriptive features. Give total area of project site (sq. ft. or acres).

The Brighton Partnership for Community Reinvestment is proposing to redevelop the former Provident Nursing located at 1501 Commonwealth Avenue into *Charing Cross*, a 55 unit mixed-income condominium complex with accessory parking.

This property is a highly visible gateway site, and it presents a unique opportunity to provide much needed homeownership opportunities for a section of the city that is typified by rental housing. The proposed project will contain approximately 65,000 gross square feet, and will include a parking garage for approximately 55 vehicles for residential use, streetscape improvements on Commonwealth Avenue, and other community benefits.

The proposed building will be 5 stories of residences above 1 level of structured parking that works with both the slope and the rock outcropping of the site. The architecture of Charing Cross will be in the English Jacobean style in order to meld seamlessly into the architectural fabric of this part of Commonwealth Avenue.

In order to complete the project, the Developer will need to complete the City's Article 80 Permitting Process and to raise funding for initial expenses to pay for Soft Costs and for Project Marketing (Sales Center, Collaterals, etc.). Given the economic climate, we anticipate a lending requirement of 50% pre-construction sales in order to close a construction loan and to begin construction. We are currently in the process of lining up funding for both aspects of the project, i.e. the initial funding and the consequent construction funding.

# II. PROJECT AREA DESCRIPTION

Describe the characteristics of the project area (project site and immediate environs) and the neighborhood in which the project is to be located, in terms of land use, development and general physical characteristics and conditions. Estimate area of project site, which is developed (describe), vacant and unutilized, or open space (describe). Identify both positive and negative aspects of the existing environment of the project site and area.

The proposed site is approximately 31320 sf and is located at 1501 Commonwealth Avenue on a service road that parallels Commonwealth Avenue in the Brighton section of Boston. The subject site sits near the top of

a hill that affords the proposed development with sweeping views of downtown Boston.

The proposed building will occupy approximately half of the site with the remaining half to be devoted to open space.

The host neighborhood has a large number of residential rental units, many of which are occupied by students and the elderly. In addition, the area hosts a number of institutional, commercial and retail uses.

The subject site is currently occupied by a vacant 2-story, concrete/masonry building that was formerly used as a nursing home. A paved surface parking lot is located to the north of the existing building. A grassed area is located behind the building on the south side. Existing grade along the eastern portion of the site adjacent to Commonwealth Avenue slopes down from south to north from approximately Elevation +140 to Elevation +121. Within the paved parking area, existing grade slopes upward from east to west from approximately Elevation +121 to Elevation +128. Behind the building, existing grade slopes steeply upward from approximately Elevation +137 to Elevation +147.

A single level parking structure is located on the abutting property to the south. Exposed concrete columns that support the structure were observed to bear on a bedrock outcropping that extends onto the southern portion of the site, adjacent to the southwest corner of the existing site building.

It is understood that the proposed development includes demolition of the existing structure and construction of a new 4-story building containing a level of at-grade parking that will closely approximate the existing grades along Commonwealth Avenue and four levels of residential space above. The proposed building will contain no below-grade space.

The proposed building will contain 55 condominium residences and is approximately 65,000 sf.

The positive aspects of the existing environment of the project site and area are the views from the proposed building, the easy access to public transportation, and the relatively short walk to nearby retail and service areas. The negative aspects of the existing environment of the project site and area are the large rock outcropping that has impacted the design of the building, the relative proximity of a large public housing project, and the degree to which the host neighborhood is largely comprised of students and the elderly living in rental housing.

# II. MAPS AND PLANS (Attached at end of document)

- Provide maps showing location of the project within the City of Boston and the project neighborhood.
- Provide a plan of the site and immediate environs, showing existing conditions, building streets, etc., identify current uses and any important or special man-made or natural features.
- Provide a site plan of the proposed development.
- Provide drawings or elevations of the proposed development, if available.
- Provide photographs of the project site.

# III. PROJECT IMPACTS

Provide relevant information and documentation on the following applicable categories as to the anticipated impacts, both beneficial and adverse as a result of the proposed project:

• Conformance with Comprehensive Plans and Zoning

The site is located in a "MFR-1" subdistrict of the Allston-Brighton Neighborhood District. The multifamily use that we have proposed for 1501 Commonwealth Avenue is an allowed use under the code, though the proposal would require relief for other provisions. The site is also adjacent to the Greenbelt Protection Overlay District.

Compatibility and Urban impact

The proposed project is architecturally and historically compatible with the best architecture on The this stretch of Commonwealth Avenue. Indeed, it takes its inspiration from a building across Commonwealth Avenue which is also designed in the English Jacobean style.

Slope

The proposed project works with the existing slope and, as such, will not have a negative impact on the site or its abutters.

Erosion

The existing site is largely paved and the proposed project will improve any considerations based on site erosion.

Soil Suitability

Our sub-surface studies and tests indicate that the proposed site is suitable for constructing the proposed building. Doing so will not have a negative impact on the site or its abutters.

• Hazards and Nuisances, including site safety

The only safety issue for residents of Charing Cross is presented by the proximity of The Commonwealth Public Housing Development. We believe, especially from our experience both in developing public housing and living in very close proximity to public housing, that this is more of a perceived threat than a real danger so long as people in the neighborhood, including the residents of Charing Cross, use common sense in the evening hours.

Energy Consumption

The proposed building is being designed to conform to DND LEED Silver "Certifiable" standard.

 Effect of Ambient Noise on Project and Contribution to Community Noise Level

We do not anticipate any contribution to the Community Noise Level, especially since Charing Cross will be located on busy Commonwealth Avenue, a street that is a heavily traveled thoroughfare by cars, trucks and the Green Line trolley.

• Effects of Ambient Air Quality on Project and Contribution to Community Pollution Levels

The project will not have an impact on the air quality in the area and will not contribute to community pollution levels other than that caused by car use associated with the development.

• Visual Quality – Coherence, Diversity, Compatible Use, and Scale

Charing Cross is designed in the English Jacobean style and, as such, is of an architectural language that is prevalent on this part of Commonwealth Avenue. We are not trying to achieve architectural diversity but, rather, architectural compatibility. The scale is also compatible with the buildings across the street (although far smaller in size and scale than its neighbor to the west) and its use, residential condominiums, can only help stabilize a neighborhood that it currently residential, but largely rentals.

• Historic, Cultural, and Archeological Resources

The subject building is a two-story nursing home with no historic or cultural resources. It is also highly unlikely that excavation of the site will result in our finding any archeological resources, especially since the project's design does not require significant excavation of the site.

• Demographic/Character Changes

Insofar as the neighborhood is primarily residential in character, Charing Cross will serve to continue to reinforce that use pattern. However, to the extent that Charing Cross is a condominium development, it will bring more homeowners to an area that desperately needs more of same to achieve a higher degree of neighborhood stability and a population more vested in the long-term success and viability of the area.

Displacement

The site is currently an abandoned nursing home and, consequently, there will be no displacement of any indigenous population.

• Employment and Income Patterns

N/A

Educational Facilities

The closest educational facilities are Brighton High School and Boston College. The proposed building will have no impact on those facilities.

Commercial Facilities

There are commercial facilities both across the street from the site and on the same side of the street from the site, heading inbound. The proposed project should create a new customer base for these commercial facilities.

Health Care

The proposed project should not have a negative impact on area health care.

Social Services

The proposed project should not have a negative impact on area social services.

Solid Waste

Solid waste from the proposed building will be handled in accordance with local codes and ordinances. We do not anticipate any negative impact from same.

Waste Water

Waste water from the proposed building will be handled in accordance with local codes and ordinances. We do not anticipate any negative impact from same.

Storm Water

Storm water from the proposed building will be handled in accordance with local codes and ordinances. We do not anticipate any negative impact from same.

Water Supply

With only 55 units, we do not anticipate any negative impact on the water supply.

• Public Safety: Police

We do not anticipate any significant negative impact on the local police from our proposed resident population.

Public Safety: Fire Protection

The proposed building will be designed and constructed in accordance with all local codes and ordinances. We do not anticipate the proposed project having a negative impact on fire protection relative to our building or its neighbors.

Public Safety: Emergency Medical

The subject site formerly housed a nursing home. Our proposed use of residential condominiums should have less of an impact on emergency medical traffic and services.

Open Space

Charing Cross has been designed such that approximately half of the site is open space, the largest of which is an interior courtyard area created by the "L" shaped plan of the building. As a practical matter, in addition to this courtyard, most of the units of Charing Cross feature private outdoor spaces.

#### Conservation Land

The closest property that would qualify as "conservation land" would be the adjacent City-owned Ringer Park to the northwest of the subject property and the Chestnut Hill Reservoir to the west of the subject property. The proposed project, as part of its community benefits program, will be making a financial contribution to this park.

#### Recreation

The closest property that would qualify as "recreation land" would be the adjacent City-owned Ringer Park to the northwest of the subject property. However, as one walks to Chestnut Hill Avenue to the west, there are ballfields, skating rinks, and public swimming facilities available, along with various shops and eateries. Also in the area is the Chestnut Hill Reservoir with a recently renovated walking and jogging trail. Boston College, featuring Division 1 sports, is also a very manageable walk from the subject site. The proposed project should have little or no impact on these recreational facilities and no negative impact whatsoever.

#### Cultural Facilities

The closest cultural facility to the subject site would be Boston College, which offers a large array of dramatic and musical programs, many of which are open to the general public. The proposed project will have no impact on these cultural facilities.

# Transportation

Charing Cross is located on the Green Line with a station located directly across the street along the median. Private vehicular transportation is amply served by Commonwealth Avenue which leads, to the west, to Newton and beyond and, to the east, to downtown Boston. With only 55 condominium units, there should be no substantive impact on public or private transportation routes.

#### Water Resources

N/A

#### Surface Water

Surface water will be addressed in accordance with all local codes and ordinances and water runoff from our project will not a negative impact on the environment.

Rock Blasting

Although there is a large rock outcropping on the subject site, the proposed building, inclusive of the parking garage, has been designed such that blasting should not be necessary on the site.

Floodplains

The subject site in not in a flood plain.

Wetlands

The subject site in not in a wetland, in whole or in part.

Coastal Zone

The subject site is not impacted by Coastal Zone regulations.

Unique Natural Features and Agricultural Lands

N/A

• Vegetation and Wildlife

N/A

#### IV. ALTERNATIVES TO THE PROPOSED PROJECT

Describe alternatives to the proposed project, which were or could be considered and indicate reasons for their rejection. Alternatives could include alternative locations or sites for the project and alternative sizes and designs for the project. Describe both positive and negative aspects of the alternative. Indicate whether there are any possible alternatives to the proposed project, which would eliminate or minimize any environmental impact or enhance environmental quality. Describe the positive and negative effects of not implementing the proposed project.

The primary alternative for the proposed project was a larger building on the same site with more units. This alternative was vetted through a community process under the auspices of an RFP that resulted in a new RFP that called for a smaller building with a resultant diminution in the number of units.

The project that emerged from the second RFP was the preference of both DND and the host community. The primary positive aspects of the selected project include traditional architecture that blends seamlessly with the architectural lexicon of the neighborhood, a program that calls for homeownership instead of rental housing in an area desperately in need of the former, and the provision of 19 units of Affordable Housing. The primary negative feature of the selected project is the

current difficulty of getting a condominium project financed due to the economic collapse of late 2008.

The only alternative to the selected project would be a modification to the project program such that the units would become rental rather than condominiums. This would require a new RFP and likely community opposition to having more rental units in the host neighborhood. This would not lessen nor increase any environmental aspects of the project other than that noted above.

There are no positive effects to not implementing the proposed project. The negative effects would be the continued existence of an abandoned nursing home that is a non-contributive blight on the neighborhood and the elimination of proposed homeownership opportunities and much needed Affordable Housing.

# V. MODIFICATIONS TO PROPOSED PROJECT

Describe any ways in which the proposed project could be modified in order to enhance environmental quality or to eliminate or reduce potential adverse environmental impacts. Describe both positive and negative aspects of any such modifications.

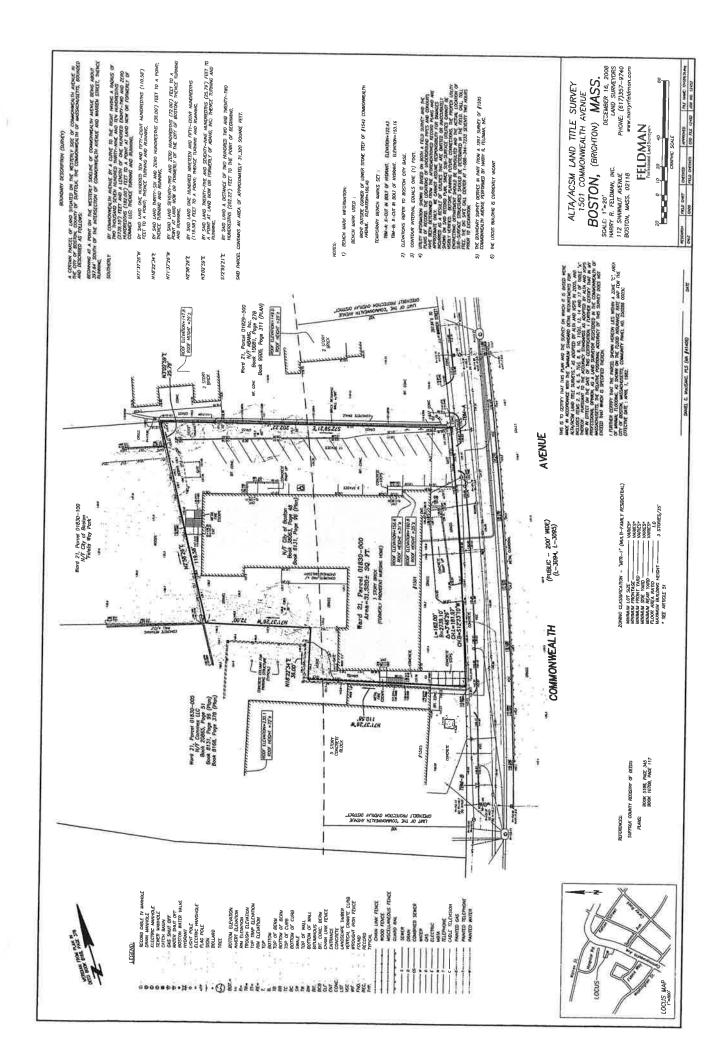
To the best of our knowledge, there are no modifications to the proposed project that would enhance environmental quality or that would eliminate or reduce potential adverse environmental impacts.

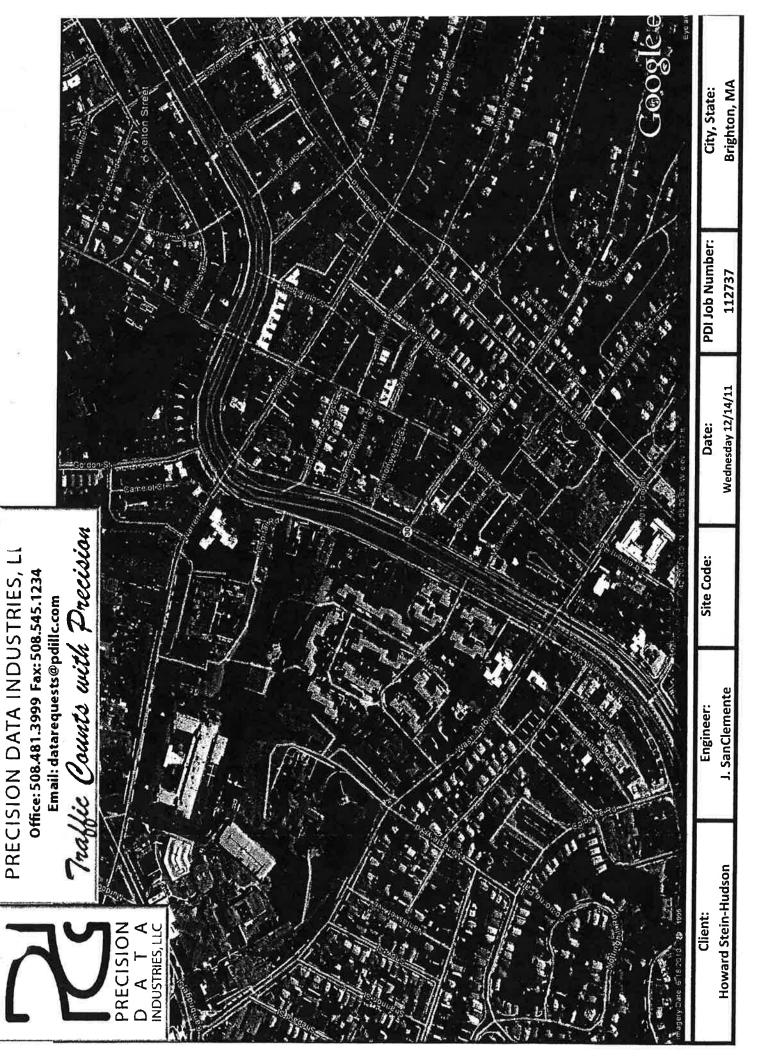
#### VI. EVIDENCE OF CONTROVERSY

Indicate whether there is evidence of any actual or potential controversy regarding the project, as indicated by public review or other wise. Discuss the nature and degree of the controversy and identify the parties involved. Describe measures that have been or will be implemented to resolve the issues raised.

There are no controversies of any kind regarding this project. It was awarded as the result of an RFP Response that was overwhelmingly supported by the host community because of both its architecture and its program of bringing homeownership opportunities to a part of Boston that is desperately in need of same.

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Commonwealth Avenue (Route 30) WB E/W/NSW: Warren Street/Carriage Road City, State: Brighton, MA Client: HSH/ J. SanClemente

P.O. Box 301 Berlin, MA 01503 Office: 508.481.3999 Fax: 508.545.1234 Emall: datarequests@pdillc.com

File Name: 112737 A1

Site Code : TBA

Start Date : 12/14/2011

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Total	0	31	2	227	3	0	0	357	9	26	0	0	0	0	0	0	5	0	0	33	15	37	220	0	0	38	39	76	0	0	1118
Grand Total	0	75	6	530	3	0	0	741	10	40	0	0	0	0	0	0	5	0	0	65	34	76	437	0	0	103	70	133	1	0	2329
Apprch %	0	12.2	1	86.3	0.5	0	0	93.7	1.3	5.1	0	0	0	0	0	0	7.1	0	0	92.9	6.2	13.9	79.9	0	0	33.8	22.8	43.3	0.3	0	
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Cars	0	70	6	509	3	0	0	721	10	37	0	0	0	0	0	0	4	0	0	64	29	70	419	0	0	95	60	128	1	0	2226
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Cars	0	41	3	295	1	340	0	0	403	4	19	426	0	0	0	0	0	0	0	1	0	0	37	38	17	41	221	0	0	279	64	31	69	1	0	165	1248
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Heavy Vahidas	0	4	0	12	0	16	0	0	8	0	2	10	0	0	0	0	0	0	0	0	0	0	1	1	2	4	9	0	0	15	4	6	3	0	0	13	55
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Groups Printed- Cars

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08:30 AM	0	10	0	68	1	0	0	80	2	3	0	0	0	0	0	0	1	0	0	5	4	9	49	0	0	9	5	19	0	0	265
08:45 AM	0	6	1	51	0	0	0	68	_1	_7	0	0	0	0	0	0	1	0	0	10	1	8	55	0	0	8	12	13	0	0	242
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Grand Total	0	70	6	509	3	0	0	721	10	37	0	0	0	0	0	0	4	0	0	64	29	70	419	0	0	95	60	128	1	0	2226
Apprch %	0	11.9	1	88.6	0.5	0	0	93.9	1.3	4.8	0	0	0	0	0	0	5.9	0	0	94.1	5.6	13.5	80.9	0	0	33.5	21.1	45.1	0.4	0	
· Total %	0	3.1	0.3	22.9	0.1	0	0	32.4	0.4	1.7	0	0	0	0	0	0	0.2	0	0	2.9	1.3	3.1	18.8	0	0	4.3	2.7	5.8	0	0	

		(F	toute	ealth 30) No		nue			/BTA				С	(R	onwe oute From	30)		1UB			arriag om S		oad west					n Str We:						ge Ro Iorthy			
Start Time	Har d Ri	Rig M.	r FU	Thr	Left	App. Total	Rig Hi	r RV	Thr	Box ria	Luft	App. Total	Rig Hi	Thr	Bee rLe	Left	Har d Le	App.	Her d RI aht	Ben r FU eht	Ben rt.u	Left	Har d La	App. Total	Har d Ri	Rig Mr.	Thr	Left	Her d Le	App.	Her d Ri	Rip M	Ben rRI	Bon rLn	Har dLe	App.	Int. Total
Peak Hou	r An	alysis	Fro	m 07	:00 A	M to (	08:45	AM	- Pea	ak 1 c	of 1																										
Peak H	our	for I	Enti	re Ir	iters	ectio	n B	egir	ns a	t 07	15	AM																									
07:15 AM	0	7	0	61	0	68	0	0	92	1	2	95	0	0	0	0	0	0	0	0	0	0	9	9	0	10	48	0	0	58	19	6	12	0	0	37	267
07:30 AM	0	17	2	95	0	114	0	0	96	0	5	101	0	0	0	0	0	0	0	0	0	0	11	11	5	10	61	0	0	76	17	10	16	0	0	43	345
07:45 AM	0	11	1	80	0	92	0	0	114	0	4	118	0	0	0	0	0	0	0	0	0	0	8	8	7	10	57	0	0	74	14	5	15	1	0	35	327
08:00 AM	0	6	0	59	_1_	66	0	0	101	3	8	112	0	0	0	0	0	0	0	1	0	0	9	10	5	11	55	0	0	71	14	10	26	0	0	50	309
Total Volume	0	41	3	295	1	340	0	0	403	4	19	426	0	0	0	0	0	0	0	1	0	0	37	38	17	41	221	0	0	279	64	31	69	1	0	165	1248
% App. Total	0	12.1	0.9	86.6	0.3		0	0	04.6	0.9	4.5		0	0	0	0	0		0	2.6	0	0	97,4		6.1	14.7	79.2	0	0		38.8	18.8	41.8	0.8	0		
PHF	.000	603	.375	778	250	.746	.000	000	884	.333	504	.903	.000	.000	.000	.000	.000	.000	.000	250	000	.000	841	864	607	93.2	.908	.000	.000	.918		.775	.083	250	.000	.825	.904



Commonwealth Avenue (Route 30) WB

E/W/NSW: Warren Street/Carriage Road

City, State: Brighton, MA Client: HSH/ J. SanClemente

P.O. Box 301 Berlin, MA 01503 Office: 508.481.3999 Fax: 508.545.1234 Email: datarequests@pdlilc.com

File Name: 112737 A1

Site Code : TBA

Start Date : 12/14/2011

Page No : 1

Groups Printed- Heavy Vehicles

	Co	mmon Rou) Fro		) WB	nue			TA Tra			Co	mmon Rou' Fro		) WB	nue		Carri From	iage F South					ren S om W					iage R North			
Start Time	Hard Right	Right	Bear Plots	Thru	Left	Right	Beer Right	Thru	Bear	Left	Right	Thru	Bear	Left	Herd Left	Hard Right	Bear Right	Boar Lett	Left	Hard	Hard Right	Right	Thru	Left	Herd	Herd Right	Right	Bear Right	Boar Left	Hard Let	Int. Total
07:00 AM	0	0	0	1	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	2	0	5	0	0	1	0	1	0	0	13
07:15 AM	0	2	0	4	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	1	1	4	0	0	1	2	0	0	0	18
07:30 AM	0	2	0	6	0	0	0	3	0	1	. 0	0	0	0	0	0	0	0	0	0	1	2	1	0	0	2	1	1	0	0	20
07:45 AM	0	_0	0	2	0	0	0	_1_	0	_1	0	0	0	0	0	0	0	0	0	0	0	_1	4	0	0	1	3	_ 1_	0	0	14
Total	0	4	0	13	0	0	0	10	0	2	0	0	0	0	0	0	0	0	0	0	4	4	14	0	0	5	6	3	0	0	65
	e =																			10										100	
MA 00:80	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	3
08:15 AM	0	1	0	3	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0	1	0	0	13
08:30 AM	0	0	0	4	0	0	0	1	0	1	0	0	0	0	0	0	1	0	0	0	0	2	1	0	0	1	1	0	0	0	12
08:45 AM	_ 0	0	0	_1	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	_ 1	3	0	0	0	10
Total	0	1	0	8	0	0	0	10	0	1	0	0	0	0	0	0	1	0	0	1	1	2	4	0	0	3	4	2	0	0	38
Grand Total	0	5	0	21	0	0	0	20	0	3	0	0	0	0	0	0	1	0	0	1	5	6	18	0	0	8	10	5	0	0	103
Apprch %	0	19.2	0	80.8	0	0	0	87	0	13	0	0	0	0	0	0	50	0	0	50	17.2	20.7	62.1	0	0	34.8	43,5	21.7	0	0	
Total %	0	4.9	0	20.4	0	0	0	19.4	0	2.9	0	0	0	0	0	0	1	0	0	1	4.9	5.8	17.5	0	0	7.8	9.7	4.9	0	0	

	С	(R	oute	ealth 30) Nor		nue			IBTA Fron				С	(R	oute	alth 30) \ Sout		ue			arriag om So							Stre Wes					arriag om N				
Start Time	Har d Ri	Rig N	Boa (Ri	Thr u	Left	App.	Rig M	Bear r FU	Thr	Ben r Lu	Left	App.	Rig ht	The Gr	Bee rLe	Left	Har d Le	App. Total	Her d Ri	Bes r Ri	Bea rLe	Left	Her d Le	App. Total	Her d Ri	Rig M	Thr	Left	Har d Le	App. Total	Her d Ri	Rig ht	Bea r Ri	Bas /Ls	Har d Lu	App. Total	int, Total
Peak Hou	r An	alysis	Fro	m 07	:00 A	M to (	8:45	AM	- Pea	k 1 c	of 1		-						-																		-
Peak H	our	for E	Entii	re In	ters	ectio	n B	egir	ns at	07	00 A	M/																									
07:00 AM	0	0	0	1	0	1	0	Ō	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	2	0	5	0	0	7	1	0	1	0	0	2	13
07:15 AM	0	2	0	4	0	6	0	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	1	1	4	0	0	6	1	2	0	0	0	3	18
07:30 AM	0	2	0	6	0	8	0	0	3	0	1	4	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	0	0	4	2	1	1	0	0	4	20
07:45 AM	0	0	0	2	0	2	0	0	1	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	0	0	5	1	3	1	0	0	5	14
Total Volume	0	4	0	13	0	17	0	0	10	0	2	12	0	0	0	0	0	0	0	0	0	0	0	0	4	4	14	0	0	22	5	6	3	0	0	14	65
N. App. Total		22.5	0	75.5	0		0	0	53.3	0	16.7		0		0	0	0		0	0	.0	0	0	1	15.2	16.2	63.6	0	0		35.7	42 9	21.4	0	0		
PHF	000	500	000	542	000	.531	.000	000	433	.000	500	.750	.000	000	.000	.000	000	.000	000	- 000	.000	000	000	.000	500	500	700	.000	.000	.788	625	.500	750	.000	.000	.700	.813



Commonwealth Avenue (Route 30) WB E/W/NSW: Warren Street/Carriage Road

City, State: Brighton, MA
Client: HSH/ J. SanClemente

P.O. Box 301 Berlin, MA 01503 Office: 508.481.3999 Fax: 508.545.1234 Email: datarequests@pdllic.com File Name: 112737 A1

Site Code : TBA

Start Date : 12/14/2011

Page No: 1

. 3

	C	(R	onwe oute -rom	30) V		ne			BTA From				Co	(R	oute	alth A 30) V Sout	٧B	ue			rriag m So							Stre West						e Ro			
Start Time	Her d RI	Righ	r RU	Thr	Left	Ped	Fligh (	Bee r RI old	Thr	Bea rLef	Left	Ped	Righ 1	The u	Ben r Lef	Left	Her dLe	Ped	Her d Ri	Bea rRi	Bota r Lerf	Left	Her d Le	Ped	Har d Ri	Righ	Thr	Left	Har d Le	Ped	Har d RI	Righ	Beat r Ri	Bos r Lef	Her dLe	Ped	To
07:15 AM	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	10	0	0	1	0	0	5	0	0	0	0	0	1	3
2:30 AM	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	31	4	0	1	0	0	5	0	0	0	0	0	22	10
Total	0	0	0	0	0	28	0	0	2	0	0	1	0	0	0	0	0	81	0	0	0	0	0	80	4	0	13	0	0	33	0	0	0	0	0	91	33
05:00 AM 1:15 AM	0	0	0	0	0	13	0	0	1	0	0	0	0	0	0	0	0	35	0	0	0	0	0	37	0	0	0	0	0	20	0	0	0	0	0	16	12
45 AM	0	0	0	0	0	5	0	0	1	0	0	0	0	0	0	0	0	16	0	0	0_	0	0	17	1	0	1	0	0	6	1	0	0	0	0	24	7
Total	0	1	0	1	1	4	0	0	2	0	0	3	0	0	0	0	0	111	0	0	0	0	0	120	1	0	4	0	0	53	2	1	0	1	0	86	43
and Total	0	1	0	1	1	71	0	0	4	0	0	4	0	0	0	0	0	192	0	0	0	0	0	200	5	0	17	0	0	86	2	1	0	1	0	177	76
prch %	0	1.4	0	1,4	1.4	95.9	0	0	50	0	0	50	0	0	0	0	0	100	0	0	0	0	0	100	4.6	0	15.7	0	0	79.6	1.1	0.6		0.6	0	97.8	
otal %	0	0.1	0	0.1	0.1	9.3	0	0	0.5	0	0	0.5	0	0	0	0	0	25.2	0	0	0	0	0	26.2	0.7	0	2.2	0	0	11.3	0,3	0,1	0	0.1	0	23.2	ł

	ā		mon Rou Fro		0) W	/B	ue		1	MBT Fro	A Ti		s		0		Rou	te 3	Ith A 0) W	/B	ue			Carri						١			Stree Vest						age Nort				
Stert Time	Han rd RJ	PU ght	Be er Ri oht	Th 2	Lof	Pe da	App. Tota	Ri gM	Be er Ri	Th ru	Be ar Lef	Lef 1	Pe da	App. Tota	FU ght	Th ru	Be ar Lef	Lef	He no Lef	Pe da	App. Tota	Ha rd RJ ght	Be ar Ri oht	Be ar Luf	Lef	He rd Lef	Pe ds	App. Total	Ha rd Ri pM	Ri ght	Th cu	Lef	Ha rd Lef	Pe da	App. Tota	He rd RJ pht	Pi gHL	Be ar Ri phi	Bo ar Laf	Ha rd Lef	Plo de	App. Tota	Int. Tota
Peak Ho																																											
Peak H	lou	r fo	r Ei	ntire	e In	ters	secti	on	Beg	jins	at (	07:	30 A	M/														24	7														ii.
07:30 AM	0	0	0	0	0	8	8	0	0	0	0	0	0	0	0	0	0	0	0	30	30	0	0	0	0	0	31	31	4	0	1	0	0	5	10	0	0	0	0	0	22	22	101
07:45 AM	0	0	0	0	0	11	11	0	0	1	0	0	1	2	0	0	0	0	0	24	24	0	0	0	0	0	24	24	0	0	5	0	0	15	20	0	0	0	0	0	33	33	114
08:00 AM	0	1	0	0	1	15	17	0	0	0	0	0	2	2	0	0	0	0	0	35	35	0	0	0	0	0	38	38	0	0	1	0	0	17	18	0	0	0	1	0	36	37	147
08:15 AM	0	0	0	0	0	13	13	0	0	1	0	0	0	1	0	0	0	0	0	35	35	0	0	0	0	0	37	37	0	0	0	0	0	20	20	0	0	0	0	0	16	16	122
Total Volume	0	1	0	0	1	47	49	0	0	2	0	0	3	5	0	0	0	0	0	12	124	0	0	0	0	0	13	130	4	0	7	0	0	67	68	0	0	0	1	0	10 7	108	484
% App.	0	2	0	0	2	95.		0	0	40	0	0	60		0	0	0	0	0	10 0		0	0	0	0	0	10		5.9	۰	10.	0	0	83		0	0	0	0.0	0	99.		
PHF	00	25	.00	.00	.25	.78	721	.00	00	.50	.00	.00	.37	525	.00	.00	.00	.00	.00	.88	.886	.00	.00	.00	00	00	85	.855	25	.00	35	.00	.00	.71	.850	.00	.00	.00	.26	.00	.74	,730	823



Commonwealth Avenue (Route 30) WB

E/W/NSW: Warren Street/Carriage Road City, State: Brighton, MA Client: HSH/ J. SanClemente

P.O. Box 301 Berlin, MA 01503 Office: 508.481.3999 Fax: 508.545.1234 Emall: datarequests@pdillc.com

File Name: 112737 A1

Site Code : TBA

Start Date : 12/14/2011

Page No :1

Groups Printed- Trains

	Co	mmon (Rou Fro		WB	nue			TA Tra			Co	mmon Rout Fro		WB	nue		Carri From						ren Si om We					iage R North			
Start Time		Right	Beer Right	Thru	Left	Right	Bear Right	Thru	Boar Lieft	Left	Right	Thru	Bear Lett	Left	Hard Lait	Herd Right	Bear Right	Beer Left	Left	Herd	Herd Right	Right	Thru	Left	Hard Left	Hard Right	Right	Beer Right	Bear	Hard Left	int. Total
07:00 AM	0	0	0	1	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
07:15 AM	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
07:30 AM	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
07:45 AM	0	0	0	_1_	0	0	0	0	0	0	0	2	0	0	0	0	0	0	.0	0	0	0	0	0	0	0	0	0	0	0	3
Total	0	0	0	5	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
1/4						2				70						2				77							23			v.	
08:00 AM	0	0	0	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
08:15 AM	0	0	0	2	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
08:30 AM	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
08:45 AM	_ 0	0	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Total	0	0	0	8	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
										100										100									(5)		
Grand Total	0	0	0	13	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Apprch %	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total %	0	0	0	40.6	0	0	0	0	0	0	0	59,4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
					,															117										4.	

· (	C	(R	onwe oute From	30)		nue				Trac			С	(R	onwo loute From	30) \		ue				ge Ro outhy					arrer From						arriag om N				
Start Time	Her d Ri	Rig ht	Bes r Ri	The	Left	App. Total	Rig ht	Bess r Ri eN	Thr	Dea rLe	Left	App. Total	Rig HL	The	Bea rLs	Left	Her d La	App.	Her d Ri	Ben rRi sH	Bee r Le	Left	Her d Le	App. Total	Har d Ri	RUg Ha	Thr	Left	Har d Lu	App. Total	Har d RI	Rig M.	Bea rRi	Bea r Le	Her d Le	App. Total	Int. Total
Peak Hou	r Ana	alysis	Fro	m 07	:00 A	M to (	8:45	AM.	- Pea	k 1 c	of 1																										
Peak H	our	for I	Enti	e Ir	ters	ectio	n B	egir	ns at	08	00 A	M.																									
08:00 AM	0	0	0	3	0	3	0	Ō	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
08:15 AM	0	0	0	2	0	2	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
08:30 AM	0	0	0	1	0	1	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
08:45 AM	0	0	0	2	0	2	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Total Volume	0	0	0	8	0	8	0	0	0	0	0	0	0	10	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
N App Total				100										100																							
PHF	000	.000	.000	687	.000	.667	000	.000	.000	000	000	.000	.000	833	.000	200	.000	.833	.000	.000	.000	.000	.000	.000	000	000	.000	.000	.000	.000	000	.000	.000	000	000	.000	.750



Commonwealth Avenue (Route 30) WB

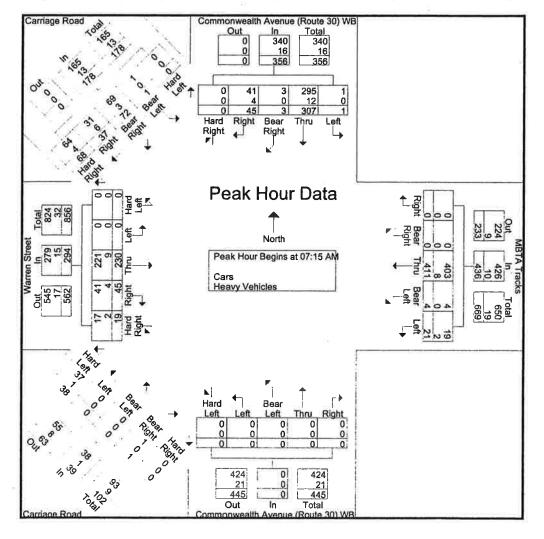
E/W/NSW: Warren Street/Carriage Road

City, State: Brighton, MA Client: HSH/ J. SanClemente P.O. Box 301 Berlin, MA 01503 Office: 508.481.3999 Fax: 508.545.1234 Email: datarequests@pdl/lc.com File Name: 112737 A1

Site Code : TBA

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	С	(F	onw loute From	30)	WB	nue		N		Tra n Ea:			С	(F	loute	ealth 30) Sou		nue			arriaç om S							n Stre					arriag om N				
Slart Time	Har d Ri	Rig ht	Bea rRi shi	Thr	Left	App <sub>e</sub> Total	Rig ht	r RI	Thr	Bea rLe	Left	App. Total	Rig ht	Thr u	Esa rLe	Left	Har dLa	App. Total	Her d Ri	Ron r Ri old	Bea rLs	Lefi	Har d Le	App. Total	d RU oht	Rig Ht	The	Left	Har dLe	App. Total	Her d Ri	Rig ht	Pen r Ri oht	Ena r Le	Her d Co	App Total	Int. Total
Peak Hou																							-						-		-						
Peak H	our	for I	Enti	re Ir	iters	section	n B	egir	ns a	t 07	:15 /	AM													ū.												
07:15 AM	0	9	0	65	0	74	0	0	95	1	2	98	0	0	0	0	0	0	0	0	0	0	9	9	1	11	52	0	0	64	20	8	12	0	0	40	285
07:30 AM	0	19	2	101	0	122	0	0	99	0	6	105	0	0	0	0	0	0	0	0	0	0	11	11	6	12	62	0	0	80	19	11	17	0	0	47	365
07:45 AM	0	11	1	82	0	94	0	0	115	0	5	120	0	0	0	0	0	0	0	0	0	0	8	8	7	11	61	0	0	79	15	8	16	1	0	40	341
08:00 AM	0	6	0	59	1	66	0	0	102	3	8	113	0	0	0	0	0	0	0	1	0	0	10	11	5	11	55	0	0	71	14	10	27	0	0	51	312
Total Volume	0	45	3	307	1	356	0	0	411	4	21	436	0	0	0	0	0	0	0	1	0	0	38	39	19	45	230	0	0	294	68	37	72	1	0	178	1303
% App, Total	0	12.6	0.8	66.2	0.3		0	0	94.3	0.9	4.B		0	0	0	0	0		0	2.5	0	0	97.4		6.5	15.3	76.2	0	0		38.2	20.6	40.4	0.8	0		
PHF	.000	547	375	760	250	.730	000	.000	893	.333	.654	908	.000	.000	.000	.000	.000	.000	.000	.250	.000	000	884	.888	679	.938	,927	.000	.000	.919	850	841	887	250	.000	873	.892
Cars	0	41	3	295	1	340	0	0	403	4	19	426	0	0	0	0	0	0	0	1	0	0	37	38	17	41	221	0	0	279	64	31	69	1	0	165	1248
% Cars	0	91.1	100	96.1	100	95.5	0	0	98,1	100	90.5	97.7	0	0	0	0	0	0	0	100	0	0	97.4	97.4	89.5	81.1	96.1	0	0	94.9	94.5	83.8	95.8	100	0	92.7	95.8
Heavy Vehicles	0	4	0	12	0	16	0	0	8	0	2	10	0	0	0	0	0	0	0	0	0	0	1	1	2	4	9	0	0	15	4	6	3	0	0	13	55
% Heavy Valueliss	0	8.9	0	3.9	0	4.5	0	0	1.9	0	9.5	2.3	0	0	0	0	0	0	0	0	0	0	2.6	2.6	10.5	8,9	3.9	0	0	5.1	5.9	16.2	4.2	0	0	7.3	4.2





Lommonwealth Avenue (Route 30) EB E/W/NSE: Kelton Street/Carriage Road

City, State: Brighton, MA Client: HSH/ J. SanClemente

P.O. Box 301 Berlin, MA 01503 Office: 508.481.3999 Fax: 508.545.1234 Email: datarequests@pdllic.com

File Name: 112737 A2

Site Code : TBA

Start Date : 12/14/2011

												Gr	oups	Printed	i- Ca	rs - H	avy V	ehicle	s												
	Co		wealtl ute 30 om No	) EB	eun		Carri	iage f Norti					ton S					iage R South		**	Co		wealt ute 30 om So	) EB	nue			TA Tra			
Start Time	Rlight	Thru	Boar Laft	Left	Hard Left	Hurd Right	Beer Right	Bear	Left	Hard	Hard Stight	Right	Thru	Left	Hard	Hard Right	Right	Beer Right	Boar	Hard Left	Hard Right	Right	Bear Right	Thru	Left	Right	Beer Right	Thru	Bear Left	Left	Int. Yotal
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	1	34	0	0	0	0	0	0	0	0	3	0	78	49	0	0	28	1	10	204
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	1	44	0	0	1	1	0	0	0	0	6	2	99	59	0	0	41	0	11	265
07:30 AM	0	0	0	0	0	0	0	0	0	0	1	1	48	0	0	3	4	0	0	0	0	0	0	132	56	0	0	55	0	7	307
07:45 AM	0	0	0	0	0	0	_ 0	0	0	0	2	3	58	0	_0	4	8	_1_	_0_	0	_0_	16	2	163	64	0	_0_	52	0	_10	383
Total	0	0	0	0	0	0	0	0	0	0	3	6	184	0	0	8	13	1	0	0	0	25	4	472	228	0	0	176	1	38	1159
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	22	51	0	0	1	6	0	0	0	0	3	0	142	56	0	0	41	0	14	336
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	4	51	0	0	2	7	0	0	0	0	3	1	161	63	0	0	49	1	9	351
08:30 AM	0	0	0	0	0	0	0	0	0	0	2	16	41	0	0	2	1	0	0	0	0	2	1	165	42	0	0	39	0	11	322
08:45 AM	0	0	0	0	0	0	0	0	0	0	_ 0	11	46	0	0	3	6	0	0	0	0	2	1	175	42	0	0	46	1	11	344
Total	0	0	0	0	0	0	0	0	0	0	2	53	189	0	0	8	20	0	0	0	0	10	3	643	203	0	0	175	2	45	1353
Grand Total	0	0	0	0	0	0	0	0	0	0	5	59	373	0	0	16	33	1	0	0	0	35	7	1115	431	0	0	351	3	83	2512
Apprch %	0	0	0	0	0	0	0	0	0	0	1.1	13.5	85.4	0	0	32	66	2	0	0	0	2.2	0.4	70.2	27.1	0	0	80.3	0.7	19	
Total %	0	0	0	0	0	0	0	0	0	0	0.2	2.3	14.8	0	0	0.6	1.3	0	0	0	0	1.4	0.3	44.4	17.2	0	0	14	0.1	3.3	
Cars	0	0	0	0	0	0	0	0	0	0	3	56	362	0	0	15	33	1	0	0	0	34	6	1095	420	0	0	340	3	76	2444
% Cars	0	0	0	0	0	0	0	0	0	0	60	94.9	97.1	0	0	93.8	100	100	0	0	0	97.1	85,7	98,2	97.4	0	0	98.9	100	91.6	97.3
Heavy Vehicles	0	0	0	0	0	0	0	0	0	0	2	3	11	0	0	1	0	0	0	0	0	1	1	20	11	0	0	11	0	7	68
1	n	٥	Ω	0	ا ۵	٥	0	Ω	0	o l	40	5.1	2.9	0	0	6.2	0	a	n	اه	O	2.9	14.3	1.8	2.6	n	0	3.1	0	8.4	27

	С	(F	onwe loute	30)		nue			arriaç om N						Celtor Fron						arriaç om S				C		oute	alth 30) Sou	EΒ	nue			IBTA From				
Start Time	Füg Hi	Thr u	Ben rLe	Left	Har d Le	App. Total	Har d Ri	Bea r Rt	Bean rLe	Left	Har d Lu	App. Total	Her d Ri	Rig NI	The U	Left	Har d Le	App.	d Ri	Rig M	eeB rRi	Bue rLu	Har d Le	App. Total	Har d Ri aht	Rig M	r Ri	Thr ;¥.	Left	App. Talal	Rig H	r Pil	Thr	Pan rLe	Left	Appi Total	Int. Total
eak Hou																	11.07		Herores				1000				PLC-							17		,,—	
Peak H	our	for E	Entir	e In	ters	ectic	n B	egir	ıs at	07:	45 A	M.																									
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	2	3	58	0	0	63	4	8	1	0	0	13	0	16	2	163	64	245	0	0	52	0	10	62	383
MA 00:80	0	0	0	0	0	0	0	0	0	0	0	0	0	22	51	0	0	73	1	6	0	0	0	7	0	3	0	142	56	201	0	0	41	0	14	55	336
08;15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	4	51	0	0	55	2	7	0	0	0	9	0	3	1	161	63	228	0	0	49	1	9	59	351
08:30 AM	0	0	0	0	0	0	0	0	0	_0_	0	0	2	16	41	0	0	59	2	_ 1_	0	0	0	3	0	2	1	165	42	210	0	0	39	0	11	50	322
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	4	45	201	0	0	250	9	22	1	0	0	32	0	24	4	631	225	884	0	0	181	1	44	226	1392
% App. Total	0	0	0	0	0		0	0	0	- 0	0		1.6	18	80.4	0	0		26.1	68.6	3.1	0	0		0	2.7	0.5	71A	25.5		0	0	80.1	0.4	19.5		
Pre	000	.000	000	000	900	.000	000	960	000	000	.000	.000	500	.511	868	000	.000	856	583	.684	250	.000	000	615	000	.375	500	058	879	902	000	000	870	250	794	911	.909
Cars	0	0	0	0	0	0	0	0	0	0	0	0	2	43	197	0	0	242	9	22	1	0	0	32	0	23	4	617	221	865	0	0	176	1	43	220	1359
% Cars	0	0	0	0	0	0	0	0	0	0	0	0	50.0	95.6	96.0	٥	0	96.8	100	100	100	0	0	100	0	95.8	100	97.8	95.2	97.9	0	0	97.2	100	97.7	97.3	97,6
Heavy Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	2	2	4	0	0	8	0	0	0	0	0	0	0	1	0	14	4	19	0	0	5	0	1	6	33
% Heavy Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	50.0	4.4	2.0	0	0	3.2	0	0	0	0	0	0	0	4.2	0	2.2	1.8	2.1	0	0	2.8	0	2.3	2.7	2.4



Lommonwealth Avenue (Route 30) EB

E/W/NSE: Kelton Street/Carriage Road

City, State: Brighton, MA Client: HSH/ J. SanClemente P.O. Box 301 Berlin, MA 01503 Office: 508.481.3999 Fax: 508.545.1234 Email: datarequests@pdillc.com File Name: 112737 A2

Site Code : TBA

Start Date : 12/14/2011

Page No : 1

Groups Printed- Cars

	Co		wealtl ite 30 im No	) EB	nue			iage F North					ton St om Ea					age R South			Co	(Ro	iweall ute 30 om Sc		nue			TA Tra			
Start Time	Right	Thru	Bear Left	Left	Hard Left	Hard Right	Baser Right	Bear Left	Left	Hard Left	Hard Right	Right	Thru	Left	Hard	Hard Right	Right	Beer Right	Bear Left	Hard Left	Herd Right	Right	Beer Right	Thru	Left	Rlight	Boer Right	Thru	Bear Left	Left	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	1	34	0	0	0	0	0	0	0	0	3	0	76	46	0	0	25	1	8	194
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	1	43	0	0	0	1	0	0	0	0	6	2	98	57	0	0	39	0	9	256
07:30 AM	0	0	0	0	0	0	0	0	0	0	1	1	44	0	0	3	4	0	0	0	0	0	0	129	55	0	0	54	0	7	298
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	3	57	0	0	4	8	_1_	0	0	0	15	2	160	64	0	0	49	0	9	372
Total	0	0	0	0	0	0	0	0	0	0	- 1	6	178	0	0	7	13	1	0	0	0	24	4	463	222	0	0	167	1	33	1120
					14										10	11				2					- 12						
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	21	51	0	0	1	6	0	0	0	0	3	0	140	55	0	0	41	0	14	332
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	3	50	0	0	2	7	0	0	0	0	3	1	157	60	0	0	48	1	9	341
08:30 AM	0	0	0	0	0	0	0	0	0	0	2	16	39	0	0	2	1	0	0	0	0	2	1	160	42	0	0	38	0	11	314
08:45 AM	0	0	0	0	0	0	0	0	0	0	0	10	44	0	0	3	6	0	0	0	0	2	0	175	41	0	0	46	1	9	337
Total	0	0	0	0	0	0	0	0	0	0	2	50	184	0	0	8	20	0	0	0	0	10	2	632	198	0	0	173	2	43	1324
Grand Total	0	0	0	0	0	0	0	0	0	0	3	56	362	0	0	15	33	1	0	0	0	34	6	1095	420	0	0	340	3	76	2444
Apprch %	0	0	0	0	0	0	0	0	0	0	0,7	13.3	86	0	0	30.8	67.3	2	0	0	0	2.2	0.4	70.4	27	0	0	81,1	0.7	18.1	
Total %	0	0	0	0	0	0	0	0	0	0	0.1	2.3	14.B	0	0	0.6	1.4	0	0	0	0	1.4	0.2	44.8	17.2	0	0	13.9	0.1	3.1	
7																															

	C	(F	onwe Route From	30)		ue				ge Ro				ı	Keltoi Fron							ge Ro outh			C	٠,	oute	alth 30) Sou	ЕВ	nue				Trac			
Start Time	FUg HI	Thr	Ben rLe	Left	Her dLe	App. Total	Her d Ri	Pee rRi	Bess rLe	Left	Har d Le	App. Total	Her d Ri ght	Rig M	Thr W	Left	Her d Le	App.	Her d Ri	Riig M	Bee r FU pht	Ras rLs	Har d Le	App. Total	Her d Ri	Rig ht	Bee r Ri	Thr	Left	App. Total	Rig HL	Bee r FU	Thr	Bes	Left	App. Total	(nl. Total
eak Hou	r Ana	alysis	From	n 07	00 A	M to C	8:45	AM.	- Pea	k 1 o	of 1		.,												-												
eak H	our	for I	Entir	e In	ters	ectio	n B	egir	s at	07:	45 A	M																									
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	3	57	0	0	60	4	8	1	0	0	13	0	15	2	160	64	241	0	0	49	0	9	58	372
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	21	51	0	0	72	1	6	0	0	0	7	0	3	0	140	55	198	0	0	41	0	14	55	332
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	3	50	0	0	53	2	7	0	0	0	9	0	3	1	157	60	221	0	0	48	1	9	58	341
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	_0	2	16	39	0	0	57	2	. 1	0	0	0	3	0	2	1	160	42	205	0	0	38	0	11	49	314
Total Volume	0	0	0	0	0	0	0	0	0	0	0	.0	2	43	197	0	0	242	9	22	1	0	0	32	0	23	4	817	221	865	0	0	178	1	43	220	1359
N App. Total	0	0	0	0	0		0	0	0	0	0		0.8	17.4	61.4		0		28.1	68,8	3.1	0	0		0	2.7	0.5	71.3	25.5		0	0	80	0.5	19.5		
PHF						200						000						- 040																	1,000		



commonwealth Avenue (Route 30) EB

E/W/NSE: Kelton Street/Carriage Road

City, State: Brighton, MA
Client: HSH/ J. SanClemente

P.O. Box 301 Berlin, MA 01503 Office: 508.481.3999 Fax: 508.545.1234 Email: datarequests@pdillc.com File Name: 112737 A2

Site Code : TBA

Start Date: 12/14/2011

Page No :1

Groups Printed- Heavy Vehicles

	Co		wealtl te 30 m No	EB	nue			iage F Norti					on St				Carri From	age R South			Co	(Roi	wealt ute 30 om Sc		nue			TA Tra			
Start Time	Right	Thru	Bear	Left	Herd Left	Hard Flight	Beer Right	Boor Left	Left	Hard Left	Hard	Right	Thru	Left	Herd Left	Hard Right	Right	Boar Right	Bear Left	Hard Laft	Herd Right	Rlight	Bear Right	Thru	Left	Right	Bear Rive	Thru	Bear 1 at	Left	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	0	0	3	0	2	10
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	1	2	0	0	2	0	2	9
07:30 AM	0	0	0	0	0	0	0	::0	0	0	0	0	4	0	0	. 0	0	0	0	0	0	0	0	3	1	0	0	1	0	0	9
07:45 AM	0	0	0	0	0	0	0	0	_0_	0	_2	0	_1	0	0	0	0	0	0	0	0	_1	0	3	0	0	0	3	0	1	11
Total	0	0	0	0	0	0	0	0	0	0	2	0	6	0	0	1	0	0	0	0	0	1	0	9	6	0	0	9	0	5	39
â						U.				- 6					100					- 1											
08:00 AM	0	0	0	0	0	0	0	0	. 0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	4
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	4	3	0	0	1	0	0	10
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	5	0	0	0	1	0	0	8
08:45 AM	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	2	7
Total	0	0	0	0	0	0	0	0	0	0	0	3	5	0	0	0	0	0	0	0	0	0	1	11	5	0	0	2	0	2	29
Grand Total	0	0	0	0	0	0	0	0	0	0	2	3	11	0	0	1	0	0	0	0	0	1	1	20	11	0	0	11	0	7	68
Approh %	0	0	0	0	0	0	0	0	0	0	12.5	18.8	68.8	0	0	100	0	0	0	0	0	3	3	60.6	33.3	0	0	61.1	0	38.9	
Total %	0	0	0	0	0	0	0	0	0	0	2.9	4.4	16.2	0	0	1.5	0	0	0	0	0	1.5	1.5	29.4	16.2	0	0	18.2	0	10.3	
															- 10					. ,						_	-				

	े <u>च</u>	(F	onwe Route From	30)		nue				ge R				ŀ	Celtor Fron						arriaç om S				C		onwe	30)	EB	nue			-	Trac			
Start Time	Rig M	Thr	Bea r Le	Left	Har dLe	App. Total	Har d RI oht	Bea rRI ght	Bee rle	Len	Her d Le	App. Total	Her d Rii	Rig Hi	Thr	Left	Har d Le	App. Total	Har d Ri gN	FUg M	Bear r RI	Bee rLe	Har d Le	App. Total	Her d RI	Rig Ht	Pena r Ri	Thr	Left	App. Total	Rip Hi	Bes r R/	Thr	Ban rin A	Left	App. Total	int. Total
Peak Hou																																					
Peak H	our	for l	Enti	re In	iters	ectio	n B	egir	ns a	t 07	:00 A	MA																									
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	5	0	0	3	0	2	5	10
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	1	0	0	0	1	2	3	0	0	2	0	2	4	9
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	0	0	0	3	1	4	0	0	1	0	0	1	9
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	_0	2	0	_1	0	0	3	0	0	0	0	0	0	0	1	0	3	0	4	0	0	3	0	1	4	11
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	2	0	6	0	0	8	1	0	0	0	0	1	0	1	0	9	6	16	0	0	9	0	5	14	39
% App. Total	0	0	0	0	0		0	0	0	0	0		25	0	75	0	0		100	_0_	0	_0_	0		0	6.2	0	56.2	37.5		0	0	64.2	0	35.7		
PHF	000	000	000	000	000	000	000	000	000	000	000	000	250	000	175	000	000	500	250	000	000	000	000	250	000	260	and	750	Enn	800	000	000	760	000	CAF	700	RRA



Commonwealth Avenue (Route 30) EB E/W/NSE: Kelton Street/Carriage Road City, State: Brighton, MA Client: HSH/ J. SanClemente

P.O. Box 301 Berlin, MA 01503 Office: 508.481.3999 Fax: 508.545.1234 Email: datarequests@pdlllc.com

File Name: 112737 A2

Site Code : TBA

Start Date : 12/14/2011

															Gro	ups	Print	ed- F	eds	and E	Bicyc	es															
	Co	(F	onwe loute rom	30) E	E8	ue			rriag om No						elton From						rriag m So				Co	•	oute	alth 30) Sou	EB	IUO				Trac Wes			ji L
Start Time	Fligh It	Thr	Bea r Lef	Left	Her dLe	Ped .	Har d Ri	r Ri ohl	Bee rLof	Left	Her d Le	Ped	Har d Ri	Righ	Thr	Left	Her d Le	Ped	Har d Ri	Righ 1	Bas rRi	Bee rLef	Her d La	Ped	Har d RI	Righ	Bana r Ri	Thr	Left	Ped 8	Righ t	Bean. r Ri	Thr	Bee r Lef	Left	Ped	Int. Total
07:00 AM	0	0	0	0	0	5	0	0	0	0	0	5	0	0	2	0	0	8	0	0	0	0	0	14	0	0	0	0	0	14	0	0	1	0	0	0	49
07:15 AM 07:30 AM	0	0	0	0	0	8	0	0	0	0	0	6	0	0	1	0	0	3	0	0	0	0	0	8	0	0	0	0	0	9	0	0	1	0	0	0	36
7:45 AM	0	0	0	0	0	7	0	0	0	0	0	8	0	0	0	0	0	11	0	0	0	0	0	13	0	0	0	1	0	13	0	0	5	0	0	0	58
Total	0	0	0	0	0	26	0	0	0	0	0	25	0	0	4	0	0	26	0	0	0	0	0	40	0	0	0	1	0	41	0	0	13	1	0	0	177
08:00 AM	_	•	•	•	_			_	_		_			_				_				_				_	_	•				_		_	_		١
8:15 AM	O	U	0	0	0	12	0	0	0	0	0	11	0	0	1	0	0	7	0	4	0	0	0	14	0	0	0	0	0	15	0	0	1	0	0	0	65
8:45 AM	0	0	0	0	0	5	0	0	0	0	0	5	0	0	0	0	0	2	0	1	0	0	0	10	0	1	0	0	1.	11	0	0	0	1	0	0	37
Total	0	0	0	0	0	41	0	0	0	0	0	40	0	0	2	0	0	23	0	9	0	0	0	56	.0	1	0	1	1	56	0	0	4	4	0	0	238
Grend Total	0	0	0	0	0	67	0	0	0	0	0	65	0	0	6	0	0	49	0	9	0	0	0	96	0	1	0	2	1	97	0	0	17	5	0	0	415
pprch %	0	0	0	0	0	100	0	0	0	0	0	100	0	0	10.B	0	0	89,1	0	8.8	0	0	0	91.4	0	1	0	2	1	96	0	0	77.3	22.7	0	0	
Total %	0	0	0	0	0	161	0	0	0	0	0	15.7	0	0	1.4	0	0	11.8	0	2.2	0	0	0	23.1	0	0.2	0	0.5	0.2	23.4	0	0	4.1	1.2	0	0	

(	1		mon (Rou Fro		0) E	В	ue			Carri								on S om E								Ro:			С	(	non Rou Fro	te 3	0) E	В	uө		ı	MBT Fro		rack Vest			
Start Time	RI gHI	Th nu	Ba er Lef	Lef 1	He rd Lef	Pe ds	App. Tota	Ha rd RI	Be er Ri	Be er Lef	Lef 1	He re	Po ds	App, Tobs	Ha rd Ri sht	Shi Shi	Th ru	Lef	He de de	Pe da	App. Tota	He rd Ri	RJ ght	Be er Ri	Be or Lef	Ha rd Lef	Pe ds	App. Tota	Ha rd Ri	RU ght	Be ar Ri old	Th ru	Lef (	Pe de	App. Tota	Fil ght	Be ar Ri	Th ru	Be ar Lef	Lef L	Pe de	App. Tota	int, Tota
⊃eak Ho																																											
Peak H	lou	r fo	r Ei	ntire	e In	ters	secti	ion	Beg	gins	at	07:	45 /	AM.																													
07:45 AM	0	0	0	0	0	7	7	0	0	0	0	0	8	8	0	0	0	0	0	11	11	0	0	0	0	0	13	13	0	0	0	1	0	13	14	0	0	5	0	0	0	5	58
MA 00.80	0	0	0	0	0	14	14	0	0	0	0	0	14	14	0	0	1	0	0	6	7	0	1	0	0	0	20	21	0	0	0	1	0	18	19	0	0	1	1	0	0	2	77
08:15 AM	0	0	0	0	0	12	12	0	0	0	0	0	11	11	0	0	1	0	0	7	8	0	4	0	0	0	14	18	0	0	0	0	0	15	15	0	0	1	0	0	0	1	65
08:30 AM	0	0	0	0	0	10	10	0	0	0	0	0	10	10	0	0	0	0	0	8	8	0	3	0	0	0	12	15	0	0	0	0	0	12	12	0	0	2	2	0	0	4	59
Total Volume	0	0	0	0	0	43	43	0	0	0	0	0	43	43	0	0	2	0	0	32	34	0	8	0	0	0	58	67	0	0	0	2	0	58	60	0	0	9	3	0	0	12	259
% App.	0	0	0	0	0	10		0	0	0	0	0	10		0	0	6.0	0	0	94.		0	11.	0	0	0	88.		0	0	0	3.3	0	96		0	0	75	25	0	0		
PHF	00	00	00	00	00	78	788	.00	00	00	.00	00	.76	768	00	00	50	00	.00	72	773	.00	.50 0	.00	00	00	.73	.798	00	.00	00	50	.00	80	.789	00	00	.45	37	00	00	500	841



Lommonwealth Avenue (Route 30) EB E/W/NSE: Kelton Street/Carriage Road City, State: Brighton, MA Client: HSH/ J. SanClemente

P.O. Box 301 Berlin, MA 01503 Office: 508.481.3999 Fax: 508.545.1234 Email: datarequests@pdillc.com

File Name: 112737 A2

Site Code : TBA

Start Date : 12/14/2011

													(	Group:	s Prin	ted-T	rains														
	Coi	(Ro	wealth ute 30) om No	EB	nue		Carri	iage F Nortl					on Sti om Ea				Carri From	age R South			Cor		wealth ite 30 m Soi	EB	nue			TA Tra			
Start Time	Right	Thru	Bear Left	Left	Hard Left	Herd Right	Bear Right	Boar Left	Left	Hard Left	Hard Right	Right	Thru	Left	Herd	Hert Right	Right	Beer Right	Bear Left	Hard Left	Hard Right	Right	Beer Right	Thru	Left	Right	Beer Right	Thru	Bear Left	Left	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	_0_	0	0	0	0	0	0	0	0	0	0	0	0_
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ä																									W					19	
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0	_0	0	0	0	0	_ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0_
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34															174										-	ľ					
Grand Total	0	0	0	0	, 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apprch %	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total %					ļ					- 1										- 1										- 1	

	C	(F	onwe Route From	30)		nue				ge Re Iorth					eltor From							ge Ro outhe			Co		oute	aith 30) Sou	EB	nue				Trac			
Start Time	Rig ht	Thr	Bee rLe	Left	Her d Le	App. Total	Her d Ri	Base r Ri	Bee rLe	Left	Her dLa	App. Total	Har d RI dM	Flig Ht	Thr	Leff	Her d Lu	App.	Her d Ri	Rig M	Ran rRi	Beat rLe	Har d Le	App Total	Har d Ri	Rig M	rRI dH	Thr	Left	App. Total	Rig ME	r RI	Thr	Bea rLe	Left	App. Total	Int. Total
eak Hou	r Ana	alysis	From	n 07	:00 A	M to (	8:45	AM	- Pea	k 1 c	of 1																										
eak H	our	for E	Entir	e Ir	ters	ectio	n B	egir	is at	07:	00 A	M.																		1114							7
07:00 AM	0	0	0	0	0	0	0	ō	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
App. Total	0	0	0	0	0		0	0	0	0	0		0	0	_0_	0	0		0	0	0	0	0		0	0	0	0	0		0	_0_	0	0	0		
PHF	.000	.000	.000	000	.000	.000	.000	.000	000	000	000	.000	000	.000	.000	000	.000	.000	2000	.000	000	.000	.000	.000	400	900	.000	.000	000	.000	000	000	000	.000	.000	-000	.000



Commonwealth Avenue (Route 30) EB

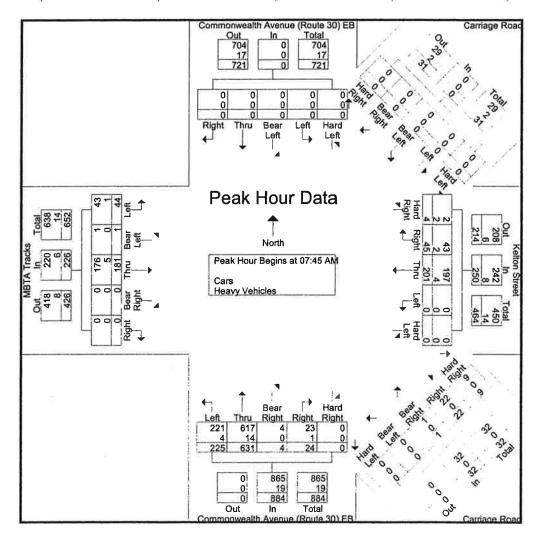
E/W/NSE: Kelton Street/Carriage Road

City, State: Brighton, MA Client: HSH/ J. SanClemente P.O. Box 301 Berlin, MA 01503 Office: 508.481.3999 Fax: 508.545.1234 Email: datarequests@pdlllc.com File Name: 112737 A2

Site Code : TBA

Start Date: 12/14/2011

	С	(F	onwe Route From	30)		nue			arriaç om N					ŀ	(elto							ge R			С	(F	onwe Coute	30)	E8	nue			IBTA From				
Start Time	Rig M	Thr	Bee rLe	Left	Her dLe	App. Total	Har d Ri	ee8 r Ri	rLe	Left	Her dte	App. Total	d RI	Rig HL	Thr	Left	Har d Le	App. Total	Har d Ri	Rig M	r Ri	Bea rLe	Har d Le	App. Total	Har d Ri	Rig fit	r RI	Thr	Left	App. Total	Rig Hi	Pee rRi	The	Bee rLe	Left	App. Total	InL Total
Peak Hou	ır An	alysi	From	m 07	:00 A	M to (	08:45	MA c	- Pea	k 1 c	of 1		-																			-					
Peak H	our	for	Entir	re Ir	ters	ectio	on B	egir	ns at	07:	45 A	MA													v.						200						
07:45 AM	0	0	0	0	0	0	0	Ō	0	0	0	0	2	3	58	0	0	63	4	8	1	0	0	13	0	16	2	163	64	245	0	0	52	0	10	62	383
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	22	51	0	0	73	1	-6	0	0	0	7	0	3	0	142	56	201	0	0	41	0	14	55	336
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	4	51	0	0	55	2	7	0	0	0	9	0	3	1	161	63	228	0	0	49	1	9	59	351
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	2	16	41	0	0	59	2	_ 1	0	0	0	3	0	2	1	165	42	210	0	0	39	0	11	50	322
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	4	45	201	0	0	250	9	22	1	0	0	32	0	24	4	631	225	884	0	0	181	1	44	226	1392
% App. Total	0	0	0	0	0		0	0	0	0	0		1.6	18	60.4	0	0		28.1	60.0	3.1	0	0		0	2.7	0.5	71,4	25.5		۰	٥	80.1	0.4	19.5		
PHF	000	000	.000	000	.000	.000	000	000	.000	000	.000	.000	500	511	.009	.000	.000	858	563	484	250	900	.000	615	.000	.375	500	.959	878	.902	.000	000	470	250	790	.911	.909
Cars	0	0	0	0	0	0	0	0	0	0	0	0	2	43	197	0	0	242	9	22	1	0	0	32	0	23	4	617	221	865	0	0	176	1	43	220	1359
% Cars	0	0	0	0	0	0	0	0	0	0	0	0	50.0	95.8	98.0	٥	0	96.8	100	100	100	0	0	100	0	95,6	100	97.8	98.2	97.9	0	0	97.2	100	97.7	97.3	97.6
Heavy Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	2	2	4	0	0	8	0	0	0	0	0	0	0	1	0	14	4	19	0	0	5	0	1	6	33
% Heavy Vahician	0	0	0	0	0	0	0	0	0	0	0	0	50,0	4.4	2.0	0	0	3.2	0	0	0	0	0	0	0	4,2	0	2.2	1,8	2.1	0	0	2.8	0	2.3	2.7	2.4





Commonwealth Avenue (Route 30) WB E/W/NSW: Warren Street/Carriage Road City, State: Brighton, MA Client: HSH/ J. SanClemente

P.O. Box 301 Berlin, MA 01503 Office: 508.481.3999 Fax: 508.545.1234 Email: datarequests@pdillc.com

File Name: 112737 AA1

Site Code :: TBA

Start Date : 12/14/2011

	_					-										s - He	avy V	ehick	es		_										
	Co	(Rot	iwealt ite 30 om No	WB	nue			TA Tra			Coi	mmom Rou' Fro		WB	nue		Carri From						ren St om We					iage F North			
Start Time	Hard Plant	Right	Bear Dinte	Thru	Left	Right	Beer Rinks	Thru	Boar Lieft	Left	Right	Thru	Bear Luft	Left	Hard Lat	Hard Right	Beer Right	Bear Left	Left	Hard Left	Hard Right	Right	Thru	Left	Hard Left	Hard Right	Right	Bear Right	Baar (mb	Hard	int. Total
04:00 PM	0	17	1	95	3	0	0	62	1	11	0	0	0	0	0	0	0	0	0	8	2	22	64	0	0	12	16	10	0	0	324
04:15 PM	0	7	1	93	1	0	0	47	2	10	0	0	0	0	0	0	1	0	0	7	2	22	39	0	0	5	8	25	0	0	270
04:30 PM	0	17	0	121	1	0	0	60	1	4	0	0	0	0	0	0	0	0	0	10	5	15	70	0	0	7	11	24	0	0	346
04:45 PM	0	_ 5	1_	114	_1	0	0	67	1	6	0	0	0	0	0	0	_1_	0	0	10	2	17	45	0	_0	12	2	24	0	0	308
Total	0	46	3	423	6	0	0	236	5	31	0	0	0	0	0	0	2	0	0	35	11	76	218	0	0	36	37	83	0	0	1248
05:00 PM	0	11	0	134	2	0	0	64	1	13	0	0	0	0	0	0	0	0	0	3	3	32	61	0	0	10	8	29	0	0	371
05:15 PM	0	10	0	158	3	0	0	71	4	8	0	0	0	0	0	0	0	0	0	3	2	23	71	0	0	12	10	42	0	0	417
05:30 PM	0	2	0	120	1	0	0	65	0	12	0	0	0	0	0	0	0	0	0	3	5	16	87	0	0	15	6	32	0	0	364
05:45 PM	0	9	2	132	2	0	0	59	0	4	0	0	0	0	0	0	0	0	0	_1	_1_	11	59	0	0	10	12	21	0	0	323
Total	0	32	2	544	8	0	0	259	5	37	0	0	0	0	0	0	0	0	0	10	11	82	278	0	0	47	36	124	0	0	1475
Grand Total	0	78	5	967	14	0	0	495	10	68	0	0	0	0	0	0	2	0	0	45	22	158	496	0	0	83	73	207	0	0	2723
Apprch %	0	7.3	0.5	90.9	1.3	0	0	86.4	1.7	11.9	0	0	0	0	0	0	4.3	0	0	95.7	3.3	23.4	73.4	0	0	22.9	20.1	57	0	0	
Total %	0	2.9	0.2	35.5	0.5	0	0	18.2	0.4	2.5	0	0	0	0	0	0	0.1	0	0	1.7	0.8	5.8	18.2	0	0	_3	2.7	7.6	0	0	
Cars	0	76	5	959	14	0	0	483	10	65	0	0	0	0	0	0	2	0	0	45	21	157	493	0	0	80	64	206	0	0	2680
% Cars	0	97.4	100	99.2	100	0	0	97.6	100	95.6	.0	0	0	0	0	0	100	0	0	100	95.5	99.4	99.4	0	0	96:4	87.7	99.5	0	0	98.4
Heavy Vehicles	0	2	0	8	0	0	0	12	0	3	0	0	0	0	0	0	0	0	0	0	1	1	3	0	0	3	9	1	0	0	43
7 8	0	2.6	0	0.8	0	0	0	2.4	0	4.4	0	0	0	0	0	0	0	0	0	0	4.5	0.6	0.6	0	0	3.6	12.3	0.5	0	0	1.6

	Ci	(R	oute	ealth 30) Nor	WB	nue			BTA Fron				C	(R	onwe oute From	30) ۱		านอ			arria om S							n Stre						ge Ro			
Start Time	Her d Rt abs	Rig ht	Ren r Ri oht	Thr	Left	App. Total	RUg M	Bena r Ri oht	The	Ben rte	Left	App. Total	Flig (14	Thr	Bea r La	Left	Har d Le	App. Total	Har d Ri	Bea rRi oht	r Le	Left	Har d Le	App. Total	Har d RI	Rig HL	Thr #	Left	Har d Lo	App: Total	Her d Ri aht	Rig ht	Rea r RV gML	Bee rLe	Har d La	App. Total	Int. Total
Peak Hou	r Ana	alysis	Fro	m 04	00 F	M to	05:45	PM	- Pea	k 1 c	of 1																										
Peak H	our	for I	Enti	re Ir	ters	section	n B	egir	ns af	05:	:00 F	PM																									2
05:00 PM	0	11	0	134	2	147	0	0	64	1	13	78	0	0	0	0	0	0	0	0	0	0	3	3	3	32	61	0	0	96	10	8	29	0	0	47	371
05:15 PM	0	10	0	158	3	171	0	0	71	4	8	83	0	0	0	0	0	0	0	0	0	0	3	3	2	23	71	0	0	96	12	10	42	0	0	64	417
05:30 PM	0	2	0	120	1	123	0	0	65	0	12	77	0	0	0	0	0	0	0	0	0	0	3	3	5	16	87	0	0	108	15	6	32	0	0	53	364
05:45 PM	0	9	2	132	2	145	0	0	59	0	4	63	0	0	0	0	0	0	0	0	0	0	1	_1	1	11	59	0	0	71	10	12	21	0	0	43	323
Tatel Volume	0	32	2	544	8	586	0	0	259	5	37	301	0	0	0	0	0	0	0	0	0	0	10	10	11	82	278	0	0	371	47	36	124	0	0	207	1475
% App. Total	0	5.5	0.3	92.0	1.4		0	.0	86	1.7	123		٥	0.	0	0	0		0	0	0	0	100		3	22.1	74.9	0	0		22.7	17.4	59.9	0	0		
PHF	900	727	250	861	667	857	000	000	.012	313	.712	907	.000	000	000	.000	000	.000	000	.000	.000	900	#33	833	550	.641	799	.000	000	859	780	750	734	.000	000	,809	.884
Cars	0	31	2	540	8	581	0	0	254	5	35	294	0	0	0	0	0	0	0	0	0	0	10	10	11	81	278	0	0	370	45	31	123	0	0	199	1454
% Cars	0	95.9	100	99.3	100	99.1	0	0	98.1	100	94.6	97.7	0	0	0	0	0	0	0	0	0	0	100	100	100	98,5	100	0	0	99.7	95.7	86.1	99.2	0	0	96.1	98.6
Heavy Vehicles	0	1	0	4	0	5	0	0	5	0	2	7	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2	5	1	0	0	8	21
% Heavy Vehicles	0	3.1	0	0.7	0	0.9	0	0	1.0	0	5.4	2.3	0	0	0	0	0	0	0	0	0	0	0	0	0	1.2	0	0	0	0.3	4.3	19.9	0.8	0	0	3.9	1.4



P.O. Box 301 Berlin, MA 01503 Office: 508.481.3999 Fax: 508.545.1234 Ernall: datarequests@pdillc.com

File Name: 112737 AA1

Site Code : TBA

Start Date : 12/14/2011

Page No : 1

ommonwealth Avenue (Route 30) WB E/W/NSW: Warren Street/Carriage Road City, State: Brighton, MA Client: HSH/ J. SanClemente

														Group	s Pri	nted-	Cars														57
	Co	(Rou	wealt ite 30 om No	WB	une			TA Tra			Coi	nmonv (Rout Fro		WB	nue		Carri From						ren St om We					iage R North			
Start Time	Hard Right	Right	Bear Right	Thru	Left	Right	Boar Right	Thru	Baser Laft	Left	Rlight	Thru	Bear	Left	Herd	Hard Right	Bear Right	Bear Left	Left	Hard Left	Hard Right	Right	Thru	Left	Hard	Hard Right	Right	Bear Right	Bour Left	Hard L=t	Int. Total
04:00 PM	0	17	1	94	3	0	0	60	1	11	0	0	0	0	0	0	0	0	0	8	1	22	62	0	0	11	14	10	0	0	315
04:15 PM	0	7	1	93	1	0	0	45	2	9	0	0	0	0	0	0	1	0	0	7	2	22	39	0	0	5	6	25	0	0	265
04:30 PM	0	16	0	118	1	0	0	59	1	4	0	0	0	0	0	0	0	0	0	10	5	15	70	0	0	7	11	24	0	0	341
04:45 PM	0	5	1	114	1	0	0	65	_ 1	6	0	0	0	0	0	0	_1_	0	_0	10	2	17	44	0	0	12	2	24	0	_ 0	305
Total	0	45	3	419	6	0	0	229	5	30	0	0	0	0	0	0	2	0	0	35	10	76	215	0	0	35	33	83	0	0	1226
05:00 PM	0	10	0	133	2	0	0	59	1	12	0	0	0	0	0	0	0	0	0	3	3	31	61	0	0	9	6	28	0	0	358
05:15 PM	0	10	0	156	3	0	0	71	4	8	0	0	0	0	0	0	0	0	0	3	2	23	71	0	0	11	8	42	0	0	412
05:30 PM	0	2	0	120	1	0	0	65	0	11	0	0	0	0	0	0	0	0	0	3	5	16	87	0	0	15	6	32	0	0	363
05:45 PM	0	9	2	131	2	0	0	59	0	4	0	0	0	0	0	0	0	0	0	_ 1	_1_	11	59	0	0	10	11	21	0	0	321
Total	0	31	2	540	8	0	0	254	5	35	0	0	0	0	0	0	0	0	0	10	11	81	278	0	0	45	31	123	0	0	1454
Grand Total	0	76	5	959	14	0	0	483	10	65	0	0	0	0	0	0	2	0	0	45	21	157	493	0	0	80	64	206	0	0	2680
Apprch %	0	7.2	0.5	91	1.3	0	0	86.6	1.8	11.8	0	0	0	0	0	0	4.3	0	0	95.7	3.1	23.4	73.5	0	0	22,9	18.3	58.9	0	0	
Total %	0	2.8	0.2	35.8	0.5	0	0	18	0.4	2.4	0	0	0	0	0	0	0.1	0	0	1.7	8.0	5.9	18.4	0	0	3	2.4	7.7	0	0	

1	-																	_	_			_															
	D	(R	oute	ealth 30) Nor		nue			BTA From				C	(R	onwe oute rom	30) \	NΒ	iue			arriag om So						arrer From							e Ro orthw			
Start Time	Har d Ri	Rig H	Bea r RV	Thr	Left	App. Total	Rig M	Bee r Ri	Thr	Ben rLe	Left	App Total	FUg Nt	Thr	Bea rte	Left	Her d Le	App. Total	Har d Ri	Bea r Rt oht	Bea rLe	Left	Har d Le	App Total	Har d RI	Rig M	Thr	Left	Her d Le	App.	Har d Ri atsi	Rig Hi	Bena rRi ghi	Ben rLe	Her d Le	App. Total	Int. Total
eak Hou	r Ana	alysis	Fro	m 04	:00 F	M to (	05:45	PM	- Pea	k 1 c	of 1				-																						
Peak He	our	for I	Enti	re Ir	nters	ectio	n B	egir	is at	05:	:00 F	PM .							e e																		
05:00 PM	0	10	0	133	2	145	0	Ō	59	1	12	72	0	0	0	0	0	0	0	0	0	0	3	3	3	31	61	0	0	95	9	6	28	0	0	43	358
05:15 PM	0	10	0	156	3	169	0	0	71	4	8	83	0	0	0	0 '	0	0	0	0	0	0	3	3	2	23	71	0	0	96	11	8	42	0	0	61	412
05:30 PM	0	2	0	120	1	123	0	0	65	0	11	76	0	0	0	0	0	0	0	0	0	0	3	3	5	16	87	0	0	108	15	6	32	0	0	53	363
05:45 PM	0	9	2	131	2	144	0	0	59	0	4	63	0	0	0	0	0	0	0	0	0	0	1	1	1	11	59	0	0	71	10	11	21	0	0	42	321
Total Volume	0	31	2	540	8	581	0	0	254	5	35	294	0	0	0	0	0	0	0	0	0	0	10	10	11	81	278	0	0	370	45	31	123	0	0	199	1454
% App. Total	0	5.3	0.3	02.9	354		0	0	88.4	1.7	11.0		0	٥	0	0	0		.0	٥	0	0	100		3	21.0	75.1	٥	0		22.8	15.6	61.8	0	0		
PHF	000	.776	250	965	447	.859	000	000	294	313	.729	.888	000	.000	.000	000	.000	.000	000	000	000	000	099	833	550	959	700	000	000	858	750	705	742	000	.000	818	.882



Commonwealth Avenue (Route 30) WB

E/W/NSW: Warren Street/Carriage Road

City, State: Brighton, MA Client: HSH/ J. SanClemente P.O. Box 301 Berlin, MA 01503 Office: 508.481.3999 Fax: 508.545.1234 Email: datarequests@pdfllc.com File Name: 112737 AA1

Site Code : TBA

Start Date : 12/14/2011

													Group	s Pri	nted-	Heavy	/ Vehic	cles													
	Co	(Rou	wealt te 30 om No		nue			ra Tra om Ea			Coi	mmonv (Rout From		WB	nue		Carria From						ren S om W			E		iage R North			
Start Time	Hard Right	Right	Bear Right	Thru	Left	Right	Bear Right	Thru	Bear Left	Left	Right	Thru	Boar Left	Left	Hard	Hard Right	Bear Right	Beatr Left	Left	Hard Left	Hard Right	Right	Thru	Left	Hard Left	Herd Right	Right	Bear Right	Boar Left	Hard	int. Total
04:00 PM	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	0	1	2	0	0	0	9
04:15 PM	0	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	5
04:30 PM	0	1	0	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
04:45 PM	0	0	0	0	0	0	0	_ 2	0	0	0	0	0	0	0	0	0	0	0	0	_ 0	0	1_	0	0	0	0	_0	0	0	3_
Total	0	1	0	4	0	0	0	7	0	1	0	0	0	0	0	0	0	0	0	0	1	0	3	0	0	1	4	0	0	0	22
05:00 PM	0	1	0	1 2	0	0	0	5 0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2	1	0	0	13
05:15 PM	0	0	0	2	0	0	0	0	0	4	0	0	ñ	0	0	0	Ô	0	0	0	0	Ö	0	0	ő	'n	2	0	0	0	1
05:30 PM	0	0	0	4	0	0	0	0	0	0	0	0	٥	0	0	0	٥	0	0	0	0	0	n	0	0	0	4	0	0	0	2
05:45 PM Total	0	1	0	4	0	0	0	5	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	5	1	0	0	21
Grand Total Apprich % Total %	0 0 0	2 20 4.7	0	8 80 18.6	0 0 0	0 0 0	0 0 0	12 80 <sub>27.9</sub>	0 0 0	3 20 7	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	1 20 2.3	1 20 2.3	3 60 7	0 0 0	0 0	3 23.1 7	9 69.2 20.9	1 7.7 2.3	0 0 0	0 0 0	43

No.	Cı	(F	onwo Route From	30)		lue			BTA Fron				C	(R	onwe loute From	30) ۱	NΒ	nue			arriag im Sc						arrer From						rriag m N				
Start Time	Har d Ri	Rig M	r RU	The	Left	App. Total	Flig Hl	r Fil	Thr u	Bea r Le	Left	App. Total	Rig Nt	Thr	Bea rle	Left	Har d Le	App.	Har d Ri.,	Bea r Ri chi	Bee rte	Left	Har d La	App. Total	Her d RJ	Rig Ht	Thr	Left	Her d Le	App. Total	Har d Ri	Rig M	Pea r Al	Fie A	Har d Le	App. Total	int. Total
eak Hou	r Ana	alysis	s Fro	m 04	:00 P	M to	05:45	PM	- Pea	ak 1 c	of 1												11/11/11								mason		COMPLE				
Peak H	our	for l	Enti	e In	ters	ectio	n B	egir	ns at	t 04:	15 F	M.																									
04:15 PM	0	0	0	0	0	0	0	Ö	2	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	5
04:30 PM	0	1	0	3	0	4	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
04:45 PM	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	3
05:00 PM	0	1	0	1	0	2	0	0	5	0	1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	2	1	0	0	4	13
Total Volume	0	2	0	4	0	6	0	0	10	0	2	12	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	1	4	1	0	0	6	26
% Acc., Time		33.2	0	64.7	0		٥	0	83.3	0	16.7		0	0	0	0	0		0	0	0	0	0		0	50	50	0	0		16.7	65.7	16.7	0	0		
PHF	.000	500	000	332	.000	.375	000	.000	500	.000	500	500	000	.000	000	.000	.000	.000	000	.000	000	.000	000	.000	.000	250	250	.000	999	.500	250	500	250	000	.000	375	.500



Commonwealth Avenue (Route 30) WB

E/W/NSW: Warren Street/Carriage Road

City, State: Brighton, MA Client: HSH/ J. SanClemente P.O. Box 301 Berlin, MA 01503 Office: 508.481.3999 Fax: 508.545.1234 Emall: datarequests@pdllic.com

File Name: 112737 AA1

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Start Date : 12/14/2011

Page No: 1

							.=								Gro	oups	Print	ed- F	eds	and E	Bicyc	es															
	Co		oute.	alth / 30) V North	٧B	uө			BTA From				Co	(R	oute	alth 30) V Sout	VB	IU0				e Ro outhw						Stre Wes						e Ro orthw			
Start Time	Her d RI	Fligh t	Pan rRi Diji	Thr	Left	Ped	Righ	Bean r Ri	Thr M	Beat r Lef	Left	Ped •	Righ I	Thr	Bea rLef	Left	Har d La	Ped	Har d Ri oht	Bea r RI give	Ben rLuf	Left	Har d Lo	Ped:	Her d Ri	Righ L	Thr	Left	Har dLe	Ped	Har d Ri	Righ 1	Poli rRi	Pea rLef	Har dLo	Ped	friL Total
04:00 PM	0	0	0	0	0	10	0	0	0	0	0	1	0	0	0	0	0	28	0	0	0	0	0	22	0	0	1	0	0	10	0	0	0	0	0	31	103
04:30 PM	0	0	4	1	0	2	0	0	1	0	0	0	0	0	0	0	0	27	0	- 0	0	0	0	28	0	1	0	0	0	17	0	1	0	0	0	7	89
Total	0	0	4	1	0	28	0	0	3	0	0	1	0	0	0	0	0	75	0	0	0	0	0	77	0	1	6	0	0	44	0	1	0	0	0	73	314
05:00 PM 05:15 PM 05:30 PM	0	0	0	0	0	17	0	0	3	0	0	1	o	0	0	0	0	50	0	0	0	0	0	50	4	0	3	0	0	46	0	0	0	0	0	38	212
05:45 PM	0	0	0	0	1	10	0	0	0_	0	0	0	0	0	0	0	0	14	0	0	0	0	0	12	2	0	2	0	0	13	0	0	0	0	0	27	81
Total	0	0	0	0	1	7 6	0	0	6	0	0	1	0	0	0	0	0	134	0	0	0	0	0	139	6	0	8	0	0	99	0	0	0	0	0	137	607

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	ز	omr ()	Rou		D) W	В	uө			MBT Fro	A Ti		s		(	Com:	Rou		) W	В	ue					Roa				١			Stree Vest						age Nor				
Start Time	Ha rd RU	FU ght	Be er Ri	Th	rel rel	Pe de	App. Tota	RU ght	Bu ar Ri ahi	Th fu	Be er Lef	Lef	Pe da	App. Tota	RU gHL	Th ru	Be er Lef	Lef	- F 2 H	Pe du	App. Tota	Ha rd Ri	Be ar Ri	Be er Lef	Lef (	Hs rd Lef	Pe de	App. Tota	He rd Ri	Pë ght	Th a	Lef	Ha rd Lef	Po da	App. Tota	Ha rd Ri	Fil ghi	Be er Ri	Be er Lef	Ha rd Lef	Pa dar	App. Tota	ini. Tota
Peak Ho																						G																		-			
Peak !	lou	r fo	r Ei	ntire	e In	ters	sect	ion	Beg	ins	at	05:0	00 F	M																													
05:00 PM	0	0	0	0	0	29	29	0	0	1	0	0	0	1	0	0	0	0	0	40	40	0	0	0	0	0	45	45	0	0	1	0	0	19	20	0	0	0	0	0	40	40	175
05:15 PM	0	0	0	0	0	17	17	0	0	3	0	0	1	4	0	0	0	0	0	50	50	0	0	0	0	0	50	50	4	0	3	0	0	46	53	0	0	0	0	0	38	38	212
05:30 PM	0	0	0	0	0	20	20	0	0	2	0	0	0	2	0	0	0	0	0	30	30	0	0	0	0	0	32	32	0	0	2	0	0	21	23	0	0	0	0	0	32	32	139
05:45 PM	0	0	0	0	1	10	11	0	0	0	0	0	0	0	0	0	0	0	0	14	14	0	0	0	0	0	12	12	2	0	2	0	0	13	17	0	0	0	0	0	27	27	81
Total Volume	0	0	0	0	1	76	77	0	0	6	0	0	1	7	0	0	0	0	0	13	134	0	0	0	0	0	13 9	139	6	0	8	0	0	99	113	0	0	0	0	0	13	137	607
% App.	0	0	0	0	1.3	96.		0	0	85.	0	0	14.		0	0	0	0	0	10		0	0	0	0	0	10		5.3	0	7.1	0	0	ay.		0	0	0	0	0	10		
PHF	00	.00	00	.00	25	65	664	00	00	50	.00	.00	.26	.438	00	00	.00	.00	.00	67	670	.00	.00	.00	.00	00	68	695	37	00	.66	00	00	-53	533	.00	00	-00	.00	00	.85	858	.718



Commonwealth Avenue (Route 30) WB E/W/NSW: Warren Street/Carriage Road City, State: Brighton, MA Client: HSH/ J. SanClemente

P.O. Box 301 Berlin, MA 01503 Office: 508.481.3999 Fax: 508.545.1234 Email: datarequests@pdlllc.com

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Groups Printed- Trains

	Coi	mmon Roui Fro		WB	nue			TA Tra			Co	mmon Roui Fro		WB	nue			iage R South					ren St om We					iage R North			
Start Time	Hard Right	Right	Bear Roll	Thru	Left	Right	Beer Plate	Thru	Beer Left	Left	Right	Thru	Bear Left	Left	Hard Left	Hard Right	Bear Right	Bear Left	Left	Hard	Hard Right	Right	Thru	Left	Herd Let	Hard Right	Right	Bear Right	Bear	Hard Left	Int. Talei
04:00 PM	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
04:15 PM	0	0	0	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
04:30 PM	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
04:45 PM	0	0	0	2	0	0	0	0	_0	0	_0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Total	0	0	0	9	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
					1															1.9										741	
05:00 PM	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
05:15 PM	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
05:30 PM	0	0	0	2	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
05:45 PM	0	0	0	3	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0.	0	0	0	0	0	0	0	0	0	5
Total	0	0	0	9	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
5.0					- 10					- 3										12											
Grand Total	0	0	0	18	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
Apprch %	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total %	0	0	0	50	0	0	0	0	0	0	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
																														- 0	

	С	(R	oute	ealth 30) Nor	WB	nue			IBTA Fron		-		С	(R	onwe loute From	30)		nue			arriaç om S							Stre Wes						ge Ro Iorth	oad west		
Start Time	Har d Ri sht	Rig M	Bea r Ri	Thr	Left	App. Total	Rig M	Pee r Ri	Thr	Bes rLe	Left	App. Total	Rig M	Thr	Bee rLe	Left	Har dLe	App. Total	Har d Ri	Ben rRi	Ben rLe	Left	Her d Le	App. Total	Har d Ri	Rig M	Thr	Left	Har dLe	App Total	Har d Rii	Rig M	Bee r RJ	Bea rLe	Har	App. Total	int. Total
Peak Hou																										_					A 35				-		
Peak H	our	for I	≣nti	re In	ters	ectio	n B	egir	ns at	04:	:00 F	M																									
04:00 PM	0	0	0	2	0	2	0	Ō	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
04:15 PM	0	0	0	3	0	3	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Ō	0	6
04:30 PM	0	0	0	2	0	2	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
04:45 PM	0	0	0	2	0	2	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Total Volume	0	0	0	9	0	9	0	0	0	0	0	0	0	9	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
% App, Total	0	0	0	100	0		0	0	0	0	0		0	100	0	0	0		0	0	0	0	0		0	0	0	0	0		0	0	0	0	0		
PHF	.000	.000	.000	.750	.000	.750	.000	.000	.000	.000	.000	.000	000	.750	.000	.000	.000	.750	.000	.000	.000	.000	.000	.000	.000	.000	.000	000	.000	.000	.000	.000	000	000	000	.000	.750



Commonwealth Avenue (Route 30) WB

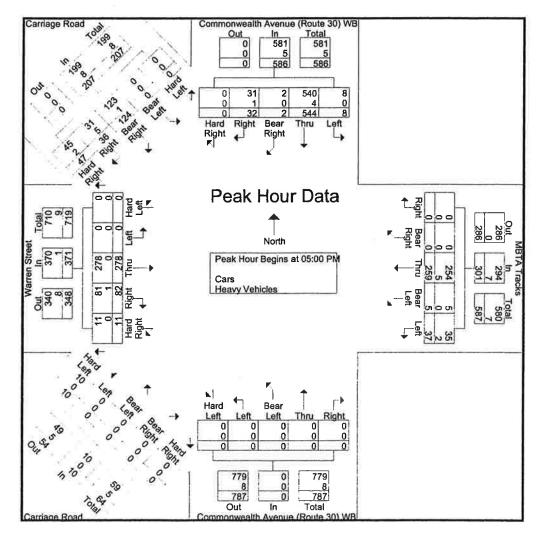
E/W/NSW: Warren Street/Carriage Road

City, State: Brighton, MA Client: HSH/ J. SanClemente P.O. Box 301 Berlin, MA 01503 Office: 508.481.3999 Fax: 508.545.1234 Emall: datarequests@pdillc.com File Name: 112737 AA1

Site Code : TBA

Start Date : 12/14/2011

	С	(F	nonw Route From	30)	WB	nue			/BTA				C	(R	oute	aith 30) ' Sou		nue			arriag om S						arre From							ge Ro			
Start Time	Har d RI	Rig H	Page r RI phi	Thr	Left	App. Total	Rig ht	Pea r Ri	Thr	Bes rLe	Left	App. Total	Rig ht	Thr	Boa r La	Left	Her dle	App. Total	Har d Ri	Bea rRi	Pag r Le	Left	Hur d Le	App. Total	Haer d Rt	FUg Nt	Thr	Left	Har dLe	App. Total	Har d RI	Rig HE	Res r Ri	Beg rLe	Her d Le	App.	inL Total
Peak Hou	r An	alysi	s Fro	m 04	:00 F	M to	05:45	PM	- Pe	ak 1	of 1									V/C:	2-10								//			1700		-01			
Peak H	our	for	Enti	re Ir	iters	sectio	n B	egir	ns a	t 05	:00	PM .																									
05:00 PM	0	11	0	134	2	147	0	Ō	64	1	13	78	0	0	0	0	0	0	0	0	0	0	3	3	3	32	61	0	0	96	10	8	29	0	0	47	371
05:15 PM	0	10	0	158	3	171	0	0	71	4	8	83	0	0	0	0	0	0	0	0	0	0	3	3	2	23	71	0	0	96	12	10	42	0	0	64	417
05:30 PM	0	2	0	120	1	123	0	0	65	0	12	77	0	0	0	0	0	0	0	0	0	0	3	3	5	16	87	0	0	108	15	6	32	0	0	53	364
05:45 PM	0	9	2	132	2	145	0	0	59	0	4	63	0	0	0	0	0	0	0	0	0	0	1	1	1	11	59	0	0	71	10	12	21	0	0	43	323
Tolet Volume	0	32	2	544	8	586	0	0	250	5	37	301	0	0	0	0	0	0	0	0	0	0	10	10	11	82	278	0	0	371	47	36	124	0	0	207	1475
% App. Total	0	5,5	0.3	92.6	1.4		0	0	86	1.7	12.3		0	0	0	0	0		0	0	0	0	100		3	22.1	74.9	0	0		22.7	17.4	59.9	0	0		
PHF	.000	727	250	991	.667	.857	.000	.000	.912	.313	712	.907	.000	.000	.000	.000	.000	.000	000	.000	.000	.000	#33	.833	550	.641	799	.000	.000	.859	783	750	738	.000	000	809	.884
Cars	0	31	2	540	8	581	0	0	254	5	35	294	0	0	0	0	0	0	0	0	0	0	10	10	11	81	278	0	0	370	45	31	123	0	0	199	1454
% Cars	0	96.9	100	99.3	100	99.1	0	0	98.1	100	94.6	97.7	0	0	0	0	0	0	0	0	0	0	100	100	100	95.8	100	0	0	99.7	95.7	65.1	99.2	0	0	96.1	98.8
Heavy Vahiclas	0	1	0	4	0	5	0	0	5	0	2	7	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2	5	1	0	0	8	21
% Heavy Vehicles	0	3.1	0	0.7	0	0.9	0	0	1.9	0	5.4	2.3	0	0	0	0	0	0	0	0	0	0	0	0	0	1.2	0	0	0	0.3	4.3	13,9	0,8	0	0	3.9	1.4





Commonwealth Avenue (Route 30) EB E/W/NSE: Kelton Street/Carriage Road City, State: Brighton, MA

P.O. Box 301 Berlin, MA 01503 Office: 508.481.3999 Fax: 508.545.1234 Email: datarequests@pdilic.com

File Name: 112737 AA2

Site Code: TBA

Start Date : 12/14/2011

•	J. SanClemente

	Co	mmon	aali	h A.za									oups.	THING	4-04	1	eavy V	GITICI	03		0-			L A			_	_			1
	Co	(Rou	wealt ite 30 im No	) EB	nue			iage f Norti					ton St				Carri From				Co		wealt ite 30 im So	) EB	nue			TA Tra			
Start Time	Right	Thru	Boar	Left	Hard Left	Herd Right	Bust Right	Bear Left	Left	Hard Left	Hard Right	Right	Thru	Left	Hard	Hard Right	Right	Beer Right	Bear (mt	Hard	Hard Right	Right	Boer Right	Thru	Left	Right	Bear Right	Thru	Bear	Left	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0	2	2	45	0	0	2	2	0	1	0	0	4	2	57	25	0	0	59	1	6	208
04:15 PM	0	0	0	0	0	0	0	0	0	0	2	0	40	0	0	0	1	0	0	0	0	2	2	91	17	0	0	33	1	8	197
04:30 PM	0	0	0	0	0	0	0	0	0	0	1	0	50	0	0	1	7	0	0	0	0	4	1	108	24	0	0	65	Ó	7	266
04:45 PM	0	0	0	0	0	0	0	0	0	0	2	_1	49	. 0	0	3	5	0	0	0	0	_ 1	1	92	30	0	0	40	0	6	230
Total	0	0	0	0	0	0	0	0	0	0	7	3	184	0	0	6	15	0	1	0	0	11	6	346	96	0	0	197	2	27	901
05:00 PM	0	0	0	0	0	0	0	0	0	0	3	1	55	0	0	2	2	0	0	0	0	1	1	83	30	0	0	54	0	8	240
05:15 PM	0	0	0	0	0	0	0	0	0	0	5	3	62	0	0	2	1	0	0	0	0	0	2	80	21	0	0	67	1	7	251
05:30 PM	0	0	0	0	0	0	0	0	0	0	4	0	46	0	0	4	2	0	0	0	0	7	2	92	28	0	0	75	1	9	270
05:45 PM	_0_	_0_	0	0	0	0	0	0	0	0	0	_1_	42	0	0	_1_	_ 5	0	0	0	0	6	_3	97	20	0	0	56	0	6	237
Total	0	0	0	0	0	0	0	0	0	0	12	5	205	0	0	9	10	0	0	0	0	14	8	352	99	0	0	252	2	30	998
Grand Total	0	0	0	0	0	0	0	0	0	0	19	8	389	0	0	15	25	0	1	0	0	25	14	698	195	0	0	449	4	57	1899
Apprch %	0	0	0	0	0	0	0	0	0	0	4.6	1.9	93.5	0	0	38.6	61	0	2.4	0	0	2.7	1.5	74.9	20.9	0	0	88	0.8	11.2	
Total %	0	_0_	0	0	0	0	0	0	0	0	_1_	0.4	20.5	0	0	0.8	1.3	0	0.1	0	0	1.3	0.7	36.8	10,3	_0	0	23.6	0.2	3	
Cars	0	0	0	0	0	0	0	0	0	0	17	7	379	0	0	15	25	0	1	0	0	25	14	694	190	0	0	448	4	57	1874
% Cars	0	0	0	0	0	0	0	0	0	0	89.5	87.5	97.4	0	0	100	100	0	100	0	0	100	100	99.4	97.4	0	0	99.3	100	100	98.7
Heavy Vehicles	0	0	0	0	0	0	0	0	0	0	2	1	10	0	0	0	0	0	0	0	0	0	0	4	5	0	0	3	0	0	25
( 1	0	0	0	0	0	0	0	0	0	0	10.5	12.5	2.6	0	0	0	0	0	0	0	0	0	0	0.6	2.6	0	0	0.7	0	0	1.3

	C	(F	onwe Coute From	30)		nue				ge Ro				ŀ	Celtor From						arriaç om S				C	(F	onwe loute rom	30)		nue				Trac We:			
Start Time	FUg Hi	Thr	Bea rLe	Left	Her d Lu	App. Total	d RV	Pag r Ri oht	Pee rLe	Left	Her d Le	App. Total	Her d RI	Alig Ht	The M	Left	Har d Lo	App. Total	Har d Ri	Rig H	Bee rRI	Bea. rLe	Har d Lu	App.	Har d Ri	Rig Hi	Para r Più	Thr	Left	App Total	Rig M	Pee r Ri	Thr	Ban rie	Left	App.	Int. Total
Peak Hou	r Ana	alysis	From	m 04	:00 P	M to 0	05:45	PM	- Pea	k 1 c	f 1								-						L		un_		-			-					
Peak H	our	for I	Entir	e In	ters	ectio	n B	egir	is at	05:	00 F	M																									
05:00 PM	0	0	0	0	0	0	0	ŏ	0	0	0	0	3	1	55	0	0	59	2	2	0	0	0	4	0	1	1	83	30	115	0	0	54	0	8	62	240
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	5	3	62	0	0	70	2	1	0	0	0	3	0	0	2	80	21	103	0	0	67	1	7	75	251
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	4	0	46	0	0	50	4	2	0	0	0	6	0	7	2	92	28	129	0	0	75	1	9	85	270
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	42	0	0	43	1	5	0	0	0	6	0	6	3	97	20	126	0	0	56	0	6	62	237
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	12	5	205	0	0	222	9	10	0	0	0	19	0	14	8	352	99	473	0	0	252	2	30	284	998
N. App. Yotal	0	-0	0	0	0		0	0	0	0	0		5.4	2.3	92.3	0	0		47.4	52.5	0	0	0		٥	3	1.7	74.4	20.0		٥	0	88.7	0,7	10.6		
PHF	.000	000	.000	000	.000	.000	000	000	000	000	.000	.000	600	417	827	000	000	793	543	500	.000	000	.000	.792	000	500	.667	.907		.917	.000	000	840	500		.835	.924
Cars	0	0	0	0	0	0	0	0	0	0	0	0	11	5	200	0	0	216	9	10	0	0	0	19	0	14	8	349	97	468	0	0	252	2	30	284	987
% Cars	0	0	0	0	0	0	0	0	0	0	0	0	91.7	100	97.6	0	0	97,3	100	100	0	0	0	100	0	100	100	99.1	96.0	98.9	0	0	100	100	100	100	98.9
Heavy Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	1	0	5	0	0	6	0	0	0	0	0	0	0	0	0	3	2	5	0	0	0	0	0	0	11
% Heavy Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	8.3	0	2.4	0	0	2.7	0	0	0	0	0	0	0	0	0	0.9	2.0	1,1	0	0	0	0	0	0	1.1



Commonwealth Avenue (Route 30) EB E/W/NSE: Kelton Street/Carriage Road

City, State: Brighton, MA
Client: HSH/ J. SanClemente

P.O. Box 301 Berlin, MA 01503 Office: 508.481.3999 Fax: 508.545.1234 Email: datarequests@pdillc.com File Name: 112737 AA2

Site Code : TBA

Start Date : 12/14/2011

Page No : 1

Groups Printed- Cars

	Co.	•	wealth te 30 m No	EB	nue		Carr	iage F Nortl					ton Si om E	treet			Carri		Road heast		Co	(Roi	wealt ute 30 om Sc		nue			TA Tra			
Start Time	Right	Thru	Bear Left	Left	Hard Left	Herd Right	Bear Roll	Bear Left	Left	Herd Left	Hard Right	Right	Thru	Left	Hard Let	Hard Right	Right	Beer Rinks	Boser Lust	Herd	Hard Binht	Right	Beer	Thru	Left	Right	Bear Right	Thru	Boar	Left	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0	1	- 1	43	0	0	2	2	0	1	0	0	4	2	56	24	0	0	57	1	6	200
04:15 PM	0	0	0	0	0	0	0	0	0	0	2	0	39	0	0	0	1	0	0	0	0	2	2	91	15	0	0	33	1	8	194
04:30 PM	0	0	0	0	0	0	0	0	0	0	1	0	49	0	0	1	7	0	0	0	0	4	1	106	24	0	0	65	0	7	265
04:45 PM	0	0	0	0	0	_0_	0	0	0_	0	2	_1_	48	0	0	3	5	0	0	0	0	_ 1	_ 1	92	30	0	0	39	0	6	228
Total	0	0	0	0	0	0	0	0	0	0	6	2	179	0	0	6	15	0	1	0	0	11	6	345	93	0	0	194	2	27	887
05:00 PM	0	0	0	0	0	0	0	0	0	0	2	1	51	0	0	2	2	0	0	0	0	1	- 1	83	28	0	0	54	0	8	233
05:15 PM	0	0	0	0	0	0	0	0	0	0	5	3	62	0	0	2	1	0	0	0	0	0	2	79	21	0	0	67	1	7	250
05:30 PM	0	0	0	0	0	0	0	0	0	0	4	0	45	0	0	4	2	0	0	0	0	7	2	91	28	0	0	75	_1	9	268
05:45 PM	0	0	0	0_	0	0	_0_	0	0	0	0	1	42	0	0	1	5	0	0	0	_0	6	3	96	20	0	0	56	0	6	236
Total	0	0	0	0	0	0	0	0	0	0	11	5	200	0	0	9	10	0	0	0	0	14	8	349	97	0	0	252	2	30	987
Grand Total	0	0	0	0	0	0	0	0	0	0	17	7	379	0	0	15	25	0	1	0	0	25	14	694	190	0	0	446	4	57	1874
Apprch %	0	0	0	0	0	0	0	0	0	0	4.2	1.7	94	0	0	38.6	61	0	2.4	0	0	2.7	1.5	75.2	20.8	0	0	88	0.8	11.2	
Total %	0	0	0	0	0	0	0	0	0	0	0.9	0.4	20.2	0	0	0.8	1.3	0	0.1	0	0	1.3	0.7	37	10.1	0	0	23.8	0.2	3	

	C	(F	Route	ealth 30) Nor		nue			arria om N	-			1 1 1 1 1 1	ł		n Stre						ge Ro outhe			C	(F	loute	ealth 30) Sou	ЕВ	nue				Trac			
Start Time	Rig M.	Thr	r Le	Left	Har d Le	App. Total	Har d RI	r Ri	Bes rLe	Left	Her dla	App.	Har d Ri	Rig M	Thr	Left	Har d Lo	App.	Her d Ri	Rig HL	Bean r RI	Ben rie	Her d Le	App.	Her d RU	Flig M.	Ban rRi	The	Left	App. Total	Rig M	Bea r Ri	Thr	Bee r Le	Left	App. Total	TriL Total
Peak Hou	Ana	alysis	Fro	m 04	:00 P	M to	05:45	PM	- Pea	k 1 c	of 1			***				-							- 20		-					-		-	-		
Peak H	our	for I	Enti	re In	ters	ectio	n B	egir	ns at	05:	00 P	M.																									
05:00 PM	0	0	0	0	0	0	0	Ō	0	0	0	0	2	1	51	0	0	54	2	2	0	0	0	4	0	1	1	83	28	113	0	0	54	0	8	62	233
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	5	3	62	0	0	70	2	1	0	0	0	3	0	0	2	79	21	102	0	0	67	1	7	75	250
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	4	0	45	0	0	49	4	2	0	0	0	6	0	7	2	91	28	128	0	0	75	1	9	85	268
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	_ 1	42	0	0	43	1	5	0	0	0	6	0	6	3	96	20	125	0	0	56	0	6	62	236
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	11	5	200	0	0	216	9	10	0	0	0	19	0	14	8	349	97	468	0	0	252	2	30	284	987
% Aco, Tolai	0	0	0	_0_	0		0	0	0	0	0		5.1	2.3	97.8	0	0		47.4	52.6	0	0	0		0	3	1.7	74.8	20.7		0	0	56.7	0.7	10.6		
PHF	.000	000	.000	000	000	.000	000	909	900	.000	.000	.000	5.50	A17	.606	000	000	.771	543	500	000	000	000	.792	.000	500	867	909	868	.914	000	.000	840			835	.921



ommonwealth Avenue (Route 30) EB E/W/NSE: Kelton Street/Carriage Road

City, State: Brighton, MA Client: HSH/ J. SanClemente

P.O. 80x 301 Berlin, MA 01503 Office: 508.481.3999 Fax: 508.545.1234 Email: datarequests@pdilic.com

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Page No: 1

Groups Printed- Heavy Vehicles

	Co		wealth ite 30 m No	EB	nue			iage F North					on St					age R South			Co	mmon Rou Fro		) EB	nue			TA Tra om We			
Start Time	Right	Thru	Boar Left	Left	Hard Left	Hard Right	Bear Right	Boar Left	Left	Hard	Hard Right	Right	Thru	Left	Hard	Hard Right	Right	Bear Right	Bester Left	Hard	Herd Right	Right	Beer Right	Thru	Left	Right	Beer Right	Thru	Boar	Left	ini. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0	1	1	2	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	0	0	8
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	3
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	_1_	0	0	0	0	_0	.0	0	0	0	0	0	0	0	0	1	0	0	2
Total	0	0	0	0	0	0	0	0	0	0	1	1	5	0	0	0	0	0	0	0	0	0	0	1	3	0	0	3	0	0	14
					94										10										- 1						
05:00 PM	0	0	0	0	0	0	0	0	0	0	1	0	4	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0 ]	7
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	- 0	0	2
05:45 PM	0	0	0	0	0	_ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Total	0	0	0	0	0	0	0	0	0	0	1	0	5	0	0	0	0	0	0	0	0	0	0	3	2	0	0	0	0	0	11
Grand Total	0	0	0	0	0	0	0	0	0	0	2	1	10	0	0	0	0	0	0	0	0	0	0	4	5	0	0	3	0	0	25
Apprch %	0	0	0	0	0	0	0	0	0	0	15.4	7.7	76.9	0	0	0	0	0	0	0	0	0	0	44.4	55.6	0	0	100	0	0	
Total %	0	0	0	0	0	0	0	0	0	0	8	4	40	0	0	0	0	0	0	0	0	0	0	16	20	0	0	12	0	0	
																									1						

	7	(F	onwe Route From	30)		nue				ge Ri				ı	Celtor Fror	n Stre						ge Ro			Co	(R	onwe	30)		nue			BTA From				
Start Time	Policy M.	Thr	Bea	Left	Har d Le	App Total	Har d Ri	Ban r Ri	Bea rLa	Left	Her d Le	App.	Har d RI	Rig fit	Thr	Left	Her d Lu	App. Total	Har d Ri	R\g H	Bea r Ri	Ban r Le	Har d Le	App. Total	Har d Ri	Rig M	Bes rRi	The	Left	App.	Rig HI	Bea r R/I	Thr	Bas	Left	App. Total	int. Total
eak Hou	r Ana	alysis	From	m 04	:00 P	M to	05:45	PM	- Pea	k 1 c	f 1		-							_				_	- 971		- 97. 1					976		-			
eak H	our	for E	Entii	re In	ters	ectio	on B	eair	s at	04:	00 P	M																									
04:00 PM	- 0	0	0	0	0	0	0	ŏ	0	0	0	0	1	1	2	0	0	4	0	0	0	0	0	0	0	0	0	1	1	2	0	0	2	0	0	2	8
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	Ō	0	ō	0	ō	ō	õ	ò	2	2	n	ñ	ñ	õ	ō	<u>_</u>	3
04:30 PM	0	0	0	Ó	Ō	Ō	0	ō	0	0	Ō	0	0	0	1	Õ	0	1	0	ō	ō	ō	ō	ō	ñ	ñ	ō	ō	ō	ō	n	ñ	ō	ñ	n	ñ	1
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	ñ	1	2
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	1	1	5	0	0	7	0	0	0	0	0	0	0	0	0	1	3	4	0	0	3	0	0	3	14
N App. Total	0	0	0	0	0		0	0	0	0	0		143	14.3	71.4	0	0		0	0	0	0	0		0	0	0	25	75		0	0	100	0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	000	.000	.000	.000	.000	.250	250	.625	.000	.000	.438	.000	.000	.000	.000	.000	.000	.000	.000	.000	250	378	.500	.000			000	.000	375	.438



Commonwealth Avenue (Route 30) EB E/W/NSE: Kelton Street/Carriage Road City, State: Brighton, MA Client: HSH/ J. SanClemente

P.O. Box 301 Berlin, MA 01503 Office: 508.481,3999 Fax: 508.545.1234 Email: datarequests@pdillc.com

File Name: 112737 AA2

Site Code : TBA

Start Date : 12/14/2011

															Gro	oups	Prin	ted- F	Peds	and E	Bicyc	les															
	C		onwe oute rom	30) E	В	ne				e Ro orthe					elton From							e Ro outhe			С	(F	loute	alth . 30) I Sout	ЕВ	ue				Traci Wes			
Start Time	Aligh	Thr	Bes rLef	Left	Her d Le	Ped s	Har d RI	Bea r Ri ght	Bas r Lef	Left	Har d Le	Ped	Har d Ri oht	Righ t	Thr Su	Left	Her d Le	Ped	Her d RI	Righ t	Bee r RI	Ban r Lef	Har d Le	Ped	Harr d RII	Righ	Ben r Ri	The	Left	Ped a	Righ t	Bee r Ri	Thr	Bos rLaf	Loft	Ped	Int. Total
04:00 PM	0	0	0	0	0	16	0	0	0	0	0	15	0	0	0	0	0	13	0	0	0	0	0	4	0	0	0	1	0	4	0	0	1	0	0	0	54
04:15 PM 04:30 PM	0	0	0	0	0	10	0	0	0	0	0	10	0	0	2	0	0	16	0	1	0	0	0	8	0	0	0	0	0	8	0	0	3	0	0	0	58
Total	0	0	0	0	0	53	0	0	0	0	0	52	0	0	5	0	0	56	0	4	0	0	0	27	0	0	0	1	0	27	0	0	5	-1	0	0	231
05:00 PM 05:15 PM 05:30 PM 05:45 PM	0	0	0	0	0	15	0	0	0	0	0	15	0	0	4	0	0	30 24	0	0	0	0	0	14	0	0	0	2	0	13	0	0	3	0	0	0	96 85
Total	0	0	0	0	0	80	0	0	0	0	0	85	0	0	7	0	0	86	0	2	0	0	0	43	0	0	0	5	0	41	0	0	8	1	0	0	358
Grand Tolai Apprch %	0	0	0	0	0	133	0	0	0	0	0	137	0	0	12 7.8	0	0	142 92.2	0	6	0	0	0	70 92,1	0	0	0	6 8.1	0	68	0	0	13	2	0	0	589
Total %	0	0	0	0	0	22.6	0	0	0	0	0	23.3	Ó	Ó	2	Ó	ō	24.1	ō	1	Ó	ō	Õ	11.9	0	ō	ō	1	ŏ	11.5	ō	Ö	2.2	0.3	ŏ	ő	

	Ī		(Rou		(O) E		ue				age Nor								Stree East							Roa uthe			С	(	Rou	te 3			ue				A To				
Start Time	RI ght	Th ru	Be er Lef	Lef 1	rd Lef	Pe de	App. Tota	Ha rd RJ	Be er Ri	Be ar Laf	Lef	He rd Lef	Pe de	App. Tota	Ha rd RI	RI ght	Th ru	Lef L	Ha rd Lef	Pe ds	App. Tota	Ha rd Ri	RJ ghil	Be er Fil	Be ar Lef	Ha rd Lef	Pe de	App. Tota	He rd RJ	Pi ght	Be ar Ri	Th nu	Let	Pe ds	App. Tota	Pii ght	Be ar Ri	7h nu	Be ar Lef	Lef	Pe de	App. Tota	int. Tota
Peak Ho	ur A	mal	sis i	Fron	1 04	:00 F	M to	05:4	15 PI	M - F	eak	1 01	F1		100							1 911	_	1.00	-	-			98.1		Ore 1			-								_	-
Peak	Hou	r fo	rЕ	ntir	e In	ters	secti	on	Beg	ins	at (	05:0	00 1	PM.																													
05:00 PM	0	0	0	0	0	27	27	0	0	0	0	0	28	28	0	0	1	0	0	13	14	0	1	0	0	0	15	16	0	0	0	0	0	16	16	Ιo	0	2	0	0	0	2	103
05:15 PM	0	0	0	0	0	15	15	0	0	0	0	0	15	15	0	0	4	0	0	30	34	0	0	0	0	0	14	14	0	0	0	2	0	13	15	0	0	3	0	0	Õ	3	96
05:30 PM	0	0	0	0	0	17	17	0	0	0	0	0	16	18	0	0	2	0	0	19	21	0	1	0	0	0	7	8	0	0	0	3	0	6	9	Ō	0	1	0	Ō	ō	1	74
05:45 PM	0	0	0	0	0	21	21	0	0	0	0	0	24	24	0	0	0	0	0	24	24	0	0	0	0	0	7	7	0	0	0	0	0	6	6	0	0	2	1	0	0	3	85
Talal Volume	0	0	0	0	0	80	80	0	0	0	0	0	85	85	0	0	7	0	0	96	93	0	2	0	0	0	43	45	0	0	0	5	0	41	46	0	0	8	1	0	0	9	358
% App.	0	0	0	0	0	10		0	0	0	0	0	10		0	0	7.6	0	0	92.		0	4,4	0	0	o	95.		0	0	0 :	10.	0	89		0	0	88.	11.	0	0		
PHF	00	.00	00	.00	.00	.74	.741	.00	00	.00	.00	.00	75	.759	00	.00	.43	.00	.00	.71	.684	.00	.50	.00	.00	.00	.71	703	.00	.00	.00	41	.00	64	.719	00	.00	66	.25	.00	00	.750	969



Commonwealth Avenue (Route 30) EB E/W/NSE: Kelton Street/Carriage Road City, State: Brighton, MA Client: HSH/ J. SanClemente

P.O. Box 301 Berlin, MA 01503 Office: 50B.481.3999 Fax: 50B.545.1234 Email: datarequests@pdlllc.com

File Name: 112737 AA2

Site Code : TBA

Start Date : 12/14/2011

													,	Group	s Prin	ted- T	rains														
	Co		wealtl ute 30 om No	) EB	nue		Carri	iage ( Nort					ton St om Ea				Carr From	iage F South			Coi	(Rot	wealtlute 30 m So	EB	nue			TA Tra		٠,	
Start Time	Right	Thru	Boar Left	Left	Hard Left	Hard Right	Bear Right	Bear	Left	Hard	Hard Slight	Right	Thru	Left	Herd Left	Hard Right	Right	Bear Right	Bear Left	Hard Left	Hard Right	Right	Boar Right	Thru	Left	Right	Beer Right	Thru	Bear	Left	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	. 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	_0	0	0	0	0	0	0	0	0	0	0	0	0	_0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00 PM	0	0	0	0	0	0	0	0.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Approh % Total %	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ō	

	C	(F	onwe Route From	30)		าบอ				ige R North						n Stre					arriaç om S				Co	(R	oute	aith 30) Sout	EB	nue				Trac			
Start Time	Rig Hi	Thr	Ban rLe R	Left	Har d Lo	App: Total	Ha d R			Left	d Lo	App. Total	Har d RI	Riig ht	Thr #	Left	Har dLo	App. Total	Har d Ri	Rig H	Ben r Ri	Pee rle	Har d Le	App.	Har d Ri	Rig Hi	Bee r Ri	The U	Left	App. Total	Flig M	Pes r Fil	Thr	Bea	Left	App.	Int Tota
ak Hou	r Ana	alysis	Fro	m 04	:00 P	M to	05:4	5 PM	- Pe	ak 1	of 1						-										- 400-1	_				400					
eak Ho	our	for I	Enti	re Ir	ters	ection	on	Begi	ns a	t 04	:00 F	M																									
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	l
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Ó	0	
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C
0:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C
App. Total	0	0	0	0	0		0	0	0	.0	0		0	0	0	0	0		0	0	0	0	0		0	0	0	0	0		0	0	0	0	0		
PHF	.000	.000	.000	000	.000	.000	000	.000	.000	.000	.000	.000	000	.000	.000	000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	000	.000	.000



Commonwealth Avenue (Route 30) EB

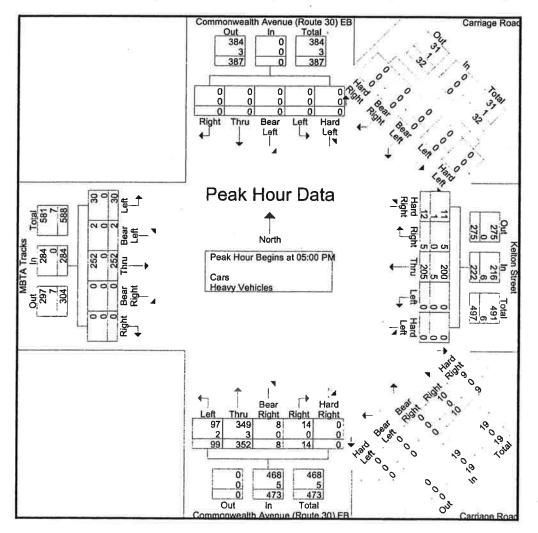
E/W/NSE: Kelton Street/Carriage Road

City, State: Brighton, MA Client: HSH/ J. SanClemente P.O. Box 301 Berlin, MA 01503 Office: 508.481.3999 Fax: 508.545.1234 Email: datarequests@pdillc.com File Name: 112737 AA2

Site Code : TBA

Start Date : 12/14/2011

	С	(F	onw Route From	30)		nue			arriaç om N						Celtor Fron						arria om S				С		onwe Route From	30)	EΒ	nue			IBTA From				
Start Time	Rig Ht	Thr	rLe R	Left	Her d Le	App. Total	Har d Ri	r RU	r Lo	Left	Har dLa	App. Total	Har d Ri	Alig M	The	Left	Har d Le	App. Total	d RU	Flig M	Bee r Ri	Bea rLe	Har d Le	App. Total	Her d Ri	Rig Hi	Bes rRi	Thr	Left	App.	Rig ht	Pee r Ri	Thr	Ban	Left	App. Tabel	int. Total
Peak Hou	ır An	alysis	Fro	m 04	:00 P	M to 0	05:45	PM	- Pea	ik 1 c	of 1		-		•							-	-		-		-		-			_ 93.	-				
Peak H	our	for	Enti	re Ir	ters	ectic	n B	egir	ns at	05:	:00 P	M.																									
05:00 PM	0	0	0	0	0	0	0	Ō	0	0	0	0	3	1	55	0	0	59	2	2	0	0	0	4	0	1	1	83	30	115	0	0	54	0	8	62	240
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	5	3	62	0	0	70	2	1	0	0	0	3	0	0	2	80	21	103	0	0	67	1	7	75	251
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	4	0	46	0	0	50	4	2	0	0	0	6	0	7	2	92	28	129	0	Õ	75	1	9	85	270
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	42	0	0	43	1	5	0	0	0	6	0	6	3	97	20	126	0	0	56	0	6	62	237
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	12	5	205	0	0	222	9	10	0	0	0	19	0	14	8	352	99	473	0	0	252	2	30	284	998
N App. Total	0	0	0	0	0		0	0	0	0	0		5.4	2.3	92.3	٥	0		47.4	52.8	0	0	0		D	3	1.7	74.4	20.9		o	0	88.7	0.7	10.6		
PHF	000	.000	.000	000	000	.000	000	000	.000	000	000	000	600	417	.627	000	.000	.793	563	500	000	.000	000	.792	000	500	667	907	875	917	000	000	840	500		835	924
Cars	0	0	0	0	0	0	0	0	0	0	0	0	11	5	200	0	0	216	9	10	0	0	0	19	0	14	8	349	97	468	0	0	252	2	30	284	987
% Cars	0	0	0	0	0	0	0	0	0	0	0	0	91.7	100	97.6	0	0	97.3	100	100	0	0	0	100	0	100	100	₽9.1	98.0	98.9	0	0	100	100	100	100	98.9
Heavy Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	1	0	5	0	0	6	0	0	0	0	0	0	0	0	0	3	2	5	0	0	0	0	0	0	11
% Heavy Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	8.3	0	2.4	0	0	2.7	0	0	0	0	0	0	0	0	0	0.9	2.0	1.1	0	0	0	0	0	0	1.1





Commonwealth Avenue (Route 30) WB E/W/NSW: Washington St/Carriage Road City, State: Brighton, MA Client: HSH/ J. SanClemente

P.O. Box 301 Berlin, MA 01503 Office: 508.481.3999 Fax: 508.545.1234 Email: datarequests@pdillc.com

File Name: 112737 B1

Site Code : TBA

Start Date : 12/14/2011

												Gro	ups F	Printer	d- Ca	rs - H	eavy \	/ehicle	s												
	Co			) WB	nue			TA Tra			Co	mmon Rout Fro		WB	nue			riage F South			'		ington om W	Stree est			Carri From	iage F North			
Start Time	Hard Right	Right	Bear Right	Thru	Left	Right	Bear Right	Thru	Bear Left	Left	Right	Тһли	Bear	Left	Herd	Hard Right	Bear Right	Bear Left	Left	Hard	Hard Right	Right	Thru	Left	Hard Left	Hard Right	Right	Beer Right	Bear Left	Hard	Int. Total
07:00 AM	0	3	0	60	20	0	0	50	0	3	0	0	0	0	0	2	3	0	0	0	1	8	74	1	0	0	0	0	0	0	225
07:15 AM	0	0	0	62	20	0	1	60	4	7	0	0	0	0	0	7	1	1	0	0	4	4	102	0	0	0	0	0	0	0	273
07:30 AM	0	0	0	104	37	0	0	92	1	11	0	0	0	0	0	19	2	1	0	0	1	3	97	0	0	0	0	0	0	0	368
07:45 AM	_0	0_	0	95	31	0	6	95	1	10	0	0	0	0	0	15	4	2	0	0	3	9	103	1	0	0	0	0	0	0	375
Total	0	3	0	321	108	0	7	297	6	31	0	0	0	0	0	43	10	4	0	0	9	24	376	2	0	0	0	0	0	0	1241
																W1														- 60	
08:00 AM	0	3	0	92	23	0	3	77	2	15	0	0	0	0	0	7	4	1	0	0	2	7	117	0	0	0	0	0	0	0	353
08:15 AM	0	1	0	90	23	0	5	73	1	18	0	0	0	0	0	7	3	0	0	0	1	4	98	0	0	0	0	0	0	0	324
08:30 AM	0	0	0	87	19	0	3	85	0	7	0	0	0	0	0	5	2	1	0	0	2	4	96	1	0	0	0	0	0	0	312
08:45 AM	_0	0	0	83	17	0	_ 3	79	0	9	0	0	0	0	0	16	4	0	0	0	4	8	102	0	0	0	0	0	0	0	325
Total	0	4	0	352	82	0	14	314	3	49	0	0	0	0	0	35	13	2	0	0	9	23	413	1	0	0	0	0	0	0	1314
7					7															- 1					72					1.7	
Grand Total	0	7	0	673	190	0	21	611	9	80	0	0	0	0	0	78	23	6	0	0	18	47	789	3	0	0	0	0	0	0	2555
Apprch %	0	8.0	0	77.4	21.8	0	2.9	84.7	1.2	11.1	0	0	0	0	0	72.9	21.5	5.6	0	0	2,1	5.5	92.1	0.4	0	0	0	0	0	0	
Total %	0	0.3	0	26.3	7.4	0	0.8	23.9	0.4	3.1	0	0	0	0	0	3.1	0.9	0.2	0	0	0.7	1.8	30.9	0.1	0	0	0	0	0	0	
Cars	0	5	0	644	174	0	21	568	9	75	0	0	0	0	0	78	22	1	0	0	16	46	753	3	0	0	0	0	0	0	2415
% Cars	_0_	71.4	0	95.7	91.6	0	100	93	100	93.8	_0	0	0	0	0	100	95.7	18.7	0	0	88.9	97.9	95.4	100	0	0	0	0	0	0	94.5
Heavy Vehicles	0	2	0	-29	16	0	0	43	0	5	0	0	0	0	0	0	1	5	0	0	2	1	36	0	0	0	0	0	0	0	140
	0	28.8	0	4.3	8.4	0	0	7	0	6.2	0	0	0	0	0	0	4.3	83.3	0	0	11.1	2.1	4.6	0	0	0	0	0	0	0	5.5

	С	(F	loute	ealth 30) No		nue			(BTA				C	(F	onwe loute From	30)	WB	nue				ge Ro outhv						iton S 1 We:		t			arriaç om N		oad west		
Start Time	Her d Ri	Rig M	Pen r FU	The	Left	App Total	Rig ht	Pes rRI	Thr	Bea rte	Left	App. Total	Rig M	Thir	Bee rLe	Left	Har d Le	App.	Har dRI	Bea r RI	Bos	Left	Her d Lo	App. Total	Her d RI	Rig	Thr	Left	Har dle	App.	Her d RI	Rig M	Bas rRi	Bee rLe	Har d Le	App. Total	Int. Total
eak Hou	r An	alysis	Fro	m 07	:00 A	M to	8:45	AM	- Pea	k 1 c	of 1								- un	1.00	- 1		-		24						ore_t		- 04	_ 6.			
Peak H	our	for l	Enti	re li	nters	sectio	n B	egir	ns a	07	30 /	AΜ																									
07:30 AM	0	0	0	104	37	141	0	0	92	1	11	104	0	0	0	0	0	0	19	2	1	0	0	22	1	3	97	0	0	101	0	0	0	0	0	0	368
07:45 AM	0	0	0	95	31	126	0	6	95	1	10	112	0	0	0	0	0	0	15	4	2	0	0	21	3	9	109	1	0	116	0	0	0	0	0	0	375
08:00 AM	0	3	0	92	23	118	0	3	77	2	15	97	0	0	0	0	0	0	7	4	1	0	0	12	2	7	117	0	0	126	0	0	0	0	0	0	353
08:15 AM	0	1	0	90	23	114	0	5	73	1	18	97	0	0	0	0	0	0	7	3	0	0	0	10	1	4	98	0	0	103	0	0	0	0	0	0	324
Total Volume	0	4	0	381	114	499	0	14	337	5	54	410	0	0	0	0	0	0	48	13	4	0	0	65	7	23	415	1	0	446	0	0	0	0	0	0	1420
Ji App. Total	0	0,8	0	78.A	22.8		0	3.4	82.2	1.2	13.2		٥	0	0	0	0		73.8	20	8.2	0	0		1.8	5.2	93	0.2	0		0	0	0	0	0		
PHF	.000	.333	.000	916	.770	.885	.000	.583	.887	.625	.750	.915	.000	.000	.000	.000	.000	.000	.632	.A13	.500	.000	.000	.739	583	639	.887	250	.000	.885	.000	.000	.000	.000	.000	.000	.947
Cars	0	2	0	362	103	467	0	14	313	5	49	381	0	0	0	0	0	0	48	13	1	0	0	62	5	22	396	1	0	426	0	0	0	0	0	0	1336
% Cars	0	50.0	0	95.0	90.4	93.6	0	100	92.9	100	90.7	92.9	0	0	0	0	0	0	100	100	25.0	0	0	95.4	71.4	95.7	95.9	100	0	95.5	0	0	0	0	0	0	94.1
Hanvy Vehicles	0	2	0	19	11	32	0	0	24	0	5	29	0	0	0	0	0	0	0	0	3	0	0	3	2	1	17	0	0	20	0	0	0	0	0	0	84
% Heavy Vahidas	0	50.0	D	5.0	9.8	6.4	0	0	7.1	0	9.3	7.1	0	0	0	0	0	0	0	0	75.0	0	0	4.6	28.6	4.3	4.1	0	0	4.5	0	0	0	0	0	0	5.9



Commonwealth Avenue (Route 30) WB E/W/NSW: Washington St/Carriage Road City, State: Brighton, MA Client: HSH/ J. SanClemente

P.O. Box 301 Berlin, MA 01503 Office: 508.481.3999 Fax: 508.545.1234 Email: datarequests@pdilic.com

File Name: 112737 B1

Site Code : TBA

Start Date : 12/14/2011

														Group	s Pri	nted-	Cars							-							
	Co		wealt te 30 m No	WB	nue			TA Tra			Co		wealt te 30) m So	WB	nue		Carri From	iage f Souti			\		ngton om W	Street est	t			age R North			
Start Time	Hard Pight	Right	Bear Right	Thru	Left	Right	Beer Right	Thru	Boer Left	Left	Right	Thru	Bear Left	Left	Hard Left	Hard Right	Bear	Bear	Left	Hard	Hard Right	Right	Thru	Left	Hard	Hard Dight	Right	Sear Right	Bear Left	Hard Luft	Int. Total
07:00 AM	0	3	0	57	19	0	0	47	0	3	0	0	0	0	0	2	2	0	0	0	1	8	72	1	0	0	0	0	0	0	215
07:15 AM	0	0	0	61	17	0	1	55	4	7	0	0	0	0	0	7	1	0	0	0	4	4	96	0	0	0	0	0	0	0	257
07:30 AM	0	0	0	96	32	0	0	86	1	11	0	0	0	0	0	19	2	1	0	0	1	3	95	0	0	0	0	0	0	0	347
07:45 AM	0	0	0	92	29	0	6	91	_1	10	0	0	0	0	0	15	4	0	0	0	1.	8	99	1	0	0	0	0	0	0	357
Total	0	3	0	306	97	0	7	279	6	31	0	0	0	0	0	43	9	1	0	0	7	23	362	2	0	0	0	0	0	0	1176
- 1			_		3				_		6 .			_	_ 5						)									V	
08:00 AM	0	2	0	91	21	0	3	70	2	11	0	0	0	0	0	7	4	0	0	0	2	7	111	0	0	0	0	0	0	0	331
08:15 AM	0	0	0	83	21	0	5	66	1	17	0	0	0	0	0	7	3	0	0	0	1	4	93	0	0	0	0	0	0	0	301
08:30 AM	0	0	0	84	18	0	3	82	0	7	0	0	0	0	0	5	2	0	0	0	2	4	91	1	0	0	0	0	0	0	299
08:45 AM	0	0	0	80	17	0	3	71	0	9	0	_0	0	0	0	16	4	_0	0	0	4	8	96	0_	0	0	0	0	0	0	308
Total	0	2	0	338	77	0	14	289	3	44	0	0	0	0	0	35	13	0	0	0	9	23	391	1	0	0	0	0	0	0	1239
ì		_	•		1	•			_	20	•	_	_		•	70				-11				_	_10		_	_	_	. 7	
Grand Total	0	5	Ü	644	174	0	21	568	9	75	0	0	0	0	0	78	22	7	0	0	16	46	753	3	0	0	0	0	0	0	2415
Apprch %	0	0.6	0	78.3	21.1	0	3.1	84.4	1.3	11.1	0	0	0	0	0	77.2	21.8	1	0	0	2	5.6	92.1	0.4	0	0	0	0	0	0	
Total %	0	0.2	0	26.7	7.2	0	0.9	23.5	0.4	3.1	0	0	0	0	0	3.2	0.9	0	0	0	0.7	1.9	31.2	0.1	0	0	0	0	0	0	

	C	(F	ionw Route From	30)		nue			ABTA Fron				С	(F	ionwi Route From	30)		nue				ge Ro						ton S We:		t				ge Ro orthw			X
Start Time	Her d Ri	Rig Ha	Pee r RU	The	i.ell	App. Total	Rig M	Bon r Ri	Thr	Bea /Le	Left	App. Total	RJg M	Thr #	r Lo	Leñ	Her	App.	Har d RI	Bee r Ri	Bon rLe	Left	Har d Le	App.	Har d Ri	Rig H	Thr	Left	Her dLe	App. Total	Her d Ri	Rúg M	Bea r FU	Bon rLe	Her d Le	App. Total	Int. Total
Peak Hou	ır Ana	alysis	Fro	m 07	:00 A	M to (	08:45	AM	- Pea	k 1 c	of 1		-			-			-	-		-											-				
Peak H	our	for I	Enti	re li	nters	ectio	on B	egir	ns at	t 07	:30 /	AM																									
07:30 AM	0	0	0	96	32	128	0	Ŏ	86	1	11	98	0	0	0	0	0	0	19	2	1	0	0	22	1	3	95	0	0	99	0	0	0	0	0	0	347
07:45 AM	0	0	0	92	29	121	0	6	91	1	10	108	0	0	0	0	0	0	15	4	0	0	0	19	1	8	99	1	0	109	0	0	0	0	0	0	357
MA 00:80	0	2	0	91	21	114	0	3	70	2	11	86	0	0	0	0	0	0	7	4	0	0	0	11	2	7	111	0	0	120	0	0	0	0	0	0	331
08:15 AM	0	0	0	83	21	104	0	5	66	_1	17	89	0	0	0	0	0	0	7	3	0	0	0	10	1	4	93	0	0	98	0	0	0	0	0	0	301
Total Volume	0	2	0	362	103	467	0	14	313	5	49	381	0	0	0	0	0	0	48	13	1	0	0	62	5	22	396	1	. 0	426	0	0	0	0	0	0	1336
N. App. Total	0	0.4	0	77,5	22.1		٥	3,7	82.2	1.3	12.6		0	0	0	0	0		77.4	21	1,6	0	0		1.2	5.2	83.4	0.2	0		0	0	0	0	0		L.
PHF	.000	250	.000	.943	806	.912	.000	583	MBO	625	.721	.882	.000	.000	.000	.000	.000	.000	632	,813	250	.000	.000	.705	#25	.694	.894	250	000	.888	.000	000	000	000	.000	.000	.936



ommonwealth Avenue (Route 30) WB

E/W/NSW: Washington St/Carriage Road

P.O. Box 301 Berlin, MA 01503 Office: 508.481.3999 Fax: 508.545.1234 Email: datarequests@pdlllc.com File Name: 112737 B1

Site Code : TBA

Start Date : 12/14/2011

Page No : 1

City, State: Brighton, MA Client: HSH/ J. SanClemente

													Group	os Prin	nted-	Heav	y Vehi	cles													
	Co		wealt ite 30 om No	WB	nue			TA Tra			Co	mmon Rout Fro		WB	nue		Carri From	age R South			V		ngton om W	Street est				age R North			
Start Time	Hard Right	Right	Bear Right	Thru	Left	Right	Beer Right	Thru	Boar Left	Left	Right	Thru	Bear Left	Left	Hard Laft	Hard Right	Beer Right	Bear Left	Left	Hard Left	Hard Right	Right	Thru	Left	Hard Left	Hard Right	Right	Bear Right	Bear Left	Hard Let	Inil, Total
07:00 AM	0	0	0	3	1	0	0	3	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	10
07:15 AM	0	0	0	1	3	0	0	5	0	0	0	0	0	0	0	0	0	1	0	0	0	0	6	0	0	0	0	0	0	0	16
07:30 AM	0	0	0	8	5	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	. 0	0	21
07:45 AM	0	0	0	3	2	0	0	4	0	0	0	0	0	0	0	0	0	_2	0	0	2	_1	4	0	0	0	0	0	0	0	18
Total	0	0	0	15	11	0	0	18	0	0	0	0	0	0	0	0	1	3	0	0	2	1	14	0	0	0	0	0	0	0	65
	_	4	•		2		^	7				0	^	•	•		^	4		۰.	_	^			ام			^	_	ام	00
08:00 AM	0	1	Ū	1	2	U	Ü		Ü	4	Ų	U	Ū	Ū	0	U	U	1	0	0	Ū	U	6	0	9	U	U	0	U	0	22
08:15 AM	0	1	0	7	2	0	0	7	0	1	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	23
08:30 AM	0	0	0	3	1	0	0	3	0	0	0	0	0	0	0	0	0	1	0	0	0	0	5	0	0	0	0	0	0	0	13
08:45 AM	0	0	0	3	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	17
Total	0	2	0	14	5	0	0	25	0	5	0	0	0	0	0	0	0	2	0	0	0	0	22	0	0	0	0	0	0	0	75
					. 11					_																					
Grand Total	0	2	0	29	16	0	0	43	0	5	0	0	0	0	0	0	1	5	0	0	2	1	36	0	0	0	0	0	0	0	140
Apprch %	0	4.3	0	61.7	34	0	0	89.6	0	10.4	0	0	0	0	0	0	16.7	83.3	0	0	5.1	2.6	92.3	0	0	0	0	0	0	0	
Total %	0	1.4	0	20.7	11.4	0	0	30.7	0	3.6	0	0	0	0	0	0	0.7	3.6	0	0	1.4	0.7	25.7	0	0	0	0	0	0	0	

	C	(R	onwe oute From	30)		านอ				Trac			С	(F	onw Route From	30)	WB	nue			arriaç om So	•						ton S	Street st				arriag om N				
Start Time	Her d Ri oht	Rig M	Pom r RI	Thy	Left	App. Total	Rig ht	Bee r RI	Thr ((u)	Oas rLa	Left	App. Talai	AUg N	Thr	Ben rLu	Left	Har d Lu	App. Total	Har d Rii	Bea r Ri	Bea rLe	Left	Har d Le	App. Total	Har d RI	Alg Hi	Thr	Left	Her d Le	App. Total	Har d Ri	Rig M	Bed rRi ght	Boe rLe	Har d Le	App. Total	Int. Total
eak Hou	r Ana	alysis	From	n 07	:00 A	M to (	8:45	AM	- Pea	k 1 c	of 1						711-12								10430000												
'eak H	our	for I	Entir	e In	ters	ectic	n B	egir	ns at	07:	30 /	MΑ																									
07:30 AM	0	0	0	8	5	13	0	ŏ	6	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	21
07:45 AM	0	0	0	3	2	5	0	0	4	0	0	4	0	0	0	0	0	0	0	0	2	0	0	2	2	1	4	0	0	7	0	0	0	0	0	0	18
MA 00:80	0	1	0	1	2	4	0	0	7	0	4	11	0	0	0	0	0	0	0	0	1	0	0	1	0	0	6	0	0	6	0	0	0	0	0	0	22
08:15 AM	0	_1_	0	7	2	10	0	0	7	0	1	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	0	23
Total Volume	0	2	0	19	11	32	0	0	24	0	5	29	0	0	0	0	0	0	0	0	3	0	0	3	2	1	17	0	0	20	0	0	0	0	0	0	84
N. Apo, Total		6.2		59.4	34.4		0	.0	82.8	0	17.2		.0	0	0	0	٥		0		ton				10	5	85	0	0		0	0	0	0	0		
PHF	.000	500	.000	594	550	.615	900	.000	857	000	353	.659	.000	.000	000	.000	.000	.000	.000	000	378	.000	.000	375	,250	250	708	000	000	.714	.000	000	000	000	.000	.000	.913



Commonwealth Avenue (Route 30) WB NSW: Washington St/Carriage Road

City, State: Brighton, MA

Client: HSH/ J. SanClemente

P.O. Box 301 Berlin, MA 01503 Office: 508.481.3999 Fax: 508.545.1234 Email: datarequests@pdillc.com

File Name: 112737 B1

Site Code : TBA

Start Date : 12/14/2011

															Gro	ups	Print	ed- F	eds	and E	Bicyc	es															
	C		oute	alth A 30) V North	/B	ue				Trac Eas			Co	(Re	onwe oute rom	alth / 30) V	Aven VB			Ca	rriag m Sc	e Ro					hing! From							e Roa			
Start Time	Har d RU oht	Righ I	Bon rRi ght	Thr	Left	Ped	Righ (	Bee r Ri	Thr U	Bea r Lef	Left	Ped	Righ	Thr	Bos r Lef	Left	Har d Le	Ped •	Har d Ri	Ben r Ri	Bee rLef	Left	Her d La	Ped a	Har d RI	Righ	Thr	Left	Har dLe	Ped	Her d RI	Righ	Bea r Ri	Bea r Lef	Har dle	Ped	Int. Total
07:00 AM	0	0	0	0	0	15	0	0	1	0	0	5	0	0	0	0	0	5	0	0	0	0	0	5	0	2	0	0	0	18	0	0	0	0	0	15	66
07:15 AM	ŀ																																				1
07:30 AM	0	0	0	0	0	43	0	0	3	0	0	11	0	0	0	0	0	28	0	0	0	0	0	28	0	0	0	0	0	15	0	0	0	0	0	43	171
07.45 AM	_																																				
Total	0	0	0	0	0	124	0	0	8	0	0	31	0	0	0	0	0	59	0	0	0	0	0	59	0	2	4	0	0	87	0	0	0	0	0	124	498
08:00 AM				_		1						j	ĥ.																							ĵ	ĺ
08:15 AM	0	0	0	0	0	56	0	0	0	0	0	8	0	0	0	0	0	18	0	0	0	0	0	18	0	0	3	0	0	13	0	0	0	0	0	56	172
08:30 AM	•	_		ŭ					-	1	2							- 1																			
08:45 AM	0	0	0	1	0	35	0	0	2	0	0	4	0	0	_0_	0	0	15	_0_	0	0	_0_	0	15	_0_	0	2	_0_	_0_	4	0	0	0	0	0	35	113
Yolal	0	0	0	1	0	168						1						J						- 1												165	618
- 17												19						- 9												10							
Grand Tobal	0	0	0	1	0	292	0	0	12	0	0	68	0	0	0	0	0	147	0	0	0	0	0	147	0	2	11	0	1	143	0	0	0	0	0	292	1118
Apprch %	0	0	0	0.3	0	99,7	0	0	15	0	0	85	0	0	0	0	0	100	0	0	0	0	0	100	0	1.3	7	0	0.6	91.1	0	0	0	0	0	100	
Total %	0	0	0	0.1	0	26.2	0	0	1.1	0	0	6.1	0	0	0	0	0	13,2	0	0	0	0	0	13.2	0	0.2	1	0	0.1	12.8	0	0	0	0	0	28.2	

			Rou	te 3			ıu⊖			MB1 Fre		rack East			(	omi (	Rou	te 3	lth A 0) W outh	/B	ue				iage Sou					Wa			n Sti Vest		-55			Carri rom					
Start Time	Ha rd Ri	FU oht	Be ar	Th	Lef	Pe du	App.	FU att	Be ur Al	Th ru	Be er	Lef	Pe de	App.	RJ ght	Th	Be ar Lef	Lef	Ha no	Pe de	App.	Ha rd Ri	Se sr Ri	Be ar Let	Lef	Ha rd	Pe	App.	Ha rd	RI	ть	Lef		Pa	App.	Ha rd	RU	Be ar	Be br	Ha rd	Pe	App.	Int. Tota
	974		ght					Ŀ	alse					1	94	ru .	Lei		Lan			ght	aht.	4		Lef 1	de	- 1	Fli oht	Bp4	ru		Lof	٠	- 1	Ri ole	ght	Ri akt	Lef	Lef	de	1	1
eak Ho																																											301.715
Peak H	lou	r fo	rE	ntir	e In	ters	sect	ion	Beg	gins	at	07:	، 30	AM.														1	v							25							92
07:30 AM	0	0	0	0	0	43	43	0	0	3	0	0	11	14	0	0	0	0	0	28	28	0	0	0	0	0	28	28	0	0	0	0	0	15	15	0	0	0	0	0	43	43	171
07:45 AM	0	0	0	0	0	41	41	0	0	1	0	0	3	4	0	0	0	0	0	14	14	0	0	0	0	0	14	14	0	0	2	0	0	19	21	0	0	0	0	0	41	41	135
MA 00 80	0	0	0	0	0	41	41	0	0	1	0	0	10	11	0	0	0	0	0	30	30	0	0	0	0	0	30	30	0	0	1	0	0	20	21	0	0	0	0	0	41	41	174
08:15 AM	0	0	0	0	0	56	56	0	0	0	0	0	8	8	0	0	0	0	0	10	18	0	0	0	0	0	18	18	0	0	3	0	0	13	16	0	0	0	0	0	56	56	172
Total Volume	0	0	0	0	0	18	181	0	0	5	0	0	32	37	0	0	0	0	0	90	90	0	0	0	0	0	90	90	0	0	6	0	0	67	73	0	0	0	0	0	15	181	652
% App. Total	0	0	0	0	0	10		0	0	13.	0	0	86.		0	0	0	0	0	10		0	0	0	0	0	10		0	0	8.2	0	0	91. 6		0	0	0	0	0	10		
PHF	.00	.00	00	.00	00	60	.808	.00	.00	41	.00	.00	.72	.661	.00	.00	00	.00	.00	.76	750	.00	.00	.00	00	Q0	.75	750	.00	.00	50	00	00	83	669	.00	.00	.00	.00	.00	.80	808	.937



Commonwealth Avenue (Route 30) WB .../NSW: Washington St/Carriage Road

City, State: Brighton, MA Client: HSH/ J. SanClemente P.O. Box 301 Berlin, MA 01503 Office: 508.481,3999 Fax: 508.545.1234 Email: datarequests@pdillc.com File Name: 112737 B1

Site Code: TBA

Start Date : 12/14/2011

Page No : 1

Groups Printed- Trains

	Co		wealtl te 30) m No	WB	nue			TA Tra			Co	mmon Rout Fro		WB	nue		Carri From	age R South			٧		ngton om W	Stree est	t			iage R North			
Start Time	Hard Right	Right	Bear Right	Thru	Left	Right	Beer Right	Thru	Bear Left	Left	Right	Thru	Bear Left	Left	Hard Loft	Hard Right	Bear Right	Bear Left	Left	Hard	Plant Flore	Right	Thru	Left	Hard Left	Hard Right	Right	Bear Right	Bepr Left	Hard	int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Ō	ō	ō	ō	Ô
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Ó	Ō	0	0	Ō	ō	ō	ŏ	ō
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ō	0	o l	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Ō
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Approh % Total %	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

	С	(F	loute	ealth 30) Nor		nue			IBTA Fron				С	(F	loute	alth 30) Sou		nue			arriaç om So							ton S We:	Street st				arriag om N				
Start Time	Har d RI	FUg Int	r Pú	Thr	Left	App. Total	Rg Ht	r RJ	Thr	Gea r La	Left	App.	Rig HL	The	Bes rLs	Left	Har d La	App Total	Har d Ri	Bes (R)	Bee	Left	Har d Le	App.	Her d RI	Rig M	Thr	Left	Har d Le	App.	Her d Ri	Flig Hs	Bea rRi	Bee r Ce	Har d Le	App. Total	Int. Total
Peak Hou	r Ana	alysis	Fro	m 07	:00 A	M to	08:45	AM	- Pea	k 1 c	of 1		-	-					WA	1 2%					974	_		_		-	94		ght I				
Peak H	our	for I	Enti	e Ir	ters	ectio	on B	egir	ns at	07	:00 /	AM																									
07:00 AM	0	0	0	0	0	0	0	ŏ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	O	0	Ω	n	n	0
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Ō	Ō	Ō	ō	ŏ	Õ	õ	õ	Õ	ō	ō	ō	õ	ñ	ň	ŏ	0
07:30 AM	0	0	0	0	0	0	≥ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	Ō	Ō	Ō	ō	ō	ō	ō	ō	ō	õ	o	õ	ñ	ñ	ñ	ŏ	n
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Volume % App. Total	0	0	0	0	٥		0	٥	Ω	Ò	Ω		٥	٥	Λ	0	Λ		0	0	٥	٥	0	- 1	0	ń	۸	_0	0	-	0	٥	^	^	^	-	
PHF	.000	2000	.000	2000	.000	.000	000	.000	.000	.000	.000	.000	.000		.000	.000	.000	.000	.000	000	.000	.000	.000	.000	_	- 0	D 000	۰۰۰		.000		.000	.000	.000	0	.000	.000



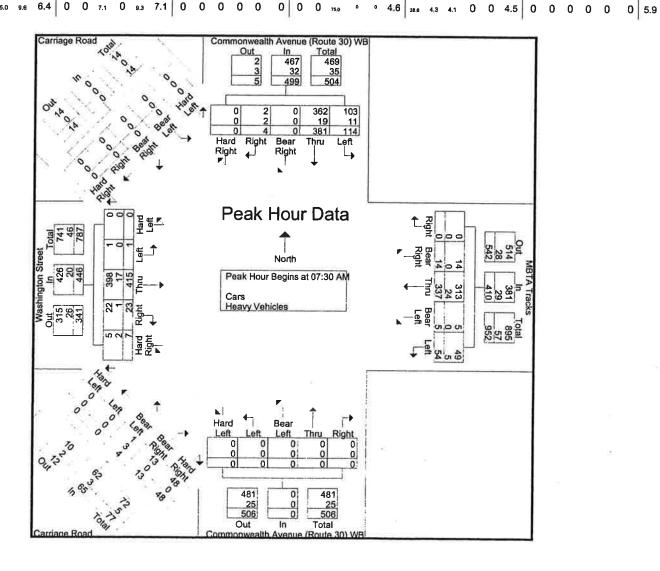
Commonwealth Avenue (Route 30) WB .. / NSW: Washington St/Carriage Road

City, State: Brighton, MA Client: HSH/ J. SanClemente P.O. Box 301 Berlin, MA 01503 Office: 508.481.3999 Fax: 508.545.1234 Email: datarequests@pdllic.com File Name: 112737 B1

Site Code: TBA

Start Date : 12/14/2011

	C		onw Route Fron	30)	WB	nue		N	/BT/ From				С	(F	loute	ealth 30) Sou		nue				ge R South					shing From			t				ge Ro orthv			
Start Time	Har d RI phi	Rig fd.	Pen r Ri	Thr	Left	App. Total	FUg HL	Page 1 RI	Thr	Bas rLs	Left	App. Total	Rig ht	Thr	Bea rle	Left	Her dla	App. Total	Har d Ri	Bear r Ri	Bee rLe	Left	Her d La	App. Total	Har d Ri	Rig ht	Thr	Left	Her d Le	App. Total	Her d Ri	Rig M.	Ben r RU	Rea rLe	Har d Le	App. Total	Int. Total
Peak Hou	ır An	alysi	s Fro	m 07	:00 A	M to	08:45	AM	- Pe	k 1	of 1								TIME STATE														20		-		
Peak H	our	for	Enti	re Ir	nters	section	on B	egir	ns a	t 07	:30	AM .	,																								
07:30 AM	0	0	0	104	37	141	0	Ō	92	1	11	104	0	0	0	0	0	0	19	2	1	0	0	22	1	3	97	0	0	101	Ιo	0	0	0	0	0	368
07:45 AM	0	0	0	95	31	126	0	6	95	1	10	112	0	0	0	0	0	0	15	4	2	0	0	21	3	9	103	1	0	116	ŏ	ō	ō	ñ	ō	ñ	375
08:00 AM	0	3	0	92	23	118	0	3	77	2	15	97	0	0	0	0	0	0	7	4	1	0	0	12	2	7	117	0	Õ	126	Ō	ō	ñ	ñ	ñ	ŏ	353
08:15 AM	0	1	0	90	23	114	0	5	73	1	18	97	. 0	0	0	0	0	0	7	3	0	0	0	10	1	4	98	0	ō	103	0	0	0	0	0	0	324
Total Volume	0	4	0	381	114	499	0	14	337	5	54	410	0	0	0	0	0	0	48	13	4	0	0	65	7	23	415	1	0	446	0	0	0	0	0	0	1420
% App. Total	0	0.8	0	78.4	22.8		0	3,4	82.2	1.2	13.2		0	•	0	0	0		73 8	20	6.2	0	0		1.6	5.2	93	0.2	0		0	0	0	0	0		
PHF	.000	.333	.000	216	270	.885	000	583	887	.625	750	.915	.000	.000	000	000	000	.000	632	.013	500	000	.000	.739		639	RAT	250	.000	.885	000	000	.000	_	.000	.000	.947
Cars	0	2	0	362	103	467	0	14	313	5	49	381	0	0	0	0	0	0	48	13	1	0	0	62	5	22	386	1	0	426	C	0	000	n	<u></u>	0	1336
% Cars	0	50,0	0	95.0	90.4	93.6	0	100	92.9	100	90.7	92.9	0	0	0	0	0	0	100	100	25.0	0	0	95.4	71.4	95.7	95.9	100	ñ	95.5	ñ	ñ	ñ	n	ñ	ň	94.1
Heavy Vehicles	0	2	0	19	11	32	0	0	24	0	5	29	0	0	0	0	0	0	0	0	3	0	0	3	2	1	17	0	0	20	0	0	0	0	0	0	84
% Heavy Vehicles	0	50.0	0	5.0	9.6	6.4	0	0	7.1	0	9.3	7.1	0	0	0	0	0	0	0	0	75.0	0	0	4.6	28.6	4,3	4.1	0	0	4.5	0	0	0	0	0	0	5.9





Commonwealth Avenue (Route 30) EB /NSE: Washington Street/Carriage Road

City, State: Brighton, MA Client: HSH/ J. SanClemente P.O. Box 301 Berlin, MA 01503 Office: 508.481.3999 Fax: 508.545.1234 Email: datarequests@pdillc.com

File Name: 112737 B2

Site Code : TBA

Start Date : 12/14/2011

Page No : 1

	Co	mmon	Moolt	h Ave	2110					_			- ap	Printed		T	00.1	Onion		_	0.	4				_					1
		(Rou	te 30 m No	) EB	100			Norti			\		ngton om E	Stree	l			iage F South			Co		wealt ute 30 im Sc	) EB	nue			TA Tra			
Start Time	Right	Thru	Beer Left	Left	Hard Left	Hard Right	Beer Right	Bear	Left	Hard Left	Hard Right	Right	Thru	Left	Hard	Hard Right	Right	Beer Right	Beer	Hard	Hard Right	Right	Beer Right	Thru	Left	Right	Boar	Thru	Bear	Left	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0	2	6	52	0	0	7	3	0	0	0	0	2	0	86	0	0	0	80	3	13	254
07:15 AM	0	0	0	0	0	0	0	0	0	0	4	8	70	0	0	1	1	0	0	0	0	8	Ō	118	0	ō	õ	108	3	9	330
07:30 AM	0	0	0	0	0	0	0	0	0	0	4	13	100	0	0	8	5	Ō	0	0	0	4	1	150	ō	ō	õ	110	2	23	420
07:45 AM	0	0	0	0	0	0	0	0	0	0	6	16	106	0	0	13	5	0	0	0	0	1	_ i	202	1	0	0	112	2	21	486
Total	0	0	0	0	0	0	0	0	0	0	16	43	328	0	0	29	14	0	0	0	0	15	2	556	1	0	0	410	10	66	1490
08:00 AM	0	0	0	0	0	0	0	0	0	0	5	12	95	0	0	15	9	0	0	οĺ	0	5	0	184	0	0	0	115	1	26	467
08:15 AM	0	0	0	0	0	0	0	0	0	0	2	14	95	0	0	22	12	1	0	o l	0	1	Õ	177	ŏ	ō	ō	101	5	19	449
08:30 AM	0	0	0	0 .	0	0	0	0	0	0	5	10	93	0	0	18	6	1	0	ō	ō	4	2	186	ŏ	Ô	ñ	93	1	20	439
08:45 AM	0	0	0	0	0	0	0	0	0	0	3	17	92	0	0	21	11	0	0	0	0	5	1	166	0	0	0	98	0	19	433
Total	0	0	0	0	0	0	0	0	0	0	15	53	375	0	0	76	38	2	0	0	0	15	3	713	0	0	0	407	7	84	1788
Grand Total	0	0	0	0	0	0	0	0	0	0	31	96	703	0	0	105	52	2	0	0	0	30	5	1269	1	0	0	817	17	150	3278
Apprch %	0	0	0	0	0	0	0	0	0	0	3.7	11.6	84.7	0	0	66	32.7	1.3	0	0	0	2.3	0.4	97.2	0.1	Ô	Õ	83	1.7	15.2	02.0
Total %	0	0	0	0	0	0	0	0	0	0	0.9	2.9	21.4	0	0	3.2	1.6	0.1	0	0	0	0.9	0.2	38.7	0	0	0	24.9	0.5	4.6	
Cars	0	0	0	0	0	0	0	0	0	0	31	91	654	0	0	104	51	2	0	0	0	27	5	1247	1	0	0	769	16	144	3142
% Cars	0	0	0	0	0	0	0_	0	0	0	100	94.8	93	0	0	99	98.1	100	0	ō	ō	90	_	98.3	100	ő	_	94.1	94.1	96	95.9
Heavy Vehicles	0	0	0	0	0	0	0	0	0	0	0	5	49	0	0	1	1	0	0	0	Ō	3	0	22	0	0	ŏ	48	1	6	136
% Henvy	0	0	0	0	0	0	0	0	0	0	0	5,2	7	0	0	1	1.9	0	0	0	0	10	0	1.7	0	0	0	5.9	5.9	4	4.1

	C	(F	onw Route From	30)		nue			arriaç om N					Wa	shing Fron			t				ge Ro outho			C		loute	ealth 30) Sou	EB	nue			IBTA From				
Start Time	Rig Hi	Thr M	rLn	Left	Har d Le	App. Total	Her d Ri	FRO GHA	Bea rLe	Left	Har d Lu	App. Total	Har d Ri	Rig M	Thr	Left	Her d Le	App, Total	Her d Ri	Rig	r Ri	Bee rLe	Har d Le	App. Total	Harr d Ri	RUg Mt	Bea r Ri	Thr	Left	App. Total	Rig M	Bea r RU	The	Bear	Left	App.	fm. Total
Peak Hou															-						UIN.	-			- 07		OTT		-			014		-			
Peak H	our	for I	Entii	re Ir	iters	ectic	n B	egir	is at	07:	45 /	MA																									
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	6	16	106	0	0	128	13	5	0	0	0	18	0	1	1	202	1	205	0	0	112	2	21	135	486
MA 00:80	0	0	0	0	0	0	0	0	0	0	0	0	5	12	95	0	0	112	15	9	0	0	0	24	0	5	0	184	Ó	189	Ō	ō	115	1	26	142	467
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	2	14	95	0	0	111	22	12	1	0	0	35	0	1	0	177	0	178	o	ō	101	5	19	125	449
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	5	10	93	0	0	108	18	6	1	0	0	25	0	4	2	166	0	192	0	0	93	1	20	114	
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	18	52	389	0	0	459	68	32	2	0	0	102	0	11	3	749	1	764	0	0	421	9		516	1841
N App. Total	0	0	0	0	0		0	0	0	0	0		3.9	11.3	94.7	0	0		66.7	31.4	2	0	0			1.4	0.4	98	0.1		0	0	81.6	17	***		
PHF	000	000	999	000	000	.000	000	000	.000	.000	000	.000	750	413	917	000	200	896	773	.667	.500	.000	.000	.729	000	550	375	927	250	932	.000	000	015	460	827	908	947
Cars	0	0	0	0	0	0	0	0	0	0	0	0	18	49	363	0	0	430	68	32	2	0	0	102	0	11	3	737	1	752	0	0	396	9	83	488	1772
% Cars	0	0	0	0	0	0	0	0	0	0	0	0	100	94.2	93.9	0	0	93.7	100	100	100	0	0	100	0	100	100	98.4	100	98.4	0	0	94.1	100	96.5	94.6	96.3
Heavy Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0	3	26	0	0	29	0	0	0	0	0	0	0	0	0	12	0	12	0	0	25	0	3	28	69
% Heavy Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0	5.8	6.7	0	0	6.3	0	0	0	0	0	0	0	0	0	1.6	0	1.6	0	0	5.9	0	3.5	5.4	3.7



Commonwealth Avenue (Route 30) EB /NSE: Washington Street/Carriage Road

P.O. Box 301 Berlin, MA 01503 Office: 508.481.3999 Fax: 508.545.1234 Ernail: datarequests@pdilfc.com

File Name: 112737 B2

Site Code : TBA

Start Date : 12/14/2011

Page No : 1

City, State: Brighton, MA Client: HSH/ J. SanClemente

	_					-								Group	s Pri	nted-	Cars														
	Coi		wealt ite 30 im No	) EB	nue				Road heast		١		ngton	Stree ast				iage R South			Coi	(Rot	wealt		nue			TA Tra			
Start Time	Right	Thru	Beer Left	Left	Havd	Herd Right	Boar Right	Bear Left	Left	Hard Left	Hard Right	Right	Thru	Left	Herd	Hard Right	Right	Bour Right	Beer Left	Hard	Hard Right	Right	Beer Right	Thru	Left	Right	Beer Right	Thru	Bear Left	Left	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0	2	5	49	0	0	6	2	0	0	0	0	1	0	85	0	0	0	78	3	12	243
07:15 AM	0	0	0	0	0	0	0	0	0	0	4	7	64	0	0	1	1	0	0	0	0	7	ō	116	ŏ	ō	ŏ	101	3	8	312
07:30 AM	0	0	0	0	0	0	0	0	0	0	4	13	94	0	0	8	5	0	0	0	0	3	1	145	ā	ō	ō	102	1	23	399
07:45 AM	0	0	0	0	0	0	0	0	0	0	6	15	102	0	0	13	5	0	0	0	0	1	1	199	1	0	Õ	107	2	20	472
Total	0	0	0	0	0	0	0	0	0	0	16	40	309	0	0	28	13	0	0	0	0	12	2	545	1	0	0	388	9	63	1426
08:00 AM	0	0	0	0	0	0	0	0	0	0	5	11	85	0	0	15	9	0	0	0	0	5	0	182	ol	0	0	108	1	24	445
08:15 AM	0	0	0	0	0	0	0	0	0	0	2	13	86	0	0	22	12	1	0	0	0	1	0	172	ŏ	Ō	ŏ	94	5	19	427
08:30 AM	0	0	0	0	0	0	0	0	0	0	5	10	90	0	0	18	6	1	0	0	0	4	2	184	ō	ō	ō	87	1	20	428
08:45 AM	0	0	0	0	0	0	_ 0	0	0	0	3	17	84	0	0	21	11	0	0	0	0	5	1	164	0	0	0	92	0	18	416
Total	0	0	0	0	0	0	0	0	0	0	15	51	345	0	0	76	38	2	0	0	0	15	3	702	0	0	0	381	7	81	1716
Grand Total	0	0	0	0	0	0	0	0	0	0	31	91	654	0	0	104	51	2	0	0	0	27	5	1247	1 [	0	0	769	16	144	3142
Apprch %	0	0	0	0	0	0	0	0	0	0	4	11.7	84.3	0	0	66.2	32.5	1.3	0	ō	0				0.1	ő	ñ	82.8	1.7	15.5	0142
Total %	0	0	0	0	0	0	0	0	0	0	1	2.9	20.8	0	0	3.3		0.1	0	0			0.2	39.7	0	ŏ	Õ		0.5	4.6	

		(F	Route	ealth 30) Nor		านอ				ge Ro Iorth				Wa	shing Fror	iton S n Eas		t				ge Ro outho			С	(F	loute	ealth 30) Sou	ЕВ	nue			BTA Fror				
Start Time	Rig M	Thr	r Le	Left	Har dLe	App Total	d Ri	r R)	f Le	Left	Her d Le	App.	Her d Ri	Rig ht	Thr	Left	Her d Le	App.	Har d Ri	Flig M	Bea rRi	8ee rLu	Her d Le	App.	Har d Ri	Flig M	Bee rRi	Thr	Left	App.	Rig	Bee r Ri	Thr	Bee fle	Left	App Total	Int.
Peak Hour	An	alysis	Fro	m 07	:00 A	M to 0	08:45	AM	- Pea	k 1 c	f 1		- 0*			-	_	_	- ale	-	_ phi	-			-811		. ett					eH.	_	^_		1000	104
Peak Ho	ur	for f	Enti	re Ir	iters	ectic	n B	egir	ns af	07:	45 A	M																									
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	6	15	102	0	0	123	13	5	0	0	0	18	0	1	1	100	1	202	0	٥	107	2	20	129	472
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	5	11	85	0	0	101	15	9	0	0	0	24	0	5	0	182	ò	187	ŏ	ñ	100	1	24	133	445
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	2	13	86	0	0	101	22	12	1	0	0	35	0	1	ō	172	ō	173	ň	ň	94	5	19	118	427
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	5	10	90	0	0	105	18	6	_ 1_	0	0	25	0	4	2	164	0	190	n	Ô	87	1	20	108	428
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	18	49	363	0	0	430	68	32	2	0	0	102	0	11	3	737	1	752	0	0	396	9	83	488	1772
% App. Total	0	0	0	0	0		0	0	0	0	0		4.2	11.4	84.4	0	0		66.7	31.4	2	0	0		0	1.5	0.4	98	0.1		0	0	A1.1	1.0	17		
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Commonwealth Avenue (Route 30) EB /NSE: Washington Street/Carriage Road City, State: Brighton, MA Client: HSH/ J. SanClemente

P.O. Box 301 Berlin, MA 01503 Office: 508.481.3999 Fax: 508.545.1234 Email: datarequests@pdIllc.com

File Name: 112737 B2

Site Code : TBA

Start Date : 12/14/2011

	Co		wealtl ute 30 om No	) EB	nue			iage f Norti					ington om E	Stree est	t		Carr From	iage F Soutl			Со		wealt ite 30 m So	) EB	nue			TA Tra			
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Total	0	0	0	0	0	0	0	0	0	0	0	3	19	0	0	1	1	0	0	0	0	3	0	11	0	0	0	22	1	3	64
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Peak Hou	An	alysis	Fro	m 07	:00 A	M to	08:4	5 AM	- Pea	ak 1 c	of 1				***************************************		_		- ×-		William	h								_		Obl	-				-
Peak Ho	our	for i	Enti	re Ir	iters	sectio	on E	Begir	ns a	t 07:	:30 /	MΑ																									
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Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	3	29	0	0	32	0	0	0	0	0	0	0	1	0	15	0	16	0	0	27	1	3	31	79
% Asp. Total	_		-	_					_					9.4	90.6	0	0		0	0	0	0	0		0	5.2		93.6	0		0	٥	87.1	3.2	9.7		
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Commonwealth Avenue (Route 30) EB

.../NSE: Washington Street/Carriage Road

0 0 0 202 0

City, State: Brighton, MA Client: HSH/ J. SanClemente P.O. Box 301 Berlin, MA 01503 Office: 508.481.3999 Fax: 508.545.1234 Email: datarequests@pdillc.com File Name: 112737 B2

Site Code: TBA

Start Date: 12/14/2011

Page No: 1

							_								GIC	oups	Print	ed- F	eas	and a	ысус	es															3
	C	(R	onwe loute rom	30) 8	ЕВ	ue			arriag om N						hingt From							e Ro outhe			Co	(R	onwe oute rom	30) E	В	ue				Trac Wes			
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07:15 AM 07:30 AM	0	0	0	0	0	54	0	0	0	0	0	54	0	0	3	0	0	13	0	0	0	0	0	22	0	0	0	0	0	22	0	0	0	0	0	7	175
Total	0	0	0	0	0	138	0	0	0	0	0	138	0	0	6	0	0	57	0	0	0	0	0	64	0	0	0	8	0	64	0	0	8	0	0	30	513
08:00 AM 08:15 AM	0	0	0	0	0	39	0	0	0	0	0	39	0	0	0	0	0	19	2	0	0	0	0	14	0	0	0	4	2	14	0	0	4	2	0	9	148
8:45 AM	0	0	0	0	0	36	0	0	0	0	0	36	0	0	2	0	0	16	2	2	0	0	0	11	0	0	1	3	0	11	0	0	3	0	0	7	130

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Peak I	Hou	r fo	r Ei	ntire	e Ini	ters	ecti	on l	Beg	jins	at	07:	30 <i>A</i>	٩M								16							56														
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07:45 AM	0	0	0	0	0	50	50	0	0	0	0	0	50	50	0	0	0	0	0	28	25	0	0	0	0	0	15	15	0	0	0	1	0	15	16	0	0	1	0	0	5	6	162
08:00 AM	0	0	0	0	0	45	45	0	0	0	0	0	45	45	0	0	1	0	0	12	13	0	1	0	0	0	24	25	0	0	0	0	1	24	25	0	0	0	1	0	10	11	164
08:15 AM	0	0	0	0	0	39	39	0	0	0	0	0	39	39	0	0	0	0	0	19	19	2	0	0	0	0	14	16	0	0	0	4	2	14	20	0	0	4	2	0	9	15	148
Total Volume	0	0	0	0	0	18	188	0	0	0	0	0	18	188	0	0	4	0	0	69	73	2	1	0	0	0	76	78	0	0	0	5	3	75	83	0	0	5	3	0	31	39	649
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Commonwealth Avenue (Route 30) EB /NSE: Washington Street/Carriage Road

City, State: Brighton, MA Client: HSH/ J. SanClemente P.O. Box 301 Berlin, MA 01503 Office: 508.481.3999 Fax: 508.545.1234 Email: datarequests@pdlllc.com

File Name: 112737 B2

Site Code : TBA

Start Date : 12/14/2011

Page No: 1

 59.4

**Groups Printed-Trains** Commonwealth Avenue Commonwealth Avenue Carriage Road Washington Street Carriage Road **MBTA Tracks** (Route 30) EB (Route 30) EB From Northeast From East From Southeast From West From North From South Start Left Right Thru Left Thru Left Right Time Right Thru Left Let int, Total 07:00 AM n 07:15 AM n 07:30 AM 07:45 AM Total 0 | 08:00 AM 08:15 AM n 08:30 AM 08:45 AM Total 0 | Grand Total Apprch % Total % 40.6 

(	_ C	(F	Route	ealth 30) Nor		nue				ge R North					shing Fron		Street st				,	ge Ro outhe			C	(F	onwe	30)		nue				Trac			
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Peak Hou	r An	alysi	Fro	m 07	:00 A	M to	08:4	5 AM	- Pe	ak 1 (	of 1								LOS	_	Ord.		-11	_	974	_	- FIT	-			_	93			_		100
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08:00 AM	0	3	0	0	0	3	0	0	0	0	0	0	0	0	0	Ó	Ō	ō	0	ō	ō	ō	õ	Õ	o	ñ	ñ	3	ñ	3	ŏ	ň	പ്	ñ	ň	0	6
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Total Volume	0	8	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	10	0	0	0	0	0	0	18
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Commonwealth Avenue (Route 30) EB

.../NSE: Washington Street/Carriage Road

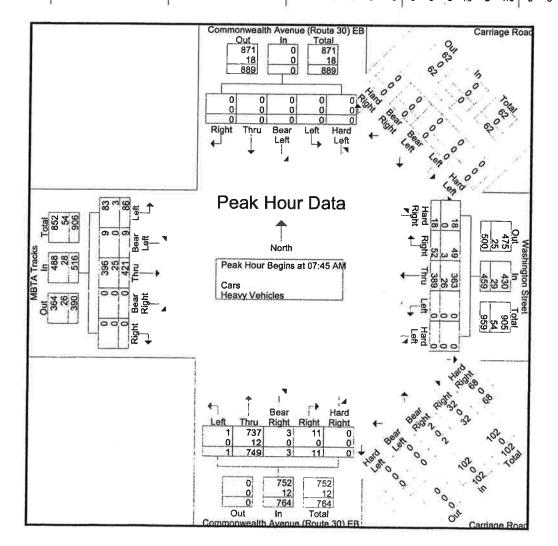
City, State: Brighton, MA Client: HSH/ J. SanClemente P.O. Box 301 Berlin, MA 01503 Office: 508.481.3999 Fax: 508.545.1234 Email: datarequests@pdillc.com

File Name: 112737 B2

Site Code : TBA

Start Date : 12/14/2011

	С	(1	nonw Route From	30)		nue			arria om N					Wa	shing Fron			t			arria om S				C		onw Route	30)	ΕВ	nue			IBTA From				
Start Time	Rig ht	Thr (d)	FLO FLO	Left	Her	App.	Har d Ali	Bean r Rii	Bos 7 Le	Left	Har d Lo	App. Total	Har d Ri	Rig H	Thr	Left	Himr d Le	App.	Har d RU	Rig	Ben r Rii	Bea rLe	Har d La	App. Total	Hear d Ri	Rig	Ben rRi	Thr	Left	App.	Rig	Ban r RI	Thr	Bea ri.e	Left	Арр	Int.
Peak Hou	r An	alysi	s Fro	m 07	:00 A	M to	08:45	AM	- Pe	ak 1 c	of 1		att.						- 274		ole.	-	5.		- 24		_6/4	-	_	104		67				Total	Total
Peak H	our	for	Enti	re Ir	nters	ectio	on B	eair	ns a	t 07	:45 /	M.																									
07:45 AM	0	0	0	0	0	0	0	ŏ	0	0	0	0	6	16	106	0	0	128	13	5	0	0	a	18	0	1	1	202	1	205	0	0		2	21	405	486
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	5	12	95	ō	ō	112	15	9	0	0	0	24	0	5	'n	184	'n	189	0	ñ	112	1	26	135 142	
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	2	14	95	0	0	111	22	12	1	0	ñ	35	٥	1	ň		0	178	0	0	115	_			467
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	5	10	93	0	0	108	18	6	i	o	n	25	'n	4	2	177	0	192	0	0	101	J	19	125	449
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	18	52	369	0	0	459	68	32	2	0	0	102	0	11	3	749	1	764	0	0	93	9	20 86	114 516	1841
N. App. Total	0	0	0	0	0		0	0	0	0	0		3.0	11.3	84.7	0	0		66.7	31.4	2	٥	0		0	1.4	0.4	98	0.1		0	0	81.6				
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Cars	0	0	0	0	0	0	0	0	0	0	0	0	18	49	363	0	0	430	68	32	2	0	0	102	0	11	3	737	1	752	0	0	398	9	83	908 488	.947
% Cars	0	0	0	0	0	0	0	0	0	0	0	0	100	94.2	93.3	0	ø	93.7	100	100	100	0	0	100	ō	100	100	98.4	100	98.4	0	Ö		-			1772
Heavy Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0	3	26	0	0	29	0	0	0	0	0	0	0	0	0	12	0	12	0	٥	94.1 25	100	96.5	94.6	96.3 69
% Heavy Vahictes	0	0	0	0	0	0	0	0	0	0	0	0	0	5.8	6.7	0	0	6.3	0	0	0	0	0	0	0	0	0	1.6	0	1.6	0	0	5.9	0	3.5	5.4	3.7





Commonwealth Avenue (Route 30) WB .../NSW: Washington St/Carriage Road

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0 25 83.3 0.6 2.2

22 581

0 3.6

20 112

0 2.6

City, State: Brighton, MA Client: HSH/ J. SanClemente

Cars

% Cars

P.O. Box 301 Berlin, MA 01503 Office: 508.481.3999 Fax: 508.545.1234 Email: datarequests@pdillc.com

File Name: 112737 BB1

Site Code : TBA

Start Date: 12/14/2011

Page No: 1

	Co			th Ave	enue			TA Tr			Coi	nmon (Rou			nue			age F			١		ngton		t		Car	riage F	Road		]
		Fr	om N	orth			, r	rom E	ast				m So				From	South	west			Fr	om We	est		1	Fron	n North	west		
Start Time	Hard Right	Right	Boer Right	Thru	Left	Right	Baar Right	Thru	Bear	Left	Right	Thru	Baar Left	Left	Herd	Hard	Beer Right	Boar Left	Left	Hard	Hard	Right	Thru	Left	Hard	Hard	Right	Bear Right	Boar	Hard Left	int. Total
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04:30 PM	0	0	5	122	42	0	6	74	0	17	0	0	0	0	0	0	0	0	0	0	2	5	99	Ō	ō	3	7	ó	ó	ñ	382
04:45 PM	0	_1_	_ 0	117	35	0	3	76	2	16	0	0	0	0	0	0	0	0	0	0	1	9	94	Ō	0	8	1	ō	2	o	365
Total	0	5	5	474	149	0	16	281	6	59	0	0	0	0	0	0	0	0	0	0	14	20	378	0	0	31	15	1	3	0	1457
05:00 PM	0	1	0	156	39	0	1	79	4	12	0	0	0	0	0	0	0	0	0	0	3	6	103	0	1	В	2	0	1	0	416
05:15 PM	0	0	1	168	40	0	1	83	3	18	0	0	0	0	0	0	0	0	0	0	2	7	116	0	1	9	5	Õ	ò	ő	454
05:30 PM	0	0	0	160	48	0	3	82	2	13	0	0	0	0	0	0	0	0	0	0	2	12	106	Ō	ò	9	10	1	1	o l	449
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Total	0	3	1	626	168	0	6	322	14	56	0	0	0	0	0	0	0	0	0	0	8	31	430	0	2	39	22	1	2	0	1731
Grand Total	0	8	6	1100	317	0	22	603	20	115	0	0	0	0	0	0	0	0	0	0	22	51	808	0	2	70	37	2	5	οl	3188
Apprch %	-	0.6	0.4	76.9	22.2	0	2.9	79.3	2.6	15.1	0	0	0	0	0	0	0	0	0	0	2.5	5.8	91.5	0	0.2	61.4	32.5	1.8	4.4	ō	
Total %	0	0.3	0.2	34.5	9.9	0	0.7	18.9	0.6	3.6	0	0	0	0	0	0	0	0	0	0	0.7	1.6	25.3	0	0.1	2.2	1.2		0.2	0	

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	С		loute	ealth 30) No	WB	nue		٨	/BTA				С	(R	onwo coute	30)	WB	nue			arriaç ım Sı		oad west				shing From			t				ge Ro	oad west		
Start Time	Har d RI oht	RUg Hr	Fee r Ri	Thr	Left	App. Total	Rig M	r Ri	Thr	Bea rLe	Left	App. Total	Rig ht	Thr	Ben r Le	Left	Har d Le	App Yotal	Har d Ri	Bea rRi	Bea r Le	Left	Her d Le	App.	Har a Ri	Rig	The	Left	Her d Le	App.	Har d RI	Rig M.	Bon r Ri	8mm rte	Her d Le	App.	lint. Total
Peak Hou	r Ana	alysis	Fro	m 04	:00 F	M to	5:45	PM	- Pea	ak 1	of 1									- 24			- 8.1	_	- gre	-		-	-		L STR		ght.				
Peak Ho	our	for I	Enti	re Ir	nters	sectio	n B	egir	ns a	t 05	:00 1	PM .																									
05:00 PM	0	1	0	156	39	196	0	1	79	4	12	96	0	0	0	0	0	0	0	0	0	0	0	0	3	6	103	0	1	113	8	2	0	1	0	11	416
05:15 PM	0	0	1	168	40	209	0	1	83	3	18	105	0	0	0	0	0	0	0	0	0	0	0	0	2	7	118	0	1	126	9	5	ñ	ń	ñ	14	454
05:30 PM	0	0	0	160	48	208	0	3	82	2	13	100	0	0	0	0	0	0	0	0	0	0	0	0	2	12	100	ō	ń	120	9	10	1	1	ň	21	449
05:45 PM	0	2	0	142	41	185	0	1	78	5	13	97	0	0	0	0	0	0	0	0	ō	ō	0	0	1	6	105	n	n	112	13	5	'n	'n	'n	: 1	412
Total Volume	0	3	1	626	168	798	0	6	322	14	56	398	0	0	0	0	0	0	0	0	0	0	0	0	8	31	430	0	2	471	39	22	1	2	0	64	1731
N. App. Total	0	0.4	0.1	78.4	21,1		٥	1.5	80.9	3.5	14.1_		0	٥		0	0		٥	0	0	0	0		1.7	6.6	91.3	٥	0.4		۵.	24.4	16	3.1	0		
PHF	.000	375	250	912	576	.955	.000	500	870	700	278	948	.000	.000	000	000	.000	.000	.000	000	000	000	000	.000	667	848	927	000	500	935		550	250		.000	.762	.953
Cars	0	3	1	625	164	793	0	6	309	14	54	383	0	0	0	0	0	0	0	0	0	0	0	0	8	31	422	0	2	463	39	20	1	2	Δ.		1701
% Cars	0	100	100	8.89	97.6	99.4	0	100	96.0	100	96.4	96.2	0	0	0	0	0	0	0	0	0	Õ	ō	ō	100	100	98.1	٥	100	98.3	100	90.9	100	100	0	96.9	98.3
Heavy Vehicles	0	0	0	1	4	5	0	0	13	0	2	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	8	0	2	0	0	0	2	30
% Heavy Vehicles	0	0	0	0.2	2.4	0.6	0	0	4.0	0	3.6	3.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.8	0	0	1.7	0	9.1	0	0	0	3.1	1.7



Commonwealth Avenue (Route 30) WB
.../NSW: Washington St/Carriage Road
City, State: Brighton, MA
Client: HSH/ J. SanClemente

P.O. Box 301 Berlin, MA 01503 Office: 508.481.3999 Fax: 508.545.1234 Email: datarequests@pdillc.com

File Name: 112737 BB1

Site Code : TBA

Start Date : 12/14/2011

Page No : 1

**Groups Printed- Cars** 

	Co	(Ro	wealt ite 30 om No		eune			TA Tra			Co	mmon (Rou Fro		h Avei WB	nue			age F South			١	Vashi Fr	ngton om W		t			iage F North			
Start Time	Hard Right	Alghi	Beer Right	Thru	Left	Right	Beer Right	Thru	Beer Left	Left	Right	Thru	Beer Left	Left	Herd	Herd Right	Bear Right	Beer Left	Left	Hard Left	Hard Right	Right	Thru	Left	Hard Left	Hard Right	Rìght	Bear Right	Bear Left	Hard	Int. Total
04:00 PM	0	1	0	118	34	0	6	62	2	12	0	0	0	0	0	0	0	0	0	0	5	2	87	0	0	10	3	0	0	0	342
04:15 PM	0	1	0	113	37	0	1	65	2	13	0	0	0	0	0	0	0	0	0	0	6	4	93	0	0	7	4	1	1	ŏ	348
04:30 PM	0	0	0	121	41	0	6	73	0	17	0	0	0	0	0	0	0	0	0	0	2	5	99	Õ	0	3	7	ò	Ó	õ	374
04:45 PM	0	_1	0	116	34	0	3	72	2	16	0	0	0	0	0	0	0	0	0	0	1	9	92	0	0	8	1	ō	2	ŏ	357
Total	0	3	0	468	148	0	16	272	6	58	0	0	0	0	0	0	0	0	0	0	14	20	371	0	0	28	15	1	3	0	1421
05:00 PM	0	1	0	155	38	0	1	75	4	12	0	0	0	0	0	0	0	0	0	0	3	6	101	0	-11	8	2	0	1	0	408
05:15 PM	0	0	1	168	39	0	1	79	3	17	0	0	0	0	0	0	0	0	0	0	2	7	113	0	- 1	9	4	0	0	ō	444
05:30 PM	0	0	0	160	47	0	3	80	2	13	0	0	0	0	0	0	0	0	0	0	2	12	105	0	0	9	9	1	1	ō	444
05:45 PM	0	2	0	142	40	0	1	75	5	12	0	0	0	0	0	0	0	0	0	0	1	6	103	0	0	13	5	0	0	0	405
Total	0	3	1	625	164	0	6	309	14	54	0	0	0	0	0	0	0	0	0	0	8	31	422	0	2	39	20	1	2	0	1701
Grand Total	0	6	1	1093	310	0	22	581	20	112	0	0	0	0	0	0	0	0	0	0	22	51	793	0	2	67	35	2	5	οl	3122
Apprch %	0	0.4	0.1	77.5	22	0	3	79	2.7	15.2	0	0	0	0	0	0	0	0	0	0	2.5	5.9	91.4	0	0.2	61.5	32.1	1.8	4.6	o l	
Total %	0	0.2	0	35	9.9	0	0.7	18.6	0.6	3.6	0	0	0	0	0	0	0	0	0	0	0.7	1.6	25.4	0	- 1	2.1			0.2	0	

	Co	(R	oute	ealth 30) No		nue				Tra n Ea			C	(F	onwi loute From	30)		nue				ge Ro outh					shing From			t			arriaç				
Start Time	Her d RI ght	Filg Hi	r FU ghá	Thr	Left	App. Total	Rig H	r RI	Thr	Bea r La	Left	App. Total	Rlg H	Thr	Ben rLe	Left	Har d Le	App.	Her d RI	Bea r FU	Bea rLe	Left	Her d La	App.	Har d Ri	FUg Hi	Thr	Left	Her d Le	App. Total	Her d Ri	Rig fri	Bee / Ri	Bee rLe	Her d Lu	App.	(nl. Total
Peak Hou	r Ana	alysis	Fro	m 04	:00 F	M to	05:45	PM	- Pea	ak 1	of 1																		- 1		- 0/9	-		-			
Peak Ho	our	for E	≘nti	re Ir	nters	ectio	n B	egir	ns a	t 05	:00	PM .																									
05:00 PM	0	1	0	155	38	194	0	1	75	4	12	92	0	0	0	0	0	0	0	0	0	0	0	0	3	6	101	0	1	111	8	2	0	1	0	11	408
05:15 PM	0	0	1	168	39	208	0	1	79	3	17	100	0	0	0	0	0	0	0	0	0	0	0	0	2	7	113	0	1	123	9	4	0	Ō	ō	13	444
05:30 PM	0	0	0	160	47	207	0	3	80	2	13	98	0	C	0	0	0	0	0	0	0	0	0	0	2	12	105	0	0	119	9	9	1	1	Ō	20	444
05:45 PM	0_	2	0	142	40	184	0	1	75	5	12	93	0	0	0	0	0	0	0	0	0	0	0	0	_1_	6	103	0	0	110	13	5	0	0	0	18	405
Total Volume	0	3	1	625	184	793	0	6	309	14	54	383	0	0	0	0	0	0	0	0	0	0	0	0	8	31	422	0	2	463	39	20	1	2	0	62	1701
% App. Total	0	0.4	0.1	78.8	20.7		0	1.6	80.7	3,7	14.1		0	0	0	0	0		0	٥		0	0		1.7	6.7	91.1	0	0.4		62.9	32.3	1.8	3.2	0		
PHF	000	575	250	.930	872	.953	.000	500	966	.700	794	.958	800	.000	,000	.000	.000	.000	.000	.000	000	.000	000	.000	667	648	934	.000	500	.941	750	556	250			.775	958



Commonwealth Avenue (Route 30) WB
NSW: Washington St/Carriage Road

City, State: Brighton, MA Client: HSH/ J. SanClemente

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3 7.6 10.6

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Apprch %

Total %

P.O. Box 301 Berlin, MA 01503 Office: 508.481.3999 Fax: 508.545.1234 Email: datarequests@pdillc.com File Name: 112737 BB1

Site Code: TBA

Start Date : 12/14/2011

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Page No: 1

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,													Grou	ps Pri	nted-	Heavy	/ Vehi	cles													
	Co	(Rou	wealth te 30) om No	WB	nue			TA Tra			Coi	(Rou	wealt ite 30 im So		nue			iage F Souti	Road hwest		٧		ngton om We		t			iage R North			1
Start Time	Hard Flight	Right	Beer Right	Thru	Left	Right	Beer Right	Thru	Bear Lett	Left	Right	Thru	Bear	Left	Hard	Hard Binha	Bear Right	Boar Left	Left	Hard	Hard	Right	Thru	Left	Hard Left	Hard Rinh	Right	Bear Right	Bear	Hard	int. Total
04:00 PM	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	1	0	0	0	0	7
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Total	0	2	5	6	3	0	0	9	0	1	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	3	0	0	0	0	36
05:00 PM	0	0	0	1	1	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	٥١	0	0	0	0	o l	8
05:15 PM	0	0	0	0	1	0	0	4	0	1	0	0	0	0	0	0	0	0	0	0	0	0	3	ō	ō	Õ	1	õ	ñ	ő	10
05:30 PM	0	0	0	0	1	0	0	2	0	0	0	0	0	0	0	0	0	Ō	ō	ŏ	ŏ	ō	1	ñ	ő	ñ	i	ñ	ñ	0	5
05:45 PM	0	0	0	0	1	0	0	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	n	0	Õ	0	ő	7
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	Co	(R	onwe oute From	30)		nue				Trac			С	(F	onw Route From	30)		nue				ge Ro	oad west				shing From		Street st					je Ro orthw			
Start Time	Har d Ri	Rig M	Pon rRI ght	Thr	Left	App. Total	М	r RL abt	Thr	Bon r Le	Left	App.	Rig Hi	Thr	Ben	Left	Har d La	App.	Har d Rt	Bee rRI	Bea r Le	Left	Her d Le	App.	Har d Ri	Rig	Thr	Left	Har d Le	App.	Har d Ri	Rig HL	Bas r FU	Boe	Har dLe	App. Total	int. Total
eak Hou	Ana	lysis	From	n 04	:00 P	M to	05:45	5 PM	- Pea	ak 1 c	of 1					-			100	1 000					obl	_			-		oht		- 64	_ 4.1		-	
eak H	our	for E	Entir	e In	ters	ecti	on E	Begir	ns a	t 04:	15 F	M																									
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04:30 PM	0	0	5	1	1	7	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	ō	ō	ō	Õ	ō	n	ñ	0	ō	ŏ	ñ	ñ	ñ	ñ	8
04:45 PM	0	0	0	1	1	2	0	0	4	0	0	4	0	0	0	0	0	0	0	0	0	Ω	ō	ō	n	ň	ž	ñ	ñ	2	ő	ñ	ñ	ň	ň	0	8
05:00 PM	0	0	0	1	1	2	0	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	ñ	n	0	0	0	8
Total Volume	0	2	5	6	3	16	0	0	12	0	1	13	0	0	0	0	0	. 0	0	0	0	0	0	0	0	0	6	0	0	6	2	0	0	0	0	2	37
N. App., Total		12.5	31.2	37.5	18.8			0	92.3	D	7.7																100				100						
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Commonwealth Avenue (Route 30) WB ... / NSW: Washington St/Carriage Road

City, State: Brighton, MA Client: HSH/ J. SanClemente P.O. Box 301 Berlin, MA 01503 Office: 508.481.3999 Fax: 508.545.1234 Email: datarequests@pdillc.com File Name: 112737 BB1

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	C		oute	alth . 30) v Nort	٧B	านอ				Trac Eas			Co	(R	oute	alth / 30) V Sout	٧B	ue			rriag m So						hingt From							e Ro orthw			
Start Time	Har d Ri	Righ	Penn r Ri oht	Thr	Left	Ped	Righ	Pee rRi	Thr	Bea r Lef	Left	Ped s	Righ 1	The u	Bee rLef	Left	Her dia	Ped	Har d RI	Bea r Ri	Bea rLef	Left	Har d Le	Pad s	Hear o RU	Righ 1	Thr	Left	Har d Le	Ped	Har d Ri	Fligh II	Bee r Ri	Bea r Lef	d Le	Ped	Int. Total
04:00 PM 04:15 PM	0	0	0	0	0	32	0	0	0	0	0	2	0	0	0	0	0	23	0	0	0	0	0	23	0	0	1	0	0	11	0	0	0	0	0	32	124
04:30 PM	0	0	0	0	0	27	0	0	0	0	0	2	0	0	0	0	0	12	0	0	0	0	0	12	0	0	1	0	0	1	0	0	0	1	0	27	83
Total	0	0	0	1	0	145	0	0	4	0	0	5	0	0	0	0	0	52	0	0	0	0	0	52	0	0	4	0	1	34	0	2	0	1	0	145	446
05:00 PM 05:15 PM	0	0	0	1	0	57	0	0	0	1	0	0	0	0	0	0	0	20	0	0	0	0	0	20	0	0	1	0	0	4	0	0	0	0	0	57	161
05:30 PM 05:45 PM	0	0	0	1	0	51	0	0	1	0	0	4	0	0	0	0	0	18	0	0	0	0	0	18	0	0	2	0	0	17	0	1	0	0	0	51	164
Total	0	0	0	2	0	200																		1												200	623
Grend Total Approh % Total %	0 0	0 0	0	3 0.9 0.3	0 0 0	345 99.1 32.9	0 0 0	_		1 5.9 0.1	_	10 58.8 0.9	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	138 100 12.7	0	0 0 0	0 0 0	0 0 0	0 0 0	136 100 12.7	0 0 0	0 0 0	9.8 0.7	0 0 0	1 1.2 0.1	73 89 6.8	1 0.3 0.1	3 0.9 0.3		1 0,3 0,1	0 0 0	345 98.8 32.3	1069

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Start Time	Ha rd Ri	RI ght	Be ar Ri ght	Th ru	Lef	Pe de	App. Tola	FU ght	Be ar Ri	Th ru	Be ar Lef	Lef t	Pe de	App. Tola	Ri ght	Th ru	Be ar Lot	Lef	Ha rd Lef	Po de	App. Tola	He rd RJ	Be er Ri	Ber ar Lef	Lar	Ha rd Lef	Pe da	App. Tota	He rd Ri	Ri ght	Th ru	Lef it	Ha rd Lef	Pe da	App. Tota	Han rd Ri	IN PH	Be ar Ri	Be er Lef	Hin rd Lef	Pe ds	App. Tota	int. Tota
Peak Ho	ur A	naly	sis I	Fron	1 04	:00 F	PM to	05:4	15 P	M - F	eak	10	f1						-						-	-	_		U.S.	_					-	1 03	_	L. ght		_4			
Peak ∤	lou	r fo	r E	ntir	e In	iters	secti	ion	Beg	ins	at	05:	00 F	PM:																													
05:00 PM	0	0	0	0	0	39	39	0	0	1	0	0	0	1	0	0	0	0	0	26	26	0	0	0	0	0	26	26	0	0	1	0	0	5	6	0	0	0	0	0	30	39	137
05:15 PM	0	0	0	1	0	57	58	0	0	0	1	0	0	1	0	0	0	0	0	20	20	0	0	0	0	0	20	20	0	0	1	Ō	Ō	4	5	Ŏ	ō	ŏ	Õ	Ö	57	57	161
05:30 PM	0	0	0	0	0	53	53	0	0	0	0	0	1	1	0	0	0	0	0	20	20	0	0	0	0	0	20	20	0	0	0	0	0	13	13	1	Õ	Ō	ō	ō	53	54	161
05:45 PM	0	0	0	1	0	51	52	0	0	1	0	0	4	5	0	0	0	0	0	18	18	0	0	0	0	0	18	18	0	0	2	0	0	17	19	0	1	0	0	0	51	52	164
Total Volume	0	0	0	2	0	20 0	202	0	0	2	1	0	5	8	0	0	0	0	0	84	84	0	0	0	0	0	84	84	0	0	4	0	0	39	43	1	1	0	0	0	20	202	623
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PHF	.00	00	00	.50	.00	.87	871	00	.00	50	.25	00	31	400	.00	.00	00	00	.00	.80	808	.00	.00	.00	.00	.00	80	806	.00	00	,50	.00	.00	57	SAR	.25	.25	.00	.00	00	67	000	DEO



Commonwealth Avenue (Route 30) WB .../NSW: Washington St/Carriage Road

City, State: Brighton, MA Client: HSH/ J. SanClemente P.O.Box 301 Berlin, MA 01503 Office: 508.481.3999 Fax: 508.545.1234 Email: datarequests@pdllic.com File Name: 112737 BB1

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Groups Printed- Trains

	Co	•	wealth te 30) m No	WB	nue			TA Tra			Co		wealth te 30) m Sou	WB	nue		Carri From	age F South			٧		ngton om W		t			age R North			
Start Time	Hard Right	Right	Bear Right	Thru	Left	Right	Beer Right	Thru	Beer Left	Left	Right	Thru	Bear Left	Left	Hard	Hard Right	Sear Right	Bear	Left	Hard	Hard Right	Right	Thru	Left	Hard Left	Hard Right	Right	Bear	Bear Left	Hard	int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Õ	Ō	ō	ō	Ŏ	ō	õ	ñ	ŏ
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Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Ō	ŏ	ō
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ō	ō
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Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	οĬ	0
Approh %   Total %	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Ó	0	0	0	0	0	0	0	0	0	0	Ō	ō	

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Start Time	Har d Ri	Rig ht	Bed IPI Ida	Thr	Left	App.	Rig Nt	Ren r Ri	Thr u	Bes r Le	Left	App.	Rig Ht	Thr	Bes rLe	Left	Har d Le	App.	d RI	Bes r Ri	See rLe	Left	Her d Le	App. Total	Har d Ri	Alig Ht	Thr	Left	Har dLe	App.	Har d RJ	Rig M	- 1	Bee rLs	dia I	App.	Int.
eak Hou	Ana	alysis	Fro	n 04:	:00 PI	M to C	5:45	PM	- Pea	k 1 c	of 1												- " -		Dre I	_			- 4.1		649		oh I	-		-	
Peak H	our	for E	≣ntir	e In	ters	ectio	n B	egir	ns at	t 04:	00 P	M.																									
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	٥l	0	0	0	0	0	- 0	0	O	n	n	O	nl	0
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Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Yolul	0	0	0	0	0		0	0	0	0	0		0	0	0	0	0		0	0	0	0	0		0	0	0	0	0		0	0	0	n	0		
PHF						000																				_						_	Ť		<u> </u>	-	-



Commonwealth Avenue (Route 30) WB ..., NSW: Washington St/Carriage Road

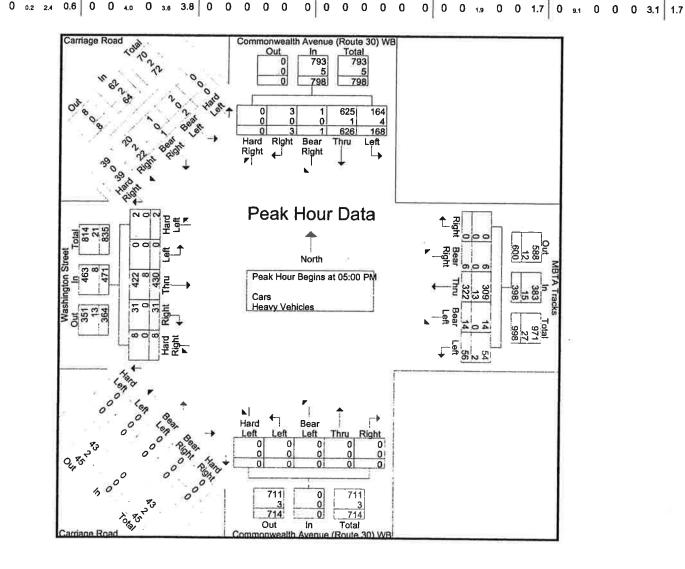
City, State: Brighton, MA Client: HSH/ J. SanClemente P.O. Box 301 Berlin, MA 01503 Office: 508.481.3999 Fax: 508.545.1234 Email: datarequests@pdillc.com File Name: 112737 BB1

Site Code : TBA

Start Date : 12/14/2011

Page No : 1

	С		Route			nue		N	ABTA Fror	Tra n Ea			С	(F	oute	ealth 30) Sou	WB	nue				ge R South					shing From			t			arriag				
Start Time	Her d Ri	Rig ht	r Fil	The u	Left	App. Total	Rig ht	Pee r Ri	The	Bes rte	Leff	App.	Rig M	The	Bea r Le	Left	Har dLe	App. Total	Har d Ri	Bea r Ri	Bed rLe	Left	Har d Le	App. Total	Her d RI	Rig	Thr	Left	Har d Le	App.	Har d RJ	Rig Hi	6an rRi	Bee r Le	Har d Le	App.	Int. Total
Peak Hou	ır An	alysi	s Fro	m 04	:00 F	M to	05:45	PM	- Pea	k 1	of 1				_				1 04	1 65	- 4	_	-	-	-	-					674		- pht	-	- 4		-
Peak H	our	for	Enti	re li	nters	section	on B	egir	ns a	t 05	:00	PM .																							Ġ.		
05:00 PM	0	1	0	156	39	196	0	1	79	4	12	96	0	0	0	0	0	0	0	0	0	0	0	0	3	6	103	0	1	113	8	2	٥	1	0	11	416
05:15 PM	0	0	1	168	40	209	0	1	83	3	18	105	0	0	0	0	0	0	0	0	0	0	0	0	2	7	118	ō	1	126	9	5	ō	ò	ñ	14	454
05:30 PM	0	0	0	160	48	208	0	3	82	2	13	100	0	0	0	0	0	0	0	0	0	0	0	0	2	12	106	ō	ò	120	9	10	1	1	ñ	21	449
05:45 PM	0	2	0	142	41	185	0	1	78	5	13	97	0	0	0	0	0	0	0	0	0	0	0	0	1	6	105	0	0	112	13	5	Ö	ò	o	18	412
Total Volume	0	3	1	626	168	798	0	6	322	14	56	398	0	0	0	0	0	0	0	0	0	0	0	0	8	31	430	0	2	471	39	22	1	2	0	64	1731
% App. Total	_0_	0.4	0.1	78.4	21.1		٥	1,5	80.0	3.5	14.1		0	0	0	0	0			0	0	0	0		1.7	6.6	91.3	0	0.4		80.9	34.4	1.6	3.1	0		
PHF	.000	375	250	.532	.875	.955	,000	500	970	700	.778	.948	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	_000	.000	.667	.646	927	.000	500	935			260			762	.953
Cars	0	3	1	625	164	793	0	6	309	14	54	383	0	0	0	0	0	0	0	0	0	0	0	0	8	31	422	0	2	463	39	20	1	2	0	62	1701
% Cars	0	100	100	99.8	97.6	99.4	0	100	96.0	100	96.4	96.2	0	0	0	0	0	0	0	0	0	0	0	0	100	100	98.1	0	100	98.3	100	90.0	100	100	0	96.9	98.3
Heavy Vehicles	0	0	0	1	4	5	0	0	13	0	2	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	8	0	2	0	0	0	2	30
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Commonwealth Avenue (Route 30) EB ..., NSE: Washington Street/Carriage Road

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0 2.9 3.2

City, State: Brighton, MA Client: HSH/ J. SanClemente

Cars

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% Cars

P.O. Box 301 Berlin, MA 01503 Office: 508.481.3999 Fax: 508.545.1234 Email: datarequests@pdillc.com File Name: 112737 BB2

Site Code : TBA

Start Date : 12/14/2011

Page No: 1

												Gr	oups	Printed	- Ca	rs - H	eavy \	Vehicle	s												
	Co	(Rot	wealth ute 30) om No	EB	านอ			iage F Nortl			,	<b>Nashi</b>		Stree	-		Car	riage f 1 Sout	Road		Co		wealt	) EB	enue			TA Tra			
Start Time	Right	Thru	Beer Left	Left	Hard Left	Hard Right	Beer Right	Bear Left	Left	Hard	Hard	Right	Thru	Left	Hard	Hard Right	Right	Bear Rinks	Bear (=2	Hard Left	Hard	Right	Beer Flight	Thru	Left	Right	Bear Right	Thru	Bear	Left	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0	5	7	79	0	0	13	6	0	0	0	0	10	0	74	0	0	0	99	5	18	316
04:15 PM	0	0	0	0	0	0	0	0	0	0	11	6	82	0	0	8	3	0	0	0	0	2	1	101	0	0	0	107	2	16	339
04:30 PM	0	0	0	0	0	0	0	0	0	0	5	10	93	0	0	14	3	0	0	0	0	2	1	97	1	0	0	119	4	16	365
04:45 PM	0	0	0	0	0	0	0	0	0	0	6	8	95	0	0	8	3	0	_1_	0	0	4	3	96	_ 1	0	0	112	3	17	357
Total	0	0	0	0	0	0	0	0	0	0	27	31	349	0	0	43	15	0	1	0	0	18	5	368	2	0	0	437	14	67	1377
05:00 PM	0	0	0	0	0	0	0	0	0	0	1	13	95	0	0	13	3	1	0	0	0	8	1	80	0	0	0	121	1	16	353
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	6	102	0	0	16	1	2	0	0	0	8	1	94	1.	0	0	135	3	13	382
05:30 PM	0	0	0	0	0	0	0	0	0	0	3	13	98	0	0	17	3	1	0	0	0	10	0	96	0	0	0	129	6	14	390
05:45 PM	0	0	0	0	0	0	_0	0	0	0	4	7	101	0	0	22	13	0	1	0	0	7	4	101	0	0	0	122	5	18	405
Total	0	0	0	0	0	0	0	0	0	0	8	39	396	0	0	68	20	4	1	0	0	33	6	371	1	0	0	507	15	61	1530
Grand Total	0	0	0	0	0	0	0	0	0	0	35	70	745	0	0	111	35	4	2	0	0	51	11	739	3	0	0	944	29	128	2907
Apprch %	0	. 0	0	0	0	0	0	0	0	0	4.1	8.2	87.6	0	0	73	23	2.6	1.3	0	0	6.3	1.4	91.9	0.4	0	0	85.7	2.6	11,8	
Total %	0	0	0	0	0	0	0	0	0	0	1.2	2.4	25.6	0	0	3.8	1.2	0.1	0.1	0	0	1.8	0.4	25.4	0.1	0	0	32.5	1	4.4	

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62

	C		loute	ealth 30) Nor	ΕB	nue				ge R				Wa	shing Fron			t				ge Ro South			C		coute	ealth 30) Sou	EB	nue			BTA From				
Start Time	Rlo	Thr u	Bee rLe	Left	Har d Le	App.	Her d RI obs	Bea rRU	f Le	Left	Her d Le	App. Total	Har d FU	Rig ht	Thr	Left	Her dla	App.	Har d RJ	Rig Hi	Bea rRI	Bea rLe	Har d Le	App Total	Har d Ri	Rig	Bea rRi	Thr	Left	App.	Rig M	Beng r Ri	Thr	Bos	Left	App.	int.
eak Hou													-							2			-		em		014		_			old.	_	-	_		
eak H	our	for E	Entii	re In	ters	ectio	on E	Begii	ns a	t 05:	:00 F	РМ .																									
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	13	95	0	0	109	13	3	1	0	0	17	0	8	1	80	0	89	0	0	121	1	16	138	353
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	6	102	0	0	108	16	1	2	0	0	19	0	8	1	94	1	104	0	0	135	3	13	151	382
05:30 PM	0	0	0	0	0	0	0	. 0	0	0	0	0	3	13	98	0	0	114	17	3	1	0	0	21	0	10	0	96	0	106	0	0	129	6	14	149	390
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	4	7	101	0	0	112	22	13	0	1	0	36	0	7	4	101	0	112	0	0	122	5	18	145	405
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	8	39	396	0	0	443	68	20	4	1	0	93	0	33	6	371	1	411	0	0	507	15	61	583	1530
N. App. Total	0	0	0	0	0	(	0	_0	0	0	0		1.8	8.8	89.4	0	0		73.1	21.5	4.3	1.1	0		0	8	1,5	90.3	0.2		0	0	87	2.6	10.5		
PHP	000	oto	000	000	000	.000	.000	.000	000	000	.000	.000	500	750	971	.000	,000	.971	773	385	500	250	000	.646	.000	825	375	918	250	.917	000	.000	220	-		.965	944
Cars	0	0	0	0	0	0	0	0	0	0	0	0	8	37	381	0	0	426	68	19	2	1	0	90	0	32	6	367	1	406	0	0	496	15	60	571	1493
% Cars	0	0	0	0	0	0	0	0	0	0	0	0	100	94.9	96.2	0	0	96.2	100	95.0	50.0	100	0	96.8	0	97.0	100	98,9	100	98.8	0	0	97.6	100	98,4	97.9	97.6
Heavy Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0	2	15	0	0	17	0	1	2	0	0	3	0	1	0	4	0	5	0	0	11	0	1	12	37
% Heavy Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0	5,1	3,8	0	0	3.8	0	5.0	50.0	0	0	3.2	0	3.0	0	1.1	0	1.2	0	0	2.2	0	1.6	2.1	2.4



Commonwealth Avenue (Route 30) EB .../NSE: Washington Street/Carriage Road

City, State: Brighton, MA
Client: HSH/I SanClemente

P.O. Box 301 Berlin, MA 01503 Office: 508.481.3999 Fax: 508.545.1234 Email: datarequests@pdillc.com File Name: 112737 BB2

Site Code : TBA

Start Date : 12/14/2011

Page No: 1

Chent: H2H/	J. SanClemente	

	_									_				Group	os Pri	nted-	Cars														
	Co		wealth te 30) m No	EB	nue		Carri From		Road heast		'		ngton om E	Stree ast	t			iage l Sout	Road heast		Co	(Ro	wealt ute 30 m Sc		nue			TA Tra			
Start Time	Right	Thru	Bowr Left	Left	Hard Left	Hard Right	Beer Right	Bear	Left	Hard	Hard Right	Right	Thru	Left	Hard Lut	Hard Right	Right	Bear Right	Beer Left	Hard	Hard Right	Right	Boar Right	Thru	Left	Right	Beer Right	Thru	Bagr	Left	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0	5	7	78	0	0	13	4	0	0	0	0	10	0	73	0	0	0	95	5	18	308
04:15 PM	0	0	0	0	0	0	0	0	0	0	11	6	79	0	0	8	3	0	0	0	0	0	1	100	0	Ó	0	105	2	16	331
04:30 PM	0	0	0	0	0	0	0	0	0	0	5	10	92	0	0	14	3	0	0	0	0	2	1	97	1	0	Ō	118	4	16	363
04:45 PM	0	0	0	0	0	0	0	0	0	0	6	8	91	0	0	8	3	0	_1	0	0	4	3	96	1	0	0	109	3	17	350
Total	0	0	0	0	0	0	0	0	0	0	27	31	340	0	0	43	13	0	1	0	0	16	5	366	2	0	0	427	14	67	1352
05:00 PM	0	0	0	0	0	0	0	0	0	0	1	12	91	0	0	13	2	0	0	0	0	8	1	78	0	0	0	118	1	16	341
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	6	97	0	0	16	1	2	0	0	0	7	1	93	1	0	0	131	3	13	371
05:30 PM	0	0	0	0	0	0	0	0	0	0	3	13	96	0	0	17	3	0	0	0	0	10	0	96	0	0	0	128	6	13	385
05:45 PM	0	0	0	0	0	0	0	0	0	0	4	6	97	0	0	22	13	0	1	0	0	7	4	100	0	0	0	119	5	18	396
Total	0	0	0	0	0	0	0	0	0	0	8	37	381	0	0	68	19	2	1	0	0	32	6	367	1	0	0	496	15	60	1493
Grand Total	0	0	0	0	0	0	0	0	0	0	35	68	721	0	0	111	32	2	2	0	0	48	11	733	3	0	0	923	29	127	2845
Apprch %	0	0	0	0	0	0	0	0	0	0	4.2	8.3	87.5	0	0	75.5	21.8	1.4	1.4	0	0	6	1.4	92.2	0.4	0	0	85.5	2.7	11.8	
Total %	0	0	0	0	0	0	0	0	0	0	1.2	2.4	25.3	0	0	3.9	1.1	0.1	0.1	0	0	1.7	0.4	25.8	0.1	0	0	32.4	1	4.5	

	C	(F	loute	ealth 30) Nort		nue			arriaç om N	_				Wa	_	ton S		t				ge Ro			C	(F	loute	alth 30) Sou		nue				Trac			
Start Time	Rig M	Thr	See rLe	Left	Har d Lu	App. Total	Her d Ri	r FU	Bas rLe		Har d Le	App. Total	Har d RU oN	Rig M	Thr	Loft	Har d Le	App. Total	Her d FU ght	Flig M	Bee rRI gHt	Ben rLu	Har d Le	App.	Har d RI	Rig HL	Boo r RU pM	Thr	Left	App. Total	Rig M	Bea r Ri ght	Thν	Beg rLe	Left	App. Total	int. Total
Peak Hou	Ana	alysis	From	n 04:	:00 PI	M to 0	05:45	PM	- Pea	k 1 c	of 1																										
Peak Ho	OUF!	for E	Entir	e In	ters	ectic	n B	egir	is at	05:	00 F	M																									
05:00 PM	0	0	0	0	0	0	0	ō	0	0	0	0	1	12	91	0	0	104	13	2	0	0	0	15	0	8	1	78	0	87	0	0	118	1	16	135	341
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	6	97	0	0	103	16	1	2	0	0	19	0	7	1	93	1	102	0	0	131	3	13	147	371
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	3	13	96	0	0	112	17	3	0	0	0	20	٥	10	0	96	0	106	0	0	128	6	13	147	385
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	4	6	97	0	0	107	22	13	0	1	0	36	0	7	4	100	0	111	0	0	119	5	18	142	396
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	8	37	381	0	0	426	68	19	2	1	0	90	0	32	6	367	1	406	0	0	496	15	60	571	1493
N App. Total	0	0	0	0	0		0	0	0	0	0		1.9	8.7	89.4	0	0		75.6	21.1	2.2	1.1	0		0	7.9	1.5	90.4	0.2		0	0	86.9	2.6	10.5	- 1	
PHF	000	000	.000	000	.000	.000	000	.000	000	900	.000	.000	500	.712	942	000	.000	.951	773	385	250	250	.000	.625	.000	900	375	010	260	914	000	000			A33	971	943



Commonwealth Avenue (Route 30) EB ..., NSE: Washington Street/Carriage Road

P.O. Box 301 Berlin, MA 01503 Office: 508.481.3999 Fax: 508.545.1234 Email: datarequests@pdillc.com

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City, State: Brighton, MA Client: HSH/ J. SanClemente

													Grou	ps Pri	nted-	Heav	y Vehi	cles													
	Co		wealt ite 30 im No	) EB	nue		Carri From				1		ngton om Ea	Stree				iage R South			Coi	mmon (Rou Fro		) EB	nue			TA Tra			
Start Time	Right	Thru	Bear Left	Left	Hard	Hard Right	Bear Right	Bear Let	Left	Hard	Hard Dight	Right	Thru	Left	Herd Left	Herd Right	Right	Bear Right	Bear Left	Herd	Hard Right	Right	Bear Right	Thru	Left	Right	Beer Right	Thru	Bear Let	Left	int Total
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0	1	0	0	0	4	0	0	8
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Commonwealth Avenue (Route 30) EB

City, State: Brighton, MA Client: HSH/ J. SanClemente P.O. Box 301 Berlin, MA 01503 Office: 508,481.3999 Fax: 508.545.1234 Email: datarequests@pdillc.com File Name: 112737 BB2

Site Code : TBA

Start Date : 12/14/2011

Page No : 1

Groups Printed- Peds and Bicycles

	Co	(R	onwe oute rom	30) E	В	uө				je Ro orthe					hingi	on S Eas	treet				rriag	e Ro			Co	(R	onwe coute	30)	EB	ue				Traci Wes			
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05:30 PM 05:45 PM	0	0	0	0	0	52	0	0	0	0	0	52	0	0	1	0	0	39	0	0	0	0	0	14	0	0	0	0	0	14	0	0	5	0	0	1	178
Total	0	0	0	0	0	198						198						128						64	0	0	0	0	0	64	0	0	8	0	0	6	665
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Commonwealth Avenue (Route 30) EB ..., NSE: Washington Street/Carriage Road

P.O. Box 301 Berlin, MA 01503 Office: 508.481.3999 Fax: 508.545.1234 Email: datarequests@pdillc.com

File Name: 112737 BB2

Site Code : TBA

Start Date : 12/14/2011

Page No : 1

City, State: Brighton, MA Client: HSH/ J. SanClemente

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'C. Commonwealth Avenue (Route 30) EB

NSE: Washington Street/Carriage Road

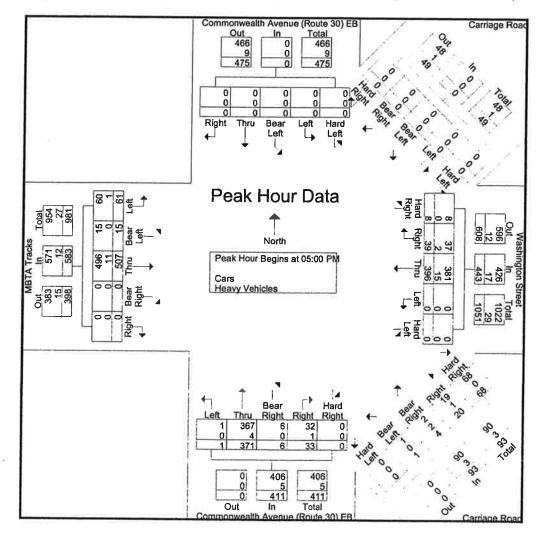
City, State: Brighton, MA Client: HSH/ J. SanClemente P.O. Box 301 Berlin, MA 01503 Office: 508.481.3999 Fax: 508.545.1234 Email: datarequests@pdilic.com File Name: 112737 BB2

Site Code : TBA

Start Date : 12/14/2011

Page No : 1

	C	(F	onwe Route From	30)		nue				ge R				Wa	shing Fron			t				ge Ro outho			С	(F	onw Route	30)		nue				Tra			
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05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	3	13	98	0	0	114	17	3	1	0	0	21	0	10	ò	96	ō	106	ō	ñ	129	6	14	149	390
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	4	7	101	0	0	112	22	13	0	1	0	36	0	7	4	101	0	112	0	0	122	5	18	145	405
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Heavy Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0	2	15	0	0	17	0	1	2	0	0	3	0	1	0	4	0	5	0	0	11	0	1	12	37
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38 Chauncy Street (617) 482-7080 Fax (617) 482-7417

JOB 0708 W	n 2 900 kg
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CALCULATED BY SEC	DATE
CHECKED BY	DATE

Boston, MA 02111 CAR/HVY Ven PH=7:30 AM

£ 425 € ← 208 V01-2672 ven

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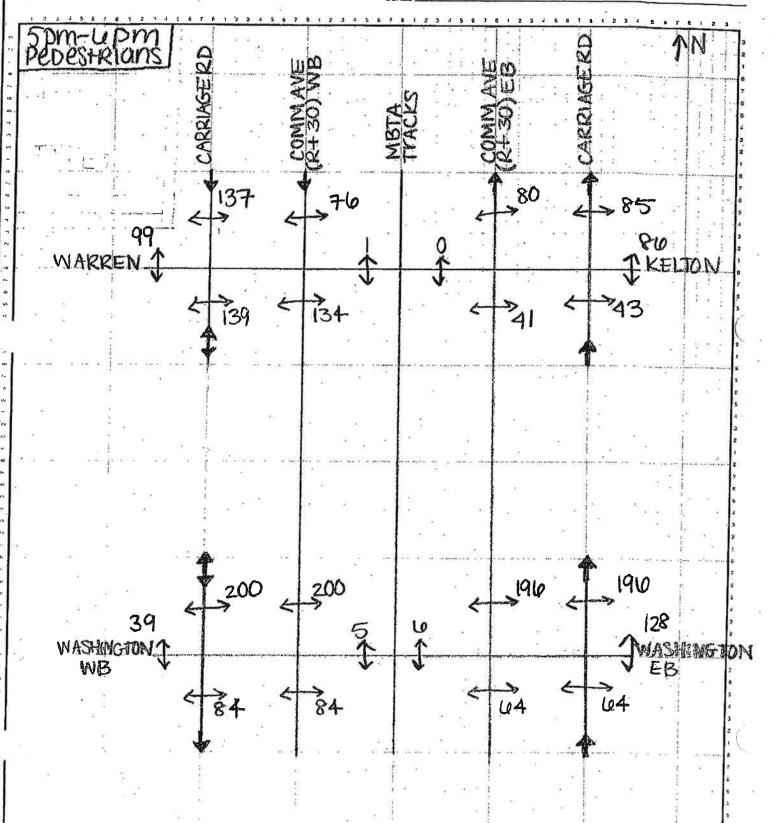
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SHEET NO. 4 OF (4)

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# PRELIMINARY GEOTECHNICAL ENGINEERING REPORT

CHARING CROSS
1501 COMMONWEALTH AVENUE

BRIGHTON

**MASSACHUSETTS** 

for

Hart Development Associates



April 27, 2009

Hart Development Associates 288 Newbury Street Boston, MA 02115

Attention:

Mr. Daniel R. Hart

Reference:

Charing Cross, 1501 Commonwealth Avenue; Brighton, Massachusetts

Preliminary Geotechnical Engineering Recommendations

### Ladies and Gentlemen:

This letter documents the results of our subsurface exploration and preliminary geotechnical engineering services associated with the Charing Cross development located at 1501 Commonwealth Avenue in Brighton, Massachusetts. Refer to the Project Location Plan (Figure 1) for the general site location.

This report was prepared in accordance with our proposal dated October 17, 2008 and the subsequent authorization of Mr. Daniel R. Hart. These services are subject to the limitations contained in Appendix A.

## **Existing Conditions and Proposed Development**

Fronting onto Commonwealth Avenue to the east, the approximately 31,319 square foot subject site is bounded by the Brighton Marine Health Center to the north, Kindred Hospital to the south, and wooded land to the west. The subject site is currently occupied by a vacant 2-story, concrete/masonry building which was formerly used as a nursing home. A paved surface parking lot is located to the north of the existing building. A grassed area is located behind the building on the south side.

Existing grade along the eastern portion of the site adjacent to Commonwealth Avenue slopes down from south to north from approximately Elevation +140 to Elevation +121. Within the paved parking area, existing grade slopes upward from east to west from approximately Elevation +121 to Elevation +128. Behind the building, existing grade slopes steeply upward from approximately Elevation +137 to Elevation +147.

A single level parking structure is located on the abutting property to the south. Exposed concrete columns that support the structure were observed to bear on a bedrock outcropping that extends onto the southern portion of the site, adjacent to the southwest corner of the existing site building.

It is understood that the proposed development includes demolition of the existing structure and construction of a new 6-story building containing two levels of at-grade parking that will closely approximate the existing grades along Commonwealth Avenue and four levels of residential space above. It is further understood that the proposed building will contain no below-grade space.

## **Investigation Procedures**

Our preliminary subsurface investigation consisting of three (3) soil borings was conducted at the site on April 2, 2009. The boreholes were performed by Carr-Dee Corp. of Medford, Massachusetts under contract to McPhail Associates, Inc. Logs of the soil borings are contained in Appendix B and



Hart Development Associates April 27, 2009 Page 2

approximate locations of the explorations are as indicated on the enclosed Subsurface Exploration Plan, Figure 2 which is based upon a plan entitled "ALTA/ACSM Land Title Survey, 1501 Commonwealth Avenue, Boston, Mass." prepared by Feldman Professional Land Surveyors and dated December 2008.

The subsurface explorations were monitored by a representative of McPhail Associates, Inc. who performed field layout, prepared field logs, obtained and visually classified soil samples, monitored groundwater conditions in the completed explorations and the groundwater observation wells installed at the site, made minor adjustments to the exploration locations and determined the required exploration depths based upon the actual subsurface conditions encountered.

Field locations of the subsurface explorations were determined by taping from existing site features identified on the above referenced survey plan. The existing ground surface elevation at each boring location was determined by a level survey performed by McPhail Associates, Inc. utilizing vertical control provided on the referenced survey plan.

The soil borings completed within the paved parking area (borings B-2 and B-3) were performed using a truck-mounted drill rig and were advanced utilizing 2-1/4-inch diameter hollow stem augers. Boring B-1, completed within the landscaped area of the site along Commonwealth Avenue was completed with portable drilling equipment. Standard 1-3/8-inch I.D. split-spoon samples and standard penetration tests were generally obtained continuously with depth in accordance with the standard procedures described in ASTM D1586.

To permit monitoring of groundwater levels at the site boring B-3 was finished as a groundwater observation well.

#### **Laboratory Testing**

At the completion of the field work, the soil samples were transported to our laboratory for more detailed classification, analyses and testing. The laboratory testing consisted of sieve analyses to obtain representative grain size distributions of samples of the fill and glacial till deposits. Laboratory test procedures were in general accordance with applicable ASTM Standards. Results of the laboratory testing conducted on samples of the fill and glacial till deposits are presented in Figures 3 and 4, respectively.

#### **Subsurface Conditions**

Detailed descriptions of the subsurface conditions encountered within each of the boreholes are presented on the boring logs contained in Appendix B. Following is a discussion of the generalized subsurface conditions across the site which are inferred primarily from the recent explorations, and also from our knowledge of local site geology, foundation design and construction experience in the Brighton area of Boston.

The explorations indicate that the site is covered by surface treatments consisting of either a 6-inch thick layer of topsoil or a 2-inch thickness of asphalt pavement. Beneath the surface treatments, the project site is blanketed by a loose to dense, brown fill material that generally consists of a silty sand and gravel



Hart Development Associates April 27, 2009 Page 3

containing trace amounts of brick, concrete, ash and cinders. The fill varied in thickness from 2 feet at the west end of the site (boring B-2) up to 15 feet at the east end of the site (boring B-3).

Underlying the fill, the explorations encountered a natural deposit of glacial till at depths of 2 feet and 15 feet below ground surface in borings B-2 and B-3, respectively. The glacial till consisted of a very dense, light brown, silty sand and gravel with some cobbles. Beneath the glacial till in borings B-2 and B-3, and directly beneath the fill in boring B-1, the explorations encountered refusal on what is believed to be the underlying bedrock. Refusal was encountered at depths of 8.3 feet, 8 feet, and 18.5 feet, corresponding to Elevation +128.5, Elevation +119.0, and Elevation +106.0, in borings B-1, B-2, and B-3, respectively.

The stabilized groundwater level within the observation well installed in completed borehole B-3 was observed at 14 feet below the existing ground surface, corresponding to Elevation +110.5. It is anticipated that future groundwater levels across the site may vary from those reported herein due to factors such as normal seasonal changes, periods of heavy precipitation, and alterations of existing drainage patterns. A Groundwater Monitoring Report for the observation well installed in boring B-3 is presented in Appendix C.

## **Preliminary Foundation Design Recommendations**

Based on our current understanding of the schematic design of the proposed structure and the subsurface soil and groundwater conditions encountered during our recent subsurface exploration program, it is recommended that foundation support of the proposed buildings transfer the structural loads through the unsuitable fill deposit to the underlying glacial till or bedrock deposits that are present across the project site. Utilization of a design bearing pressure of 4 tons per square-foot for foundations bearing on either the natural very dense glacial till or bedrock deposits is recommended for preliminary design purposes. The allowable design bearing pressure may be modified during the final design based upon additional subsurface information.

Based on the preliminary subsurface investigations, for purposes of determining the total lateral seismic force or base shear for earthquake design, the site of the proposed building is considered to be Site Class C as defined in Section 1615.0 of the Massachusetts State Building Code (Seventh Edition).

The selection of the specific foundation system for support of the proposed structure is highly dependent upon the elevation of the lowest level floor slab of the proposed building in relation to the elevation of the existing grades, given the variability in the anticipated depth to the bearing stratum. Based upon the subsurface conditions indicated by the preliminary subsurface investigations, the site appears to be suited for utilization of a conventional spread footing foundation system in conjunction with slab-on-grade construction. However, based upon the observed soil conditions as described above, over-excavation and replacement of unsuitable fill soils is anticipated for foundation construction, in particular, within the eastern and northeast portions of the site where the fill extends to a depths of 8 to 15 feet below existing grade. It is anticipated that lean concrete or pier foundations could be utilized to extend foundation support to the bearing surface as opposed to the over-excavation and replacement of structural fill to the design bottom of footing elevation.

Given that no below-grade space is proposed, perimeter and underslab drainage is not recommended.



Hart Development Associates April 27, 2009 Page 4

## **Final Comments**

Based on our current understanding of the project scope, a final subsurface exploration program is recommended to further defined the extent of over-excavation of unsuitable fill that will be required given the variable depth of fill present at the site, and in consideration of the proposed lowest level slab elevations which have not yet been determined. In addition, a final foundation engineering report should be prepared in conjunction with the final subsurface exploration program which provides final foundation recommendations based on the specific project design requirements.

We trust that the above preliminary information is sufficient for your present requirements. Should you have any questions concerning the recommendations presented herein, please do not hesitate to call us.

Very truly yours,

McPHAIL ASSOCIATES, INC

Joseph G Combardo, Jr.

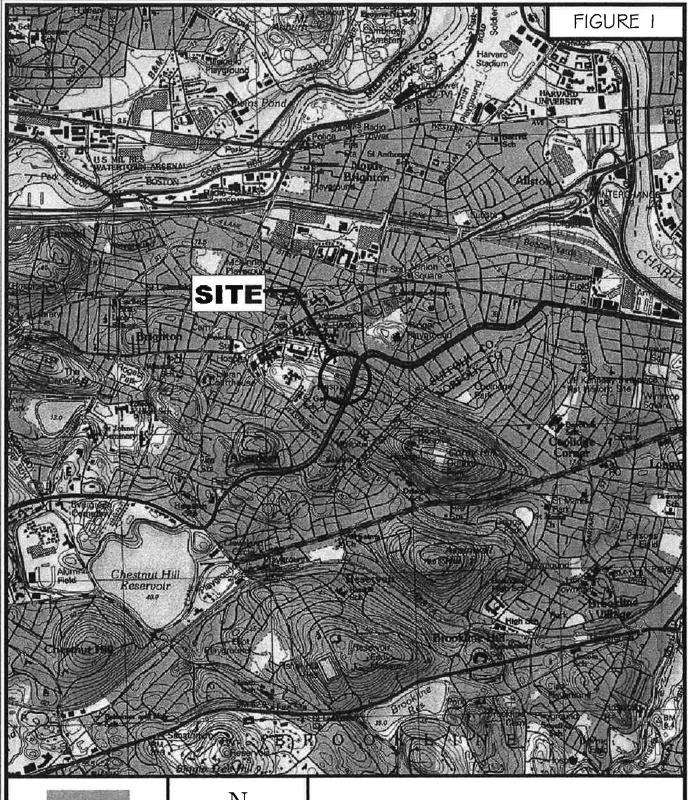
Chris M. Erikson, P.E.

**Enclosures** 

c: Tise Design Associates, Inc. (Mr. Steven Tise)
Foley Buhl Roberts & Associates, Inc. (Mr. Jonathan Buhl)

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JGL/cme





2269 Massachusetts Avenue Cambridge, MA 02140 617/868-1420 617/868-1423 (Fax)

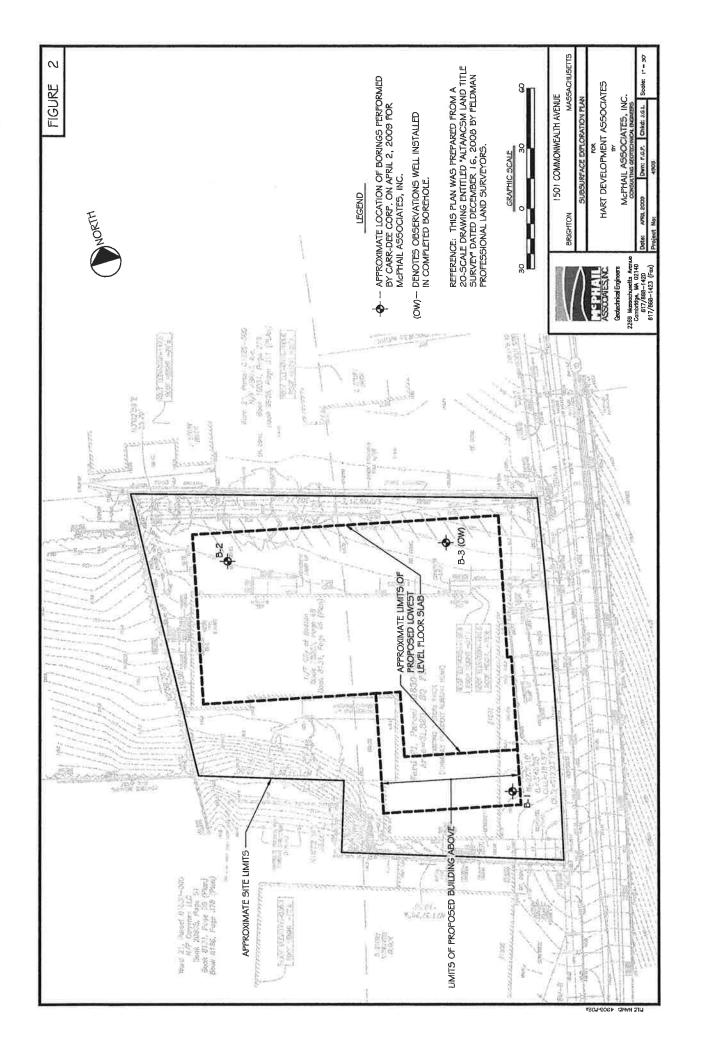


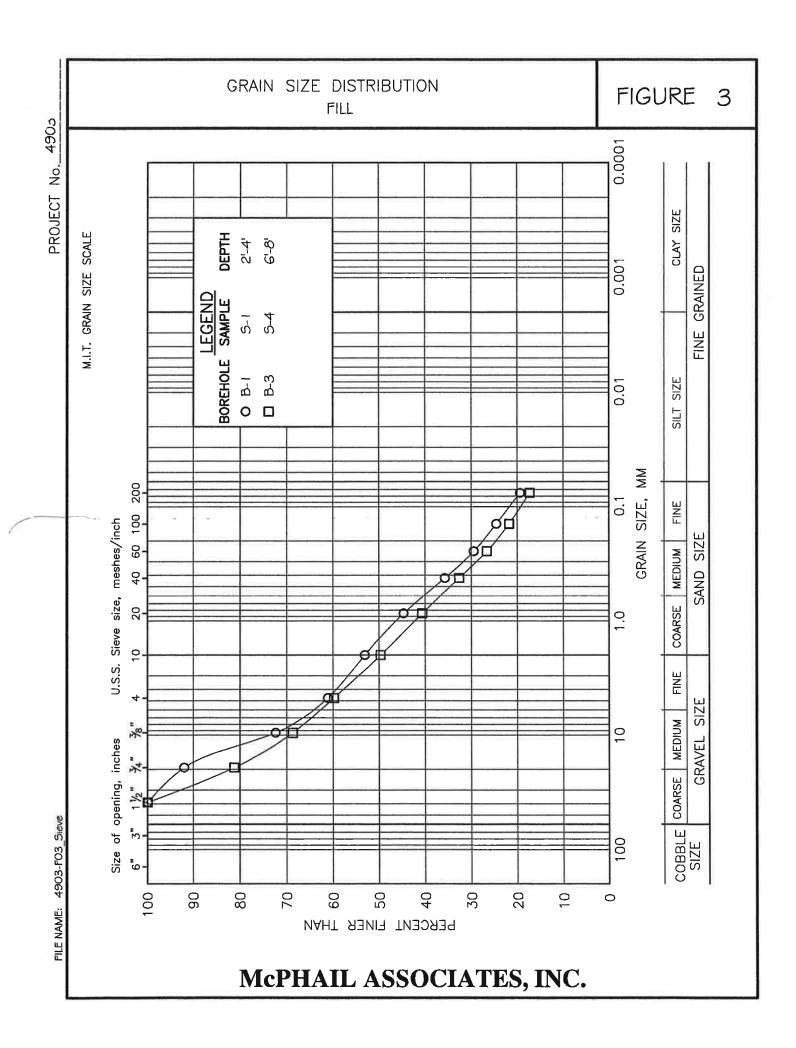
## PROJECT LOCATION PLAN

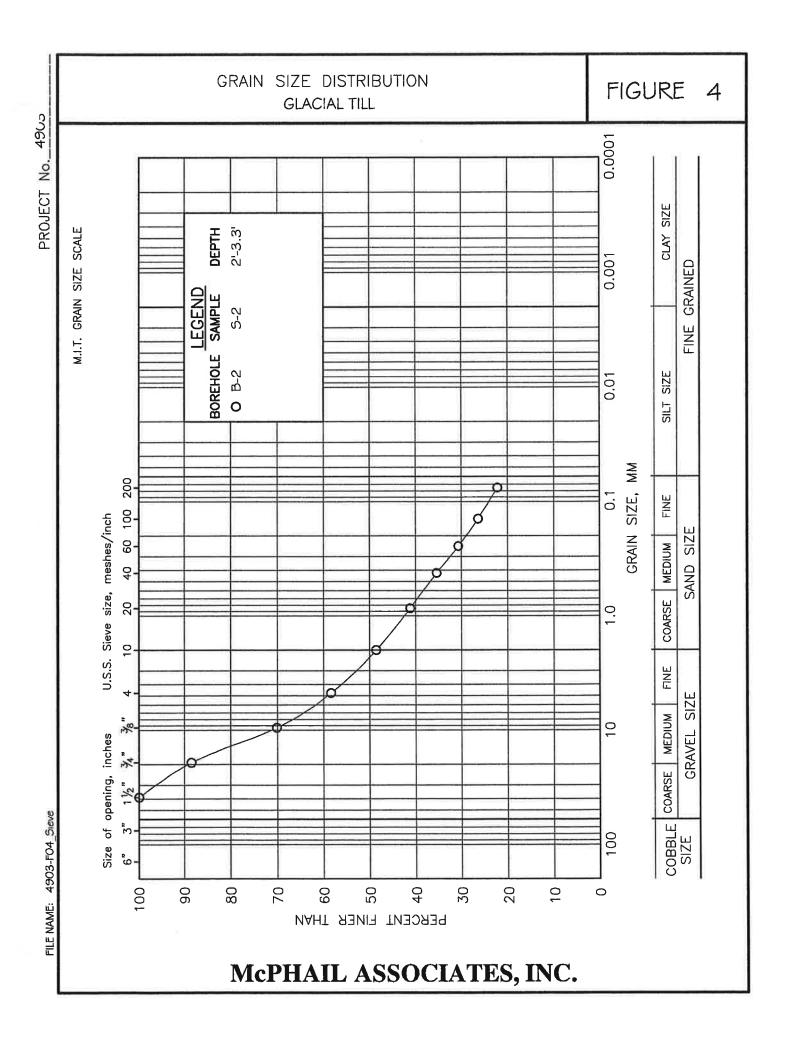
1501 COMMONWEALTH AVENUE

**BRIGHTON** 

MASSACHUSETTS









## **APPENDIX A**

Limitations



### Limitations

This report has been prepared on behalf of and for the exclusive use of Hart Development Associates for specific application to the proposed Charing Cross project to be located at 1501 Commonwealth Avenue in Brighton, Massachusetts in accordance with generally accepted soil and foundation engineering practices. No other warranty, expressed or implied, is made.

In the event that any changes in nature, design or location of the proposed structure are planned, the conclusions and recommendations contained in this report should not be considered valid unless the changes are reviewed and conclusions of this report are modified or verified in writing.

The analyses and preliminary recommendations presented in this report are based upon the data obtained from the subsurface explorations performed at the approximate locations indicated on the enclosed plan. If variations in the nature and extent of subsurface conditions between the widely spaced explorations become evident during the course of construction, it will be necessary for a re-evaluation of the recommendations of this report to be made after performing on-site observations during the construction period and noting the characteristics of any variations.



## **APPENDIX B**

Carr-Dee Corp. Soil Boring Logs Boring Logs B-1, B-2, and B-3 (OW)

## CARR-DEE CORP.

37 LINDEN STREET

P.O. BOX 67

MEDFORD, MA 02155-0001

Telephone (781) 391-4500

To: McPHAIL ASSOCIATES, INC. 2269 MASS, AVE. CAMBRIDGE, MA

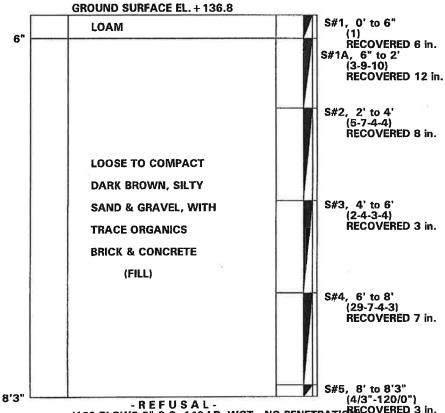
Date: 4-3-2009

\_\_\_\_ Job No.: 2008-179

Location: 1501 COMMONWEALH AVE, BRIGHTON, MA

Scale: 1 in. = 2 ft.

## **BORING 1**



- R E F U S A L - (4/3"-120/0") (120 BLOWS 2" S.S. 140 LB, WGT., NO PENETRATION) 2" SPLIT SPOON SAMPLE

DRILLER: G.SMITH, INSPECTOR: M.GRYZWACZ DATE STATED & COMPLETED 4-2-2009

**NOTE: NO WATER ENCOUNTERED** 

NOTE: NOTE REFUSAL WITH 140 LB, HAMMER @ 8'3"

## CARR-DEE CORP.

37 LINDEN STREET

P.O. BOX 67

MEDFORD, MA 02155-0001

Telephone (781) 391-4500

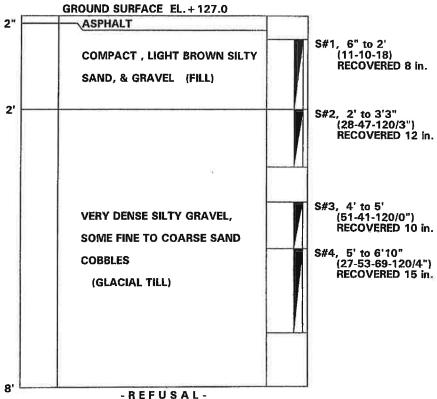
To: McPHAIL ASSOCIATES, INC. 2269 MASS, AVE. CAMBRIDGE, MA Date: 4-3-2009

Job No.: 2008-179

Location: 1501 COMMONWEALH AVE, BRIGHTON, MA

\_\_ Scale: 1 in. = 2 \_\_\_\_ ft.

## **BORING 2**



- R E F U S A L -(120 BLOWS 2" S.S. 140 LB, WGT., NO PENETRATION) 2" SPLIT SPOON SAMPLE DRILLER: G.SMITH, INSPECTOR: M.GRYZWACZ

**DATE STATED & COMPLETED 4-2-2009** 

NOTE: NO WATER ENCOUNTERED

NOTE: NOTE REFUSAL WITH AUGERS @ 8'FT

## CARR-DEE CORP.

37 LINDEN STREET P.O. BOX 67

MEDFORD, MA 02155-0001

Telephone (781) 391-4500

To: McPHAIL ASSOCIATES, INC. 2269 MASS, AVE. CAMBRIDGE, MA

Date: 4-3-2009

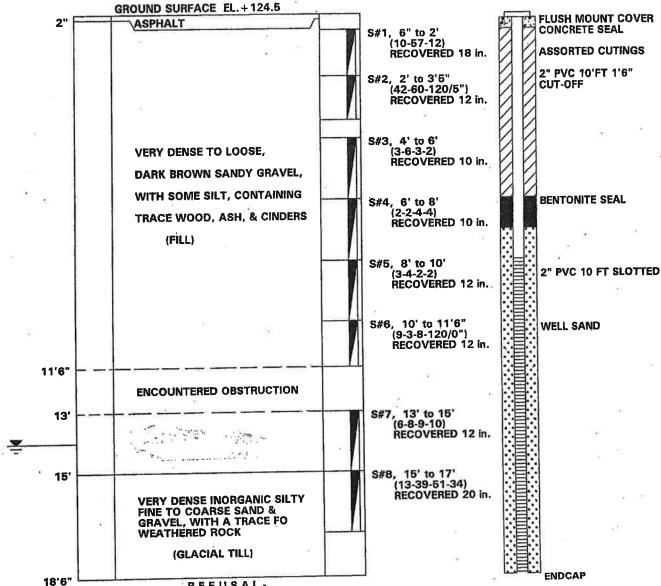
\_\_\_\_ Job No.: 2008-179

Location: 1501 COMMONWEALH AVE, BRIGHTON, MA

\_\_ Scale: 1 in. = 3\_\_\_\_\_ fr

## **BORING 3-OW**

## MONITORING WELL



REFUSAL-(120 BLOWS 2" S.S. 140 LB, WGT., NO PENETRATION)

WATER LEVEL 14'
SIZE OF AUGERS 3-3/4" I.D. LENGTH 18'6"
DRILLER: G.SMITH, INSPECTOR: M.GRYZWACZ
DATE STATED & COMPLETED 4-2-2009

NOTE: AUGER REFUSAL @ 18'6"



#### APPENDIX C

McPhail Associates, Inc. Groundwater Monitoring Reports

## **GROUNDWATER MONITORING REPORT** Elevation Job. No. 4903 Well I.D. B-3 (OW) Subtrahend +124.5 Job Name 1501 Commonwealth Avenue (feet) Elapsed Depth of Water Elevation Date Time Time from R-Box Top of Water Remarks Read By (feet) (days) (feet) 4/2/2009 14 +110.5 Installed/developed MG 4/21/2009 19 14 +110.5 NW

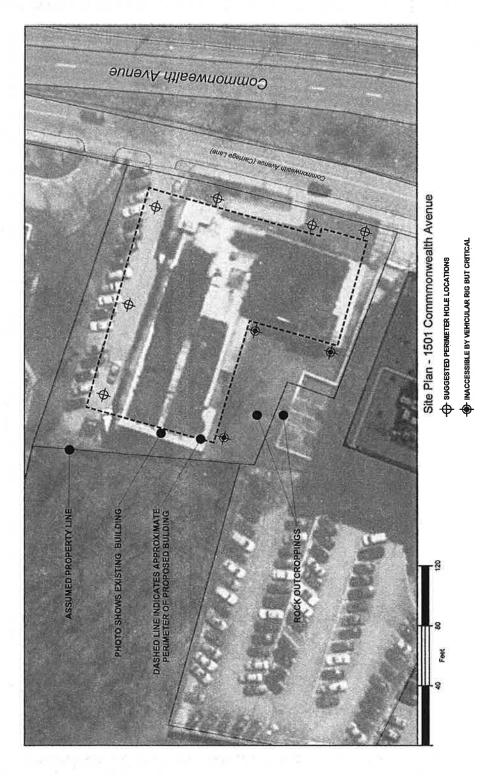
McPHAIL ASSOCIATES, INC.

Tise Design Associates 246 Walnut St. Newton MA 02458 617-581-6601

www.tisedesign.com

PROJECT Charring Cross

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# PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT

**CHARING CROSS** 

**1501 COMMONWEALTH AVENUE** 

**BRIGHTON** 

**MASSACHUSETTS** 

for

Hart Development Associates



June 23, 2009

Hart Development Associates 288 Newbury Street Boston, MA 02115

Attention:

Mr. Daniel R. Hart

Reference:

Charing Cross, 1501 Commonwealth Avenue; Brighton, Massachusetts

Phase I Environmental Site Assessment Report

Ladies and Gentlemen:

This report documents the results of our Phase I Environmental Site Assessment for the 1501 Commonwealth Avenue property (the "subject site") located in the Brighton area of Boston, Massachusetts. Refer to the Project Location Plan, **Figure 1**, for the general site location.

This report has been prepared and these services were performed in accordance with our proposal dated October 17, 2008 and the subsequent authorization of Mr. Daniel R. Hart of Hart Development Associates. These services are subject to the limitations contained in **Appendix A**.

This environmental site assessment was conducted pursuant to the provisions contained in the following: (1) Massachusetts Oil and Hazardous Materials (OHM) Release Prevention and Response Act (MGL Chapter 21E); (2) Massachusetts Contingency Plan (MCP) 310 CMR 40.0000, (3) ASTM E 1527-05. Standard Guide for Environmental Site Assessment: Phase I Environmental Site Assessment Process, as referred to in 40 CFR Part 312 (the All Appropriate Inquiries Rule), and (4) ASTM E 1903-02 Phase II Environmental Assessment. The objective of the environmental investigation was to identify the potential presence of Recognized Environmental Conditions (RECs), as defined by ASTM, at the subject site or at nearby property that may pose a threat to the subject site.

Our scope of services consisted of the following, (i) an assessment of the site history relative to the possible presence of oil and hazardous materials, (ii) a visual inspection of the site and surrounding area, (iii) a records search at the offices of the City of Boston for records of permits issued for the storage and/or use of oil or hazardous materials at the site, (iv) a search of the Massachusetts Department of Environmental Protection (DEP) online database and a file review at the DEP Northeast Regional Office for files and records of incidents involving releases of oil and/or hazardous materials at and in the vicinity of the subject site, (v) a database search of Federal and State records including the National Priorities List, the CERCLA List and the RCRIS Handlers List by EDR Inc., (vi) a subsurface investigation consisting of borings and installation of a groundwater monitoring well; (vii) screening soil samples obtained from the borings for Total Volatile Organic Compounds (TVOCs); and (viii) assessing the above and documenting the results in a Phase I Environmental Site Assessment Report. The conclusions presented herein and our professional opinions are based solely on the scope of work conducted.

The scope of our Phase I Environmental Site Assessment did not include an investigation of the property for the presence of urea formaldehyde foam insulation (UFFI), lead-based paint, mold, mildew, asbestos containing materials or other naturally occurring pollutants such as radon gas. Further, we did not perform a title or environmental lien search.

Fronting onto Commonwealth Avenue to the east, the approximately 31,319 square-foot subject site is bounded by the Brighton Marine Health Center to the north, Kindred Hospital to the south, and wooded



Hart Development Associates June 23, 2009 Page 2

land to the west. The subject site is currently occupied by a vacant 2-story, concrete/masonry building which was formerly used as a nursing home. It is understood that the property was acquired by the City of Boston in 2005.

Historical research indicated that the subject site was undeveloped land up until the early 1960s at which time the existing building was constructed at the subject site. Since that time, the subject site building had been utilized as a nursing home facility until 2005. It is understood that since 2005 the subject site building has been vacant. Adjacent property use consists of predominantly residential and commercial land during this period. The boundaries of the subject site are indicated on **Figure 2**.

Surficial observations of readily observable portions of the subject site and surrounding properties at the time of our site visit did not identify evidence of spills or releases of OHM that would be considered to represent RECs with respect to the subject site. However, we recommend that the locked wooden box labeled "Infectious Waste" and "Biohazard" observed within a storage room and plastic buckets and containers observed within the elevator room and storage room located in the eastern portion of the basement and their contents be properly disposed prior to the demolition of the existing building.

A review of readily available records contained in the City of Boston online databases did not identify the presence of RECs with respect to the subject site.

EDR's review of local, state and federal databases indicated that the subject site is not a MADEP listed release site. Further, a review of the information provided in the available databases searched by EDR indicated that the majority of the properties located in the vicinity of the subject site do not pose a threat of impact to the subject site and are not considered RECs. However, the files for four (4) listed MCP release sites located within 0.25 miles of the subject site were reviewed at the DEP's Northeast Regional Office to assess whether they could potentially pose a threat of impact to the subject site. Based on our review of readily available information at the DEP Northeast Regional Office, the four (4) release sites are not considered likely to pose a threat of impact to the subject site and therefore are not considered RECs.

The subsurface investigation performed primarily for geotechnical purposes included the performance of three (3) borings, one (1) of which was completed as groundwater monitoring well. Topsoil and asphalt surface treatments at the subject site were underlain by granular fill material containing trace amounts of brick, glass, ash and cinders that varied from 2 to 15 feet in thickness. Underlying the fill, the explorations encountered a natural deposit of very dense glacial till and/or bedrock. Where encountered, the glacial till varied from 3.5 to 6 feet in thickness. The stabilized groundwater level within the observation well installed in completed borehole B-3 was observed at 14 feet below the existing ground surface, corresponding to Elevation +110.5.

The soil samples obtained from the borings were screened for the presence of Total Volatile Organic Compounds (TVOCs). The TVOC results of the soil samples obtained from the borings were all 0 parts per million (ppm), or equivalent to ambient air background levels. Further, these samples did not exhibit the presence of visual or olfactory evidence of OHM. In the absence of visual or olfactory indications of the presence of OHM, TVOC results below 10 ppm are not considered likely to indicate the presence of a release of OHM. Therefore, RECs were not identified in soil during the subsurface investigation.

It is understood that the proposed development includes demolition of the existing structure and construction of a 4-story residential building with two levels of at-grade parking that will closely approximate the existing grades along Commonwealth Avenue. Based on the proposed redevelopment of



Hart Development Associates June 23, 2009 Page 3

the subject site, off-site disposal of excess existing fill material may be necessary. Chemical analysis of these soils would be required for legal off-site disposal. Off-site re-use and disposal of soils is governed by the Massachusetts Contingency Plan (MCP) and DEP Soil Management Policies. In general, soils exhibiting contaminant concentrations above the RCS-1 reportable levels contained in the MCP are considered Regulated for off-site disposal and require the use of either a Bill of Lading, Material Shipping Record or Uniform Hazardous Waste Manifest. However, while soils exhibiting contaminant concentrations below the RCS-1 levels are considered "Unregulated" for off-site reuse/disposal (i.e. do not require the use of a Bill of Lading or Material Shipping Record), they may not be re-used in areas where the existing contaminant concentration levels are appreciably lower in accordance with DEP's anti-degradation policy.

Off-site disposal of excavated urban fill soils is governed by the DEP Policy #WSC-94-400 entitled "Interim Remediation Waste Management Policy for Petroleum Contaminated Soils", dated April 21, 1994, DEP Policy #COMM-97-001 entitled "Reuse and Disposal of Contaminated Soils at Massachusetts Landfills", dated August 15, 1997 and applicable sections of the MCP. Contaminants regulated by the MCP and the above referenced policies include total petroleum hydrocarbons, volatile organics, heavy metals, polynuclear aromatic hydrocarbons, pesticides, PCB's, pH, reactivity and flashpoint.

In addition, in consideration of the potential on-site reuse of fill material that was observed to contain ash and cinder, chemical analysis of the fill is recommended to assess the potential requirement for providing a 1-foot thickness of clean soil at finish grade in lawn and landscaped areas as a protective measure to future residents.

In conclusion, we have performed an Environmental Site Assessment in conformance with the scope and limitations of ASTM E-1527-05 for the property identified as Charing Cross located at 1501 Commonwealth Avenue in the Brighton section of Boston, Massachusetts. Any exceptions to, or deletions from this practice are described in the Data Gap section of this report. This assessment has identified no recognized environmental conditions in connection with the subject site.



Hart Development Associates June 23, 2009 Page 4

We trust that the above is sufficient for your present requirements. Should you have any questions concerning the recommendations presented herein, please do not hesitate to call us.

Very truly yours,

McPHAIL ASSOCIATES, INC.

Arny M. Falconeiri

Joseph G Lombardo, Jr.

Ambrose J. Donovan, P.E., L.S.P.

Enclosure

F:\WP5\COVERS\4903 ESAII Cvr Ltr.wpd

AMF/Jgl/ajd



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# **FIGURES**

Figure 1:

**Project Location Plan** 

Figure 2:

Site Investigation Plan

**TABLES** 

Table 1:

PID Headspace Readings



# **APPENDICES**

Appendix A:

Limitations

Appendix B:

Sanborn Maps

City Directory

Appendix C:

**Photographs** 

Appendix D:

City of Boston Municipal Records

Appendix E:

**EDR Data Report Executive Summary** 

EDR Report on CD

Appendix F:

Carr-Dee Corp.'s Boring Logs

**Groundwater Monitoring Well Report** 



# PURPOSE AND SCOPE

The purpose of this report by McPhail Associates, Inc. is to present the results of a Phase I Environmental Site Assessment for the property identified as Charing Cross located at 1501 Commonwealth Avenue (the "subject site") in the Brighton, Massachusetts. Refer to the Project Location Plan, **Figure 1**, for the general site locus. The limits of the subject site, which define the limits of our investigation, are shown on the enclosed **Figure 2**.

The investigation was performed pursuant to the Massachusetts Oil and Hazardous Materials Release Prevention and Response Act (MGL Chapter 21E), the Massachusetts Contingency Plan (310 CMR 40.0000) and in accordance with ASTM E 1527-05 standards, as referred to in CFR Part 312 (the All Appropriate Inquiries Rule). These services were performed and this report was prepared in accordance with our proposal dated October 17, 2008, and the subsequent authorization of Hart Development Associates. These services are subject to the limitations in **Appendix A**.

Our scope of services consisted of the following: (i) an assessment of the site history relative to the possible presence of Oil and Hazardous Materials (OHM); (ii) a visual inspection of the site and surrounding area; (iii) a records search on the on-line databases and at the municipal offices of the City of Boston for records of permits issued for the storage and/or use of oil or hazardous materials at the site; (iv) a database search of Federal and State records including the National Priorities List, the CERCLA List and the RCRIS Handlers List by EDR Inc.; (v) a search of the Massachusetts Department of Environmental Protection (DEP) online database and a review of files at the DEP Northeast Regional Office for records of incidents involving releases of oil and/or hazardous materials at and in the vicinity of the subject site; (vi) completion of a subsurface investigation primarily for geotechnical purposes which consisted of soil borings, the installation of a groundwater monitoring well, and Total Volatile Organic Compound (TVOC) screening of soil samples obtained



from the borings, and (vii) assessing the above and documenting the results in a Phase I Environmental Site Assessment Report.

Excluded from our Phase I Environmental Site Assessment scope of work were a title search, a lien search, an assessment for the presence of lead-based paint, urea formaldehyde foam insulation (UFFI), mold, mildew, asbestos containing materials and naturally occurring pollutants such as radon gas.

The objectives of this Phase I potion of this Environmental Site Assessment, as defined in the ASTM E-1527-05 Standard, are to identify the potential presence of Recognized Environmental Conditions at the subject site or on surrounding properties.

The term Recognized Environmental Condition (REC) is defined by ASTM E 1527-05 as the presence or likely presence of any hazardous substance or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release...into structures on the property, or into the ground, groundwater or surface water of the property. In addition, ASTM E 1527-05 indicates that the term REC does not include de minimis conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate government agencies.

The objective of the subsurface investigation was to assess soil and groundwater conditions across the site in consideration of the proposed scope for development. Specifically, the subsurface investigation at the subject site included the performance of soil borings and the installation of a groundwater monitoring well.

Our professional opinion is based solely on the scope of the work conducted and pertains to the subject site limits as shown on **Figure 2** and defined herein.



# SITE AND LOCUS DESCRIPTION

# **Location and Description**

Fronting onto Commonwealth Avenue to the east, the subject site is bounded by the Brighton Marine Health Center to the north, Kindred Hospital to the south, and wooded land to the west. The subject site has a plan area of approximately 31,319 square feet and is currently occupied by a vacant 2-story, concrete and masonry building with a basement. The subject site building was formerly utilized as a nursing home facility.

The approximate limits of the subject site are depicted in **Figure 2** (Site Plan) which is based upon a plan entitled "ALTA/ACSM Land Title Survey, 1501 Commonwealth Avenue, Boston, Mass." prepared by Feldman Professional Land Surveyors and dated December 2008.

The site is located at coordinates of 42°20'50.0" north and 71°8'27.9" west, corresponding to Universal Transverse Mercator (UTM) coordinates of 323,640.1 meters east and 4,690,334.0 meters north in Zone 19.

# Site and Vicinity General Characteristics

Based on a review of Massachusetts Geographic Information Systems DEP Priority Resources' Map, the subject site is not located within the boundaries of a Potentially Productive Aquifer or within a Zone II Interim Wellhead Protection Area as defined by the Massachusetts Department of Environmental Protection. Further, there are no public drinking water supply wells, no Areas of Critical Environmental Concern, no fish habitats, no habitats of Species of Special Concern or Threatened or Endangered Species within 1-mile of the subject site.

There are no water bodies or wetland areas on the subject site. The nearest body of water is the Chestnut Hill Reservoir, which is located approximately 5,000 feet to the southwest of the subject site. An area designated as Protected Open Space is located adjacent to the



northwestern boundary of the subject site. No areas designated as solid waste sites (landfills) are noted as being within 1,000 feet of the site.

### **Current Uses of the Property**

The subject site is currently occupied by a vacant, two-story, concrete/masonry building formerly utilized as a nursing home.

## **Description of Structures, Roads and Other Improvements**

The existing building is heated by natural gas and is serviced by municipal water and sewer connections and below grade electrical service. Catch basins located on Commonwealth Avenue control surface drainage.

## **Current Uses of Surrounding Properties**

The subject site fronts onto Commonwealth Avenue to the west and bounded by the Brighton Marine Health Center to the north, Kindred Hospital to the south, and wooded land to the west.

# PROPOSED DEVELOPMENT

It is understood that the proposed development includes demolition of the existing structure and construction of a 4-story residential building with two levels of at-grade parking that will closely approximate the existing grades along Commonwealth Avenue. The proposed structure will not include below-grade space.

### SITE HISTORY

Our research into the history of the subject property included a review of Sanborn Fire Insurance Maps dated 1898, 1925, 1950, 1964, 1989, 1990, 1993, 1994, 1995 and 1996 as well as a City Directory search completed by EDR. Copies of the Sanborn Maps and City Directory are included in **Appendix B**.



The 1898 and 1925 Sanborn Maps indicate that the subject site and the abutting properties to the north, south and west of the subject site were undeveloped at this time. The 1925 Sanborn Map indicates that the properties located to the east of the subject site and on the opposite side of Commonwealth Avenue were occupied by stores and residential structures.

The 1950 Sanborn Map indicates the subject site and abutting properties to the west and south of the subject site were undeveloped. The properties located to the east of the subject site on the opposite side of Commonwealth Avenue are indicated to have generally remained unchanged. The property located to the north of the subject site is indicated to have been occupied by the United States Marine Hospital complex including single attendant quarters, nurses home, medical officers quarters and a 10-car parking garage.

The 1964 Sanborn Map indicates that the subject site was occupied by the existing building. The Sanborn Map indicated that the building is utilized as a rest home. The properties located to the north, south, east and west of the subject site are indicated to have generally remained unchanged.

The 1989 through 1996 Sanborn Maps depict that the subject site has generally remained unchanged. The property located to the south of the subject site is indicated to be occupied by an office building with an associated parking lot. The property located to the north of the subject site has generally remained unchanged except that the name of the complex has changed to Brighton Marine Public Health. The properties located to the west and east of the subject site have generally remained unchanged during this time period.



The results of our review of historical records did not indicate the presence of RECs with respect to historical usage of the subject site and surrounding properties.

# **USER QUESTIONNAIRE**

As part of our research into the historical use of the subject site, a questionnaire was completed by Daniel Hart on behalf of Hart Development Associates, in accordance with the User Questionnaire contained in Appendix X.3 of ASTM E 1527-05 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process. Information from the questionnaire has been incorporated into appropriate sections of this report.

# SITE

A visual reconnaissance of the subject site and of surrounding RECONNAISSANCE properties was conducted on June 18, 2009 by a representative of McPhail Associates, Inc., accompanied by Bill Evans, a representative of the City of Boston Department of Neighborhood Development (DND). DND is the current owner of the subject site. In summary, the subject site and surrounding properties did not exhibit surficial evidence of RECs at the time of our site visit.

#### A. Subject Site

Currently, the subject site is occupied by a vacant two-story, concrete and masonry building with a partial basement. However, the Boston Fire Department was observed to be utilizing the subject site building as a training facility at the time of our site visit. It is understood that the subject site building was formerly utilized as a rest home (nursing home). An asphalt paved parking lot exists along the northern portion of the subject site.

Common areas, bedrooms, bathrooms, former nursing stations and closets were observed to occupy the first and second floors of the subject



site building. Empty laundry barrels were observed on the second floor. Only de minimis stains and odors were observed on the first and second floors of the subject site building. No RECs were observed on the first and second floors of the subject site building.

A kitchen, laundry room, offices, storage rooms, elevator room and a boiler room were observed in the basement. Oxygen tanks were observed in the entrance-way of the basement. According to Bill Evans, the oxygen tanks are utilized for Boston Fire Department training. Medical equipment, maintenance supplies, general cleaning products and paint supplies were observed in the storage rooms. A locked wooden box labeled "Infectious Waste" and "Biohazard" was observed within a storage room located in the eastern portion of the basement. Mr. Evans indicated that he was unaware of the contents of this wooden box. No stains or odors were observed on the floor surface in the vicinity of the wooden box. The elevator room located in the eastern portion of the basement was observed to contain clean oil absorbent pads, two (2) 5-gallon buckets labeled oil and a small plastic container labeled solvent. Only de minims staining was observed in the elevator room. Floor drains were not observed within the vicinity of the elevator room. A gas-fired furnace was observed within the boiler room located in the eastern portion of the basement. No evidence of spills, stains or odors were observed in the boiler room. Three (3) dry sump pits were observed in the western portion of the partial basement. No stains or odors were observed in the vicinity of the sump pits. While the presence of the locked wooden box labeled "Infectious Waste" and "Biohazard" located within a storage room and two (2) 5-gallon buckets labeled oil and a small plastic container labeled solvent located in the elevator room are not considered RECs, we recommend that the box, buckets and container and their contents be properly disposed prior to the demolition of the existing building. No RECs were observed in the basement.



### **Exterior**

A concrete ramp and a grass area were observed in the front of the subject site building adjacent to Commonwealth Avenue. No stains or odors were observed in this area.

An asphalt paved parking lot was observed on the north side of the existing building. Cracks were observed in the asphalt pavement, and some minor staining likely attributable to vehicular traffic, were observed on the asphalt surface. A gated area was observed in the rear of the parking lot. According to Mr. Evans, a dumpster was formerly stored within the gated area. No evidence of spills, stains or odors were observed in the vicinity of the dumpster. With the exception of some minor surficial stains observed on the asphalt surface, there were no other stains or odors observed in the parking lot area.

A vegetated area was observed on the southwestern side of the existing building. A wood platform was observed on the ground surface in this area. According to Mr. Evans, the platform was formerly utilized as a patio by the former building occupants. A large bedrock outcrop was observed along the perimeter of the southern portion of the subject site. No stains, odors or stressed vegetation were observed in the southwestern portion of the subject site.

In summary, surficial observations of readily observable portions of the subject site did not identify spills or releases of OHM that would be considered to represent RECs with respect to the subject site.

### B. Surrounding Properties

Visual observations of surrounding properties were made from outside of the property limits.



As indicated above, the Kindred Hospital complex bounds the subject site to the north. Three (3) aboveground storage tanks (ASTs) were observed on the property located closest to the northern boundary of the subject site. The ASTs appeared in good condition and no signs of stains or odors were observed from the property limits at the time of our site visit.

The property located to the south of the subject site is occupied by a 7-story Health Care Center. A transformer was observed along the southeastern portion of the property. No stains or odors were observed in the vicinity of the transformer. A parking garage was observed to be located on the western portion of the property. No stains or odors were observed from the property limits at the time of our site visit.

The property located to the west of the subject site is occupied by Fidelis Park. The Fidelis Park property was observed to consist of wooded and vegetated land. No stains, odors or stressed vegetation were observed from the property limits at the time of our site visit.

Surficial observations of readily observable portions of the surrounding properties to the subject site did not identify spills or releases of OHM that would be considered to represent an REC with respect to the subject site.

Photographs obtained during our Site Reconnaissance are included in **Appendix C**.

MUNICIPAL AND STATE RECORD REVIEW Our municipal record review focused on information related to the potential use, storage, generation, and disposal of OHM at the subject site or surrounding properties. The record review included on-line research of the City of Boston Assessors Office, the City of Boston Inspectional Services Department and the State Fire Marshall's UST Registry On-Line Database. A written inquiry was made to the Boston Public Health Commission and City of Boston Fire Department Fire Prevention Division.



## 1. City of Boston Assessors' Office

According to the City of Boston Assessors Office on-line database, the subject site is listed with an address of 1501 Commonwealth Avenue in Brighton and identified with Parcel ID 2101830000. The property card indicates that as of January 1, 2009, the City of Boston is the owner of the property. The property card indicates that the subject site consists of 31,319 square feet of land. A copy of the on-line Assessors' information is included in **Appendix D**.

## 2. Boston Inspectional Service Department (ISD)

Records of current and expired permits for the subject site and surrounding properties were reviewed on the City of Boston Inspectional Services Department online database on June 9, 2009. The majority of the permits on file for the subject site were documents regarding the subdivision of the 1501 Commonwealth Avenue lot. In addition, the files included permits for renovations and repairs of the subject site building including the installation of plumbing and electrical services and elevator repairs.

A file search of the ISD on-line database indicated that there are no records related to the past or current storage, use or spills of oil and/or hazardous materials associated with the properties located to the north, south and west of the subject site.

### 3. Boston Public Health Commission

A written request for records related to past inspections or possible violations for the addresses of 1501, 1505 and 1465 Commonwealth Avenue and Fidelis Way Park was submitted to the Boston Public Health Commission on December 5, 2008.



According to a written response from the Boston Public Health Commission dated December 16, 2008, there were no records of asbestos abatement permits, environmental hazard inspections, violations, or DEP correspondences for the addresses referenced above. However, the Environmental Health Office did indicate that one (1) asbestos abatement permit was contained in their files for the property with the address of 1505 Commonwealth Avenue. The asbestos abatement permit was issued to 1505 Commonwealth Avenue and dated January 31, 2008 for the abatement of 9 square feet.

A copy of the Environmental Health Office's response and record of permit are included in **Appendix D**.

According to Mr. Daniel Hart and Mr. Bill Evers, the subject site use has not changed and has remained vacant since our record request to the Boston Public Health Commission on December 5, 2008.

# 4. City of Boston Fire Department - Fire Prevention Division

A written request for available records related to the historic storage of oil and hazardous materials at the subject site and surrounding properties was submitted to the City of Boston Fire Department Fire Prevention Division on December 5, 2008.

According to the written response received from the City of Boston Fire Prevention Division dated January 16, 2009, their records do not contain information documenting the on-site storage, use, or spills of OHM at the subject site or surrounding properties. A copy of the Fire Prevention Division's response is included in **Appendix D**.

According to Mr. Daniel Hart and Mr. Bill Evers, the subject site use has not changed and has remained vacant since our record request to the City of Boston Fire Department Fire Prevention Division on December 5, 2008.



# 5. UST Registry On-Line Database

Our review of the Massachusetts State Fire Marshall's Underground Storage Tank (UST) Registry Online Database on June 9, 2009, did not identify records of past or current USTs at the subject site or surrounding properties. The following is information related to the documented USTs that are located closest to the subject site, including A-Z Service Station, a gas station located approximately 1,100 feet to the south of the subject site at 1550 Commonwealth Avenue and Sisters of St. Joseph, a church located approximately 1,500 feet to the northwest of the subject site at 637 Cambridge Street:

	USTs Removed	<u>USTs In Use</u>	
<u>Address</u>	<u>Size</u>	Size	<b>Contents</b>
1550 Commonwealth	h (4)		Unknown
1550 Commonwealt	h +	(3)-8,000 gal	Gasoline
1550 Commonwealt	h -	(1)-500 gal	Waste Oil
637 Cambridge St	(1)-2,000 gal		Gașoline

Based on the location of these sites with respect to the subject site, they are not considered likely to pose a threat of impact to the subject site and hence, are not considered RECs.

# ENVIRONMENTAL DATABASE REPORT

Research of federal and state records was conducted by EDR Sanborn, Inc. of Milford, Connecticut, and is summarized in a database report dated November 19, 2008. The report contains results of a federal and state database review indicating potential environmental concerns in accordance with ASTM-established minimum search distances. A copy of the executive summary of the EDR database report is included in **Appendix E**. The entire EDR report is included on a compact disk in **Appendix E**.



The EDR report indicates that the subject site address is not listed in any of the local, state or municipal databases searched by EDR. Further none of the database entries reviewed for this assessment indicate the presence of evidence of RECs with respect to the subject site.

Based upon information provided by EDR, there are no U.S. Environmental Protection Agency (EPA) National Priority List (NPL) sites or Proposed National Priority List sites located within one mile of the subject site according to the database updated as of September 29, 2008. The EDR report also indicates that there are no listed Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) sites located within one-half mile of the subject site based upon the EPA database updated as of July 9, 2008.

A review of the Resource Conservation Recovery Information System (RCRIS) Hazardous Waste Handlers List, dated September 10, 2008 indicated that there is one (1) RCRIS Conditionally Exempt Small Quantity Generator (CESQG) site located within 0.25-miles of the subject site. This CESQG site is identified as Warren Cleaners with an address of 1439A Commonwealth Avenue and is located approximately 400 feet to the north of the subject site. According to the database report, there are no violations reported at this site. Since this listed CESQG site is listed with no violations, this site is not considered an REC.

The RCRIS Non Generators (NonGen) database identified two (2) sites located within 0.25-miles of the subject site. The RCRIS NonGen sites are identified as Allston Dry Cleaners with an address of 1436 Commonwealth Avenue located approximately 350 feet to the northeast of the subject site and Royal Cleaners formerly identified as William Dry Cleaners & Tailors with an address of 171 Allston Street located approximately 750 feet to the east of the subject site. These two NonGen sites are listed with no violations on record. Since the listed NonGen sites are listed with no violations, these sites are not considered RECs.



EDR reported that there are two (2) state-listed dry cleaners located within the ASTM standard distance of 0.25-miles based on the Massachusetts DEP Dry Cleaner database current as of August 12, 2008. Allston Dry Cleaners with an address of 1436 Commonwealth Avenue, is located approximately 350 feet to the northeast of the subject site and Royal Cleaners with an address of 171 Allston Street, is located approximately 750 feet to the east of the subject site. Based on the EDR information, no violations or releases were reported at these state-listed dry cleaner sites. Based on the above mentioned information, these state-listed dry cleaners are not considered RECs.

EDR also reported no state Solid Waste Facility/Landfill Sites within approximately 0.5-miles of the subject site based upon a state file updated as of July 1, 2008. Further, there are no Manufactured Gas Plant (MGP) sites located within one-mile of the subject site.

A review of EDR's list of "orphan sites", that is those sites with inadequate address information, did not indicate sites to be in close proximity to the subject site.

EDR's review of state environmental databases identified a total of ninety-eight (98) DEP listed release sites within a one-mile radius of the subject site. Of the 98 release sites reported by EDR, the majority are either located at a distance of more than 0.25-miles from the subject site, are located at topographically downgradient or cross-gradient locations with respect to the subject site, and/or have achieved Class A or B Response Action Outcome (RAO) status in accordance with the MCP which indicates that a Permanent Solution has been achieved and a Condition of No Significant Risk exists at these sites. Therefore, the majority of these sites are not considered likely to pose a threat of impact to the subject site, and hence, are not considered RECs.

Based upon their current MCP compliance status, the distance from the subject site to the release sites, and the location of these release sites



with respect to the subject site, four (4) reported release sites were considered to potentially pose a threat to the subject site. These four (4) DEP listed release sites and their potential impact to the subject site are discussed in greater detail in the Massachusetts DEP Record Review section of this report.

# MASSACHUSETTS DEP RECORDS REVIEW

A review of available files at the Massachusetts Department of Environmental Protection (DEP) Northeast Regional Office in Wilmington, Massachusetts was conducted on December 18, 2008. Files were reviewed for four (4) sites located within 0.25-miles of the subject site to assess the potential impact of these release sites with respect to the subject site.

# 1. 1505 Commonwealth Avenue, Release Tracking Number (RTN) 3-4465

1505 Commonwealth Avenue abuts the subject site to the south. The DEP Online Disposal Site Database indicates that RTN 3-4465 was a Tier Classified Transition Site issued for a reportable release of fuel oil to soil on July 15, 1993. According to the readily available information contained in the RTN 3-4465 file, a fuel oil release occurred on this property as a result of a leaking UST that was located on the property to the south of this site at 1515 Commonwealth Avenue. The current Massachusetts DEP database indicates that a Class A-2 RAO Statement for this release was submitted to the DEP on July 30, 1997. The Class A-2 RAO was not included in the DEP file for review. Under the MCP, a Class A-2 RAO is predicated upon a Condition of No Significant Risk, as defined in the MCP, and on an achievement of a Permanent Solution. Given that remedial response actions were completed and an RAO has been submitted to the DEP, it is concluded that this release does not pose a threat of impact to the subject site, and is not considered to be an REC with respect to the subject site.



### 2. 1515 Commonwealth Avenue, RTN 3-11159

The disposal site identified as 1515 Commonwealth Avenue is located approximately 175 feet to the south of the subject site and in an apparent upgradient direction from the subject site. A report entitled "Immediate Response Action (IRA) Completion Statement" dated July 18, 1996 prepared by Dames & Moore, Inc. indicated that a release of Non-Aqueous Phase Liquid (NAPL) was identified in soil and groundwater as a result of an overfill of two (2) aboveground storage tanks (ASTs) located within the northern portion of the building. The presence of NAPL resulted in a 72 hour release notification to the DEP on June 17, 1994. The IRA report indicated that the release was detected during a subsurface investigation conducted as part of a real estate transfer. The report also indicated that approximately 35 tons of No. 4 fuel oil-impacted soils were removed from the site under a Bill of Lading (BOL) in October 1994. Further, the No. 4 fuel oil product identified in site groundwater was removed by hand-bailing and use of absorbent pads during the period of May 12 through 26, 1995. The DEP file for this release site included a report entitled "Method 3 Risk Characterization" prepared by Dames & Moore, Inc. and dated April 9, 1996. Based on the results of the Method 3 Risk Assessment, Dames & Moore concluded that "conditions at the Site do not present an unacceptable risk of noncarcinogenic health effects to humans". The current Massachusetts DEP database indicates that a Class A-2 RAO Statement for this release was submitted to the DEP on July 30, 1997. The Class A-2 RAO report was not included in the DEP file for review. Under the MCP, a Class A-2 RAO is predicated upon a condition of No Significant Risk, as defined in the MCP, and on an achievement of a Permanent Solution. Given that remedial response actions were completed and an RAO has been submitted to the DEP, it is concluded that this release does not pose a threat of impact to the subject site, and is not considered to be an REC with respect to the subject site.



# 3. 34 Fidelis Way, RTN 3-27609

34 Fidelis Way is located approximately 850 feet to the southwest of the subject site. The DEP Online Disposal Site Database indicates that RTN 3-27609 was issued on April 1, 2008 for a 2-hour reportable condition associated with the sudden release of No. 2 fuel oil. A report entitled "Class A-2 Response Action Outcome Statement" prepared by Enviro Trac Ltd. and dated May 29, 2008 was reviewed for this release site. Based on the report, 25 to 75-gallons of No.2 fuel oil was released during a fuel delivery onto the sidewalk and parking area adjacent to the UST fill pipe. The report indicated that No.2 fuel oil flowed into a catch basin in the parking area and into a portion of the storm drain system. According to the report, the release did not reach the outfall of the storm drain system. The report indicated that response actions included the placement of absorbent material and the off-site disposal of oil, solids and sludge. Under the MCP, a Class A-2 RAO is predicated upon a condition of No Significant Risk, as defined in the MCP, and on an achievement of a Permanent Solution. Given that remedial response actions were completed and an RAO was submitted to the DEP indicating that a Permanent Solution was achieved and a Condition of No Significant Risk exists, it is concluded that this release does not pose a threat of impact to the subject site, and is not considered to be an REC with respect to the subject site.

### 4. 11 Camelot Court, RTN 3-13323

The release site identified as 11 Camelot Court is located approximately 700 feet to the north of the subject site. The DEP Online Disposal Site Database indicates that RTN 3-13323 was issued on January 12, 1996 for a 2-hour reportable condition associated with the release of No. 4 fuel oil to site soil and groundwater. According to a report titled "Response Action Outcome Report" prepared by Paragon and dated September 30, 2002, the No. 4 fuel oil release was a result of a leaking UST. The report indicated that the UST and approximately 15 cubic yards of contaminated



soil were removed from the site as part of remedial response actions. Subsequently, Paragon monitored the installation of recovery wells and monitoring wells, performed borings, bedrock mapping and indoor air testing during 1996 through 1997. In addition, Paragon installed a product recovery/groundwater treatment system at the site in August 1996. According to the report, as a result of the elimination or reduction to trace levels of No.4 fuel oil identified in previously impacted monitoring wells, the system was shut down in April 2002. A Class A-2 RAO Statement for this release was submitted to the DEP on October 17, 2002 indicating that a Permanent Solution was achieved and a Condition of No Significant Risk exists. Given that remedial response actions were completed and a Class A-2 RAO was submitted to the DEP, it is concluded that this release does not pose a threat of impact to the subject site, and is not considered to be an REC with respect to the subject site.

# SUBSURFACE INVESTIGATION BY McPHAIL

A subsurface investigation consisting of three (3) soil borings was conducted at the site on April 2, 2009 by Carr-Dee Corp. of Medford, Massachusetts under contract to McPhail Associates, Inc. as part of a preliminary geotechnical subsurface investigation. Logs of the soil borings are contained in **Appendix F** and approximate locations of the explorations are as indicated on the enclosed Subsurface Exploration Plan, **Figure 2** which is based upon a plan entitled "ALTA/ACSM Land Title Survey, 1501 Commonwealth Avenue, Boston, Mass." prepared by Feldman Professional Land Surveyors and dated December 2008.

The subsurface explorations were monitored by a representative of McPhail Associates, Inc. who performed field layout, prepared field logs, obtained and visually classified soil samples, monitored groundwater conditions in the completed explorations and the groundwater observation wells installed at the site, made minor adjustments to the exploration locations and determined the required exploration depths based upon the actual subsurface conditions encountered.



Field locations of the subsurface explorations were determined by taping from existing site features identified on the above referenced survey plan. The existing ground surface elevation at each boring location was determined by a level survey performed by McPhail Associates, Inc. utilizing vertical control provided on the referenced survey plan.

The soil borings completed within the paved parking area (borings B-2 and B-3) were performed using a truck-mounted drill rig and were advanced utilizing 2-1/4-inch diameter hollow stem augers. Boring B-1, completed within the landscaped area of the site along Commonwealth Avenue was completed with portable drilling equipment. Standard 1-3/8-inch I.D. split-spoon samples and standard penetration tests were generally obtained continuously with depth in accordance with the standard procedures described in ASTM D1586.

Boring B-3 was finished as a groundwater observation well to permit monitoring of groundwater levels at the site.

# SUBSURFACE CONDITIONS

Detailed descriptions of the subsurface conditions encountered within each of the boreholes are presented on the boring logs contained in **Appendix F**. Following is a discussion of the generalized subsurface conditions across the site which are inferred primarily from the recent explorations, and also from our knowledge of local site geology, foundation design and construction experience in the Brighton area of Boston.

The explorations indicate that the site is covered by surface treatments consisting of either a 6-inch thick layer of topsoil or a 2-inch thickness of asphalt pavement. Beneath the surface treatments, the project site is blanketed by a loose to dense, brown fill material that generally consists of a silty sand and gravel containing trace amounts of brick, concrete, ash and cinders. The fill varied in thickness from 2 feet at the west end of the site (boring B-2) up to 15 feet at the east end of the site (boring B-3).



Underlying the fill, the explorations encountered a natural deposit of glacial till at depths of 2 feet and 15 feet below ground surface in borings B-2 and B-3, respectively. The glacial till consisted of a very dense, light brown, silty sand and gravel with some cobbles. Beneath the glacial till in borings B-2 and B-3, and directly beneath the fill in boring B-1, the explorations encountered refusal on what is believed to be the underlying bedrock. Refusal was encountered at depths of 8.3 feet, 8 feet, and 18.5 feet, corresponding to Elevation +128.5, Elevation +119.0, and Elevation +106.0, in borings B-1, B-2, and B-3, respectively.

The stabilized groundwater level within the observation well installed in completed borehole B-3 was observed at 14 feet below the existing ground surface, corresponding to Elevation +110.5. It is anticipated that future groundwater levels across the site may vary from those reported herein due to factors such as normal seasonal changes, periods of heavy precipitation, and alterations of existing drainage patterns. A Groundwater Monitoring Report for the observation well installed in boring B-3 is presented in **Appendix F**.

# SOIL SCREENING RESULTS

Soil samples obtained from the borings were screened for the presence of Total Volatile Organic Compounds (TVOC). The TVOC screening results are summarized in **Table 1**.

The headspace screening was performed in accordance with DEP's "Jar Headspace Analytical Screening Procedure", Attachment II to the Interim Remediation Waste Management Policy for Petroleum Contaminated Soils, #WSC-94-400. The screening was performed with MiniRAE 3000 Photoionization Detector calibrated to benzene equivalent VOCs.

A total of 11 soil samples were screened for the presence of TVOC. In summary, TVOC results encountered within the soil samples obtained from the borings were all 0 parts per million (ppm), or equivalent to ambient air background levels. Further, these samples did not exhibit the



presence of visual or olfactory evidence of OHM. In the absence of visual or olfactory indications of the presence of OHM, TVOC results below 10 ppm are not considered likely to indicate the presence of a release of OHM. Therefore, RECs were not identified in soil during the subsurface investigation.

# CONSTRUCTION

Based on the proposed redevelopment of the subject site excess soil may CONSIDERATIONS be generated as a result of excavation for new foundations and utilities. and hence, off-site disposal of excess existing soil may be necessary. Chemical analysis of these soils would be required for legal off-site disposal. Off-site re-use and disposal of soils is governed by the Massachusetts Contingency Plan (MCP) and DEP Soil Management Policies. In general, soils exhibiting contaminant concentrations above the RCS-1 reportable levels contained in the MCP are considered Regulated for off-site disposal and require the use of either a Bill of Lading, Material Shipping Record or Uniform Hazardous Waste Manifest. However, while soils exhibiting contaminant concentrations below the RCS-1 levels are considered "Unregulated" for off-site reuse/disposal (i.e. do not require the use of a Bill of Lading or Material Shipping Record). they may not be re-used in areas where the existing contaminant concentration levels are appreciably lower in accordance with DEP's antidegradation policy.

> Off-site disposal of excavated urban fill soils is governed by the DEP Policy #WSC-94-400 entitled "Interim Remediation Waste Management Policy for Petroleum Contaminated Soils", dated April 21, 1994, DEP Policy #COMM-97-001 entitled "Reuse and Disposal of Contaminated" Soils at Massachusetts Landfills", dated August 15, 1997 and applicable sections of the MCP.

Contaminants regulated by the MCP and the above referenced policies include total petroleum hydrocarbons, volatile organics, heavy metals,



polynuclear aromatic hydrocarbons, pesticides, PCB's, pH, reactivity and flashpoint.

In addition, in consideration of the potential on-site reuse of fill material that was observed to contain ash and cinder, chemical analysis of the fill is recommended to assess the potential requirement for providing a 1-foot thickness of clean soil at finish grade in lawn and landscaped areas as a protective measure to future residents.

#### **DATA GAPS**

In accordance with ASTM E 1527-05, the Phase I portion of this report shall identify and comment on any significant data gaps that affect the ability of the environmental professional to identify RECs. There were no significant data gaps identified during the completion of this assessment.

# SUMMARY AND CONCLUSIONS

A Phase I Environmental Site Assessment has been completed in conformance with the ASTM E 1527-05 standard for the property located at 1501 Commonwealth Avenue in Brighton section of Boston, Massachusetts. The purpose of this report was to document the possible release of oil and/or hazardous materials, as defined in Massachusetts General Laws Chapter 21E and the Massachusetts Contingency Plan, 310 CMR 40.0000 and to identify the potential presence of Recognized Environmental Conditions as defined by the ASTM 1527-05 standard.

Our assessment included a review of the site history relative to the possible presence of oil and/or hazardous materials, a visual reconnaissance of the subject site and the surrounding areas, a review of readily available city, state and federal records including a DEP file review, and a review of a database search completed by EDR Sanborn, Inc. of Milford, Connecticut. In addition, a subsurface investigation performed primarily for geotechnical purposes included reviewing and screening soil samples obtained from the borings for Total Volatile Organic Compounds (TVOCs).



Fronting onto Commonwealth Avenue to the east, the subject site is bounded by the Brighton Marine Health Center to the north, Kindred Hospital to the south, and wooded land to the west. The subject site occupies a plan area of approximately 31,715 square feet and is currently occupied by a vacant 2-story, concrete and masonry building which was formerly utilized as a nursing home.

The results of our review of historical records indicate that prior to development in the early 1960s, the subject site was undeveloped land. Since that time, it is understood that the subject site building had been utilized as a rest home until 2005. Further, it is understood that since 2005 the subject site building has remained vacant. However, it is understood that the City of Boston Department of Neighborhood Development, allows occasional use of the subject site building by the Boston Fire Department. The property located to the north of the subject site has been occupied by a health center and associated medical officer quarters since at least 1950. The property located to the west of the subject site has remained undeveloped. The property located to the south of the subject site has been occupied by an office building since at least 1989. The results of our review of historical records indicated that there are no threats of impact to the subject site, and no RECs were identified with respect to historical usage of the subject site and surrounding properties.

Our observations of readily observable areas of the subject site and surrounding properties did not disclose evidence of a release of oil or hazardous materials, or the presence of RECs at the time of our site visit. However, we recommend that the locked wooden box labeled "Infectious Waste" and "Biohazard" observed within a storage room and containers observed within the elevator room and storage room in the eastern portion of the basement and their contents be properly disposed prior to the demolition of the existing building.



A review of readily available records on the City of Boston online databases and municipal offices did not indicate the presence of RECs with respect to the subject site.

Based on our review of the DEP's on-line database of MCP sites, the subject site is not a DEP listed MCP site, nor was information identified in the available databases searched by EDR that indicated the presence of an REC.

Four (4) listed MCP release sites located within 0.5 miles of the subject site were evaluated to determine whether they could potentially pose a threat to the subject site. Files for these four (4) sites were examined at the DEP's Northeast Regional office for information relative to their potential to impact the subject property. Based on our review of readily available information at the DEP's Northeast Regional office and/or DEP's on-line MCP site database, the four (4) release sites are not considered likely to pose a threat to the subject property based on the location of the releases, the response actions completed, and/or given that a Class A was filed for each release, indicating that a Permanent Solution was achieved and a Condition of No Significant Risk exists. Accordingly, the four (4) release sites are not considered RECs with respect to the subject site.

The subsurface investigation performed at the subject site was based, in part, on gathering information relating to the proposed development of the subject site as part of a preliminary geotechnical subsurface investigation. This investigation included the performance of three (3) borings, one (1) of which was completed as groundwater monitoring well. Topsoil and asphalt surface treatments at the subject site were underlain by granular fill material containing trace amounts of brick, glass, ash and cinders that varied from 2 to 15 feet in thickness. Underlying the fill, the explorations encountered a natural deposit of very dense glacial till and/or bedrock. Where encountered, the glacial till varied from 3.5 to 6 feet in thickness. The stabilized groundwater level within the observation well installed in



completed borehole B-3 was observed at 14 feet below the existing ground surface.

A total of 11 soil samples obtained from the borings were screened for the presence of Total Volatile Organic Compounds (TVOCs). The TVOC results encountered within the soil samples obtained from the borings were all 0 parts per million (ppm), or equivalent to ambient air background levels. Further, these samples did not exhibit the presence of visual or olfactory evidence of OHM. In the absence of visual or olfactory indications of the presence of OHM, TVOC results below 10 ppm are not considered likely to indicate the presence of a release of OHM. Therefore, RECs were not identified in soil during the subsurface investigation.

The proposed preliminary plans for development of the subject site is understood to include demolition of the existing structure and construction of a 4-story residential building with two levels of at-grade parking that will closely approximate the existing grades along Commonwealth Avenue. Therefore, pursuant to the Massachusetts Oil and Hazardous Materials Release Prevention and Response Act (MGL Chapter 21E) and pursuant to the Massachusetts Contingency Plan (310 CMR 40.00), if off-site disposal of excess excavated soil from future development of the subject site becomes necessary, chemical analysis of the excess soil will be required in order to conform with the regulations and policies of the Department of Environmental Protection (DEP).

In addition, in consideration of the potential on-site reuse of fill material that was observed to contain ash and cinder, chemical analysis of the fill is recommended to assess the potential requirement for providing a 1-foot thickness of clean soil at finish grade in lawn and landscaped areas as a protective measure to future residents.

We have performed a *Phase I Environmental Site Assessment* in conformance with the scope and limitations of ASTM Practice E 1527-05 of 1501 Commonwealth Avenue in Brighton, Massachusetts, the *property*.

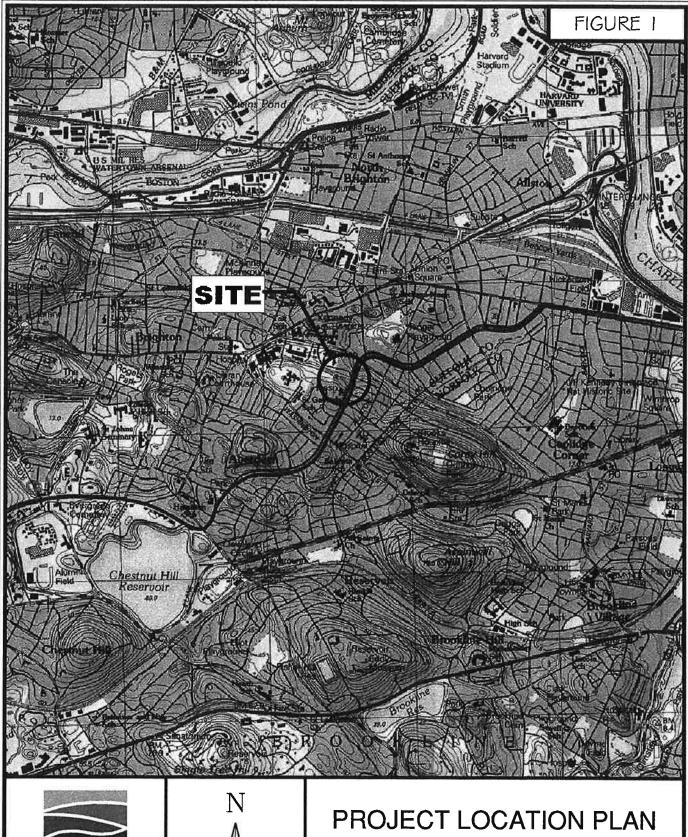


Any exceptions to, or deletions from, this practice are described in Section Data Gaps of this report. This assessment has identified no recognized environmental conditions in connection with property.

ENVIRONMENTAL PROFESSIONAL STATEMENT

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in Section 312.10 of 40 CFR 312. Further, I have the specific qualifications based on education, training and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in CFR Part 312.

Ambrose J. Donovan





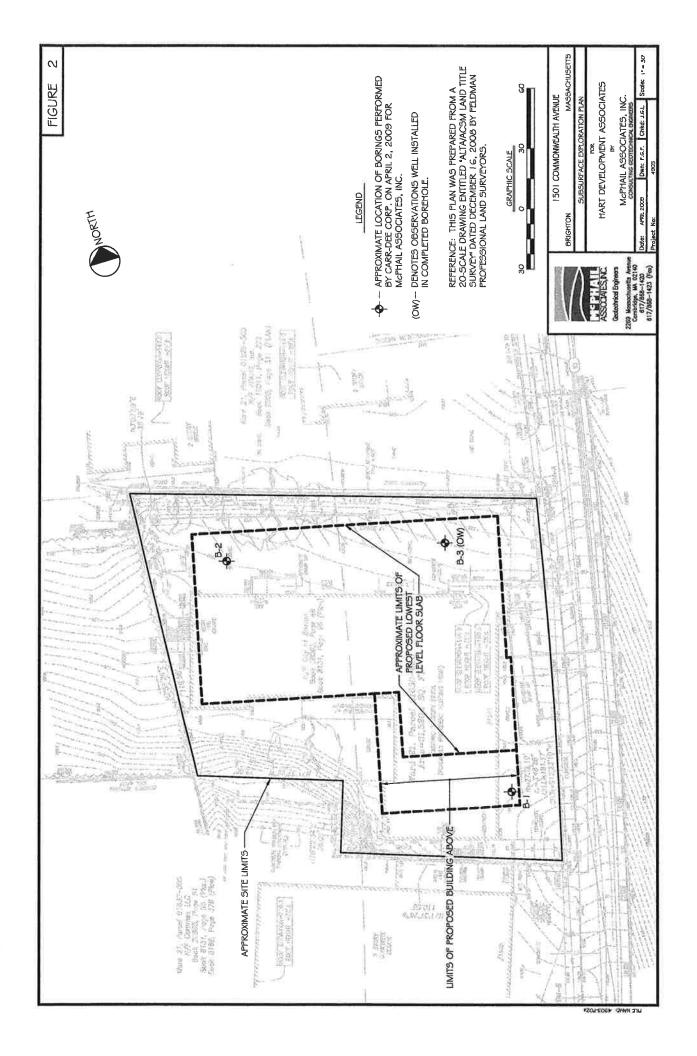
2269 Massachusetts Avenue Cambridge, MA 02140 617/868-1420 617/868-1423 (Fax)



1501 COMMONWEALTH AVENUE

BRIGHTON

MASSACHUSETTS



### TABLE 1

### **CHARING CROSS; 1501 COMMONWEALTH AVENUE**

### Project No: 4903 Headspace Readings in Sample Jars

EXPLORATION	SAMPLE	DEPTH	SAMPLE	PID	VISUAL/OLFACTORY
NO.	NO.	FT.	TYPE	READING (ppm)	PETROLEUM EVIDENCE
BACKGROUND					
B-1	S-1	1-3'	Fill	0.0	None
	S-2	5-7	Fill	0.0	None
	S-3	10-10'-11"	Glacial Till	0.0	None
	S-4	15'-16'-2"	Glacial Till	0.0	None
BACKGROUND				<b>†</b>	
B-2	S-1	0-2	Fill	0.0	None
	S-2	5-7'	Fill	0.0	None
	S-3	10-12'	Glacial Till	0.0	None
	S-4	12'-12'-1"	Glacial Till	0.0	None
BACKGROUND				<del>       </del>	
B-3	S-1	1-3'	Fill	0.0	None
	S-2	5'-6'-10"	Glacial Till	0.0	None
	S-3	10'-10'-8"	Glacial Till	0.0	None

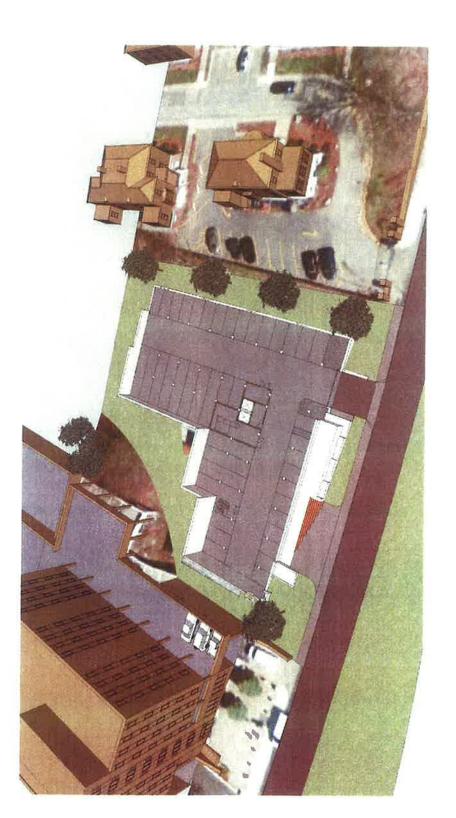
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# The Brighton Partnership for Community Reinvestment, LLC

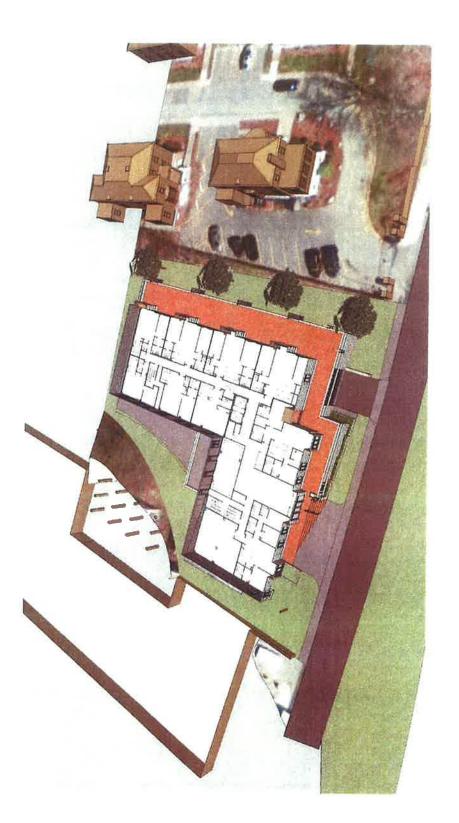
Charring Cross



The Brighton Partnership for Community Reinvestment, LLC

Diamond Sinacori, LLC & Hart Development Associates 205 Newbury Street - Boston, Massachusetts 02 116 617-369-5650 (tel) - 617-369-5652 (fax) mdiamond@diamondsinacori.com

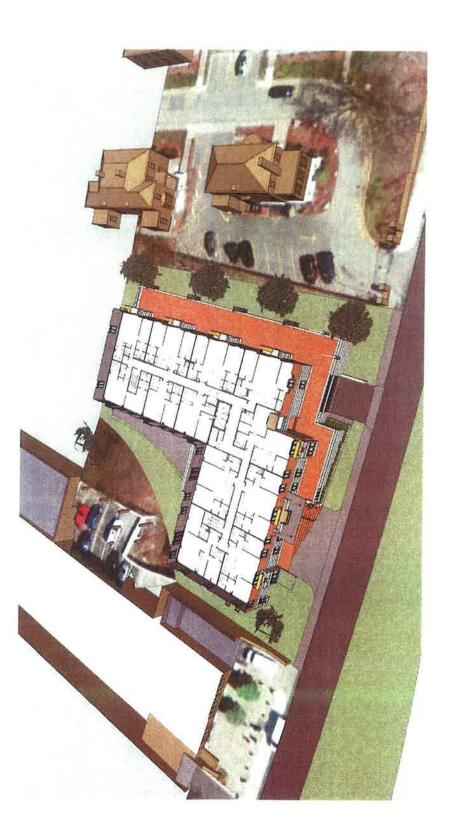
1500 LOSSE



The Brighton Partnership for Community Reinvestment, LLC

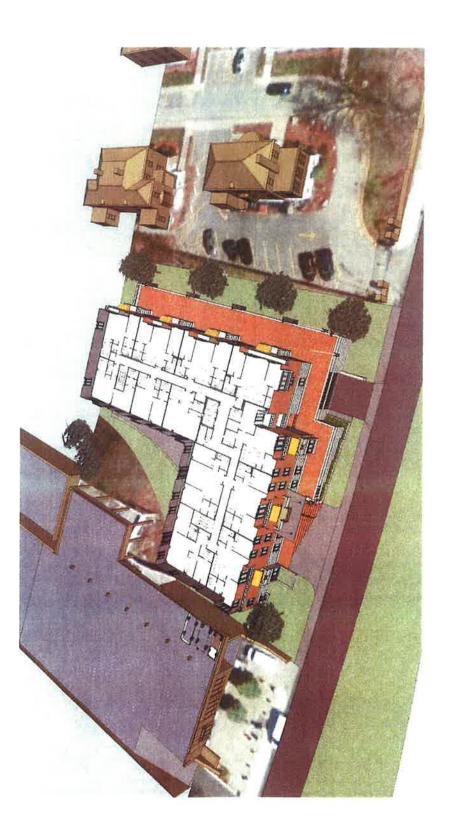
Diamond Sinacori, LLC & Hart Development Associates 205 Newbury Street - Boston, Massachusetts 02116 617-369-5650 (tel) - 617-369-5652 (fax) mdiamond@diamondsinacori.com

Sec. 1. 3149



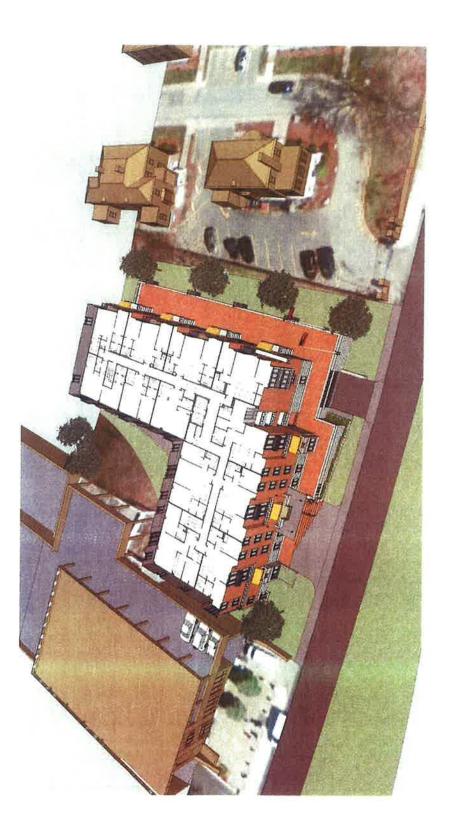
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The Brighton Partnership for Community Reinvestment, LLC

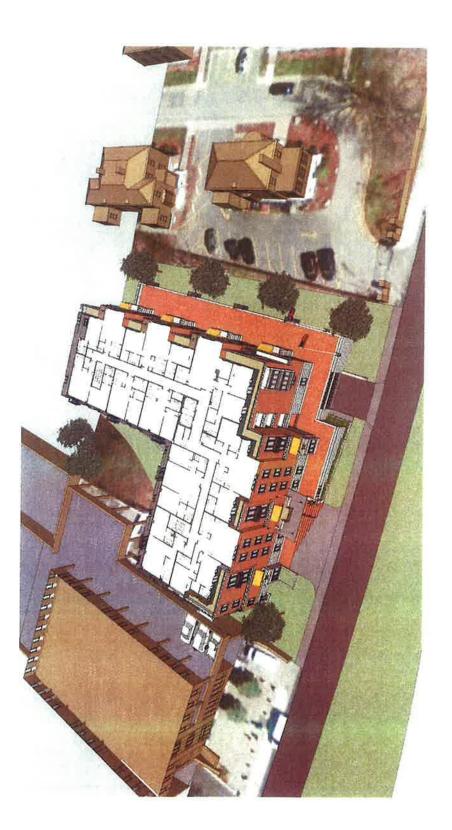
Diamond Sinacori, L.L.C & Hart Development Associates 205 Newbury Street · Boston, Massachusetts 02116 617-369-5650 (tel) · 617-369-5652 (fax) mdiamond@diamondsinacori.com



# The Brighton Partnership for Community Reinvestment, LLC

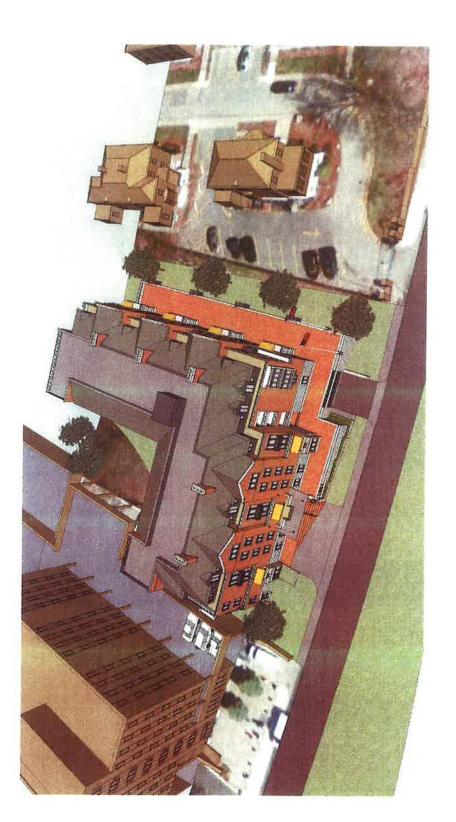
a Joint Venture of

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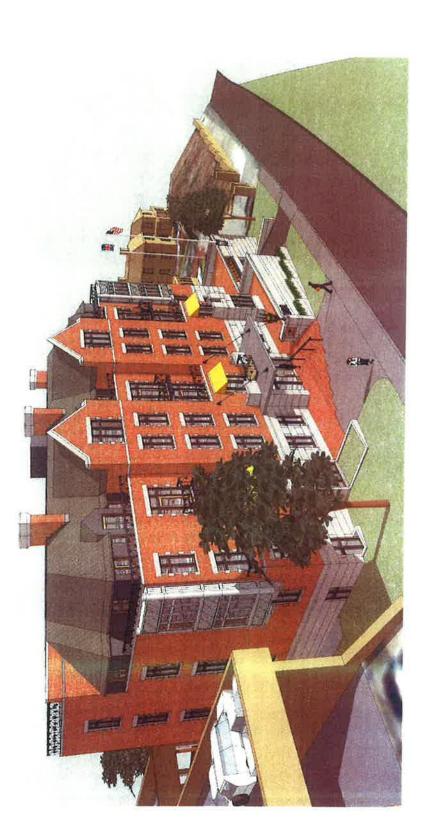
Diamond Sinacori, L.L.C. & Hart Development Associates 205 Newbury Street · Boston, Massachusetts 02116 617-369-5650 (tel.) · 617-369-5652 (fax) mdiamond@diamondsinacori.com



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Sheet Lines



The Brighton Partnership for Community Reinvestment, 1.1.7

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The Brighton Partnership for Community Reinvestment, LLC

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Commonwealth Avenue Elevation

The Brighton Partnership for Community Reinvestment, LLC

a Joint Venture of

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Commonwealth Avenue Elevation

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Commonwealth Avenue Elevation

The Brighton Partnership for Community Reinvestment, LLC

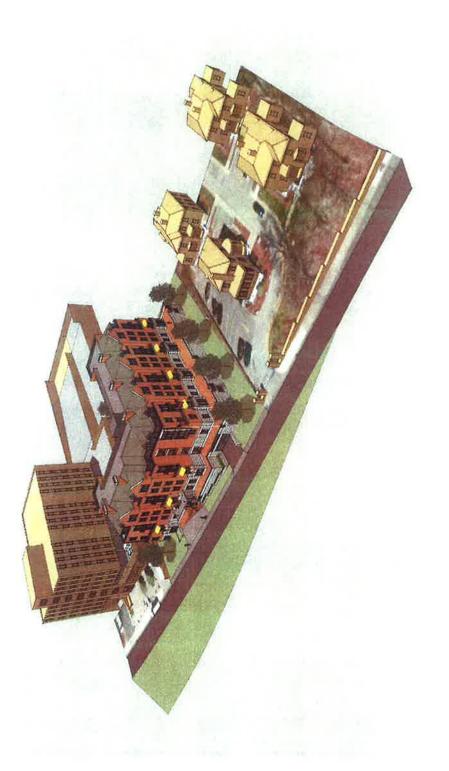
a Jonn Venture of

Diamond Sinacori, LLC & Hart Development Associates 205 Newbury Street - Boston, Massachusetts 02116 617-369-5650 (tel) - 617-369-5652 (fax) mdiamond@diamondsinacori.com



The Brighton Partnership for Community Reinvestment, 1.1.6

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Commonwealth Avenue Elevation

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a Joun Venture of

Diamond Sinacori, L.L.C. & Hart Development Associates 205 Newbury Street - Boston, Massachusetts 02116 617-369-5650 (tel) - 617-369-5652 (fax) mdiamond@diamondsinacori.com

**Elevation** 

Tise Design Associates 246 Walnu Stree! Hewton Messachusetts 02460

Commonwealth Avenue Elevation - Southeast scale: 1/8"=1'-0"



The Brighton Partnership for Community Reinvestment, LLC

a Joint Venture of

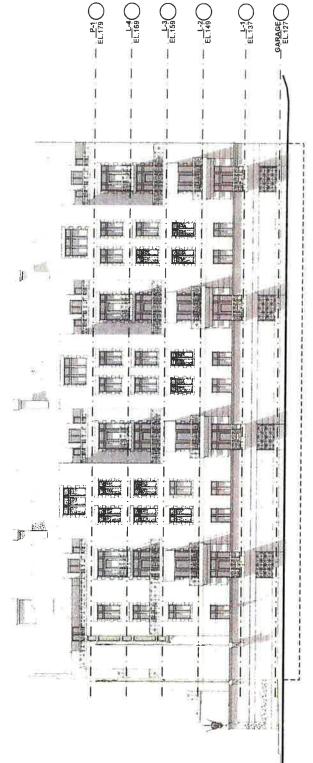
Diamond Sinacori, LLC & Hart Development Associates 205 Newhory Street Boston, Massachusetts 02116 617-369-5650 (fel): 617-369-562 (fax) mdiamond@diamondsinacori.com

Northeast Elevation scale: 1/8"=1'-0"

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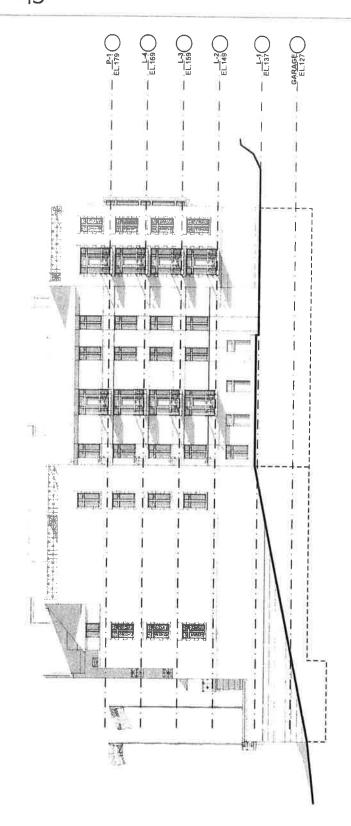


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Diamond Sinacori, LLC & Hart Development Associates 205 Newbury Street - Boston, Massachusetts 02116 617-369-5650 (tel) - 617-369-5652 (fax) mdiamond@diamondsinacori.com

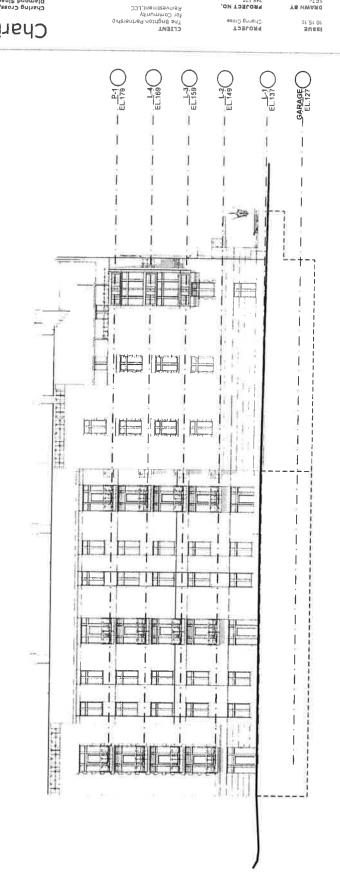
Northwest Elevation scale: 1/8"=1'-0"



The Brighton Partnership for Community Reinvestment, LLC

a Joint l'enture of

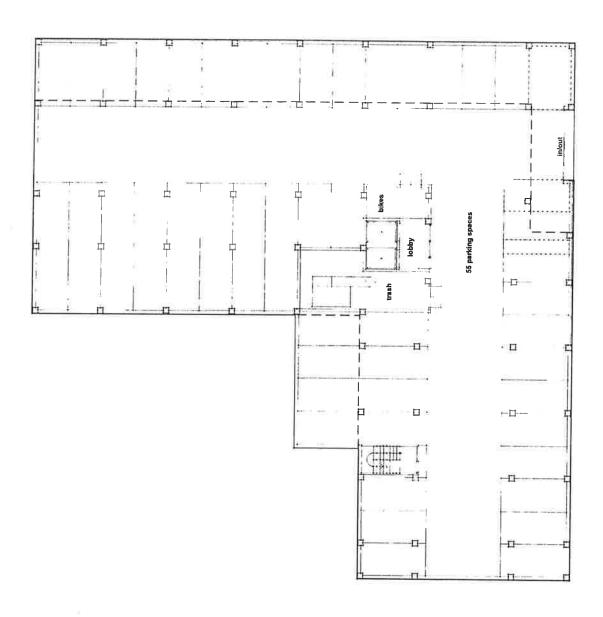
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Southwest Elevation scale: 1/8"=1'-0"

The Brighton Partnership for Community Reinvestment, LLC

Diamond Sinacori, LLC & Hart Development Associates 205 Newbury Street · Boston, Massachusetts 02116 617-369-5650 (tel) · 617-369-5652 (fax) mdiamond@diamondsinacori.com



CLIENT

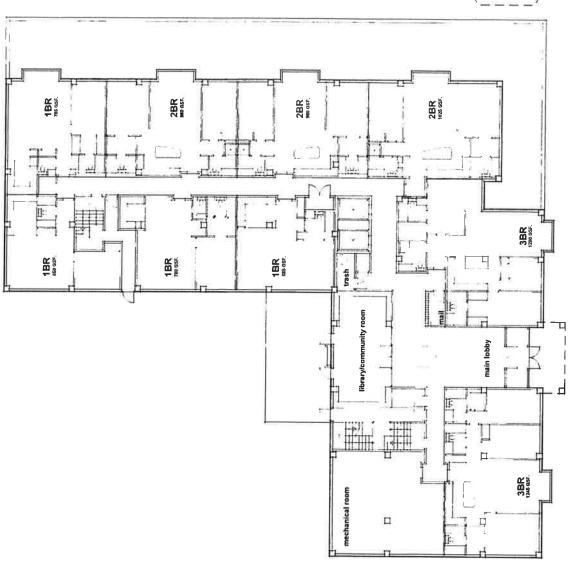
The Brighton Partnership

To Community

Commentations

Commentations

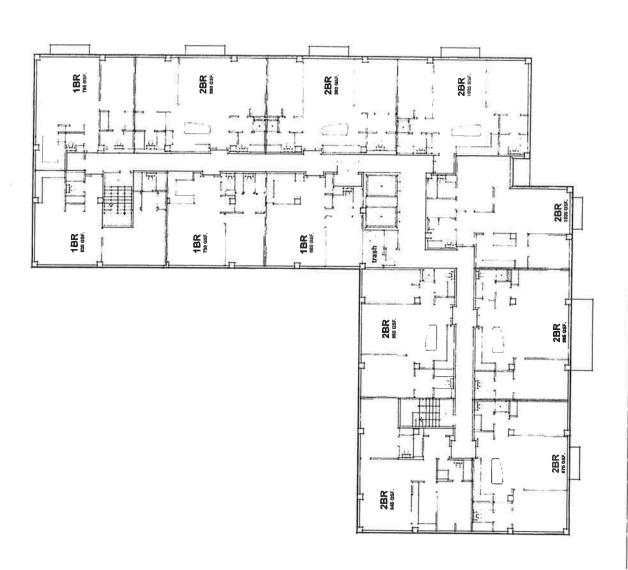




CLIENT

The Brighton Partnership
for Community
Reinvestment, LCC

Level 2



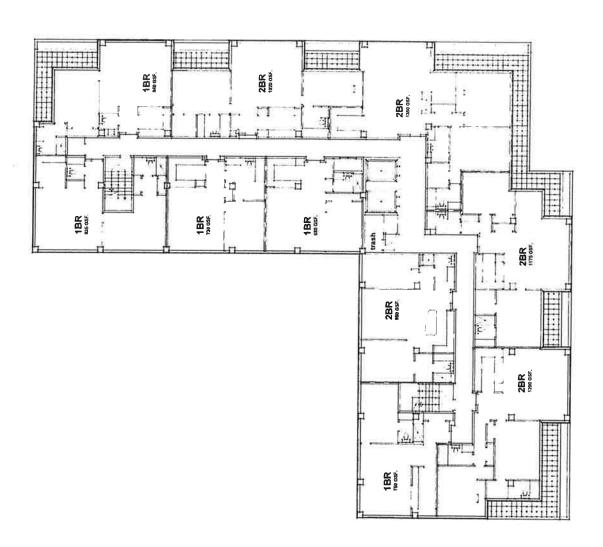
Charing Cross, a joint venture of Diamond Sinacori, LCC & Hart Development Associates

Charing Cross









CLIENT

The Brighton Parmership
for Community
Reinvestment, LCC

# 246 Walnut Street Newton, MA 02460

# **LEED Certification Checklist**

nject Name: 1501 Commonwealth Avenue nject Address: Brighton, Massachusetts

Yes ?	No		
8	3	1977. [1] 10 10 10 10 10 10 10 10 10 10 10 10 10	
60.736	Prereg 1	Construction Activity Pollution Prevention	Required
Ball Acts	Credit 1	Site Selection	1
1	Credit 2	Development Density & Community Connectivity	Î
-	1 Credit 3	Brownfield Redevelopment	į.
1	Credit 4.1	Alternative Transportation, Public Transportation Access	į
1	Credit 4.2	Alternative Transportation, Bicycle Storage & Changing Rooms	
	Credit 4.3	Alternative Transportation, Low-Emitting & Fuel-Efficient Vehicles	
11	Credit 4.4	Alternative Transportation, Parking Capacity	į
	1 Credit 5.1	Site Development, Protect of Restore Habitat	i i
	1 Credit 5.2	Site Development, Maximize Open Space	i .
1	Credit 6.1	Stormwater Design, Quantity Control	
1	Credit 6.2	Stormwater Design, Quality Control	
	Credit 7.1	Heat Island Effect, Non-Roof	
1	Credit 7 2	Heat Island Effect, Roof	į.
1	Credit 8	Light Pollution Reduction	្នុំ
Yes ?			
2	7 2		The Control of the Co
	1 1000	TO SEE A SECULO PROPERTY AND	14
F T	Credit 1.1	Water Efficient Landscaping, Reduce by 50%	
	Credit 1.2	Water Efficient Landscaping, No Potable Use or No Irrigation	
+	1 Credit 2	Innovative Wastewater Technologies	
. 1	Credit 3.1	Water Use Reduction, 20% Reduction	4
	Credit 3.2	Water Use Reduction, 30% Reduction	្នុំ
L		reaction of reading, 50% reading	
8			
E. 27	Prereq 1	Fundamental Commissioning of the Building Energy Systems	Required
33.570	Prereq 2	Minimum Energy Performance	Required
D. H.	Prereg 3	Fundamental Refrigerant Management	Required
6	Credit 1	Optimize Energy Performance	1 to 10
	T Joycum .	10.5% New Buildings or 3.5% Existing Building Renovations	1 10 10
		14% New Buildings or 7% Existing Building Renovations	
		17.5% New Buildings or 10.5% Existing Building Renovations	
		21% New Buildings or 14% Existing Building Renovations	
		24.5% New Buildings or 17.5% Existing Building Renovations	
		6 28% New Buildings or 21% Existing Building Renovations	5
		31.5% New Buildings or 24.5% Existing Building Renovations	
		35% New Buildings or 28% Existing Building Renovations	
		38.5% New Buildings or 31.5% Existing Building Renovations	
		42% New Buildings or 35% Existing Building Renovations	
2	Credit 2	On-Site Renewable Energy	
	Credit 2	2.5% Renewable Energy	1 to 3
	Credit 3	12.5% Renewable Energy	
	Credit 4	Enhanced Commissioning	
-	Credit 4	Enhanced Refrigerant Management Measurement & Verification	1
+	Credit 6	Green Power	1
		Oldell I AMEI	1

Project Name: 1501 Commonwealth Avenue Project Address: Brighton, Massachusetts

continued....

LAS	Prereq 1	Storage & Collection of Recyclables	Require
-	Credit 1.1	Building Reuse, Maintain 75% of Existing Walls, Floors & Roof	11044
	Credit 1.2	Building Reuse, Maintain 100% of Existing Walls, Floors & Roof	
	Credit 1.3	Building Reuse, Maintain 50% of Interior Non-Structural Elements	
1	Credit 2.1	Construction Waste Management, Divert 50% from Disposal	9
1	Credit 2.2	Construction Waste Management, Divert 75% from Disposal	0
	Credit 3,1	Materials Reuse, 5%	
	Credit 3.2	Materials Reuse,10%	24
	Credit 4.1	Recycled Content, 10% (post-consumer + _ pre-consumer)	
	Credit 4.2	Recycled Content, 20% (post-consumer + pre-consumer)	
	Credit 5.1	Regional Materials, 10% Extracted, Processed & Manufactured Regionally	
	Credit 5.2	Regional Materials, 20% Extracted, Processed & Manufactured Regionally	
	Credit 6	Rapidly Renewable Materials	4
	Credit 7	Certified Wood	,, ,,
0 7	No		,
	J. Commission	And the second s	
2	Prereq 1	Minimum IAQ Performance	Required
	Prereq 2	Environmental Tobacco Smoke (ETS) Control	Required
	Credit 1	Outdoor Air Delivery Monitoring	requirec
	Credit 2	Increased Ventilation	4
	Credit 3.1	Construction IAQ Management Plan, During Construction	ì
-	Credit 3.2	Construction IAQ Management Plan, Before Occupancy	1
+	Credit 4.1	Low-Emitting Materials, Adhesives & Sealants	1
+	Credit 4.2	Low-Emitting Materials, Paints & Coatings	
	Credit 4.3	Low-Emitting Materials, Carpet Systems	1
-	Credit 4.4	Low-Emitting Materials, Composite Wood & Agrifiber Products	1
	Credit 5	Indoor Chemical & Pollutant Source Control	í
	Credit 6.1	Controllability of Systems, Lighting	
	Credit 6.2	Controllability of Systems, Thermal Comfort	
	Credit 7.1	Thermal Comfort, Design	4
	Credit 7.2	Thermal Comfort, Verification	
	Credit 8.1	Daylight & Views, Daylight 75% of Spaces	
	Credit 8.2	Daylight & Views, Views for 90% of Spaces	
? !	No		
<u> </u>	100		
TT	Credit 1.1	Innovation in Design: Provide Specific Title	9
	Credit 1.2	Innovation in Design: Provide Specific Title	1
+-+	Credit 1.3		1
++	Credit 1.4	Innovation in Design: Provide Specific Title	1
+-+	Credit 1.4	Innovation in Design: Provide Specific Title	1
7 1	Loredit 2	LEED® Accredited Professional	1
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### TISE DESIGN ASSOCIATES

Planning • Architecture • Program Management

246 Walnut Street Suite 303 Newton, Massachusetts 02460 (617) 581-6601 FAX (617) 581-6611

February 17, 2012

Merrill H. Diamond
DIAMOND SINACORI, LLC
IGNITION RESIDENTIAL, LLC
231 West Canton St., Suite 1
Boston, MA 02116

# 1501 COMMONWEALTH AVENUE: CHARING CROSS - AIR QUALITY AND NOISE CONTROL STANDARDS

### 1. General

The proposed 55 unit residential structure referred to as *Charing Cross* is expected to have a minimal impact on both air quality and noise in the general neighborhood. The project locus is not directly adjacent to any residential environments, with commercial office space, Commonwealth Avenue, Brighton Marine Hospital, and permanent open space as the four direct abutters.

The 55 vehicle, single-level garage will be "enclosed" as per the requirements of the Massachusetts State Building Code, and therefore will require mechanical ventilation of the enclosed area. All necessary fans and related equipment will be within the enclosed building volume, and appropriate points of supply and exhaust air discharge will be determined in final design of the building.

Heat and hot water will be provided by a high efficiency gas boiler and DHW system located internally, and venting will be designed to meet all applicable City and Commonwealth of Massachusetts requirements for noise abatement as well as air quality standards.

Air conditioning will be by individual, high efficiency "lo-sone" condensing units mounted behind a solid parapet on the roof level and similarly will be engineered to meet all applicable City and Commonwealth of Massachusetts noise standards for adjacent properties.

Subsequent to final design, the developers should perform an engineering analysis of the air quality and ambient noise characteristics of the proposal and submit a full report to the BRA and ISD that addresses the issues prior to applying for a building permit.

The scope of this report will be as follows:

### 2. Scope of Work

The BRA air quality and noise scopes for this project require: 1) a description of the project's ventilation system for the underground garage and an analysis of the air quality impacts (carbon monoxide) of garage ventilation at sensitive receptors; 2) an evaluation of existing noise levels with sound level monitoring; and 3) an analysis of potential noise impacts from the building's exterior mechanical systems, with a demonstration of compliance with City of Boston and Massachusetts Noise Regulations at nearby sensitive locations.

### 3. Air Quality

### Garage Air Quality Analysis

Qualified engineers will analyze the worst-case air quality impacts, from the project's garage exhaust on air quality at all nearby sensitive receptors. Maximum one-hour and eight-hour CO concentrations will be calculated for receptors located near the building. The AERSCREEN model will be used for predicting the ambient air impacts. AERSCREEN will predict CO impacts and background CO concentrations, and will be compared to the NAAQS for CO at all sensitive receptors to demonstrate compliance with the NAAQS for CO.

### 4. Noise

### **Existing Ambient Noise Evaluation**

Two 30-minute noise measurements will be taken near the project site during late night hours to establish the minimum existing background sound levels at sensitive locations around the project site.

These measurements will be used to establish the existing L90 background sound levels to test compliance with the Massachusetts DEP 10 dBA allowable noise increase regulation for the exterior mechanical equipment at the proposed buildings.

### Analysis of Noise Impacts from Mechanical Equipment

An analysis will be made of the potential noise impacts from the exterior mechanical equipment for the proposed project. It will be necessary to demonstrate that the projected noise levels from the building's exterior mechanical equipment will not exceed specified City of Boston noise control criteria at the nearest residences and at the property line.

Sound impact modeling will be completed using the Cadna-A computer model, in accordance with International Standard ISO 9613.2 "Acoustics - Attenuation of Sound During Propagation Outdoors." Cadna-A is a sophisticated 3-dimensional model that accounts for sound attenuation due to building structures, atmospheric absorption and ground effects. Cadna-A will correctly simulate all relevant acoustic effects involving sound propagation, reflection and attenuation. The predicted sound level impacts will also be compared to Massachusetts DEP broadband incremental increase and tonal provisions. If necessary, conceptual noise mitigation measures will be proposed and incorporated into the modeling analysis in order to demonstrate compliance with any of the noise level limits.

# 5. Report

The results of the air quality and noise analyses will be presented in a written report. All computer modeling output, noise monitoring printouts, and other supporting information will be combined into technical appendices. The report and the technical appendices will be forwarded to the BRA and ISD as a condition of receiving a building permit for the project.

Please contact me with any questions regarding this letter.

Stephen E. Tise AIA

President



Mayor

# **Boston Inspectional Services Department Planning and Zoning Division**

1010 Massachusetts Avenue Boston, MA 02118 Telephone: (617) 635-5300

## **ZONING CODE REFUSAL**

Gary P. Moccia Inspector of Buildings

MERRILL DIAMOND 437 COLUMBUS AVENUE BOSTON, MA 02116

May 16, 2011

Location:

1501 COMMONWEALTH AV BRIGHTON, MA 02135

Ward:

2.1

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Allston / Brighton

Zoning District: Zoning Subdistrict:

MFR-1 ERT69946

Appl. #:
Date Filed:

March 29, 2011

Purpose:

Demolition of an existing two story Nursing Home. Erect a new, 5 story, masonry, Residential condominium Dwelling of Fifty-five (55) Units with an Accessory Parking Garage under. Charing

Cross Condominiums

YOUR APPLICATION REQUIRES RELIEF FROM THE BOARD OF APPEAL AS SAME WOULD BE IN VIOLATION OF THE BOSTON ZONING CODE TO WIT: CHAPTER 665, ACT'S OF 1956 AS AMENDED:

Violation	Violation Description	Violation Comments
Art. 29, Section 4 **	Greenbelt Protection Overlay District	GPOD Applicability
Art. 51 Sec. 09	Dimensional Regulations Applicable in Residential Sub	Lot Area for Additional Dwelling Units Insufficient
Art. 51 Sec. 09	Dimensional Regulations Applicable in Residential Sub	Building Height Excessive
Art. 51 Sec. 09	Dimensional Regulations Applicable in Residential Sub	Usable Open Space Insufficient
Art. 51 Sec. 09	Dimensional Regulations Applicable in Residential Sub	Front Yard Insufficient
Art. 51 Sec. 09	Dimensional Regulations Applicable in Residential Sub	Side Yard Insufficient
Art. 51 Sec. 09	Dimensional Regulations Applicable in Residential Sub	Rear Yard Insufficient
Art. 51 Sec. 56	Off street parking requirements	Off-Street Parking Insufficient
Art. 51 Sec. 56	Off street parking requirements	Off-Street Parking Design / Maneuverability

MERRILL DIAMOND 437 COLUMBUS AVENUE BOSTON, MA 02116

May 16, 2011

Location:

1501 COMMONWEALTH AV BRIGHTON, MA 02135

Ward:

21

Zoning District:

Allston / Brighton

Zoning Subdistrict: Appl. #:

MFR-1 ERT69946

Appl. #:
Date Filed:

ERT69946 March 29, 2011

Purpose:

Demolition of an existing two story Nursing Home. Erect a new, 5 story, masonry, Residential condominium Dwelling of Fifty-five (55) Units with an Accessory Parking Garage under. Charing

Cross Condominiums

THIS DECISION MAY BE APPEALED TO THE BOARD OF APPEAL WITHIN FORTY-FIVE (45) DAYS PURSUANT TO CHAPTER 665 OF THE ACTS OF 1956, AS AMENDED. APPLICATIONS NOT APPEALED WITHIN THAT TIME PERIOD WILL BE DEEMED ABANDONED. IF YOU HAVE INQUIRIES REGARDING THE NEIGHBORHOOD PROCESS AND PUBLIC PARTICIPATION, PLEASE CONTACT THE MAYOR'S OFFICE OF NEIGHBORHOOD SERVICES AT 617-635-3485.

Thomas White (617)961-3275 for the Commissioner

Refusal of a permit may be appealed to the Board of Appeal within 45 days. Chapter 802, Acts of 1972, and Chapter 656, Acts of 1956, Section 19.

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# The Brighton Partnership for Community Reinvestment, LLC

a Joint Venture of

Diamond Sinacori, LLC & Hart Development Associates
437 Columbus Avenue· Boston, Massachusetts 02116
617-369-5650 (tel) · 617-369-5652 (fax)
www.believeinbrighton.com

23 May 2011

Peter Meade, Director Boston Redevelopment Authority One City Hall Square Boston, MA 02201-1007

Re: <u>Updated Letter of Intent – 1501 Commonwealth Avenue – 'Charing Cross'</u>

Dear Mr. Meade:

Pursuant to Mayor Menino's Executive Order Regarding the Mitigation of Development Projects, we are submitting this Letter of Intent in connection with the proposed redevelopment of the former Provident Nursing Home, 1501 Commonwealth Avenue in Brighton, into a mixed-income residential complex with accessory parking. This updated Letter of Intent is being submitted in lieu of a prior letter previously submitted to the Authority on April 10, 2010.

The property is a gateway site, and it presents a unique opportunity to provide market rate and much needed affordable housing for the City. *Charing Cross* promises to be one of the best new buildings in this part of the City in the past half century, and will complement the best of Commonwealth Avenue's historic fabric.

The proposed project will contain approximately 65,000 gross square feet, 55 residential condominium units, and will include a residential parking garage. The Community Benefits package includes, among other things, streetscape improvements on Commonwealth Avenue, a donation to beautify adjacent Ringer Park, the enhancement of the computer center at the nearby Commonwealth housing development, and the creation of both construction and property management apprenticeship programs for area youths.

The Project will exceed the City's affordable housing requirements, and will require zoning relief.

We look forward to working with you and the BRA staff on this very exciting project.

Sincerely,

DR Hart

Daniel R. Hart For the Brighton Partnership for Community Reinvestment, LLC

cc: Heather Campisano, BRA
Lance Campbell, BRA
Evelyn Friedman, DND
John Feuerbach, DND
Merrill Diamond, BPCR
Nicholas Sinacori, BPCR

## Project Notification Form/Application for Small Project Review

### **Required Information for Document Preparation**

For projects undergoing review and consideration under Article 80 of the Boston Zoning Code, applicants are requested to ensure that the following information is included in its Project Notification Form or Application for Small Project review, as the case may be:

Applicant/Project Proponent The Brighton Partnership for Community Reinvestment, LLC  Developer _ The Brighton Partnership for Community Reinvestment, LLC
Contact Daniel R. Hart
Contact Daniel R. Hart
Phone No. (617) 480-4175 Fax No. (617) 507-2437_Email dhart@hartdev.com
<b>Brief Project Description:</b> Charing Cross is a an approximate 65,000 gross square foot condominium building of new construction containing 55 residential units and a residential parking garage.
Anticipated Submission Date _September 2011
Anticipated Submission Date _September 2011 Anticipated Advertisement Date (if applicable)September 2011
Proposed Project Name Charing Cross
Project Address _1501 Commonwealth Avenue, Brighton, MA
Assessor Parcel I.D01830-000Neighborhood _Brighton
Sub-Neighborhood (if applicable)
Zoning DistrictMFR-1
Urban Renewal Area ("URA") _None
Does Project Require Modification to URA?(Y/N)N If modification to URA is required, please describe modifications to be requested:
Inst. Master Plan (Y/N)N Planned Development Area (Y/N)N 121A (Y/N)N Zoning Relief Required Zoning Board of Appeals (Y/N)Y_Boston Zoning Commission (Y/N)N
Development Program
Parcel Area (Sq. Ft.) _31,320
Proposed Building Area (Sq. Ft.) 65.000
Proposed Building Height (Feet)65'Number of Floors5
Proposed Building Height (Feet) 65' Number of Floors 5 Upper Floor Use Residential
Retail Sq. Ft0 Hotel Sq. Ft0
Industrial Sq. Ft0 Institutional Sq. Ft0 R&D Sq. Ft0
Residential Sq. Ft65,000 Total Units55 Condo55 Rental
Market Units38 Affordable Units17 Studios1 bdrms _21 2bdrms32
3bdrms3
Total Parking Spaces55 Surface Structured55Below Grade
(If multiple buildings are proposed, please provide development program information for each building)

Total Development Cost (soft/hard	costs)\$18,000,000	_	
Construction Cost (hard cost)			
Public Benefits	351		
Number of Permanent Jobs Created	d (full-time equivalent)	2	
Number of Permanent Jobs Retained	ed (full-time equivalent)	2	
Number of Construction Jobs Crea	ted (full-time equivalent)	250	
Estimated Development Impact Pro			
Neighborhood Housing Trust	0 Nei	ghborhood Jobs Trust0_	
Estimated Construction StartFal	Il 2012Es	stimated Construction Completion	Fall 2013
Disclosure of Beneficial Interest in	the Project	#	
Name	Address	Percentage Interest	
Daniel R. Hart	437 Columbus Avenue		
Merrill Diamond	437 Columbus Avenue		
Nicholas Sinacori	437 Columbus Avenue		

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