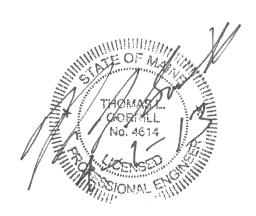
Traffic Permit Application
Request for Scoping Meeting
Service Center
2282 Congress Street
Portland, Maine

Prepared for:

C.J. Developers, Inc. 35 Primrose Lane Freeport, ME 04032

April 2013



Prepared by:



Gorrill-Palmer Consulting Engineers, Inc.

Engineering Excellence Since 1998

(207) 657-6910 Fax: (207) 657-6912 E-mail: mailbox@gorrillpalmer.com Department of Transportation Traffic Engineering Division 16 State House Station Augusta, Maine 04333 Telephone: 207-287-3775

FOR MDOT US ID#	SE .	12/99
Total Fees: Date Received:		

PERMIT APPLICATION - TRAFFIC TRAFFIC MOVEMENT PERMIT, 23 M.R.S.A. §704-A

,
Please type or print:
This application is for (check all that apply): Traffic 100-200 PCE's Traffic 200 + PCE's
Name of Applicant CJ Developers, Inc. Attn: Mr. David Latulippe
Address: 35 Primrose Lane - Freeport, Maine 04032 Telephone: (207) 865-4323
Name of local contact or agent: Thomas L. Gorrill, P.E Gorrill-Palmer Consulting Engineers, Inc.
Address: PO Box 1237 Gray, ME 04039 Telephone: (207) 657-6910
Name and type of development: Proposed Convenience Store with Fuel Pumps
Location of development including road, street, or nearest route number: <u>The site is located at 2282 Congress Street</u> opposite Blueberry Lane.
City/ Town/Plantation: Portland County: Cumberland Tax Map 237 Lot A012
Do you want a consolidated review with DEP pursuant to 23 M.R.S.A. § 704-A (7)? Yes No X Was this development started prior to obtaining a traffic permit? No
was this development started prior to obtaining a traffic permit?
Is the project located in an area designated as a growth area (as defined in M.R.S.A. title 30-A, chapter 187)? Yes No X
Is this project located within a compact area of an urban compact municipality? YesNoX
Is this development or any portion of the site currently subject to state or municipal enforcement action? No
Existing DEP or MDOT permit number (if applicable): None Known
Name(s) DOT staff person(s) contacted concerning this application: Delegated Review-City of Portland
Name(s) of DOT staff person(s) present at the scoping meeting for 200+ applicants:
·

CERTIFICATION

This person responsible for preparing this application and/o signing below, certifies that the applicant for traffic approv	or attaching por al is complete	ertinent site and traffic information hereto, by e and accurate to the best of his/her knowledge.
Signature:	Re/Cert/Lic	No.:
Name (print): Thomas L. Gorrill	Engineer:	Maine PE # 4614
Date: 4-1-13	Other:	
"I certify under penalty of law that I have personally e all attachments thereto and that, based on my inquiry of the information, I believe the information is true, accur property that is the subject of this application, at reaso on the property, to determine the accuracy of any information penalties for submitting false information, including the Signature of applicant	xamined the interpretate, and commable hours, interpretation province possibility	nformation submitted in this document and iduals immediately responsible for obtaining plete. I authorize the Department to enter the ncluding buildings, structures or conveyances ded herein. I am aware there are significant

GORRILL-PALMER CONSULTING ENGINEERS, INC.

15 SHAKER ROAD P.O. BOX 1237 GRAY, MAINE 04039 (207) 657-6910



America's Most Convenient Bank® 52-7445-2112

4/1/2013

1410

PAY TO THE ORDER OF

City of Portland

\$

**1,000.00

****** DOLLARS

City of Portland 389 Congress Street Portland, ME 04101

MEMO

2672 - TMP Application for 2282 Congress Street

AUTHORIZED SIGNATURE

"O14100" # :: 211274450:: 0/29185122"

GORRILL-PALMER CONSULTING ENGINEERS, INC.

City of Portland

4/1/2013

2672 - TMP Application for 2282 Congress Street

1,000.00

1410

Cash - Checking

2672 - TMP Application for 2282 Congress Stree

1,000.00

NOTICE OF INTENT TO FILE

Please take notice that:

C.J. Developers, Inc. 35 Primrose Lane Freeport, ME 04032 (207) 865-4323

is intending to file a MaineDOT Traffic Permit Application with the City of Portland, Maine under their delegated review authority, pursuant to the provisions of 23 M.R.S.A. $\S704-A$ on or about: April 2, 2013. (anticipated filing date)

This application is for:

A proposed 3,850 square foot convenience store with twelve fueling stations, two diesel fueling stations and an ATM. The proposed facility will be completed by the end of 2013 and generate 211 trip ends during the AM peak hour; 277 trip ends during the PM peak hour and 189 trip ends during the Saturday peak hour of the adjacent street traffic.

(Summary of project: specifying trip generation at peak hour for the proposed development and the year the project is proposed to be completed and occupied)

at the following location:

at 2282 Congress Street opposite Blueberry Road in Portland, Maine. Tax Map 237, Lot A012. (Project Location)

A request for a public hearing must be received by the City of Portland, in writing no later than 20 days after the application is found by the City to be complete and is accepted for processing. Public comment on the application will be accepted throughout the processing of the application.

The application will be filed for public inspection at the City of Portland Planning Office in Portland, Maine during normal working hours.

Written public comments may be sent to the following address: City of Portland, Planning Department, 389 Congress Street, 4th Floor, Portland, Maine 04101.

Thomas L. Gorrill, P.E., PTOE



JN 3118 - CONVENIENCE STORE, 2282 CONGRESS STREET, PORTLAND, ME

Map/Lot	Owner	Co-Owner	Address	City	State	a N
237/A012001	Hutchcourt LLC		2282 Congress Street	Portland	ME	04102
237/A004001	Maine Turnpike Authority		430 Riverside Street	Portland	ME	04103
231/A005001	Maine Turnpike Authority		430 Riverside Street	Portland	ME	04103
237/B011001	Mason Veterinary Realty LLC		2255 Congress Street	Portland	ME	04102
238A/A00500A	238A/A00500A Portland Board of Realtors		2271 Congress Street	Portland	ME	04102
238A/A005001	238A/A005001 REW Realty LLC		PO Box 3889	Portland	ME	04104
238A/A00500B	238A/A00500B REW Realty LLC		PO Box 3889	Portland	ME	04104
237/A008001	237/A008001 Twenty Three Hundred Congress Street LLC		PO Box 403	Portland	ME	04112

Section 1 Site and Traffic Information

1.A. Site Description and Site Plan

The project is located on Outer Congress Street opposite Blueberry Road in Portland, Maine. The site is identified on the City Tax Map 237, Lot A012.

A site location map has been included in Attachment 1B.

1.B. Existing and Proposed Site Uses

The site is currently undeveloped. A single driveway opposite Blueberry Road provides access to the Maine Turnpike Authority property and this site.

The site is proposed to include a 3,850 sf convenience store with 12 fueling positions, a diesel pumps with 2 fueling positions, and an ATM.

Access to the site will be provided via an improved unsignalized driveway opposite Blueberry Road.

1.C. Site and Vicinity Boundaries

A site location map showing the development area is included in Attachment 1B. The site is bound to the north by the Maine Turnpike property and Congress Street, to the south by Skyway Drive, to the east by the Maine Turnpike, and to the west by a commercial use.

1.D. Proposed uses in the Vicinity of the Proposed Development

Approved projects that are not yet opened as well as projects for which applications have been filed are required to be included in the predevelopment volumes for this project. Gorrill-Palmer Consulting Engineers, Inc. contacted the City of Portland planning department to determine whether there are any other projects that have been approved or are ahead in the approval process whose traffic should be considered as background traffic in the study for this project. Based on our conversation, it is our understanding that there are currently two active projects in this area which need to be added to our background traffic which are summarized below:

144 Hutchins Drive- This facility is forecast by others to have an average of 5 employees which will generate 5 peak hour trip ends in both the weekday AM and PM peak hours. We have added the 5 employee trip ends due during

both the AM and PM peak hours to the pre-development traffic levels in our study.

ECOMAINE has a project in the approval process, but it is our understanding from City staff that it will not result in an increase in traffic.

The veterinarian on the corner of Hutchins had an expansion approved several years ago but it is our understanding from City staff that their approval has lapsed so the project was not considered in our analysis.

1.E. Trip Generation

Gorrill-Palmer Consulting Engineers, Inc. used the Institute of Transportation Engineers (ITE) publication *Trip Generation*, 8th Edition as the source for determining the potential trip generation for the site. The 8th Edition was used because it provided a Saturday Peak Hour trip generation for the Convenience Store with fueling positions whereas the 7th Edition does not. To determine the trip generation for the Convenience Store with fueling positions we used Land Use Code 853, averaging the trip generation from fueling positions and size of store. Land Use Code 912 was used to forecast the ATM, which forecasts 10 and 28 trip ends during the AM and PM peak hours of adjacent street traffic respectively.

The trip generation calculations are included in Appendix C and are summarized as follows for the peak hour of the adjacent street traffic:

> AM Peak Hour Adj St: 211 trip ends PM Peak Hour Adj St: 277 trip ends Saturday Peak Hour: 189 trip ends

This level of trip generation requires a MaineDOT Traffic Movement Permit which has been delegated to the City of Portland. Our analyses focused on the weekday AM and PM peak hours since the traffic levels are less during a Saturday.`

1.F. Trip Distribution

Gorrill-Palmer Consulting Engineers, Inc. has obtained the ratio of entering and exiting traffic from the Institute of Transportation Engineers publication *Trip Generation*, 8th Edition (7th Edition is the same). Based on the ITE information, the trip distribution would be the following for the AM, PM, and Saturday peak hours:

Weekday AM peak hour 50% entering, 50% exiting Weekday PM peak hour 50% entering, 50% exiting

2

1.G. Trip Composition and Assignment

Gorrill-Palmer Consulting Engineers, Inc. has estimated trip composition for the facility based on the ITE *Trip Generation Handbook*. For LUC 853 – Convenience Market with Gasoline Pumps the trip composition would be the following:

Weekday AM - 12% Primary, 25% Diverted, 63% Pass-By Weekday PM - 16% Primary, 18% Diverted, 66% Pass-By

For the purpose of this project, we combined the Primary and Diverted and rounded to the following, which is conservative since it increases the primary trips and reduces the pass-by trips:

Weekday AM / PM - 40% Primary / Diverted, 60% Pass-By

For LUC 912-Drive-In Bank, the shared trips are forecast to be 50% with the convenience store. Thus, trips at the driveway would be 5 and 14 during the AM and PM peak hours respectively with 50% being pass-by and 50% being a combination of pass-by and diverted trips.

The total trip distribution is summarized on the following table:

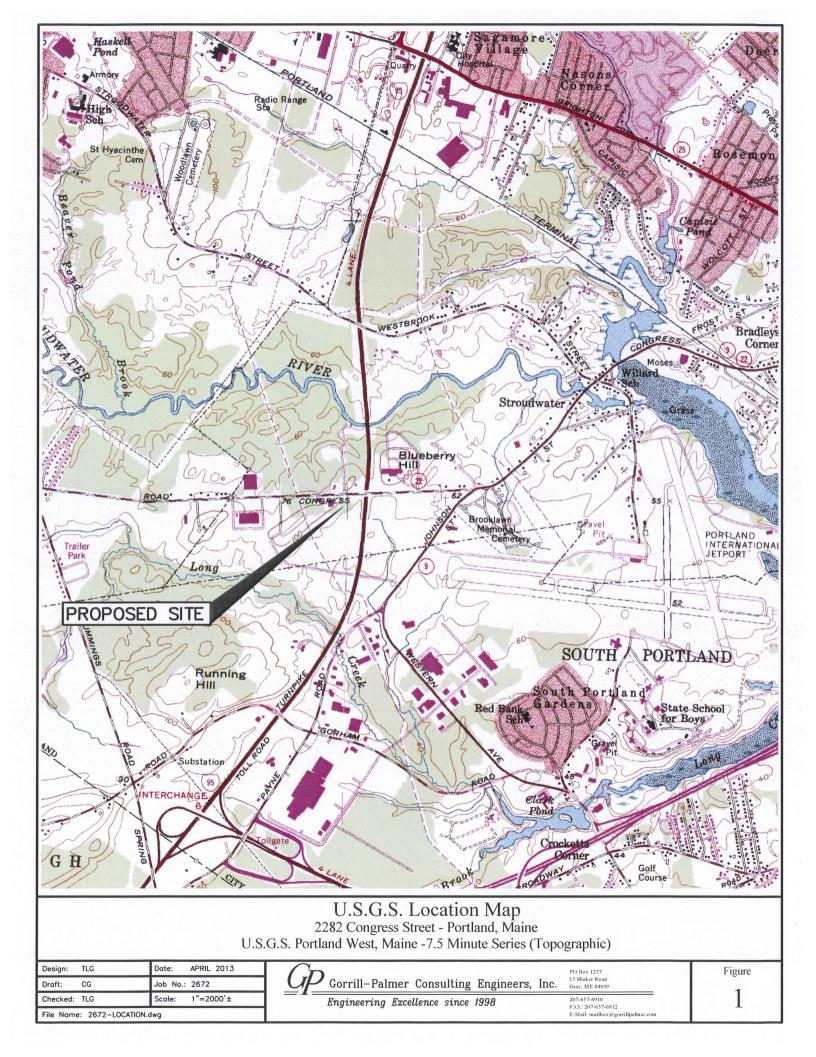
Proposed Trip Composition

The Trans	Ente	Entering		Exiting		Total	
Trip Type	AM	PM	AM	PM	AM	PM	
Primary /	42	54	41	53	83	107	
Diverted							
Pass-By	62	77	61	78	123	155	
Total	104	131	102	132	206	263	

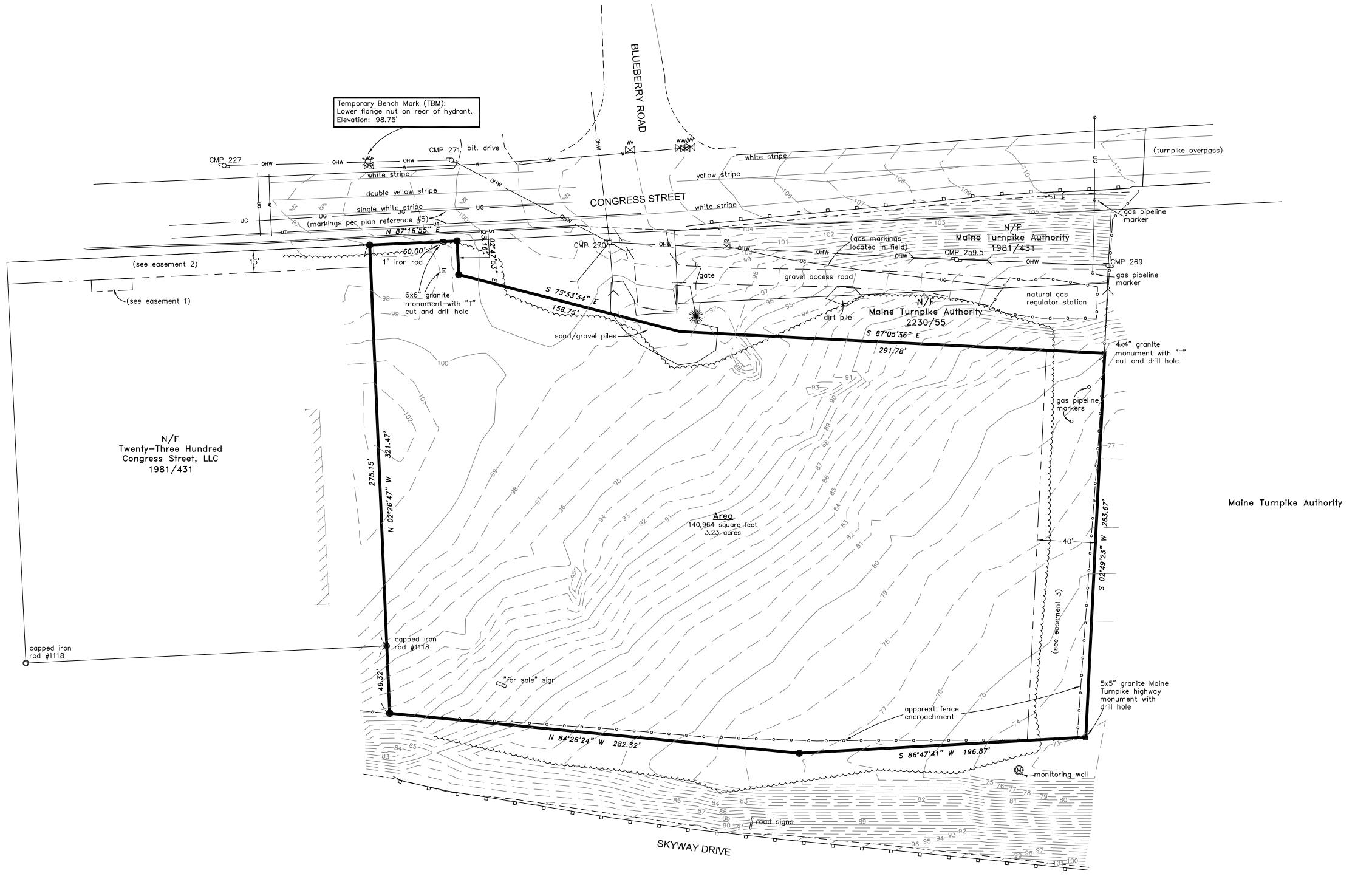
The trip assignment percentages are based on existing traffic patterns as derived from the turning movement counts and are included in Appendix A of Section 7, the Traffic Impact Study.

1.H. Attachments

Attachment 1A – Site Survey, Proposed Site Plan Attachment 1B – Site Location Map







N/F City of Portland 21040/64

<u>CERTIFICATION</u>

This survey conforms to the current standards of practice set forth by the Maine State Board of Licensure for Land Surveyors.

Rex J. Croteau, P.L.S. #2273



<u>LEGEND</u> Monument — found lron marker — found Iron marker — to be set (#5 rebar) Property line (locus) Property line (abutter) —— — — Easement line Water valve Fire hydrant Overhead utility line ----- w ----- Underground water line — Underground gas line — Underground telephone line Contours (1ft) Contours (5ft) Now or formerly of 1234/567 Deed reference (Book/Page) Tree line Coniferous tree

NOTES

 Book and Page references are to the Cumberland County Registry of Deeds, unless otherwise noted.

2) Bearings are referenced to grid north, Maine State Plane Coordinate System, NAD83, West Zone.

3) Elevations are based on NGVD 1929. Benchmark is a flange bolt on a fire hydrant. Elev: 98.75'.

Existing building

4) Utility information on this plan is approximate, based on location of visible features and information contained on plans and drawings provided by others. DigSafe and/or the appropriate utilities should be contacted prior to any construction.

5) Property lies within Zone X based on FIRM Community #230051 Panel #12—C, dated Dec. 8, 1998. It does not lie within a special flood hazard area.

6) Project area was covered by snow and ice at the time of the survey and some features may have been obscured and not shown on this plan.

PLAN REFERENCES

1) Maine Turnpike Authority plan of Section 1 — Kittery to Portland, Supplemental Sheet No. 2, made by Howard, Needles, Tammen & Bergendoff, dated August 1947.

2) Maine Turnpike Authority plan of Section 1 — Kittery to Portland, Congress Street Property Plan Supplemental Sheet No. 11, made by Howard, Needles, Tammen & Bergendoff, dated July 1954, recorded in Plan Book 41, Page 66.

3) Maine Turnpike Authority plan of Property and Right of Way Plans Section 1 — Kittery to Portland, Jetport Interchange Project drawing number ROW01, ROW02, ROW04 and ROW05, dated February 1997.

4) Maine Turnpike Authority plan of Property and Right of Way Plans Section 1 — Kittery to Portland, Jetport Interchange Project drawing number Supplemental 101 and Supplemental 102.

5) Standard Boundary & Topographic Survey made for Hutchcourt, L.L.C. by OEST Associates, Inc. dated March 1999 and revised through September 2, 1999, recorded in Plan Book 199, Page 412.

EASEMENTS OF RECORD

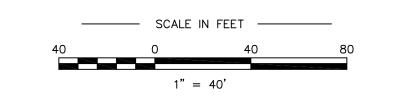
1) Sewer easement conveyed to Hutchcourt, L.L.C. by Robert E. Baldacci, Jr. in Book 15032, Page 299.

2) Sewer line easement reserved by Harry A. Harmon and George M. Hutchins in Book 3426, Page 278.

3) Utility easement conveyed to Northern Utilities, Inc. by Harry A. Harmon and George M. Hutchins.

OWNERS OF RECORD

Hutchcourt, L.L.C. Book 15017, Page 281



PLAN OF Boundary Survey

2282 Congress Street

2 Main Street

FILE #9642

MADE FOR

Priority Group, LLC

Topsham, Maine

JOB #213008 DATE: Mar. 13, 2013

BOOK #838

CP/2013/213008

DATE: Mar. 13, 2013

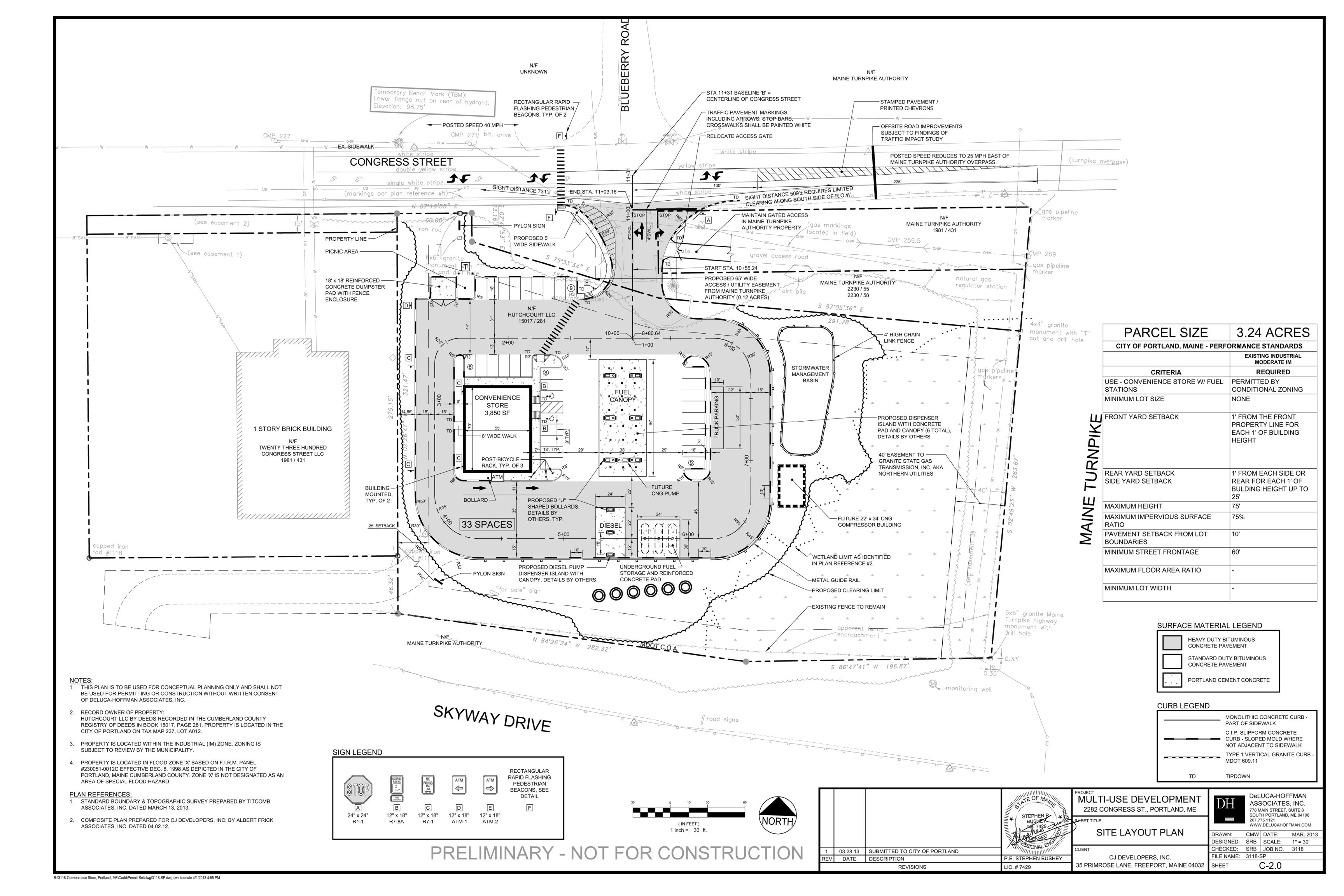
Titcom

Titcomb Associates

133 Gray Road
Falmouth, Maine 04105 (207)797-9199

SCALE: 1" = 40'

Portland, Maine



Section 2 Traffic Crashes

2.A. Crash Summary Data

Gorrill-Palmer Consulting Engineers, Inc. obtained the crash data from MaineDOT for the period of 2009-2011, the most recent period available.

In order to evaluate whether a location has a crash problem, MaineDOT uses two criteria to define High Crash Location (HCL). Both criteria must be met in order to be classified as an HCL.

- 1. A critical rate factor of 1.00 or more for a three-year period. (A Critical Rate Factor {CRF} compares the actual crash rate to the rate for similar intersection in the state. A CRF of less that 1.00 indicates a rate of less than average) and:
- 2. A minimum of eight crashes over a three-year period.

Based on the available data, there are no High Crash Locations within the study area.

2.B. Attachments

See Appendix C of Section 7-Traffic Impact Study – MaineDOT Collision Data

Section 3 Development Entrances and Exits

3.A. Entrance and Exit Locations

Access to the site will be provided via a single unsignalized driveway on Congress Street opposite Blueberry Road. The Maine Department of Transportation has guidelines for sight distances as follows:

MaineDOT Standards for Sight Distance

Posted Speed (mph)	Sight Distance
25	200
30	250
35	305
40	360

The MaineDOT standards are as follows:

Driveway observation point:

10 feet off major street

travelway

Height of eye at driveway:

3 ½ feet above ground

Height of approaching vehicle:

4 1/4 feet above road surface

Gorrill-Palmer has reviewed the sight lines at the driveway proposed opposite Blueberry Road. The posted speed limit on Congress Street fronting the site is 40 mph, and is reduced to 35 mph 275 feet to the east of the site. The available sight lines exiting the driveway are over 750 feet looking to the left and 490 feet looking to the right to the overpass with the clearing of some vegetation along the site frontage. Thus, sight lines exceed standards at the proposed driveway location.

3.B. Plan View

Attachment 1A of Section 1, the proposed site and survey plans include the following information:

- > Names of intersecting roads
- > Location of the driveways in the vicinity of the development site.

Section 4 Title, Right or Interest

4.A. Evidence of Title, Right or Interest

Evidence of Purchase and Sale agreement is included in Attachment 4A

4.B. Attachments

Attachment 4A – Purchase and Sale Agreement

OPTION AGREEMENT

THIS OPTION AGREEMENT ("Agreement") is made and entered into this 15-16 day of Lack., 2012, by and between Hutchcourt, L.L.C., a New Hampshire limited liability company, with a mailing address of 1000 Market St. Building 1, Portsmouth, NH, 03801 as optionor (hereinafter referred to as "Optionor"), and CJ Developers, Inc., a Maine corporation, with a mailing address 35 Primrose Lane, Freeport, Maine 04032, as optionee (hereinafter referred to as "Optionee").

WITNESSETH:

WHEREAS, Optioner is the owner of that certain parcel of real property situate, lying and being in Cumberland County, Maine, containing approximately 3.232 acres of land, located at 2282 Congress Street, Portland, Maine being depicted as Tax Map 237, Lot 12 (the "Real Property"); and

WHEREAS, the Optionee desires to obtain an option to purchase the Real Property; and

WHEREAS, the Optionor is willing to grant to the Optionee the option to purchase the Real Property pursuant to the stipulations, agreements, conditions and covenants contained and set forth herein.

NOW, THEREFORE, in consideration of the Real Property, the payment by the Optionee of an option fee in the amount of and No/100 (Document). Dollars (the "Option Fee") to Malone Commercial Brokers (the "Escrow Agent"), whose address is 5 Moulton Street, Portland, Maine 04101, which Option Fee shall be paid to the Escrow Agent") within three business days after the Effective Date, as defined hereinbelow, and for other good and valuable considerations, the receipt and sufficiency of which considerations is hereby absolutely and unconditionally acknowledged by the parties, the parties hereby agree as follows.

- 1. GRANT OF OPTION Optionor hereby grants to Optionee the exclusive and irrevocable option to purchase the Real Property (the "Option") on the terms and conditions contained in this Agreement.
- 2. TERM OF OPTION. EXPIRATION OF OPTION AND EXTENSION OFOPTION; DEPOSIT The Option shall remain in full force and effect during the period (the "Option Period") commencing on the Effective Date and expiring on that date which is the Option Period for an additional days by furnishing written notice to the Option (the "Option Extension Notice") on or before 6:00 PM (Portland, Maine time) on that date which is the third business day next following the expiration of the Option Period. The Option Extension Notice shall be accompanied with an additional deposit in the amount of and and Dollars (the "Additional Option Fee") payable to the Escrow Agent. Upon such timely payment of the

Additional Option Fee, the Option Fee and the Additional Option Fee shall become non-refundable. The term "Effective Date" when used herein means that date on which the last one of the Optionor and the Optionee executes this Agreement and furnishes an unaltered counterpart hereof to the other party.

- 3. NOTICE OF EXERCISE The Option shall be exercisable by Optionee by firmishing written notice (the "Closing Notice") to the Optioner and to the Escrow Agent of the election of the Optionee to exercise the Option, which Closing Notice, if furnished, must be furnished prior to the expiration of the Option Period.
- 4. **EXERCISE** If, and only in the event that Optionee exercises this Option by timely furnishing the Closing Notice, the following provisions shall be applicable:
- a. <u>Purchase Price</u> Subject to any adjustments and prorations hereinafter described, the purchase price for the Real Property (the "Purchase Price") shall be stated as a bank which maintains an office in Portland, Maine) or by bank wire transfer at the closing (the "Closing") of the purchase and sale of the Real Property pursuant to this Agreement. The Option Fee and the Additional Option Fee (if ever paid) shall be credited against the Purchase Price at the Closing.
- b. <u>Title and Condition of Real Property</u> Optionor shall convey the fee simple title to the Real Property to Optionee at the Closing by Quitclaim Deed (the "Deed") with good marketable title, free of clear of all liens, encumbrances, and mortgages, but subject, however, to certain restrictions of record and to an express prohibition against use of the Real Property for a conference center, hotel or hotel related purposes, which restrictions are a specifically-negotiated consideration for and a material inducement for the execution and delivery of this Agreement by the Optionor and a will be set forth in the Deed, will run with the Real Property in perpetuity, and will be expressed in language set forth in the Deed as follows, to-wit:

"The Grantee and the successors and assigns of the Grantee (collectively the "Grantee"), hereby covenant and agree that no part of the Real Property will be developed as a hotel; nor shall any part of the Real Property be incorporated into or form any part of any site plan for development of the Real Property which includes a hotel; nor shall any unit constructed upon the Real Property be used for the purpose of providing sleeping or housekeeping accommodations to transient guests for periods of less than sixty (60) days whether or not arrangements for occupants of any unit constructed upon the Real Property are negotiated by the Grantee, pursuant to contracts or other arrangements with a term in excess of sixty (60) days, or whether or not the occupancy by a particular individual is pursuant to a contract or other arrangement for the occupancy of units constructed upon the Real Property by numerous individuals; it being specifically understood and agreed that these restrictions prohibit the construction, maintenance, management, operation or establishment upon the Real Property, or any portion thereof, by the Grantee or its successors or assigns or any other person or entity whomsoever (including, without limitation, tenants or licensees or invitees) of: (a) any building

containing sleeping rooms in which transient guests are lodged whether or not provision is made for cooking in any individual room or suite and whether or not any dining rooms, restaurants, cases or accessory uses are provided and whether or not such sleeping rooms are advertised or held out to the public as a place regularly rented to any patron, customer, tenant, lodger, boarder, or occupant, and/or (b) any hotel, public lodging establishment or other unit, group of units, dwelling, building or group of buildings within a single complex of buildings, which is rented to guests for periods of less than sixty (60) days or which is advertised or held out to the public as a place regularly rented to any patron, customer, tenant, lodger, boarder, or occupant. The Grantee, and the successors and assigns of the Grantee, hereby agree to pay all costs, charges and expenses, including the reasonable attorneys' fees at all trial and appellate levels, of the Grantor, and the successors and assigns of the Grantor (collectively the "Grantor"), in the event that the Grantor prevails in the enforcement of these restrictive covenants."

Full possession of the Real Property free of all tenants and occupants and not in violation of any applicable environmental law or regulation is to be delivered at the Closing. Optionor shall not construct any substantial improvements on or materially alter the Real Property during the pendency of this Agreement. In the event that Optionor is unable to convey title to the Real Property as aforesaid, Optionor shall be given a reasonable period of time, not to exceed sixty (60) days, after receipt of written notice of any such defects from Optionee, to remedy any title defects, falling which, this Agreement shall automatically terminate upon the expiration of the aforesaid sixty-day period unless the parties agree otherwise, in writing; provided, however, that Optionee may elect to close without any adjustment in the Purchase Price notwithstanding such title defects as may exist. Optionor agrees to use commercially-reasonable efforts to cure any such title defects.

- c. No Representations Without limiting Optionor's obligations to deliver the Real Property as provided herein, the Optionor has made no representations, covenants, or warranties as to the physical condition of the Real Property. Optionee acknowledges that it is not relying upon any representations, covenants or warranties whatsoever of Optionor. Optionor agrees to provide Optionee full access to the Real Property during the Option Period for the purpose of making any investigation that it deems necessary to determine whether it wishes to exercise the Option. Optionee, at Optionee's expense, shall restore the Real Property to substantially its prior condition following any disturbance caused by any such investigation. Optionee agrees to indemnify and hold harmless Optionor from the claims of any person for any an all damage or injury to persons or to the Real Property caused by Optionee's investigations or the conduct thereof.
- d. <u>Closing</u> The Closing shall take place at the office of Optionee's lender's counsel or at such other place as the Optionee and Optionor may mutually agree, in writing, forty five (45) days after the date of the Closing Notice if timely furnished. Documents to be provided by Optionor to Optionee at the Closing shall include the Deed and such other documents as the Optionee's lender and the title company insuring the title may reasonably request, including, without limitation, a Mechanic's Lien and Persons in Possession Affidavit, a Taxpayer Information (1099S) Form, an Affidavit of Non-Foreign

Status, a settlement statement, and such other documents as may reasonably be required by the closing agent. It is agreed that time is of the essence with respect to all of the terms and conditions of this Agreement. Notwithstanding the references herein to the Optionee's lender, it is specifically understood and agreed that the payment of the Purchase Price by the Optionee is, as between the Optionor and the Optionee, an all-cash transaction not subject in any manner whatsoever to the creditworthiness of the Optionee and/or to the ability or inability of the Optionee to borrow any portion whatsoever of the Purchase Price form any person or entity whomsoever.

e. Adjustments, Prorations and Closing Costs

- (i) Real estate taxes and assessments shall be prorated as of the adte of Closing on the basis of the latest available tax bill.
- (ii) The Maine real estate transfer tax shall be paid by Optionor and Optionee in accordance with 36 M.R.S.A. 4641-A.
- (iii) The recording fee for the Deed and any expenses related to any mortgage that Optionee may grant to a lender in connection with the purchase of the Real Property shall be paid for by the Optionee.
- f. Brokerage Optionor and Optionee each represents and warrants to the other that they have not dealt with any real estate broker, agent or salesperson in connection with this transaction other than Joe Malone of Malone Commercial Brokers, of Portland, Maine (the "Broker"), whose fees shall be paid by the Optionor, payable pursuant to a separate agreement which stipulates that such fees shall be payable to the Broker only if the Closing occurs in accordance with the terms hereof. Optionor and Optionee each hereby agrees to indemnify and hold the other hamless from any breach of its warranty and representation set forth in this subsection f which warranty and representation shall survive the Closing.
- 5. <u>CANCELLATION</u> Notwithstanding anything contained herein to the contrary, Optionee shall have the right, at any time prior to the expiration of the Option Period (as it may be extended pursuant to the terms hereof) to cancel this Agreement by written notice to Optionor (the "Cancellation Notice"), and upon the sending of a Cancellation Notice, this Agreement shall be of no further force and effect, without recourse to the parties hereto except with respect to the obligations of the Optionee pursuant to Section 4 c., if applicable. Should the Cancellation Notice be sent prior to the payment of the Additional Option Fee, the Option Fee (if paid) shall be promptly returned to the Optionee.
- 6. <u>CONFIDENTIALITY</u> Optionor and Optionee each hereby covenants and agrees to use commercially-reasonable efforts to preserve the confidentiality of the transaction contemplated by this Agreement, to prevent disclosure of the existence of this Agreement, the price and other terms of the transaction set forth in this Agreement, to any party other than to its respective stockholders, officers, directors, members, managers, employees, attorneys, auditors, lenders, financial advisors and accountants, who shall agree to hold such information as proprietary and confidential and not to be

disclosed to others, except: (i) as may be approved in writing in advance by the other party in each instance; (ii) such reports as may be required by applicable statute (as for instance in the case of such reports relating to Oil and Hazardous Materials); (iii) as may be ordered by a court of competent jurisdiction; or (iv) the disclosure of any such information to any prospective assignee of the Optionee.

During the Option Period and so long as this Agreement is in full force and effect, Optionor covenants and agrees to take the Real Property off the market and not to offer the Real Property for sale or lease to any other person or entity, nor to accept, invite, or respond to offers for the purchase or leasing of the Real Property. Accordingly, during the Option Period and so long as this Agreement is in full force and effect, Optionor shall forward any inquiry or offer with respect to the Real Property to Optionee.

7. MISCELLANEOUS

- a. <u>Time</u> Time is of the essence hereof.
- b. <u>Notices</u> All notices, demand and other communications hereunder shall be in writing and sent by hand delivery, by certified or registered mail, or by Federal Express or equivalent overnight courier, addressed to other party at the address set forth above, or at such other address as the other party shall have provided notice of according to this provision. Any such notice shall be deemed to have been given upon the date of actual receipt or upon the first refusal of the addressee to accept delivery.
- In the event of breach or failure of performance by Optionor of any of its obligations hereunder, and Optionor's failure to cure such breach or failure within ten (10) business days after receiving notice thereof from Optionee, the Optionee may elect as its sole remedies for such breach of failure of performance to: (i) waive said Default, or (ii) terminate this Agreement and demand and obtain the return of the Option Fee (and the Additional Option Fee, if applicable), and the obligations of the parties hereunder shall terminate forthwith, or (iii) seek all remedies available under this Agreement and/or at law or in equity, including, without limitation, specific performance of this Agreement, and/or recourse for any and all of its losses, expenses, costs, and claims of same, including without limitation, reasonable attorneys fees and costs. In the event of breach or failure of performance by Optionee of any of its obligations hereunder and Optionee's failure to cure such breach or failure within ten (10) business days after receiving notice thereof from Optionor, the Optionor may elect as its sole remedies for such breach of failure of performance to may (i) terminate this Agreement by written notice to Optionee or (ii) seek all remedies available under this Agreement and/or at law or in equity, including, without limitation, specific performance of this Agreement, and/or recourse for any and all of its losses, expenses, costs, and claims of same, including without limitation, reasonable attorneys fees and costs.
- d. <u>Assignment</u> Optionee's rights under this Agreement may not be assigned to another party without written consent of the Optionor which consent shall not

be unreasonably withheld. Optionee may, following exercise of the Option, designate a nominee to take title to the Real Property at the Closing.

- e. <u>Entire Agreement</u> This Agreement constitutes the entire agreement between Optionor and Optionee and there are no agreements or understandings between the parties except as set forth herein.
- f. Binding Effect This Agreement will inure to the benefit of and bind the respective successors and assigns of Optionor and Optionee.
- g. <u>Construction</u> As used in this Agreement, the singular number shall include the plural, the plural the singular, and the use of one gender shall be deemed applicable to all genders. This Agreement shall be governed by and construed in accordance with the laws of Maine.
- h. Partial Invalidity If any term, covenant or condition of this Agreement, or the application thereof to any person or circumstance, shall be determined to be unenforceable by a court of competent jurisdiction (the "Offending Provision"), then the remainder of this Agreement, or the application of such term, covenant or condition to persons, entities or circumstances other than those as to which its is invalid or unenforceable, shall not be affected thereby and each term, covenant and condition of this Agreement shall be valid and enforced to the fullest extent permitted by law; provided, however, that the parties affected by the Offending Provision shall endeavor in good faith, within sixty (60) days after the date such determination is made, to agree upon alternative provisions which shall have the same practical effect as the Offending Provision and upon any agreement being reached, the new provision shall be incorporated into and form a part of this Agreement.
- i. <u>Non-Waiver</u> The parties acknowledge and agree that their waiver of any default under the terms of this Agreement at any time on certain circumstances shall not be construed or deemed to be a waiver of any subsequent or other default occurring either before or after the waived default, and that such parties shall be entitled to enforce their rights in the event of default regardless of any prior waivers thereof.
- j. <u>Modification and Amendment</u> This Agreement may only be amended, altered or modified by a written instrument signed by each of the parties.
- k. <u>Attorneys' Fees</u> In the event that any party is required to engage the services of legal counsel to enforce rights under this Agreement, the prevailing party shall be entitled to reasonable attorney's fees from non-prevailing parties. In the event of litigation, said attorney's fees shall include fees and costs, both at trial and on appeal.
- 1. <u>Execution of Additional Instruments</u> Each party hereby agrees to execute such other or further instruments of whatsoever kind or nature necessary to comply with any applicable laws, rules or regulations or to comply with the stipulations, agreements conditions and covenants contained and set forth in this Agreement.

- m. Third Parties None of the provisions of this Agreement shall be for the benefit of or enforceable by any third party.
- n. Recordation Upon the payment of the Option Fee, the Optionee shall have and is hereby granted the right to record a memorandum of this Agreement in all applicable public records in order to place third parties on notice of the rights, interests and options of the Optionee contained and set forth herein and the Optionor agrees to fully cooperate with the Optionee in connection therewith including the agreement of the Optionor to execute a memorandum of this Agreement in recordable form (without the payment to the Optionor of additional consideration therefor) which memorandum shall provide, on its face, that the Optionor may record an affidavit executed by the Optionor which states, if true: (a) that the Optionor fully complied with the stipulations, agreements, conditions and covenants contained and set forth in this Agreement, and (b) notwithstanding such performance by the Optionor, the Optionee failed to purchase the Real Property on or before the date of Closing. It is specifically understood and agreed that the mere recordation of such affidavit by the Optionor shall, as to third parties, render this Agreement null and void and of no further force and effect whatsoever.
- o. <u>Counterparts</u> This Agreement may be executed in counterparts, each of which shall be deemed an original but all of which shall constitute one and the same instrument. Counterparts of this Agreement with facsimile or electronic signatures shall be deemed original counterparts for all purposes; however, each party shall promptly furnish counterparts with original signatures upon request.

IN WITNESS WHEREOF, Optionor and Optionee have executed this Agreement as of the Effective Date of 3-19-12.

Intelegral

Optionee :

CJ Developers, Inc.

By:

Optionor:

Hutchcourt, L.L.C.

By:

riduals. Als

Howash

Section 5 Public or Private Right-of-Way

5.A. Public or Private Rights-of-Way

Access to the site will be provided via only one driveway located opposite Blueberry Road. The Developer has obtained an easement from the Maine Turnpike Authority for access across the land fronting the development property.

C-Store w/ Fuel

Portland, Maine

Section 6 Schedule

G	A.	So	h	Δ	A	w 11	The same	Δ
v.	-A	- O(U	u	u	8	C

The applicant proposes completion of the project by end of 2013.

Traffic Impact Study

Service Center at 2282 Congress Street Portland, Maine

Prepared for: C.J. Developers, Inc. 35 Primrose Lane Freeport, ME 04032

April 2013



Prepared by:



Gorrill-Palmer Consulting Engineers, Inc.

Traffic Impact Study CJ Developers, Inc. Portland, Maine

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II.	Background Traffic Conditions	2
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Appendix A

Site Location Map Traffic Count Data Sheets Turning Movement Diagrams

Appendix B

Capacity and Queuing Analyses Results

Appendix C

MaineDOT Crash Data Trip Generation Calculations Lane Warrant Sheet

Executive Summary

The following Executive Summary is prepared for the reader's convenience, but is not intended to be a substitute for reading the full report.

Gorrill-Palmer Consulting Engineers, Inc. has been retained by CJ Developers, Inc. to prepare this traffic impact study for a proposed development in Portland, Maine. The site is located on Congress Street opposite Blueberry Road and is currently undeveloped. The proposed development includes a convenience store with 12 regular fueling positions, 2 diesel fueling positions and an ATM. Access to the site will be via a driveway opposite Blueberry Road. The project is anticipated to be completed by the end of 2013.

The following is a summary of the findings and conclusions of the study:

- 1. The proposed development is forecast to generate 211, 277, and 189 trip ends for the weekday AM and PM, and Saturday peak hours of adjacent street traffic, respectively. (Note: A trip end is either a trip in or out of the site. Therefore a single customer making a round trip would equal two trip ends). The project will require a MaineDOT Traffic Movement Permit since it generates over 99 trip ends during a peak hour. The MaineDOT has delegated their permit process to the City.
- 2. The capacity analyses show the site traffic can be accommodated with the restriping of Congress Street in the immediate area of the site to accommodate a short left turn lane into the site.
- 3. Gorrill-Palmer Consulting Engineers, Inc. obtained the latest three year crash history (2009-2011) from MaineDOT to identify if there were High Crash Locations (HCL's) within the immediate area. Based on this information, there are no high crash locations.
- 4. The sight lines at the proposed driveway exceeds MaineDOT requirements. Gorrill-Palmer Consulting Engineers, Inc. recommends that all plantings, which will be located within the right-of-way, not exceed three feet in height and be maintained at or below that height. Signage should not interfere with sight lines. In addition, we recommend that during construction, when heavy equipment is entering and exiting into the site, that appropriate measures, such as signage and flag persons, be utilized in accordance with the Manual on Uniform Traffic Control Devices.

Based on these findings, it is the opinion of Gorrill-Palmer Consulting Engineers, Inc. that the adjacent street system can accommodate the traffic generated by the site with the recommended improvements.

I. Existing and Proposed Site

The project is located on Outer Congress Street opposite Blueberry Road in Portland, Maine. The site is identified on the City Tax Map 237, Lot A012. A site location map has been included in Appendix A.

The site is currently undeveloped. A single driveway opposite Blueberry Road provides access to the Maine Turnpike Authority property and this site. The site is proposed to include a 3,850 sf convenience store with 12 fueling positions, a diesel pumps with 2 fueling positions and one ATM.

Access to the site will be provided via an improved un-signalized driveway opposite Blueberry Road. A site location map showing the development area is included in Appendix A. The site is bound to the north by the Maine Turnpike property and Congress Street, to the south by Skyway Drive, to the east by the Maine Turnpike, and to the west by a commercial use.

II. Background Traffic Conditions

Gorrill-Palmer Consulting Engineers, Inc. based this study on the following information:

- A site plan prepared by DeLuca-Hoffman Associates, Inc..
- ➤ High Crash Listings for 2009-2011 provided by the Maine Department of Transportation.
- > Turning movement counts completed by our office in July 2012 and March 2013.

Predevelopment Traffic Volumes

Seasonal Adjustment

The MaineDOT utilizes highway classifications of I, II, or III for state and local roadways. Type I roadways are defined as urban roadways, or those roads that typically see commuter traffic and experience little fluctuation from week to week throughout the year. Type II roadways, or arterial roadways are those that see a combination of commuter and recreational traffic and therefore experience moderate fluctuations during the year. Type III roadways, or recreational roadways are typically used for recreational purposes and experience dramatic seasonal fluctuation. Congress Street is classified as a Group I roadway and since the counts were collected in July, no seasonal adjustment is necessary.

Annual Growth

The proposed development is anticipated to be fully operational by the end of 2013. Traffic volumes in the Portland area and on Congress Street have not increased in recent years, therefore no adjustment for annual growth was made.

Other Development

Approved projects that are not yet opened as well as projects for which applications have been filed are required to be included in the predevelopment volumes for this project. Gorrill-Palmer Consulting Engineers, Inc. contacted the City of Portland planning department to determine whether there are any other projects that have been approved or are ahead in the approval process whose traffic should be considered as background traffic in the study for this project. Based on our conversation, it is our understanding that there are currently two active projects in this area which need to be added to our background traffic which are summarized below:

144 Hutchins Drive- This facility is forecast by others to have an average of 5 employees which will generate 5 peak hour trip ends in both the weekday AM and PM peak hours. We have added the 5 employee trip ends due during both the AM and PM peak hours to the pre-development traffic levels in our study.

ECOMAINE has a project in the approval process, but it is our understanding from City staff that it will not result in an increase in traffic.

The veterinarian on the corner of Hutchins had an expansion approved several years ago but it is our understanding from City staff that their approval has lapsed so the project was not considered in our analysis.

III. Trip Generation

Gorrill-Palmer Consulting Engineers, Inc. used the Institute of Transportation Engineers (ITE) publication *Trip Generation*, 8th Edition as the source for determining the potential trip generation for the site. The 8th Edition was used because it provided a Saturday Peak Hour trip generation for the Convenience Store with fueling positions whereas the 7th Edition does not. To determine the trip generation for the Convenience Store with fueling positions we used Land Use Code 853, averaging the trip generation from fueling positions and size of store. Land Use Code 912 was used to forecast the ATM, which forecasts 10 and 28 trip ends during the AM and PM peak hours of adjacent street traffic respectively.

The trip generation calculations are included in Appendix C and are summarized as follows for the peak hour of the adjacent street traffic:

AM Peak Hour Adj St: 211 trip ends PM Peak Hour Adj St: 277 trip ends Saturday Peak Hour: 189 trip ends

This level of trip generation requires a MaineDOT Traffic Movement Permit which has been delegated to the City of Portland. Our analyses focused on the weekday AM and PM peak hours since the traffic levels are less during a Saturday.

IV. Trip Distribution

Gorrill-Palmer Consulting Engineers, Inc. has obtained the ratio of entering and exiting traffic from the Institute of Transportation Engineers publication *Trip Generation*, 8th Edition (7th Edition is the same). Based on the ITE information, the trip distribution would be the following for the AM, PM, and Saturday peak hours:

Weekday AM peak hour 50% entering, 50% exiting Weekday PM peak hour 50% entering, 50% exiting

V. Trip Composition and Assignment

Gorrill-Palmer Consulting Engineers, Inc. has estimated trip composition for the facility based on the ITE *Trip Generation Handbook*. For LUC 853 – Convenience Market with Gasoline Pumps the trip composition would be the following:

Weekday AM - 12% Primary, 25% Diverted, 63% Pass-By Weekday PM - 16% Primary, 18% Diverted, 66% Pass-By

For the purpose of this project, we combined the Primary and Diverted and rounded to the following, which is conservative since it increases the primary trips and reduces the pass-by trips:

Weekday AM / PM - 40% Primary / Diverted, 60% Pass-By

For LUC 912-Drive-In Bank, the shared trips are forecast to be 50% with the convenience store. Thus, trips at the driveway would be 5 and 14 during the AM and PM peak hours respectively with 50% being pass-by and 50% being a combination of pass-by and diverted trips.

The total trip distribution is summarized on the following table:

Proposed Trip Composition

m : m	Ente	ering	Exi	ting	Total			
Trip Type	AM	PM	AM	PM	AM	PM		
Primary /	42	54	41	53	83	107		
Diverted								
Pass-By	62	77	61	78	123	155		
Total	104	131	102	132	206	263		

The trip assignment percentages are based on existing traffic patterns as derived from the turning movement counts and are included in Appendix A.

VI. 2013 Postdevelopment Traffic

The anticipated year 2013 predevelopment AM and PM peak hour traffic volumes shown on Figure 4 of Appendix A have been combined with the AM and PM peak hour traffic forecast for the development shown on Figures 5-7 of Appendix A to yield the 2013 postdevelopment AM and PM traffic volumes shown on Figure 8 of Appendix A.

VII. Study Area

The study area was defined by the City. The study area was identified as including the intersection of Congress Street/Blueberry Road and the proposed driveway as well as the intersection of Congress Street/Hutchins Drive and Skyway Drive.

VIII. Auxiliary Lanes

Our office completed right-turn and left-turn lane warrant analysis for the proposed driveway to identify if auxiliary lanes should be considered. To complete the review, our office utilized curves provided in the MaineDOT Highway Design Guide. The curves are provided in Appendix C.

Left-Turn Lanes – Both the AM and PM peak hours met the criteria for considering left turn treatment. As a result, re-striping Congress Street to provide a 75 foot long left turn lane for vehicles turning left into the site is recommended. A concept plan for this restriping is shown on the site plan prepared by DeLuca Hoffman Associates, inc.

Right-Turn Lanes – Based on a review of the MaineDOT curves, a right turn treatment should be considered. The site has been designed with a wide radius to facilitate a vehicle turning right into the site.

IX. Capacity Analyses

Gorrill-Palmer Consulting Engineers, Inc. completed capacity analyses for the intersections listed in Section VII.

The analysis was completed with the Synchro/SimTraffic analysis software. Levels of service rankings are similar to the academic ranking system where an 'A' represents little control delay and an 'F' represents significant delay. At an unsignalized intersection, if the level of service falls below a 'D', an evaluation should be made to determine if further mitigation is warranted, and if not, a low level of service is acceptable. It should be noted that the capacity analysis was completed assuming re-striping of Congress Street to include a 75 foot left turn lane as discussed in the previous Section VIII.

The following table summarizes the relationship between delay and level of service for an unsignalized and a signalized intersection:

Level of Service Criteria for Unsignalized Intersections

Level of Service	Control Delay per Vehicle (sec)
A	Up to 10.0
В	10.1 to 15.0
С	15.1 to 25.0
D	25.1 to 35.0
E	35.1 to 50.0
F	Greater than 50.0

Level of Service Criteria for Signalized Intersections

Level of Service	Control Delay per Vehicle (sec)
Α	Up to 10.0
В	10.1 to 20.0
C	20.1 to 35.0
D	35.1 to 55.0
E	55.1 to 80.0
F	Greater than 80.0

The results of the capacity analyses for the 2013 post-development conditions are summarized as follows, followed by a discussion of the results. The detailed analyses are included in Appendix B.

Site Access Road / Congress Street/Blueberry Rd (Unsignalized)

		2013 Pe	ak Hours	
Lane Group	AM Postde	velopment	PM Postde	velopment
and the second s	Delay (sec)	LOS	Delay	LOS
Congress St Eastbound	4	Α	4	Α
Congress St Wesbound	2	Α	2	Α
Site Driveway Northbound	22	С	23	С
Blueberry Rd Southbound	17	С	17	С

As can be seen from the above table, each of the approaches are forecast to operate at acceptable levels of service in both the weekday AM and PM peak hours with the left turn lane as proposed. This level of service and the maximum forecast PM peak hour traffic level of 68 turning left out of the site does not warrant the installation of a traffic signal.

Skyway Drive/Congress Street/Hutchins St (Signalized)

		2013 Pe	eak Hours	
Lane Group	AM Posto	levelopment	PM Postde	velopment
	Delay	LOS	Delay	LOS
Congress St Eastbound	48	E	25	С
Congress St Wesbound	21	С	26	D
Skyway Drive Northbound	25	С	120	F
Hutchins St Southbound	33	D	30	D

As can be seen from the above table, Congress Street eastbound (inbound) experiences delay during the morning commute and with the westbound direction (outbound) experiencing delay during the evening commute. However, the majority of the traffic associated with the proposed project is pass-by traffic with very little traffic being added to Congress Street which will not significantly affect the operation of this intersection.

X. Queue Analyses

Gorrill-Palmer Consulting Engineers, Inc. has evaluated the queue lengths at the intersection of the proposed driveway and Congress Street based on the SimTraffic analyses. The analyses consider the improvements indicated in the capacity analysis section. The queue analyses are included in the capacity analyses in Appendix B of this report and show the 95% length of queue for traffic entering the site will be 3 vehicles which is accommodated by the proposed 75 foot storage length.

XI. Crash Data

Gorrill-Palmer Consulting Engineers, Inc. obtained the crash data from MaineDOT for the period of 2009-2011, the most recent period available.

In order to evaluate whether a location has a crash problem, MaineDOT uses two criteria to define a High Crash Location (HCL). Both criteria must be met in order to be classified as a HCL.

- 1. A critical rate factor of 1.00 or more for a three-year period. (A Critical Rate Factor {CRF} compares the actual crash rate to the rate for similar intersection in the state. A CRF of less than 1.00 indicates a rate of less than average) and:
- 2. A minimum of eight crashes over a three-year period.

Review of the collision history furnished by the MaineDOT shows there are no high crash locations in the vicinity of the project.

XII. Sight Line Analysis

The Maine Department of Transportation has guidelines for sight distances as follows:

MaineDOT Standards for Sight Distance

Posted Speed (mph)	Sight Distance
25	200
30	250
35	305
40	360

The MaineDOT standards are as follows:

Driveway observation point: Height of eye at driveway: Height of approaching vehicle: 10 feet off major street travelway

3 ½ feet above ground 4 ¼ feet above road surface

Gorrill-Palmer has reviewed the sight lines at the driveway proposed opposite Blueberry Lane. The posted speed limit on Congress Street fronting the site is 40 mph, and is reduced to 35 mph 275 feet to the east of the site. The available sight lines exiting the driveway are over 750 feet looking to the left and 490 feet looking to the right to the overpass with the clearing of some vegetation along the site frontage. Thus, sight lines exceed standards at the proposed driveway location.

Gorrill-Palmer Consulting Engineers, Inc. recommends that all plantings, which will be located within the right of way, not exceed three feet in height and be maintained at or below that height. Signage should not interfere with sight lines. In addition, we recommend that during construction, when heavy equipment is entering and exiting into the site, that appropriate measures, such as signage and flag persons, be utilized in accordance with the Manual on Uniform Traffic Control Devices.

XIII. Conclusions and Recommendations

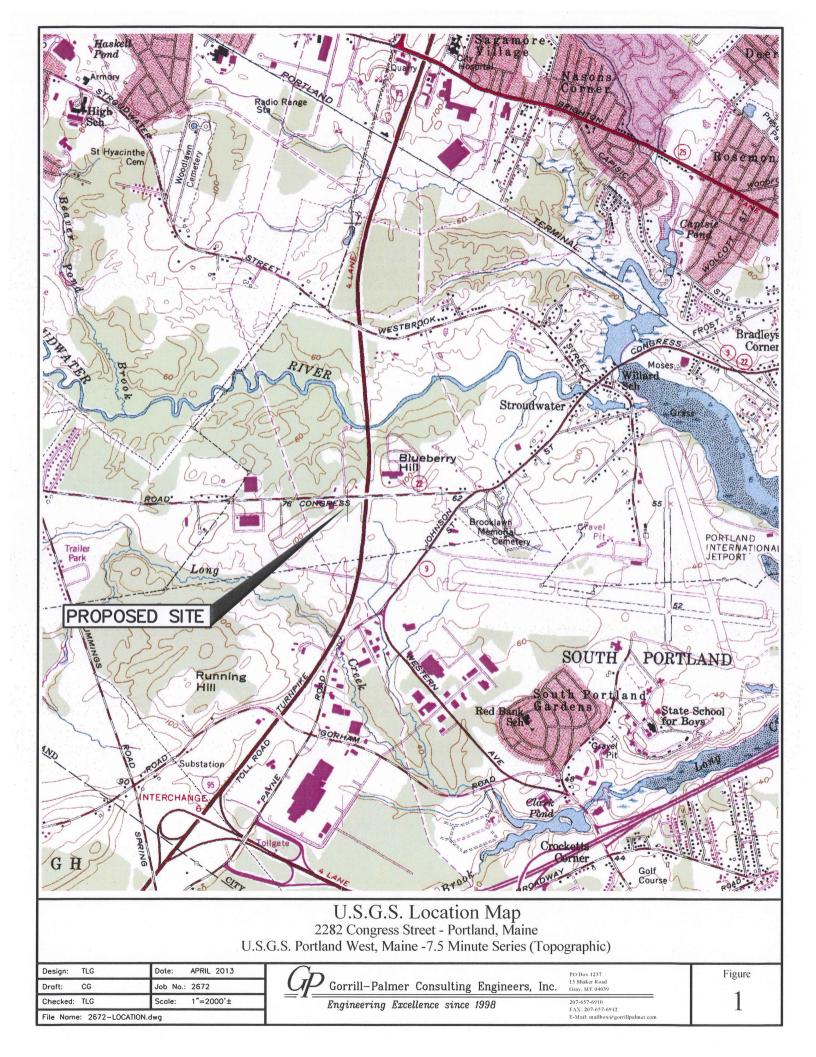
The following is a summary of the findings and conclusions of the study:

- 1. The proposed development is forecast to generate 211, 277, and 189 trip ends for the weekday AM and PM, and Saturday peak hours of adjacent street traffic, respectively. (Note: A trip end is either a trip in or out of the site. Therefore a single customer making a round trip would equal two trip ends). The project will require a MaineDOT Traffic Movement Permit since it generates over 99 trip ends during a peak hour. The MaineDOT has delegated their permit process to the City.
- 2. The capacity analyses show the site traffic can be accommodated with the restriping of Congress Street in the immediate area of the site to accommodate a short left turn lane into the site.
- 3. Gorrill-Palmer Consulting Engineers, Inc. obtained the latest three year crash history (2009-2011) from MaineDOT to identify if there were High Crash Locations (HCL's) within the immediate area. Based on this information, there are no high crash locations.
- 4. The sight lines at the proposed driveway exceeds MaineDOT requirements. Gorrill-Palmer Consulting Engineers, Inc. recommends that all plantings, which will be located within the right-of-way, not exceed three feet in height and be maintained at or below that height. Signage should not interfere with sight lines. In addition, we recommend that during construction, when heavy equipment is entering and exiting into the site, that appropriate measures, such as signage and flag persons, be utilized in accordance with the Manual on Uniform Traffic Control Devices.

Based on these findings, it is the opinion of Gorrill-Palmer Consulting Engineers, Inc. that the adjacent street system can accommodate the traffic generated by the site with the recommended improvements.

A.

Appendix A Site Location Map Traffic Count Data Sheets Turning Movement Diagrams



PO Box 1237, 15 Shaker Road Gray, ME 04039

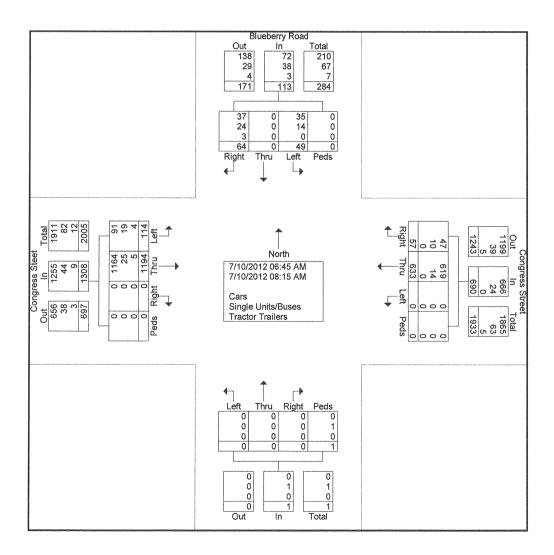
Location: Blueberry Rd @ Congress St Engineering Excellence Since 1998 Name: Blueberry@Congress_AM Raw

Counter: IAM Site Code : 2672
Board: DB400 Start Date : 7/10/2012

Weather: Sunny Page No : 1

Groups Printed- Cars - Single Units/Buses - Tractor Trailers

			eberry				Con	gress	Street							***************************************					
		F	rom No	orth			F	rom E	ast			Fr	om So	uth			F	rom W	est		
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
06:45 AM	4	0	6	0	10	0	63	10	0	73	0	0	0	1	1	14	170	0	0	184	268
Total	4	0	6	0	10	0	63	10	0	73	0	0	0	1	1	14	170	0	0	184	268
																				•	
07:00 AM	12	0	14	0	26	0	79	7	0	86	0	0	0	0	0	13	167	0	0	180	292
07:15 AM	6	0	7	0	13	0	93	2	0	95	0	0	0	0	0	17	173	0	0	190	298
07:30 AM	7	0	7	0	14	0	76	13	0	89	0	0	0	0	0	22	177	0	0	199	302
07:45 AM	4	0	10	0	14	0	134	9	0	143	0	0	0	0	0	14	173	0	0	187	344
Total	29	0	38	0	67	0	382	31	0	413	0	0	0	0	0	66	690	0	0	756	1236
MA 00:80	7	0	8	0	15	0	116	5	0	121	0	0	0	0	0	17	199	0	0	216	352
08:15 AM	9	0	12	0	21	0	72	11	0	83	0	0	0	0	0	17	135	0	0	152	256
Grand Total	49	0	64	0	113	0	633	57	0	690	0	0	0	1	1	114	1194	0	0	1308	2112
Apprch %	43.4	0	56.6	0		0	91.7	8.3	0		0	0	0	100		8.7	91.3	0	0		
Total %	2.3	0	3	0	5.4	0	30	2.7	0	32.7	0	0	0	0	0	5.4	56.5	0	0	61.9	
Cars	35	0	37	0	72	0	619	47	0	666	0	0	0	0	0	91	1164	0	0	1255	1993
% Cars	71.4	0	57.8	0	63.7	0	97.8	82.5	0	96.5	0	0	0	0	0	79.8	97.5	0	0	95.9	94.4
Single Units/Buses	14	0	24	0	38	0	14	10	0	24	0	0	0	1	1	19	25	0	0	44	107
% Single Units/Buses	28.6	0	37.5	0	33.6	0	2.2	17.5	0	3.5	0	0	0	100	100	16.7	2.1	0	0	3.4	5.1
Tractor Trailers	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	4	5	0	0	9	12
% Tractor Trailers	0	0	4.7	0	2.7	0	0	0	0	0	0	0	0	0	0	3.5	0.4	0	0	0.7	0.6



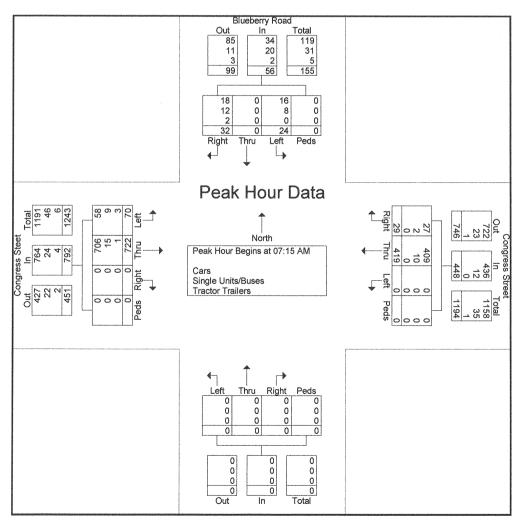
PO Box 1237, 15 Shaker Road Gray, ME 04039

Location: Blueberry Rd @ Congress St Engineering Excellence Since 1998 Name: Blueberry@Congress_AM Raw

Counter: IAM Site Code : 2672
Board: DB400 Start Date : 7/10/2012

Weather: Sunny Page No : 2

	***************************************	Blue	eberry	Road			Con	gress	Street								Cor	ngress	Steet		
		F	rom No	orth			F	rom E	ast			Fı	om So	uth			F	rom W	est		
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
Peak Hour Ar							k 1 of	1													
Peak Hour fo	r Entire	Inters	section	Begins	at 07:1	5 AM															
07:15 AM	6	0	7	0	13	0	93	2	0	95	0	0	0	0	0	17	173	0	0	190	298
07:30 AM	7	0	7	0	14	0	76	13	0	89	0	0	0	0	0	22	177	0	0	199	302
07:45 AM	4	0	10	0	14	0	134	9	0	143	0	0	0	0	0	14	173	0	0	187	344
MA 00:80	7	0	8	0	15	0	116	5	0	121	0	0	0	0	0	17	199	0	0	216	352
Total Volume	24	0	32	0	56	0	419	29	0	448	0	0	0	0	0	70	722	0	0	792	1296
% App. Total	42.9	0	57.1	0		0	93.5	6.5	0		0	0	0	0		8.8	91.2	0	0		
PHF	.857	.000	.800	.000	.933	.000	.782	.558	.000	.783	.000	.000	.000	.000	.000	.795	.907	.000	.000	.917	.920
Cars	16	0	18	0	34	0	409	27	0	436	0	0	0	0	0	58	706	0	0	764	1234
% Cars	66.7	0	56.3	0	60.7	0	97.6	93.1	0	97.3	0	0	0	0	0	82.9	97.8	0	0	96.5	95.2
Single Units/Buses		_		_		_			_		_	_	_								
% Single Units/Buses	33.3	0	37.5	0	35.7	0	2.4	6.9	0	2.7	0	0	0	0	0	12.9	2.1	0	0	3.0	4.3
Tractor Trailers	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	3	1	0	0	4	6
% Tractor Trailers	0	0	6.3	0	3.6	0	0	0	0	0	0	0	0	0	0	4.3	0.1	0	0	0.5	0.5

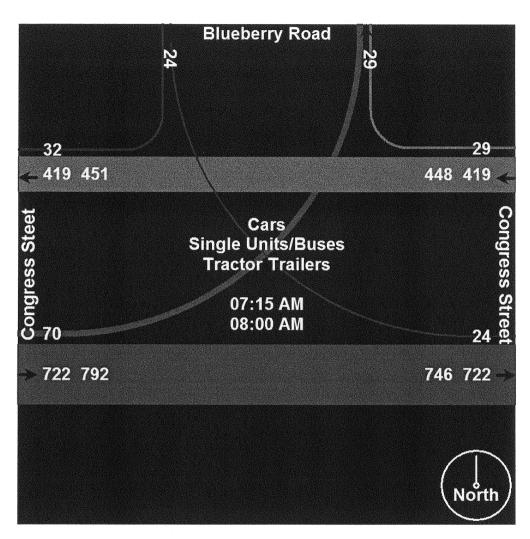


PO Box 1237, 15 Shaker Road Gray, ME 04039

Location: Blueberry Rd @ Congress St Engineering Excellence Since 1998 Name: Blueberry@Congress_AM Raw

Counter: IAM Site Code : 2672
Board: DB400 Start Date : 7/10/2012

Weather: Sunny Page No : 3



Gorrill-Palmer Consulting Engineers, Inc. PO Box 1237, 15 Shaker Road

Gray, ME 04039

Location: Blueberry Road @ Congress St Engineering Excellence Since 1998 Name : Blueberry@Congress_PM Raw

Counter:IAM Site Code: 2672 Board:DB400 Start Date : 7/9/2012

Weather:Sunny Page No : 1

Groups Printed- Cars - Single Units/Buses - Tractor Trailers

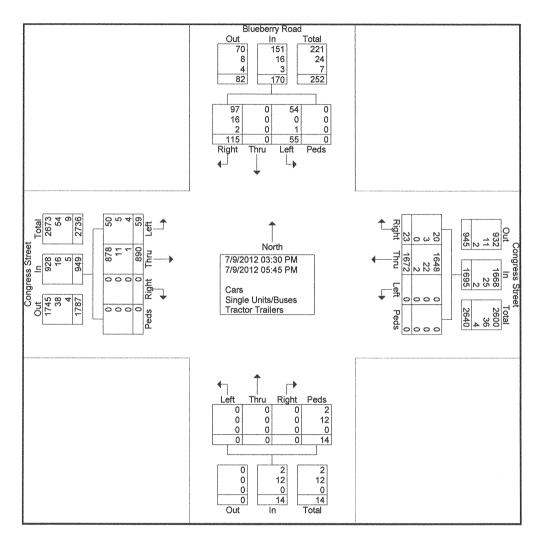
			eberry					gress													
			rom No					rom E					om Sc	,				rom W			
Start Time	Left	Thru		Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
03:30 PM	2	0	6	0	8	0	153	2	0	155	0	0	0	0	0	6	101	0	0	107	270
03:45 PM	7	0	11_	0	18	0	141	6	0	147	0	0	0	1	1	6	88	0	0	94	260
Total	9	0	17	0	26	0	294	8	0	302	0	0	0	1	1	12	189	0	0	201	530
04:00 PM	1	0	20	0	21	0	193	3	0	196	0	0	0	1	1	6	79	0	0	85	303
04:15 PM	15	0	13	0	28	0	176	3	0	179	0	0	0	2	2	4	67	0	0	71	280
04:30 PM	4	0	11	0	15	0	206	2	0	208	0	0	0	0	0	4	103	0	0	107	330
04:45 PM	7	0	10	0	17	0	170	2	0	172	0	0	0	2	2	9	89	0	0	98	289
Total	27	0	54	0	81	0	745	10	0	755	0	0	0	5	5	23	338	0	0	361	1202
																					,
05:00 PM	8	0	13	0	21	0	200	1	0	201	0	0	0	5	5	3	93	0	0	96	323
05:15 PM	4	0	17	0	21	0	168	1	0	169	0	0	0	1	1	9	105	0	0	114	305
05:30 PM	5	0	8	0	13	0	160	2	0	162	0	0	0	1	1	7	99	0	0	106	282
05:45 PM	2	0	6	0	8	0	105	1	0	106	0	0	0	1	1	5	66	0	0	71	186
Total	19	0	44	0	63	0	633	5	0	638	0	0	0	8	8	24	363	0	0	387	1096
										·					,					,	•
Grand Total	55	0	115	0	170	0	1672	23	0	1695	0	0	0	14	14	59	890	0	0	949	2828
Apprch %	32.4	0	67.6	0		0	98.6	1.4	0		0	0	0	100		6.2	93.8	0	0		
Total %	1.9	0	4.1	0	6	0	59.1	0.8	0	59.9	0	0	0	0.5	0.5	2.1	31.5	0	0	33.6	
Cars	54	0	97	0	151	0	1648	20	0	1668	0	0	0	2	2	50	878	0	0	928	2749
% Cars	98.2	0	84.3	0	88.8	0	98.6	87	0	98.4	0	0	0	14.3	14.3	84.7	98.7	0	0	97.8	97.2
Single Units/Buses	0	0	16	0	16	0	22	3	0	25	0	0	0	12	12	5	11	0	0	16	69
% Single Units/Buses	0	0	13.9	0	9.4	0	1.3	13	0	1.5	0	0	0	85.7	85.7	8.5	1.2	0	0	1.7	2.4
Tractor Trailers	1	0	2	0	3	0	2	0	0	2	0	0	0	0	0	4	1	0	0	5	10
% Tractor Trailers	1.8	0	1.7	0	1.8	0	0.1	0	0	0.1	0	0	0	0	0	6.8	0.1	0	0	0.5	0.4

PO Box 1237, 15 Shaker Road Gray, ME 04039

Location: Blueberry Road @ Congress St Engineering Excellence Since 1998 Name: Blueberry@Congress_PM Raw

Counter:IAM Site Code : 2672 Board:DB400 Start Date : 7/9/2012

Weather:Sunny Page No : 2



Gorrill-Palmer Consulting Engineers, Inc. PO Box 1237, 15 Shaker Road

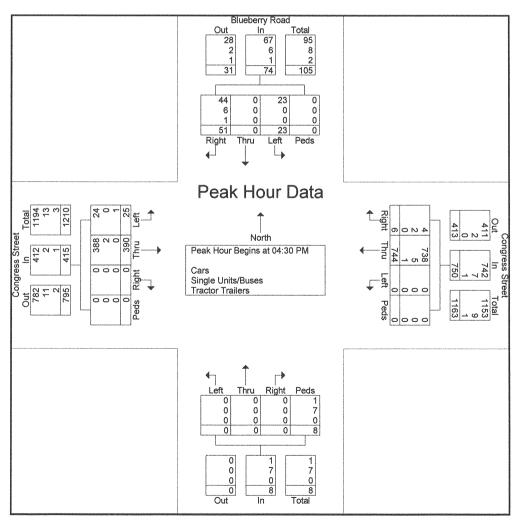
Gray, ME 04039

Location: Blueberry Road @ Congress Stagineering Excellence Since 1998 Name: Blueberry@Congress_PM Raw

Counter:IAM Site Code : 2672 Board:DB400 Start Date : 7/9/2012

Weather:Sunny Page No : 3

		Blue	eberry	Road			Con	gress	Street								Con	gress	Street		
		F	rom No	orth			F	rom E	ast			Fr	rom Sc	outh			F	rom W	est		
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
Peak Hour A	nalysis	From	03:30 F	PM to C	5:45 PN	1 - Pea	k 1 of	1						A				***************************************			
Peak Hour fo	r Entire	Inters	ection	Begins	at 04:3	0 PM															
04:30 PM	4	0	11	0	15	0	206	2	0	208	0	0	0	0	0	4	103	0	0	107	330
04:45 PM	7	0	10	0	17	0	170	2	0	172	0	0	0	2	2	9	89	0	0	98	289
05:00 PM	8	0	13	0	21	0	200	1	0	201	0	0	0	5	5	3	93	0	0	96	323
05:15 PM	4	0	17	0	21	0	168	1	0	169	0	0	0	1	1	9	105	0	0	114	305
Total Volume	23	0	51	0	74	0	744	6	0	750	0	0	0	8	8	25	390	0	0	415	1247
% App. Total	31.1	0	68.9	0		0	99.2	8.0	0		0	0	0	100		6	94	0	0		
PHF	.719	.000	.750	.000	.881	.000	.903	.750	.000	.901	.000	.000	.000	.400	.400	.694	.929	.000	.000	.910	.945
Cars	23	0	44	0	67	0	738	4	0	742	0	0	0	1	1	24	388	0	0	412	1222
% Cars	100	0	86.3	0	90.5	0	99.2	66.7	0	98.9	0	0	0	12.5	12.5	96.0	99.5	0	0	99.3	98.0
Single Units/Buses																					
% Single Units/Buses	0	0	11.8	0	8.1	0	0.7	33.3	0	0.9	0	0	0	87.5	87.5	0	0.5	0	0	0.5	1.8
Tractor Trailers	0	0	1	0	1	0	1	0	0	1	0	0	0	0	0	1	0	0	0	1	3
% Tractor Trailers	0	0	2.0	0	1.4	0	0.1	0	0	0.1	0	0	0	0	0	4.0	0	0	0	0.2	0.2

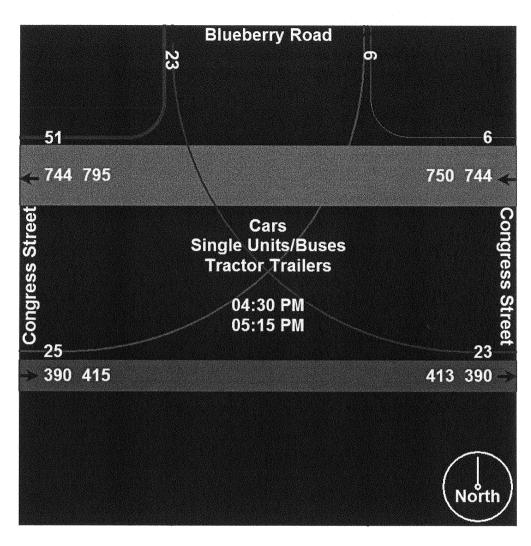


PO Box 1237, 15 Shaker Road Gray, ME 04039

Location: Blueberry Road @ Congress St Engineering Excellence Since 1998 Name : Blueberry@Congress_PM Raw

Counter:IAM Board:DB400 Weather:Sunny Site Code : 2672 Start Date : 7/9/2012

Page No : 4



PO Box 1237, 15 Shaker Road Gray, ME 04039 Engineering Excellence Since 1998

Location: Huchins/cong-ptld

Counter:PO Board:3364

Weather:Ptly cloudy

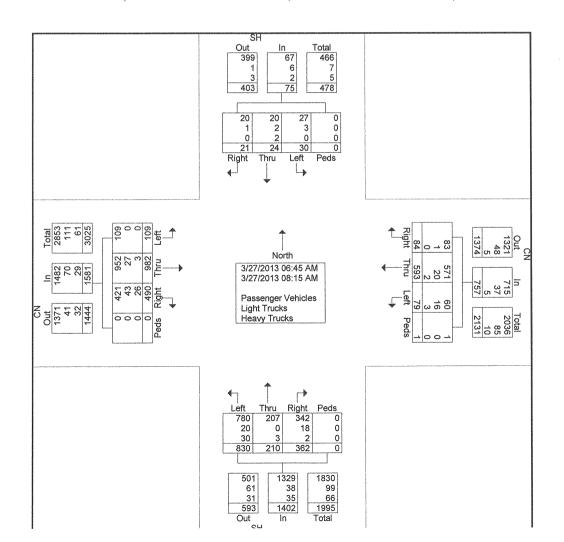
File Name: Congress@Hutchins-skyway AM

Site Code : 00000000 Start Date : 3/27/2013

Page No : 1

Groups Printed- Passenger Vehicles - Light Trucks - Heavy Trucks

		SH				CN						SH				CN					
		Fr	om No	orth			F	rom E	ast			Fr	om Sc	outh			Fr	om W	est		
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
06:45 AM	4	2	2	0	8	4	70	11	0	85	31	35	100	0	166	56	129	19	0	204	463
Total	4	2	2	0	8	4	70	11	0	85	31	35	100	0	166	56	129	19	0	204	463
07:00 AM	1	2	0	0	3	6	49	11	0	66	38	8	82	0	128	86	148	5	0	239	436
07:15 AM	2	0	4	0	6	13	59	8	0	80	46	34	100	0	180	71	153	16	0	240	506
07:30 AM	6	4	12	0	22	8	98	15	1	122	72	29	122	0	223	73	136	15	0	224	591
07:45 AM	5	3	3	0	11	16	120	8	0	144	74	46	175	0	295	84	145	26	0	255	705
Total	14	9	19	0	42	43	326	42	1	412	230	117	479	0	826	314	582	62	0	958	2238
MA 00:80	1	4	5	0	10	17	106	11	0	134	57	41	141	0	239	68	150	18	0	236	619
08:15 AM	2	9	4	0	15	20	91	15	0	126	44	17	110	0	171	52	121	10	0	183	495
Grand Total	21	24	30	0	75	84	593	79	1	757	362	210	830	0	1402	490	982	109	0	1581	3815
Apprch %	28	32	40	0		11.1	78.3	10.4	0.1		25.8	15	59.2	0		31	62.1	6.9	0		
Total %	0.6	0.6	0.8	0	2	2.2	15.5	2.1	0	19.8	9.5	5.5	21.8	0	36.7	12.8	25.7	2.9	0	41.4	
Passenger Vehicles	20	20	27	0	67	83	571	60	1	715	342	207	780	0	1329	421	952	109	0	1482	3593
% Passenger Vehicles																					
Light Trucks	1	2	3	0	6	1	20	16	0	37	18	0	20	0	38	43	27	0	0	70	151
% Light Trucks	4.8	8.3	10	0	8	1.2	3.4	20.3	0	4.9	5	0	2.4	0	2.7	8.8	2.7	0	0	4.4	4
Heavy Trucks	0	2	0	0	2	0	2	3	0	5	2	3	30	0	35	26	3	0	0	29	71
% Heavy Trucks	0	8.3	0	0	2.7	0	0.3	3.8	0	0.7	0.6	1.4	3.6	0	2.5	5.3	0.3	0	0	1.8	1.9



Gorrill-Palmer Consulting Engineers, Inc. PO Box 1237, 15 Shaker Road

PO Box 1237, 15 Shaker Road Gray, ME 04039 Engineering Excellence Since 1998

Location: Huchins/cong-ptld

Counter:PO

Weather:Ptly cloudy

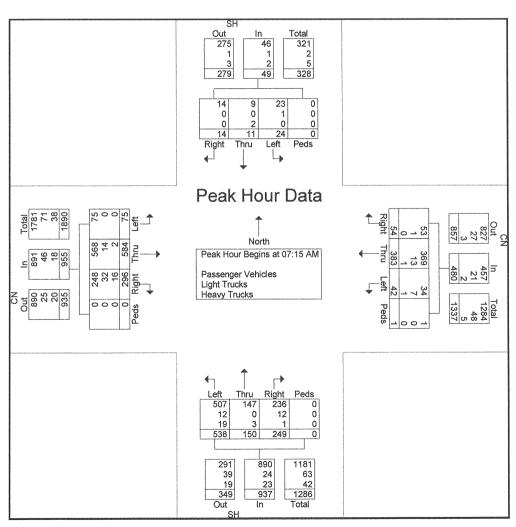
Board:3364

File Name: Congress@Hutchins-skyway AM

Site Code : 00000000 Start Date : 3/27/2013

Page No : 2

***************************************	,																				7
		SH					CN				SH					CN					
		Fr	om No	orth		From East					From South				From West						
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
Peak Hour A	nalysis	From ()6:45 A	AM to 0	8:15 AN	/ - Pea	k 1 of '	1													
Peak Hour fo	r Entire	Inters	ection	Begins	at 07:1	5 AM															
07:15 AM	2	0	4	0	6	13	59	8	0	80	46	34	100	0	180	71	153	16	0	240	506
07:30 AM	6	4	12	0	22	8	98	15	1	122	72	29	122	0	223	73	136	15	0	224	591
07:45 AM	5	3	3	0	11	16	120	8	0	144	74	46	175	0	295	84	145	26	0	255	705
MA 00:80	1	4	5	0	10	17	106	11	0	134	57	41	141	0	239	68	150	18	0	236	619
Total Volume	14	11	24	0	49	54	383	42	1	480	249	150	538	0	937	296	584	75	0	955	2421
% App. Total	28.6	22.4	49	0		11.2	79.8	8.8	0.2		26.6	16	57.4	0		31	61.2	7.9	0		
PHF	.583	.688	.500	.000	.557	.794	.798	.700	.250	.833	.841	.815	.769	.000	.794	.881	.954	.721	.000	.936	.859
Passenger Vehicles	14	9	23	0	46	53	369	34	1	457	236	147	507	0	890	248	568	75	0	891	2284
% Passenger Vehicles	_	_						nim.					4.0		0.4			_			
Light Trucks	0	0	1	0	1	1	13	7	0	21	12	0	12	0	24	32	14	0	0	46	92
% Light Trucks	0	0	4.2	0	2.0	1.9	3.4	16.7	0	4.4	4.8	0	2.2	0	2.6	10.8	2.4	0	0	4.8	3.8
Heavy Trucks	0	2	0	0	2	0	1	1	0	2	1	3	19	0	23	16	2	0	0	18	45
% Heavy Trucks	0	18.2	0	0	4.1	0	0.3	2.4	0	0.4	0.4	2.0	3.5	0	2.5	5.4	0.3	0	0	1.9	1.9



PO Box 1237, 15 Shaker Road Gray, ME 04039 Engineering Excellence Since 1998

Location: Congress/Hutchins-Ptld

Counter:PO Board:3364 Weather:cloudy File Name: Congress@Hutchins-skywayPM

Site Code : 00000000 Start Date : 3/26/2013

Page No : 1

Groups Printed- Passenger Vehicles - Light Trucks - Heavy Trucks

			1.0107							r venicie				eavy i	rucks		00110	0000			ĭ
		HUTCI				C	OONG				l t	HUTCH				COONGRESS					
			rom No				~~~~	rom E	·		From South					From West					
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
03:30 PM	26	24	13	0	63	3	146	24	0	173	10	6	77	0	93	90	70	4	0	164	493
03:45 PM	6	14	7	0	27	7	116	22	0	145	8	2	57	0	67	64	75	4	0	143	382
Total	32	38	20	0	90	10	262	46	0	318	18	8	134	0	160	154	145	8	0	307	875
04:00 PM	9	19	12	0	40	4	160	63	0	227	8	10	62	0	80	119	97	5	0	221	568
04:15 PM	12	15	9	0	36	3	140	39	0	182	8	9	61	0	78	86	73	2	0	161	457
04:30 PM	26	27	15	1	69	5	175	69	0	249	7	9	70	0	86	141	88	11	0	240	644
04:45 PM	10	28	8	0	46	3	140	51	0	194	5	8	95	0	108	135	69	8	0	212	560
Total	57	89	44	1	191	15	615	222	0	852	28	36	288	0	352	481	327	26	0	834	2229
05:00 PM	20	37	19	0	76	3	168	58	0	229	9	6	75	0	90	150	94	6	0	250	645
05:15 PM	11	28	9	0	48	4	155	46	0	205	6	7	84	0	97	146	101	5	0	252	602
05:30 PM	6	21	5	0	32	5	136	37	0	178	5	9	75	0	89	101	78	3	0	182	481
05:45 PM	6	9	7	0	22	2	98	25	0	125	6	9	47	0	62	71	54	6	0	131	340
Total	43	95	40	0	178	14	557	166	0	737	26	31	281	0	338	468	327	20	0	815	2068
	1					ı					1					•					•
Grand Total	132	222	104	1	459	39	1434	434	0	1907	72	75	703	0	850	1103	799	54	0	1956	5172
Apprch %	28.8	48.4	22.7	0.2		2	75.2	22.8	0		8.5	8.8	82.7	0		56.4	40.8	2.8	0		
Total %	2.6	4.3	2	0	8.9	0.8	27.7	8.4	0	36.9	1.4	1.5	13.6	0	16.4	21.3	15.4	1	0	37.8	
Passenger Vehicles	130	220	103	1	454	36	1412	422	0	1870	65	71	645	0	781	1072	787	52	0	1911	5016
% Passenger Vehicles	98.5	99.1	99	100	98.9	92.3	98.5	97.2	0	98.1	90.3	94.7	91.7	0	91.9	97.2	98.5	96.3	0	97.7	97
Light Trucks	2	2	1	0	5	3	20	11	0	34	6	4	25	0	35	13	12	2	0	27	101
% Light Trucks	1.5	0.9	1	0	1.1	7.7	1.4	2.5	0	1.8	8.3	5.3	3.6	0	4.1	1.2	1.5	3.7	0	1.4	2
Heavy Trucks	0	0	0	0	0	0	2	1	0	3	1	0	33	0	34	18	0	0	0	18	55
% Heavy Trucks	0	ō	Õ	Ō	Ö	0	0.1	0.2	0	0.2	1.4	0	4.7	0	4	1.6	0	0	0	0.9	1.1
ATTEMAN TIMENS	,	. •	_	•	•	1			-		1	-				1					

Gorrill-Palmer Consulting Engineers, Inc. PO Box 1237, 15 Shaker Road

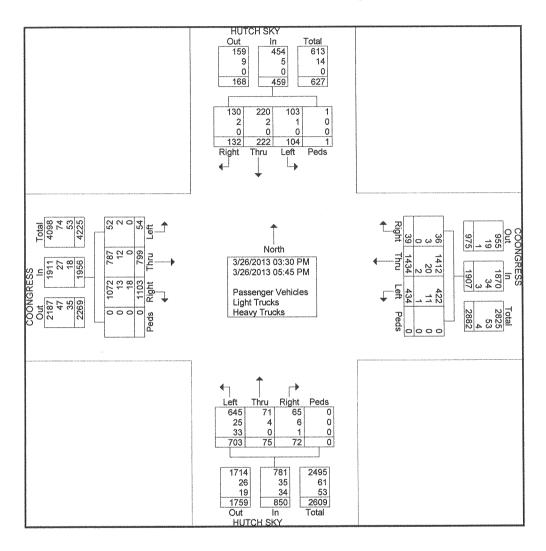
PO Box 1237, 15 Shaker Road Gray, ME 04039 Engineering Excellence Since 1998

Location: Congress/Hutchins-Ptld

Counter:PO Board:3364 Weather:cloudy File Name: Congress@Hutchins-skywayPM

Site Code : 00000000 Start Date : 3/26/2013

Page No : 2



	F	HUTCH SKY					COONGRESS					HUTCH SKY					COONGRESS				
		Fr	om Na	rth		From East					From South				From West						
Start Time	Right	Thru		Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	int. Total
Peak Hour Ar	nalysis	From C	3:30 F	PM to 0	5:45 PN	∕I - Peal	k 1 of 1	1													
Peak Hour for	r Entire	Interse	ection	Begins	at 04:3	0 PM															
04:30 PM	26	27	15	1	69	5	175	69	0	249	7	9	70	0	86	141	88	11	0	240	644
04:45 PM	10	28	8	0	46	3	140	51	0	194	5	8	95	0	108	135	69	8	0	212	560
05:00 PM	20	37	19	0	76	3	168	58	0	229	9	6	75	0	90	150	94	6	0	250	645
05:15 PM	11	28	9	0	48	4	155	46	0	205	6	7	84	0	97	146	101	5	0	252	602
Total Volume	67	120	51	1	239	15	638	224	0	877	27	30	324	0	381	572	352	30	0	954	2451
% App. Total	28	50.2	21.3	0.4		1.7	72.7	25.5	0		7.1	7.9	85	0		60	36.9	3.1	0		
PHF	.644	.811	.671	.250	.786	.750	.911	.812	.000	.881	.750	.833	.853	.000	.882	.953	.871	.682	.000	.946	.950
Passenger Vehicles	65	119	51	1	236	15	631	223	0	869	27	27	305	0	359	557	347	28	0	932	2396
% Passenger Vehicles	2	4	0	0	3	0	7	٥	٥	7	0	3	6	0	9	6	5	2	0	13	32
Light Trucks	~ ~				-	0	4 4	0	0	0 0	0	100	-	0	2.4	1.0	1.4	6.7	ñ	1.4	1.3
% Light Trucks	3.0	8.0	0	0	1.3	0	1.1	U	U	0.8	0	10.0	1.9	U					0	1.4	
Heavy Trucks	0	0	0	0	0	0	0	1	0	1	0	0	13	0	13	9	0	0	0	9	23
% Heavy Trucks	0	0	0	0	0	0	0	0.4	0	0.1	0	0	4.0	0	3.4	1.6	0	0	0	0.9	0.9

Gorrill-Palmer Consulting Engineers, Inc. PO Box 1237, 15 Shaker Road

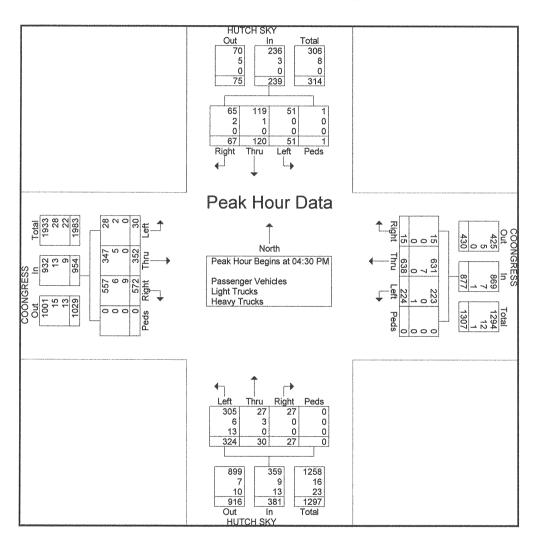
PO Box 1237, 15 Shaker Road Gray, ME 04039 Engineering Excellence Since 1998

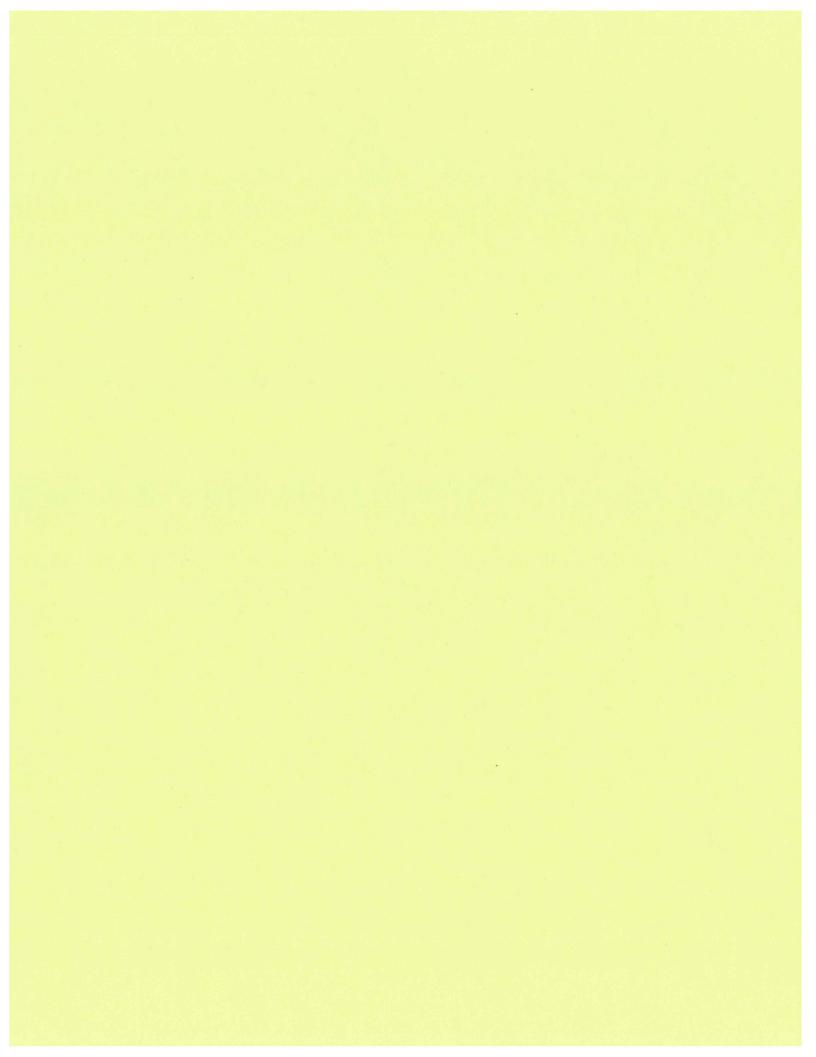
Location: Congress/Hutchins-Ptld

Counter:PO Board:3364 Weather:cloudy File Name: Congress@Hutchins-skywayPM

Site Code : 00000000 Start Date : 3/26/2013

Page No : 3





AM PEAK HOUR: 7:15 - 8:15 AM

(S) DENOTES SIGNAL

TLG

DB

TLG

Scale:

Date:

Design:

Checked:

Draft:

NONE

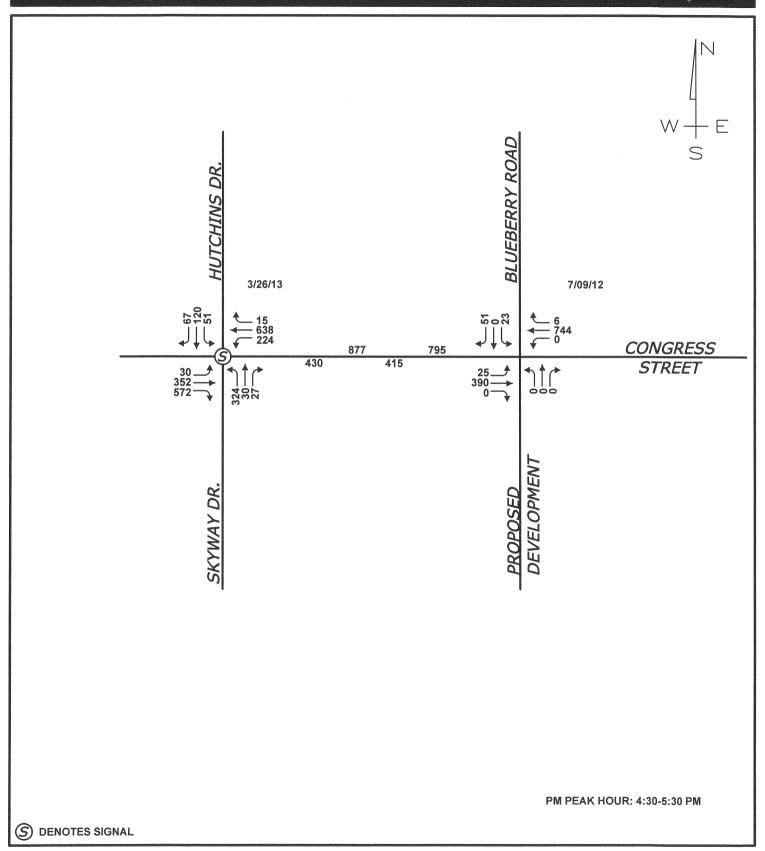
File Name: 2672-TRAFF2.dwg

MAR 2013

2282 CONGRESS STREET, PORTLAND, MAINE

Gorrill-Palmer Consulting Engineers, Engineering Excellence Since 1998

Unadjusted Raw Traffic Counts - PM Peak Hour Figure No.



2282 CONGRESS STREET, PORTLAND, MAINE

NONE

File Name: 2672-TRAFF2.dwg

MAR 2013

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Checked: TLG

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TLG

DB

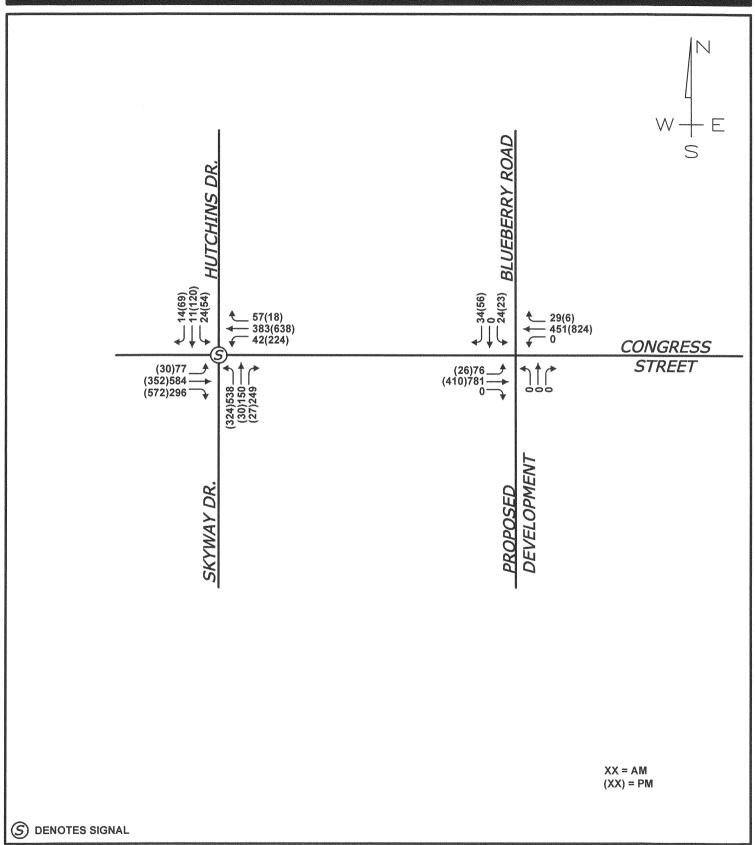
Scale:

Date:

15 Shaker Road Gray, ME 04039

Design: TLG Scale: NONE
Draft: DB Date: MAR 2013
Checked: TLG File Name: 2672-TRAFF2.dwg

Gorrill-Palmer Consulting Engineers, Inc
PO Box 1237 Engineering Excellence Since 1998 207-657-691
Engineering Excellence Since 1998 207-657-691

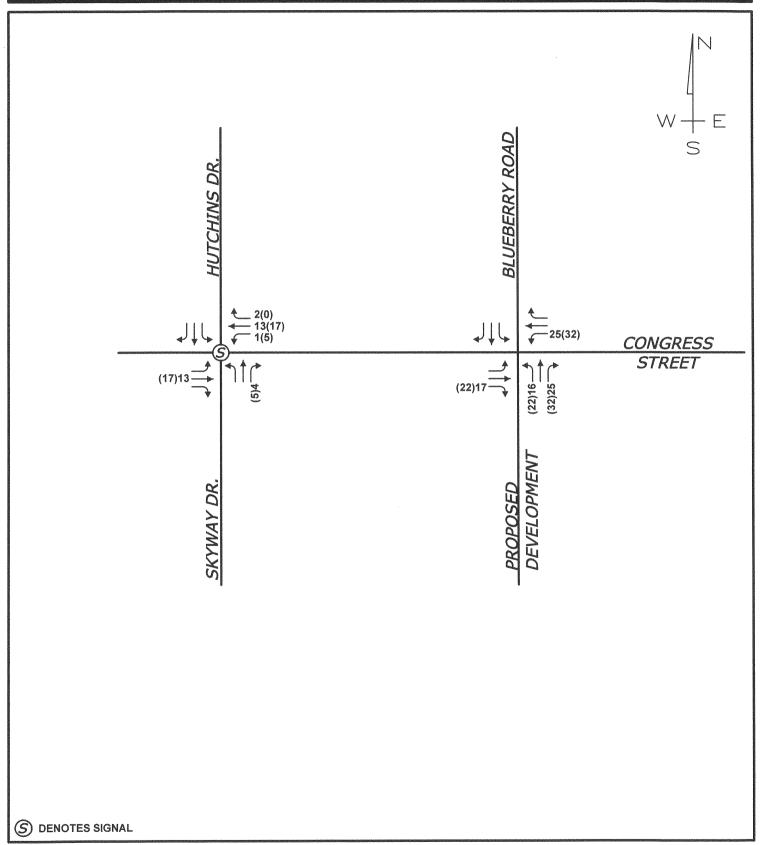


Gray, ME 04039

Gorrill-Palmer Consulting Engineers PO Box 1237

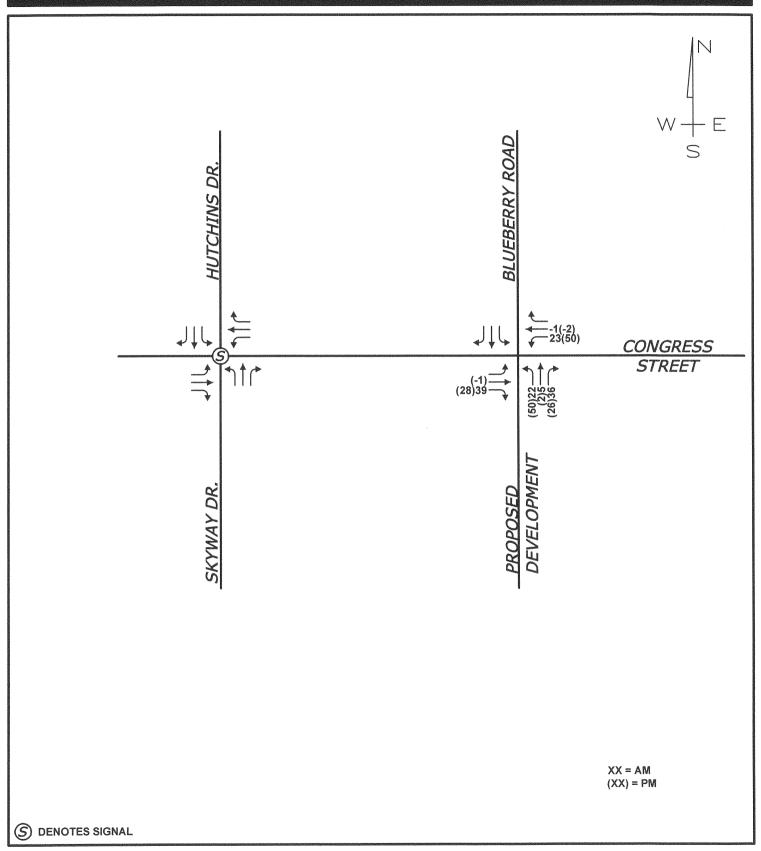
Engineering Excellence Since 1998 15 Shaker Road

207-657-6910 Fax: 207-657-6912 mailbox@gorrillpalmer.com www.gomillpalmer.com



Gorrill-Palmer Consulting Engineers

Gray, ME 04039



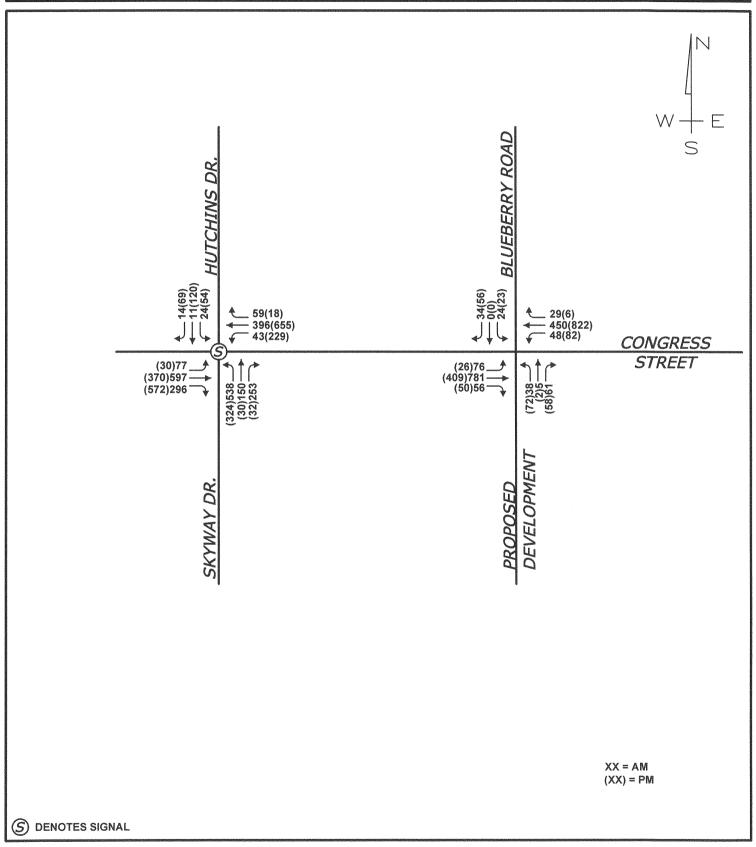
PO Box 1237
15 Shaker Road

Gray, ME 04039

Gorrill-Palmer Consulting Engineers, Inc.

Engineering Excellence Since 1998 207-657-6910

Post Development Traffic Volumes



2282 CONGRESS STREET, PORTLAND, MAINE

TLG Scale: NONE Design: Draft: DB Date: MAR 2013 File Name: 2672-TRAFF2.dwg Checked: TLG



B.

Appendix B Capacity Analyses

3: Site /Blueberry Road & Congress Street Performance by approach

Approach	EB	WB	NB	SB	
Denied Delay (hr)	0.0	0.1	0.0	0.0	0.1
Denied Del/Veh (s)	0.1	0.7	0.1	0.1	0.3
Total Delay (hr)	1.0	0.3	0.6	0.2	2.1
Total Del/Veh (s)	3.8	1.8	26.6	16.6	4.8

6: Skyway/Hutchins & Congress Street Performance by approach

Approach	EB	WB	NB	SB	All
Denied Delay (hr)	1.5	0.0	0.1	0.0	1.6
Denied Del/Veh (s)	5.5	0.0	0.4	1.6	2.4
Total Delay (hr)	11.7	3.0	6.9	0.4	22.0
Total Del/Veh (s)	42.4	21.1	26.3	34.0	31.8

Total Network Performance

Denied Delay (hr)	1.7
Denied Del/Veh (s)	2.4
Total Delay (hr)	25.3
Total Del/Veh (s)	33.7

Intersection: 3: Site /Blueberry Road & Congress Street

Movement	EB	EB	WB	WB	NB	NB	SB	SB	
Directions Served	L	TR	L	TR	LT	R	LT	R	
Maximum Queue (ft)	57	10	46	13	109	57	65	44	
Average Queue (ft)	19	0	18	0	39	25	20	19	
95th Queue (ft)	46	4	42	6	88	51	53	45	
Link Distance (ft)		1011		867	134	134	764	764	
Upstream Blk Time (%)					1				
Queuing Penalty (veh)					0				
Storage Bay Dist (ft)	500		100						
Storage Blk Time (%)									
Queuing Penalty (veh)									

Intersection: 6: Skyway/Hutchins & Congress Street

Movement	EB	EB	EB	WB	WB	NB	NB	SB	SB	
Directions Served	L	Т	R	L	TR	L	TR	LT	R	
Maximum Queue (ft)	90	814	175	64	288	436	304	70	56	
Average Queue (ft)	54	475	142	25	165	245	137	26	14	
95th Queue (ft)	103	861	235	54	264	397	234	59	44	
Link Distance (ft)		802			1011	838	838	276		
Upstream Blk Time (%)		7								
Queuing Penalty (veh)		0		economic a new consultation of the		Samuel College			ere mer an area and mer a comment of the	ermonermo (Coment in 1966 m. Coment in Nazie I. et il 2004) delle (1965) delle (1965) delle (1965) delle (1965
Storage Bay Dist (ft)	65		150	500					155	
Storage Blk Time (%)	3	45	0							
Queuing Penalty (veh)	28	169	2							

Network Summary

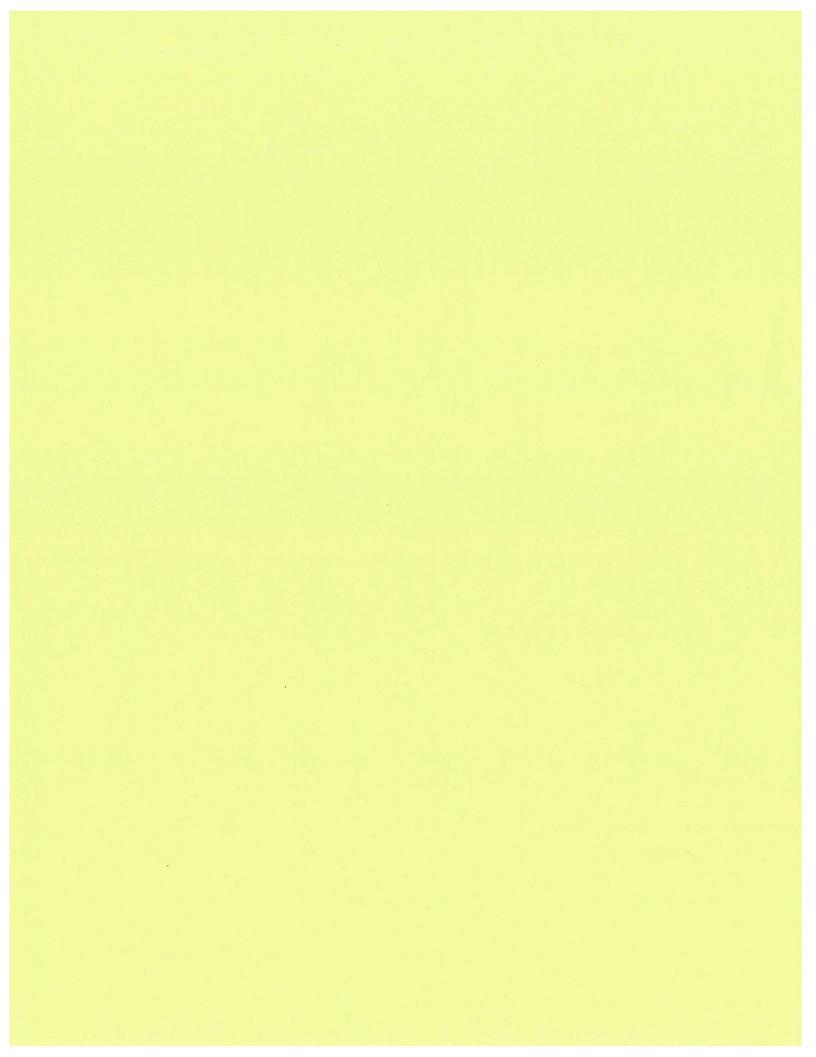
Network wide Queuing Penalty: 200

Intersection: 6: Skyway/Hutchins & Congress Street

Phase	2	3	4	5	6	7	8	
Movement(s) Served	NBTL	WBL	EBTL	NBL	SBTL	EBL	WBTL	
Maximum Green (s)	42.0	4.0	29.0	20.0	17.0	4.0	29.0	
Minimum Green (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
Recall	None	None	None	None	None	None	None	
Avg. Green (s)	30.1	4.0	30.1	22.1	10.8	4.3	29.1	
g/C Ratio	-0.01	-0.01	NA	NA	-0.01	-0.01	NA	
Cycles Skipped (%)	10	65	0	0	52	51	0	
Cycles @ Minimum (%)	0	35	0	0	0	47	0	
Cycles Maxed Out (%)	12	35	92	88	8	49	77	
Cycles with Peds (%)	0	0	0	0	0	0	0	
6 6						Secretary description		

Controller Summary

Average Cycle Length (s): NA Number of Complete Cycles: 0



3: Site /Blueberry Road & Congress Street Performance by approach

Approach	EB	WB	NB	SB	All strongs are the second of
Denied Delay (hr)	0.0	0.3	0.0	0.0	0.3
Denied Del/Veh (s)	0.0	1.2	0.1	0.1	0.7
Total Delay (hr)	0.5	0.5	0.9	0.4	2.3
Total Del/Veh (s)	3.8	2.1	24.5	17.4	5.2

6: Skyway/Hutchins & Congress Street Performance by approach

Approach	EB	WB	NB	SB	All
Denied Delay (hr)	0.8	0.0	0.2	0.1	1.0
Denied Del/Veh (s)	2.9	0.0	1.6	1.4	1.5
Total Delay (hr)	6.3	6.7	9.2	2.0	24.3
Total Del/Veh (s)	23.6	25.3	85.3	31.5	34.4

Total Network Performance

Denied Delay (hr)	1.4
Denied Del/Veh (s)	1.8
Total Delay (hr)	28.0
Total Del/Veh (s)	36.4

Intersection: 3: Site /Blueberry Road & Congress Street

Movement	EB	EB	WB	WB	NB	NB	SB	SB	
Directions Served	L	TR	L	TR	LT	R	LT	R	
Maximum Queue (ft)	44	8	50	4	117	56	52	75	
Average Queue (ft)	13	0	18	0	48	29	20	30	
95th Queue (ft)	37	4	42	3	96	53	48	61	
Link Distance (ft)		1010		867	134	134	764	764	
Upstream Blk Time (%)					0				
Queuing Penalty (veh)					0		erecent and the energy of the control of		
Storage Bay Dist (ft)	500		100						
Storage Blk Time (%)									
Queuing Penalty (veh)									

Intersection: 6: Skyway/Hutchins & Congress Street

Movement	EB	EB	EB	WB	WB	NB	NB	SB	SB	
Directions Served	L	Т	R	L	TR	L	TR	LT	R	
Maximum Queue (ft)	90	607	175	282	475	596	273	208	178	
Average Queue (ft)	28	223	137	117	243	290	53	100	38	and the first section of the market at models that the first section and the section of the
95th Queue (ft)	77	468	215	229	423	620	275	173	94	
Link Distance (ft)		675			1010	970	970	275		
Upstream Blk Time (%)		1				2	2	0		
Queuing Penalty (veh)		0				0	0	0		
Storage Bay Dist (ft)	65		150	500					155	
Storage Blk Time (%)	1	36	7		1			2	0	
Queuing Penalty (veh)	9	218	29		2			1	0	

Network Summary

Network wide Queuing Penalty: 260

Intersection: 6: Skyway/Hutchins & Congress Street

Phase	2	3	4	5	6	7	8	
Movement(s) Served	NBTL	WBL	EBTL	NBL	SBTL	EBL	WBTL	
Maximum Green (s)	35.0	10.0	30.0	12.0	18.0	5.0	35.0	
Minimum Green (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
Recall	None	None	None	None	None	None	None	
Avg. Green (s)	31.4	9.6	28.9	11.9	13.9	5.1	39.9	
g/C Ratio	-0.01	-0.01	NA	NA	-0.01	-0.01	NA	
Cycles Skipped (%)	52	5	0	0	2	71	0	and a second of the second
Cycles @ Minimum (%)	0	0	0	0	0	0	0	
Cycles Maxed Out (%)	17	77	77	93	28	29	88	
Cycles with Peds (%)	0	0	0	0	0	0	0	

Controller Summary

Average Cycle Length (s): NA Number of Complete Cycles: 0 C.

Appendix C MaineDOT Crash History Trip Generation Calculations Lane Warrant Sheets

Crash Summary Report

Report Selections and Input Parameters

Report Included			
1320 & Driver Report Included			✓ Exclude First Node □ Exclude Last Node
1320 Included			
✓ Crash Summary II	3		Start Offset: 0 End Offset: 0
ıtail		End Month: 12	10097 18490
Section Detail		hrough Year 2011	Start Node: 10097 End Node: 18490
REPORT SELECTIONS Crash Summary I	REPORT DESCRIPTION Congress St	REPORT PARAMETERS Year 2009, Start Month 1 through Year 2011 End Month:	Route: 0022X

Maine Department Of Transportation - Traffic Engineering, Crash Records Section

Crash Summary I

-		-			-	-	-	-				***************************************	Allega Company of the
		-	Nodes										
Š	Node Description	S S	U/R Total		Injury Crashes	Cras	hes	Per	entA	Percent Annual M Crash Rate Critical	sh Rate	Critical	CRF
			Crashes	¥	Ø	Ω	ပ	E E	Z M	K A B C PD Injury Ent-Veh		Rate	;
18488 0022X - 3.58 Int of BLUEBERRY RD CONGRESS ST	ONGRESS ST	7	_	0	0	0	0	_	0.0	1 0 0 0 1 0.0 5.027 0.07 0.32 Statewide Crash Rate: 0.12	0.07 Crash Rate	0.32	0.00
18490 0022X - 3.78 Intof CONGRESS ST EXIT 7A CONN RD	IT 7A CONN RD HUTCHINS DR 9	ග	8	0	0	4	7	10	44.4	18 0 0 1 7 10 44.4 7.811 0.77 Statewide Crash Rate:	0.77 crash Rate		1.02 0.00 0.62
	NODE TOTALS:	is;	19 0 0 1 7 11 42.1 12.838	0	0	_	7	-	42.1	12.838	0.49	0.68 0.72	0.72

Crash Summary I

							Sections	SU									
Start	End	Element	Offset	Route - MP	Section U/R Total	R T	otal		mjury	Injury Crashes	hes	Δ.	ercent	Annual	Percent Annual Crash Rate Critical	Critical	CRF
Node	Node		Begin - End		Length	S E	Crashes K		A	<u>m</u>	O	6	A B C PD Injury			Kate	reproduction of the second second second second
10097 Int of CONC	18488 3RESS ST.	10097 18488 3105101 0 - 0.30 nt of CONGRESS ST. ENT TO UNMUTUAL	10097 18488 3105101 0 - 0.30 tof CONGRESS ST. ENT TO UNMUTUAL	0022X - 3.28 ST RTE 22	0.30 2	~ 1	quan	0	0 0 0	0	0	house	0.0	0.0 0.01469	22.69 320.06 Statewide Crash Rate: 170.96	22.69 320.06 Crash Rate: 170.96	00.00
18488 Int of BLUE	18490 BERRY RE	18488 18490 3106664 0 - nt of BLUEBERRY RD CONGRESS ST	18488 18490 3106664 0 - 0.20 tof BLUEBERRY RD CONGRESS ST		0.20 2	۸.	4	0	0 0 0 2 2	0	2	2	50.0	0.00982	135.72 350.19 Statewide Crash Rate: 170.96	350,19 ate: 170.96	0.00
Study Ye	Study Years: 3.00	00		Section Totals:	0.50		2	0	0	0	2	က	40.0	0 0 0 2 3 40.0 0.02451	64.99	67.99 288.36	0.24
				Grand Totals:	0.50		24	0	0	-	တ	14	41.7	24 0 0 1 9 14 41.7 0.02451	326.35	326.35 412.80	0.79

Maine Department Of Transportation - Traffic Engineering, Crash Records Section

Crash Summary

						Secti	Section Details	sils						
Start	End	Element	Offset	Route - MP	Total		Injury Crashes	Cras	hes		Crash Report	Crash Date		2
Node	Node		Begin - End		Crashes K	×	⋖	ш	ВСР	ď			Mile Point	Degree
10097	18488	3105101	0 - 0.30	0022X - 3.28	4	0	0	0	0	- American	2010-30437C	12/21/2010	3.29	PD
18488	18490		0 - 0.20	0022X - 3.58	4	0	0	0	7	2	2011-5798C	03/26/2011	3.68	PD
											2010-14623C	07/13/2010	3.70	O
											2010-30418C	12/20/2010	3.74	PD
											2010-3515C	02/16/2010	3.77	O

ന α 0 0 0 Ŋ Totals:

Maine Department Of Transportation - Traffic Engineering, Crash Records Section Crash Summary II - Characteristics

										Cras	nes 0	y Day	Crashes by Day and Hour	Ę											
•					-	AM					훈	Hour of Day	ay					PM							
Day Of Week	12	dem	7	က	4	ro.	ဖ	7	တ	0	10	11 12	2	2	က	4	r2	တ	7	œ	တ	0	~	5	Tot
SUNDAY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MONDAY	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	~	~	Ó	0	0	0	0	0	2
TUESDAY	0	0	0	0	0	0	0		0	0	0	1 0		0	2	က	ಣ	4	0	0	0	0	0	0	han han
WEDNESDAY	0	0	0	0	0	0	0	~	~	~	0	0	0	0	0	2	0	0	0	0	0	0	0	0	9
THURSDAY	0	0	0	0	0	0	0	2	~	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	ಣ
FRIDAY	0	0	0	0	0	0	0	0		0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	4
SATURDAY	0	0	0	0	0	0	0	0	0	0	-	0 0	0	0	0	0	0	0	0	0	0	0	0	0	Low
Totals	0	0	0	0	0	0	0	4	3		-		0	0	7	5	4	7	0	0	0	0	0	0	24
										Veh	icle C	ounts	Vehicle Counts by Type	oe.											
	5	Unit Type	ē			Total				Unit Type	Type			Total	Special										
1-Passenger Car						32	23-Bicyclist	yclist						0											
2-(Sport) Utility Vehicle	'ehicle					თ	24-Witness	ness						4											
3-Passenger Van	_					2	25-Other	her						0	ı										
4-Cargo Van (10K lbs or Less)	K lbs or	rLess	<u></u>			0	Total	elaninia antenante per proposition de la constitución de la constituci	de la company de	Constitution of the second	Account of the second			26	***************************************										
5-Pickup						7																			
6-Motor Home						0																			
7-School Bus						0																			
8-Transit Bus						0																			
9-Motor Coach						0																			
10-Other Bus						0																			
11-Motorcycle						qua.																			
12-Moped						0																			
13-Low Speed Vehicle	ehicle					0																			
14-Autocycle						0																			
15-Experimental						0																			
16-Other Light Trucks (10,000 lbs or Less)	rucks (°	10,000	o sql C	(ssa)		0																			
17-Medium/Heavy Trucks (More than 10,000 lbs)	vy Truc	ks (Mo	ore tha	n 10,0	00	4																			
18-ATV - (4 wheel)	(ie					0																			
20-ATV - (2 wheel)	· (e					0																			
21-Snowmobile						0																			
22-Pedestrian						0																			

Maine Department Of Transportation - Traffic Engineering, Crash Records Section Crash Summary II - Characteristics

Crashes by Driver Action at Time of Crash	rer Ac	ion at	Time	of Cras	qs			Crasl	Crashes by Apparent Physical Condition And Driver	t Phys	ical Co	nditio	n And	Driver		
Driver Action at Time of Crash	7.70	Dr 2	Dr 3	Dr 4	Dr 5	Other	Total	Apparent Physical Condition	e	7	Dr 2	e z	Dr 4	0,50	Other T	Total
								Apparently Normal		23	24	г		0	0	51
No Contributing Action	-	7		0	0	0	4	Physically Impaired or Handicapped	or Handicapped	0	0	0	0	0	0	0
Ran Off Roadway	0	0	0	0	0	0	0	Emotional(Depressed, Angry Disturbed, etc.)	ed, Angry,	0	0	0	0	0	0	0
Failed to Yield Right-of-Way	7	~	0	0	0	0	ო	III (Sick)		0	0	0	0	0	0	0
Ran Red Light	0	0	0	0	0	0	0	Asleep or Fatigued		0	0	0	0	0	0	0
Ran Stop Sign	0	0	0	0	0	0	0	Under the Influence of Medications/Drugs/Alcohol	of Alcohol	₹~	0	0	0	0	0	
Disregarded Other Traffic Sign	0	0	0	0	0	0	0	Other		0	0	0	0	0	0	0
Disregarded Other Road Markings	0	0	0	0	0	0	0	Total		24	24	က	ę.	0	0	52
Exceeded Posted Speed Limit	0	0	0	0	0	0	0									
Drove Too Fast For Conditions	₹~	0	0	0	0	0	~				•					
Improper Turn	~	0	0	0	0	0	-		Driver	Age n	Driver Age by Unit Type	l ype				
Improper Backing	ę-	0	0	0	0	0	ę	Age Driver	er Bicycle	SnowMobile	lobile	Pedestrian	an	ATV	-	Total
Improper Passing	0	0	0	0	0	0	0	09-Under 0	0	0		0		0		0
Wrong Way	0	0	0	0	0	0	0	10-14 0	0	0		0		0		0
Followed Too Closely	4	9	0	0	0	0	10	15-19	0	0		0		0		~
Failed to Keep in Proper Lane	0	0	0	0	0	0	0	20-24 6	0	0		0		0		9
Onerated Motor Vehicle in Erratic	0	0	0	0	0	0	0	25-29 7	0	0		0		0		7
Reckless, Careless, Negligent or	•	,						30-39 10	0	0	_	0		0		10
Aggressive Manner								40-49	0	0	-	0		0		12
Swerved or Avoided Due to Wind,	0	0	0	0	0	0	0	50-59	0	0		0		0		10
Object, Non-Motorist in Roadway								60-69	0	0	_	0		0		ဇ
Over-Correcting/Over-Steering	0	0	0	0	0	0	0	70-79	0	0	_	0		0		ಣ
		· c	c	c	c	c	c	80-Over 0	0	0	_	0		0		0
	o c	o c	· c) 4	o) C	· ~	Unknown 0	0	0	_	0		0		0
Unkhown	>))			>		Total 52	0	0		0		0		52
Total	10	O	dom.	-	0	0	21									

Maine Department Of Transportation - Traffic Engineering, Crash Records Section Crash Summary II - Characteristics

	Most Harmtul	Event			mjury para	
Most Harmful Event	Total	Most Harmful Event Total	- CO	Soverity Code	Initial Crackoc	Number Of
1-Overturn / Rollover	0	38-Other Fixed Object (wall, building, tunnel, etc.) 0		Severity code		Injuries
2-Fire / Explosion	0	39-Unknown		×	0	0
3-Immersion	0	40-Gate or Cable 0		A	0	0
4-Jackknife	0	41-Pressure Ridge 0	10000	8	_	done
5-Cargo / Equipment Loss Or Shift	0	Total		O	တ	12
6-Fell / Jumped from Motor Vehicle	0			PD	4	0
7-Thrown or Falling Object	0				ACONTRACTOR OF THE PROPERTY OF	
8-Other Non-Collision	0			2	47	<u></u>
9-Pedestrian	0					
10-Pedalcycle	0				Road Character	
11-Railway Vehicle - Train, Engine	0				Road Grade	Total
12-Animal	0			1-Level		20
13-Motor Vehicle in Transport	*			2-On Grade		4
14-Parked Motor Vehicle	2			3-Top of Hill		0
15-Struck by Falling, Shifting Cargo or Anything Set in Motion by Motor Vehicle	0	Traffic Control Devices		4-Bottom of Hill		0 0
16-Work Zone / Maintenance Equipment	0	Traffic Control Device Total			en de mais de la destación de la company de la company La company de la company d	
17-Other Non-Fixed Object	0	1-Traffic Signals (Stop & Go)		otal		24
18-Impact Attenuator / Crash Cushion	0	2-Traffic Signals (Flashing)				
19-Bridge Overhead Structure	0	3-Advisory/Warning Sign 0				
20-Bridge Pier or Support	0	4-Stop Signs - All Approaches 0) in a	
21-Bridge Rail	0	5-Stop Signs - Other			Light Condition	Total
22-Cable Barrier	0			1-Daylight		14
23-Culvert	0	7-Curve Warning Sign		2-Dawn		က
24-Curb	0	8-Officer, Flagman, School Patrol 0		3-Dusk		Acres
25-Ditch	0	9-School Bus Stop Arm 0		4-Dark - Lighted		9
26-Embankment	0	10-School Zone Sign 0		5-Dark - Not Lighted	ted	0
27-Guardrail Face	0	11-R.R. Crossing Device 0		6-Dark - Unknown Lighting	n Liahting	0
28-Guardrail End	0	12-No Passing Zone 0		7-l Inknown))	0
29-Concrete Traffic Barrier	0	13-None 4			oran aconocerno responsibilità del misso del menore del menore del menore del menore del menore del menore del Reference del menore de	ATTENDED OF THE PROPERTY OF T
30-Other Traffic Barrier	0	14-Other 0		otal		74
31-Tree (Standing)	0	Total	II			
32-Utility Pole / Light Support	0					
33-Traffic Sign Support	0					
34-Traffic Signal Support	han					
35-Fence	0					
36-Mailbox	0					
37-Other Post Pole or Support	0					

Maine Department Of Transportation - Traffic Engineering, Crash Records Section **Crash Summary II - Characteristics**

Crashes by Year and Month

Month	2009	2010	10 2011	Total
JANUARY	4		2	4
FEBRUARY	0	- American	0	
MARCH	0	0		4
APRIL	0	0	0	0
MAY	2	0		m
JUNE	from	0	0	~
JULY	0	home	0	_
AUGUST	~	7	-	4
SEPTEMBER	Norm	- Acres	0	2
OCTOBER	0	Acres .	0	~
NOVEMBER	0	2	0	2
DECEMBER	0	က		4
Total	9	12	2 6	24

Report is limited to the last 10 years of data.

Maine Department Of Transportation - Traffic Engineering, Crash Records Section

Crash Summary II - Characteristics crashes by Crash Type and Type of Location

Crash Type	Straight Road	Curved	Three Leg Intersection	Three Leg Four Leg Intersection	Five or More Leg Intersection	Driveways	Bridges	interchanges	Other	Parking Lot	Private Way (Cross Over	Railroad Crossing	Total
Object in Road	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rear End / Sideswipe	7	0	4	16	0	0	0	0	0	0	0	0	0	19
Head-on / Sideswipe	0	0.	0	0	0	0	0	0	0	0	0	0	0	0
Intersection Movement	0	0	0	74	0	7	0	0	0	0	0	0	0	4
Pedestrians	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tain	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Went Off Road	how	0	0	0	0	0	0	0	0	0	0	0	0	- from
All Other Animal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bicycle	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jackknife	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rollover	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fire	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Submersion	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thrown or Falling Object	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bear	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Deer	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Moose	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Turkey	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	3		Antonio del composito del comp	18		2	0	0	0		0	0	0	24

Crash Summary II - Characteristics

			Crashes		by Weather, Light Condition and Road Surface	ondition a	nd Road St	ırface				
Weather Light	Dny	ice/Frost	Mud, Dirt, Gravel	ō	Other	Sand	Slush	Snow	Unknown	Water (Standing, Moving)	Wet	Total
Blowing Sand, Soil, Dirt												
Dark - Lighted	0	0	0	0	0	0	0	0	0	0	0	0
Dark - Not Lighted	0	0	0	0	0	0	0	0	0	0	0	0
Dark - Unknown Lighting	0	0	0	0	0	0	0	0	0	0	0	0
Dawn	0	0	0	0	0	0	0	0	0	0	0	0
Daylight	0	0	0	0	0	0	0	0	0	0	0	0
Dusk	0	0	0	0	0	0	0	0	0	0	0	0
Unknown	0	0	0	0	0	0	0	0	0	0	0	0
Blowing Snow											A USA PER A PROPERTY OF THE PR	пропологиот некамальный применений применени
Dark - Lighted	0	0	0	0	0	0	0	0	0	0	0	0
Dark - Not Lighted	0	0	0	0	0	0	0	0	0	0	0	0
Dark - Unknown Lighting	0	0	0	0	0	0	0	0	0	0	0	0
Dawn	0	0	0	0	0	0	0	0	0	0	0	0
Daylight	0	0	0	0	0	0	0	0	0	0	0	0
Dusk	0	0	0	0	0	0	0	0	0	0	0	0
Unknown	0	0	0	0	0	0	0	0	0	0	0	0
Clear							очения поставляния при				PRODUCED BEEFFER SERVICE SERVI	NATE TRANSPORTED STREET, THE PROPERTY OF THE P
Dark - Lighted	2	0	0	0	0	0	0	0	0	0		က
Dark - Not Lighted	0	0	0	0	0	0	0	0	0	0	0	0
Dark - Unknown Lighting	0	0	0	0	0	0	0	0	0	0	0	0
Dawn	က	0	0	0	0	0	0	0	0	0	0	က
Daylight	9	que	0	0	0	0	0	0	0	0	0	7
Dusk	4	0	0	0	0	0	0	0	0	0	0	que
Unknown	0	0	0	0	0	0	0	0	0	0	0	0
Cloudy								emiddelicate (microsoft essection) (microsoft essection)		ACAPATINICA PLACITIFICIPA PRIMATERIA I DEL CAPATRO CONTROLO CONTROLO CONTROLO CONTROLO CONTROLO CONTROLO CONTRO	OM SERVICION DE L'ANNE DE LA COMPTE DE L'ANNE DE L	
Dark - Lighted	0	0	0	0	0	0	0	0	0	0	0	0
Dark - Not Lighted	0	0	0	0	0	0	0	0	0	0	0	0
Dark - Unknown Lighting	0	0	0	0	0	0	0	0	0	0	0	0
Dawn	0	0	0	0	0	0	0	0	0	0	0	0
Daylight	2	0	0	0	0	0	0	0	0	0	0 '	7 (
Dusk	0	0	0	0	0	0	0	0	0	0	0 (0 (
Unknown	0	0	0	0	0	0	0	0	0	0	0	o

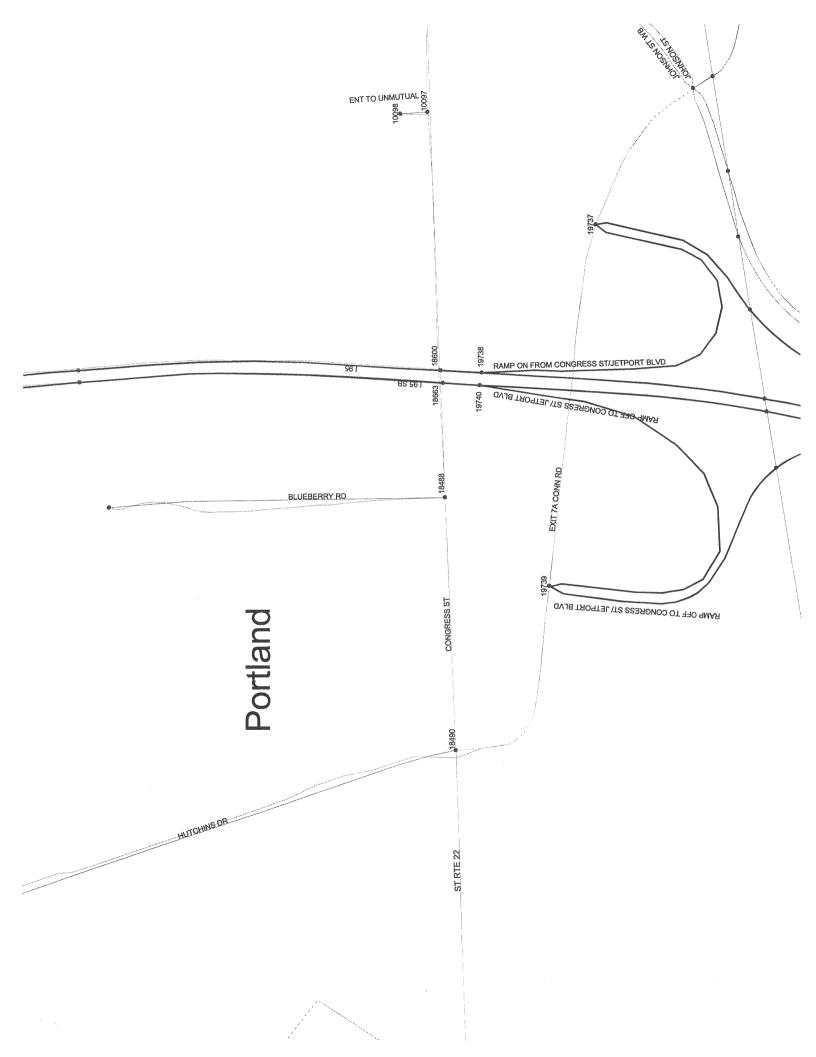
Crash Summary II - Characteristics

			Crashes	by Weath	ier, Light C	ondition a	Crashes by Weather, Light Condition and Road Surface	face				
Weather Light	Dny	Ice/Frost	Mud, Dirt, Gravel	li O	Other	Sand	Slush	Snow	Unknown	Water (Standing, Moving)	Wet	Total
Fog, Smog, Smoke												
Dark - Lighted	0	0	0	0	0	0	0	0	0	0	0	0
Dark - Not Lighted	0	0	0	0	0	0	0	0	0	0	0	0
Dark - Unknown Lighting	0	0	0	0	0	0	0	0	0	0	0	0
Dawn	0	0	0	0	0	0	0	0	0	0	0	0
Daylight	0	0	0	0	0	0	0	0	0	0	0	0
Dusk	0	0	0	0	0	0	0	0	0	0	0	0
Unknown	0	0	0	0	0	0	0	0	0	0	0	0
Other									WAS THE TAXABLE TO TH	do polenio habel dell'imbole do britante do polenio presidente dell'imbole delle primere primere delle primere		
Dark - Lighted	0	0	0	0	0	0	0	0	0	0	0	0
Dark - Not Lighted	0	0	0	0	0	0	0	0	0	0	0	0
Dark - Unknown Lighting	0	0	0	0	0	0	0	0	0	0	0	0
Dawn	0	0	0	0	0	0	0	0	0	0	0	0
Daylight	0	0	0	0	0	0	0	0	0	0	0	0
Dusk	0	0	0	0	0	0	0	0	0	0	0	0
Unknown	0	0	0	0	0	0	0	0	0	0	0	0
Rain							осо-видуст і і противня віднивання расположен, подуходження в			edina ka de en	н Судом обласова на предоставления на предоставления на предоставления на предоставления на предоставления на п	
Dark - Lighted	0	0	0	0	0	0	0	0	0	0	0	0
Dark - Not Lighted	0	0	0	0	0	0	0	0	0	0	0	0
Dark - Unknown Lighting	0	0	0	0	0	0	0	0	0	0	0	0
Dawn	0	0	0	0	0	0	0	0	0	0	0	0
Daylight	0	0	0	0	0	0	0	0	0	0	4	4
Dusk	0	0	0	0	0	0	0	0	0	0	0	0
Unknown	0	0	0	0	0	0	0	0	0	0	0	0
Severe Crosswinds								ne implimentationolationolationolation and medical	a en a es es es especión (el la distribución de la	ALAM MENDELANDY SCRIPTION AND AND REPORT AND	AND THE PROPERTY OF THE PROPER	acoleooloi assudiistoomis pääletevä jänysäätysäätyön siinäytäjä jäjä jäjä järästöö
Dark - Lighted	0	0	0	0	0	0	0	0	0	0	0	0
Dark - Not Lighted	0	0	0	0	0	0	0	0	0	0	0	0
Dark - Unknown Lighting	0	0	0	0	0	0	0	0	0	0	0	0 (
Dawn	0	0	0	0	0	0	0	0	0	0	0	0
Daylight	0	0	0	0	0	0	0	0	0	0	0	0 (
Dusk	0	0	0	0	0	0	0	0	0	0 (0 (0 (
Unknown	0	0	0	0	0	0	0	0	0	0	0	o

Maine Department Of Transportation - Traffic Engineering, Crash Records Section

Crash Summary II - Characteristics

			Crashes	ূর	er, Light C	ondition a	Weather, Light Condition and Road Surface	ırface				
Weather Light	Dry	Ice/Frost	Mud, Dirt, Gravel	ĪŌ	Other	Sand	Slush	Snow	Unknown	Water (Standing, Moving)	Wet	Total
Sleet, Hail (Freezing Rain or Drizzle)	izzle)										ооудалия фологу фармулуналууналууналууналууна одамын ыны	окада фашину каримеро положения выполняла верено положения мера
Dark - Lighted	0	0	0	0	0	0	0	0	0	0	0	0
Dark - Not Lighted	0	0	0	0	0	0	0	0	0	0	0	0
Dark - Unknown Lighting	0	0	0	0	0	0	0	0	0	0	0	0
Dawn	0	0	0	0	0	0	0	0	0	0	0	0
Daylight	0	-	0	0	0	0	0	0	0	0	0	ζ
Dusk	0	0	0	0	0	0	0	0	0	0	0	0
Unknown	0	0	0	0	0	0	0	0	0	0	0	0
Snow							EDIO 89 ZEWNEJ REZY OF ORMANDO PEROVALUES (SIGNOSE ESCAPERE ESCAPE	он достана судавания выполня дене достана в полности	vacquiris poor do serve red timo occos entropole e friend de cicamento		***************************************	Distance (Control of the Control of
Dark - Lighted	0	3	0	0	0	0	0	0	0	0	0	က
Dark - Not Lighted	0	0	0	0	0	0	0	0	0	0	0	0
Dark - Unknown Lighting	0	0	0	0	0	0	0	0	0	0	0	0
Dawn	0	0	0	0	0	0	0	0	0	0	0	0
Daylight	0	0	0	0	0	0	0	0	0	0	0	0
Dusk	0	0	0	0	0	0	0	0	0	0	0	0
Unknown	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	14	2	0	0	0	0	0	0	0	0	0	24



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JN: Project Description: Project Location: Date:

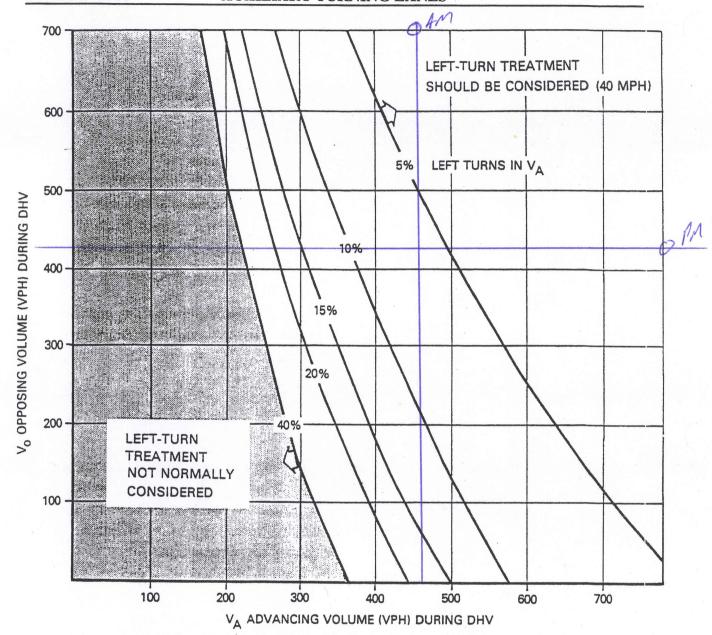
Convenience Market with Gasoline Pumps Land Use Code (LUC) 853

Gorrill-Palmer Consulting Engineers, Inc. P.O. Box 1237
15 Shaker Road
Gray, Maine 04039

7

Vehicle Fueling Positions:

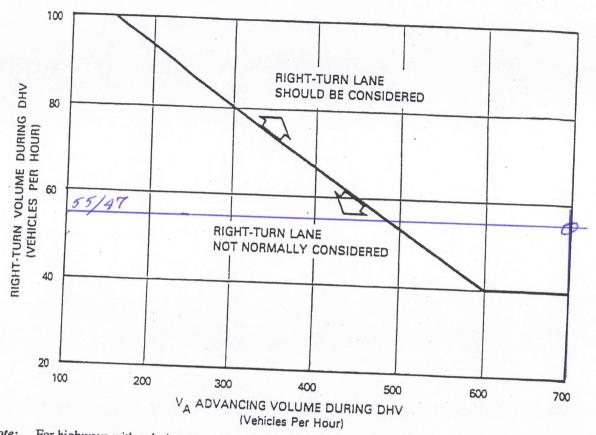
7 2	N/A	N/A	N/A	N/A	N/A	A/N	AN	× ×			R ²	N/A	. ∀X	N/A	N/A	N/A	N/A	N/A	N/A		R ₂	M/A	7//1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Distribution OUT	3798	116	133	119	140	1431	70	1168			Distribution OUT	1628	84	115	87	120	2788	88	2275	%	Distribution	2743	21.77	101	125	103	131	2110	80	1722	%
Directional Distribution IN OUT	3798	116	134	119	140	1432	70	1168	* Percentages rounded to nearest 5%		Directional Distribution	1628	85	115	87	121	2788	88	2276	* Percentages rounded to nearest 5%	Directional Distribution	2713	C	100	124	103	130	2110	62	1722	* Percentages rounded to nearest 5%
Directional Split *	20%	%09	20%	20%	%09	20%	20%	20%	epunou set		Directional Split *	20%	20%	20%	20%	20%	20%	%09	20%	ses rounder	Directional Split *	50%	200	20%	20%	20%	20%	%09	20%	20%	epunou set
Direction IN	20%	20%	20%	20%	%09	20%	20%	20%	* Percentaç		Direction	50%	20%	20%	20%	20%	20%	20%	20%	* Percentag	Direction	F002	2 2	%09	20%	%09	%09	20%	%09	20%	* Percenta
Trip Ends	7596	232	267	238	280	2863	140	2336			Trip Ends	3256	169	230	174	241	5576	177	4551		Trip Ends	5406	3450	201	249	206	261	4220	159	3444	
# of Sources	10	28	54	26	46	ď	, 0	4 67	PROTECTION OF SETS AND		# of Sources	40	2 6	22.0	26	46	က	м	က	necessary or provide the control of	# of Sources	VIV	C/NI	N/A	N/A	N/A	N/A	Ϋ́ V	N/A	N/A	MINISTER BETTE DOUGH FOR THE RESYNCHING FRANCH FOR THE FACE OF THE FOREST STATEMENT STATEM
ITE Trip Rate (Average Rate)	T = 542.60 (X)	T = 16.57 (X)	T = 19.07 (X)	T = 17.03 (X)	T = 19.98 (X)	T = 204.47 (X)	T = 10 00 (X)	T = 166.88 (X)	описантине при	3,850	ITE Trip Rate	T - 845 GO (X)	T = 43.90 (X)	T = 59 69 (X)	T = 45.23 (X)	T = 62.57 (X)	T = 1448.33(X)	T = 45.94 (X)	T = 1182.08(X)		ITE Trip Rate	(Average Kate)		A/N	N/A	N/A	N/A	Υ/Z	A/N	N/A	LECTRONICATION DE LIGITATION DE L'ACTUAL D
Time Period	Weekday	AM Peak Hour of Adjacent Street Traffic	PM Peak Hour of Adjacent Street Traffic	AM Peak Hour of Generator	PM Peak Hour of Generator	Sahirday	Sat Daak Hr Gen	Sinday	TOTAL TOTAL STATEMENT AND	Gross Floor Area (ft²):	Time Period		AM Deak Hour of Adjacent Street Traffic	PM Peak Hour of Adjacent Street Traffic	AM Peak Hour of Generator	PM Peak Hour of Generator	Saturday	Sat Peak Hr Gen	Sunday	Average	Time Period		vveekday	AM Peak Hour of Adjacent Street Traffic	PM Peak Hour of Adjacent Street Traffic	AM Peak Hour of Generator	PM Peak Hour of Generator	Saturday	Sat Peak Hr Gen	Sunday	



Instructions:

- 1. The family of curves represent the percent of left turns in the advancing volume (V_A) . The designer should locate the curve for the actual percentage of left turns. When this is not an even increment of 5, the designer should estimate where the curve lies.
- 4. Read V_A and V_O into the chart and locate the intersection of the two volumes.
- 5. Note the location of the point in #2 relative to the line in #1. If the point is to the right of the line, then a left-turn lane is warranted. If the point is to the left of the line, then a left-turn lane is not warranted based on traffic volumes.

VOLUME WARRANTS FOR LEFT-TURN LANES AT UNSIGNALIZED INTERSECTIONS ON 2-LANE HIGHWAYS (40 mph)



For highways with a design speed below 50 mph and DHV<300 and Right Turns>40, an adjustment should Note: be used. To read the vertical axis of the chart, subtract 20 from the actual number of right turns.

Example

Given:

Design Speed = 40 mph

 $V_A = 250 \text{ vph}$

Right Turns = 100 vph

Problem: Determine if a right-turn lane should be considered.

Solution: To read the vertical axis, use 100-20 = 80 vph. The figure indicates that a right-turn lane should not normally be considered, unless other factors (e.g., high accident rate)

indicate a lane is needed.

GUIDELINES FOR RIGHT-TURN LANES AT UNSIGNALIZED INTERSECTIONS ON 2-LANE HIGHWAYS