

**CITY OF FORT COLLINS
TYPE 1 ADMINISTRATIVE HEARING
FINDINGS AND DECISION**

HEARING DATE: March 18, 2014

PROJECT NAME: The Learning Experience at Miramont Office Park Project

CASE NUMBER: PDP130023

APPLICANT: Adam Rubenstein
Fort Collins Development Co., LLC
5150 East Yale Circle, Suite 400
Denver, CO 80222

OWNER: Miramont Office Park, LLC
4901 Hogan Drive
Fort Collins, CO 80525

HEARING OFFICER: Kendra L. Carberry

PROJECT DESCRIPTION: This is a request for approval of a Project Development Plan (PDP) for the Learning Experience at Miramont Office Park, with one modification of standard to reduce the size of the outdoor play area. The project is located at 4775 Boardwalk Drive and encompasses two parcels, totaling 70,289 square feet or 1.61 acres. The PDP proposes a 10,000 square feet building and 4,524 square feet of outdoor play area to be used as a Child Care Center.

SUMMARY OF DECISION: Approved

ZONE DISTRICT: Harmony Corridor District (H-C)

HEARING: The Hearing Officer opened the hearing at approximately 5:30 p.m. on March 18, 2014, in Conference Room A, 281 North College Avenue, Fort Collins, Colorado.

EVIDENCE: During the hearing, the Hearing Officer accepted the following evidence: (1) Planning Department Staff Report; (2) application, plans, maps and other supporting documents submitted by the applicant (the Land Use Code (the "Code"), the Comprehensive Plan and the formally promulgated policies of the City are all considered part of the record considered by the Hearing Officer).

TESTIMONY: The following persons testified at the hearing:

From the City:	Noah Beals
From the Applicant:	Adam Rubenstein
From the Public:	N/A

FINDINGS

1. Evidence presented to the Hearing Officer established the fact that the hearing was properly posted, legal notices mailed and notice published.
2. The PDP complies with the applicable General Development Standards contained in Article 3 of the Code.
 - a. The PDP complies with Section 3.2.1, Landscaping and Tree Protection, because: the tree mitigation plan was approved by the City Forester; existing street trees will be preserved; and three trees on the property will be relocated.
 - b. The PDP complies with Section 3.2.2, Access, Circulation and Parking, because: the PDP includes sidewalk connections extending to Boardwalk Drive, to the adjacent office building, and to a pedestrian path connecting with the neighborhood to the west; bicycle parking is provided near the building's main entrance, but separated from the motor vehicle parking; the parking and circulation was already established, with the only improvements being new crosswalk striping in the drive aisle, which will alleviate potential vehicle and pedestrian conflicts; and the requirements for parking spaces and dimensions are satisfied.
 - c. The PDP complies with Section 3.2.4, Site Lighting, because: the photometric plan complies with the average minimum foot-candles for parking areas and building surrounds; and the one type of light fixture being added to the site includes a light source that is down directional and fully shielded.
 - d. The PDP complies with Section 3.4.1, Natural Habitats and Features, because the property does not include any natural areas, habitats, or features within, or 500' outside of its boundaries.
 - e. The PDP complies with Section 3.5.3, Institutional and Commercial Buildings, because: the building provides a play yard, an increase in the number of trees and variety in landscaping, all compensating for the lack of compliance with the 15' of the right-of-way build-to-line requirement; the building elevations provide a recognizable base and top treatment; and the overall design provides variation in massing.
 - f. The PDP complies with Section 3.6.3, Street Pattern and Connectivity Standards, because the PDP maintains the two vehicle access points to Boardwalk Drive and the drive aisle internal to the site.
 - g. The PDP complies with Section 3.6.4, Transportation Level of Service Requirements, because the vehicular, pedestrian and bicycle facilities are consistent with the standards contained in Part II of the City's Multimodal Transportation Level of Service Manual.

3. The PDP complies with the applicable standards contained in Article 4 of the Code for the H-C zone district.

a. The PDP complies with Section 4.26(B), Permitted Uses, because a child care center is a permitted use in the H-C zone district.

b. The PDP complies with Section 4.26(D)(3)(a), Land Use Standards, because the proposed building is 1 story in height, below the 6-story maximum.

c. The PDP complies with Section 4.26(E)(1)(b), Development Standards, because the PDP complies with the H-C District Plan and the H-C Design Standards.

4. The Modification of Standard meets the applicable requirements of Section 2.8.2(H) of the Code.

a. The Modification would not be detrimental to the public good.

b. The PDP will promote the general purpose of Section 3.8.4(A) equally well or better than a plan which complies with Section 3.8.4(A), because the proposed outdoor play area provides enough square footage for those children using the area at one time.

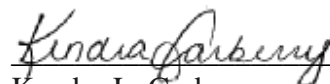
c. The standard is intended to provide enough outdoor play area for the children who are using the area at one time. Although the center will have a capacity of 170 children, the applicant has stated that at most only 56 children would be using the outdoor play area at one time, which is equal to the 33% of the total capacity of the center. The applicant's proposal to provide 75 square feet of outdoor play area for 33% of the total child capacity is sufficient outdoor play space tailored to the applicant's specific operations.

DECISION

Based on the foregoing findings, the Hearing Officer hereby enters the following rulings:

1. The PDP and Modification of Standard are approved as submitted.

DATED this 26th day of March, 2014.



Kendra L. Carberry
Hearing Officer



ITEM NO PDP130023

MEETING DATE March 18th, 2014

STAFF Noah Beals

ADMINISTRATIVE HEARING OFFICER

STAFF REPORT

PROJECT: The Learning Experience at Miramont Office Park Project Development Plan, PDP130023,

APPLICANT: Adam Rubenstein, Fort Collins Development CO. LLC
5150 East Yale Circle, Suite 400
Denver, CO 80222

OWNER: Miramont Office Park LLC
4901 Hogan Drive
Fort Collins, CO 80525

PROJECT DESCRIPTION:

This is a request for approval of a Project Development Plan (PDP) for The Learning Experience at Miramont Office Park. The project is located at 4775 Boardwalk Drive and encompasses two parcels. Together the two parcels are 70,289 square feet or 1.61 acres.

The project proposes to erect a 10,000 square feet building and landscape 4,524 square feet of outdoor play area to be used as a Child Care Center. The property is zoned Harmony Corridor District (H-C). The Child Care Center will be able to accommodate 170 kids and 30-35 employees. A previously installed parking lot contains 73 spaces and the project will provide an additional 4 bike parking spaces. Direct connections to the established sidewalks both in the public right-of-way and on the adjacent lot will be installed. The proposed use is permitted in this zone district. In addition the proposal includes a modification request to allow a reduction of outdoor play area.

RECOMMENDATION: Staff recommends approval of The Learning Experience at Miramont Office Park Project Development Plan, PDP130023, and Modification of Standard to Section 3.8.4(A).

EXECUTIVE SUMMARY:

The approval of The Learning Experience at Miramont Office Park Project Development Plan complies with the applicable requirements of the City of Fort Collins Land Use Code (LUC), more specifically:

- The Learning Experience at Miramont Office Park PDP complies with process located in Division 2.2 – Common Development Review Procedures for Development Applications of Article 2 – Administration.
- The Learning Experience at Miramont Office Park PDP is in conformance with Oak/Cottonwood Amended Overall Development Plan approved by the Planning and Zoning Board in March 1997.
- The Learning Experience at Miramont Office Park PDP complies with relevant standards located in Article 3 – General Development Standards, provided that the Modification of Standard to section 3.8.4(A) that is proposed with this project is approved.
- The Learning Experience at Miramont Office Park PDP complies with relevant standards located in Division 4.26, Harmony Corridor District (H-C) of Article 4 – Districts.

COMMENTS:

1. Background:

Historically the following approvals have been granted to the property:

- Keenland Annexation , City Council August 1980
- Oak/Cottonwood ODP, Planning and Zoning Board – October 1988
- Amendment to Oak/Cottonwood ODP – June 1992
- Amendment to Oak/Cottonwood ODP – March 1997
- Miramont Office Park, Planning and Zoning Board – September 1997
- Miramont Office Park, Final Plan recorded – February 1998

Today the property is partially developed. The parking lot has already been installed and public right of way improvements were constructed. The building area is vacant land vegetated with natural grass.

Zoning History (most recent to past):

- The property is currently located in the Harmony Corridor District (H-C). The current H-C District was adopted in 1997 at the time the Land Use Code was adopted and the entire City was rezoned. It should be noted that the Harmony Corridor Plan and the Harmony Corridor Design Standards and Guidelines were adopted in March of 1991.

- Prior to the adoption of the Land Use Code and the rezoning to the H-C District, the property was zoned Residential Planned (rp) conditional zoning. The rp zone district was adopted at the time of the Keenland Annexation in 1980. This zone district was in accordance with the adopted Zoning Code at the time.

The current surrounding zoning and land uses are as follows:

Direction	Zone District	Existing Land Use
North	Harmony Corridor (H-C)	Commercial: Business Offices
South	Harmony Corridor (H-C)	Vacant parcel: Part of the Miramont Self Storage PUD approved for offices
East	Harmony Corridor (H-C)	Commercial and Public Right-of-Way: Boardwalk Drive and Sam's Club
West	Harmony Corridor (H-C)	Place of Worship: Front Range Baptist Church and the church's open space

2. **Compliance with Article 4 of the Land Use Code – Harmony Corridor (H-C):**

The project complies with all applicable Article 4 standards as follows:

A. **Section 4.26(A) and (B) – Permitted Uses**

- The project's proposed Child Care Center use is aligned with the purpose of the Harmony Corridor District to create a complete mixed-use area with a strong employment base. The Child Care Center is a permitted use in Harmony Corridor district.

B. **Section 4.26(D) – Land Use Standards**

- Section 4.26(D)(3)(a) establishes a maximum height of six (6) stories the proposed building complies with this standard at height of one (1) story.

C. **Section 4.26(E) – Development Standards**

- Section 4.26(E)(1)(b) requires that compliance with the adopted Harmony Corridor District Plan and the Harmony Corridor Design Standards. The proposed development is in compliance with both documents.

- Section 4.26(E)(2)(a) promotes, in cases of multiple parcel ownership, that development plans establish integrated building styles and land uses. The design proposal of the new building is in sync with the other buildings in the office park that are 1 to 2 story, hipped and gable roofs, and consist of stucco with a stone wainscot.

3. Compliance with Article 3 of the Land Use Code – General Development Standards

The project complies with all applicable General Development Standards; with the following relevant comments.

A. Division 3.2 – Site Planning and Design Standards

1) 3.2.1 Landscaping and Tree Protection:

- A detailed tree mitigation plan is provided with this PDP. This plan was designed with the coordination and has received approval by the City Forester. In effort to not lose any of the existing tree canopy the existing street trees will be preserved and 3 trees within the site will be relocated.
- “Full Tree Stocking” is provided along all four sides of the building.

2) 3.2.2 Access, Circulation and Parking:

By design the Land Use Code encourages patrons of the site to explore other modes of transportation than the vehicle. This is accomplished by requiring sidewalk connections, bicycle accommodations, and limiting the number of off-street vehicle parking spaces for a non-residential use. The proposed project is in compliance of these standards through the following:

- Sidewalk connections are proposed to extend to Boardwalk Drive, to the adjacent office building, and to a pedestrian path that connects to the neighborhood to the West. As required, the sidewalk system provided contributes to the attractiveness of the development.
- Bicycle parking is provided on site near the building's main entrance and is separated from the vehicle parking. These bike spaces can be accessed through the sidewalk connections or the driveways that lead into the site.

- The parking and circulation was already established. Only improvements proposed are two crosswalk striping's in the drive aisle to help alleviate any impacts from vehicle and pedestrian conflicts. Parking requirements in regards to the maximum numbers of spaces and dimensions of stalls are being met.

3) 3.2.4 Site Lighting:

- A photometric plan was submitted for the project. As proposed, the project complies with the average minimum foot-candles for parking areas and building surrounds.
- Only one type of Light fixture is being added to the site on the outside of the building. This fixture meets the code standards with a light source that is down directional and fully shielded.

B. Division 3.4 – Environmental, Natural Area, Recreational and Cultural Resource Protection Standards

1) 3.4.1 Natural Habitats and Features:

- The Learning Experience at Miramont site does not include any natural areas, habitats, and features within and 500 feet outside of its boundaries.

C. Division 3.5 – Building Standards

1) 3.5.3 Institutional and Commercial Buildings

- Although the proposed building does not meet the required build-to-line to be within 15 feet of the right-of-way it complies with the exception to the standard allowed by this section. By providing a play-yard, an increase of trees, and variety in landscaping in-between the building and the right-of-way it provides interest and comfort for pedestrians.
- The proposed building elevations provide a recognizable base and top treatment in accordance with Section 3.5.3(D)(6).
- The overall design satisfies the institutional building requirements of Section 3.5.3. "Variation in massing". This is satisfied through the use of building projections over the primary entrances and with sloping roofs that provide a variation in height.

D. Division 3.6 – Transportation and Circulation

1) 3.6.3 Street Pattern and Connectivity Standards:

- The project continues to comply with the general framework established with the Overall Development Plan. The project maintains the two vehicle access points to Boardwalk Drive and the drive aisle internal to the site.

2) 3.6.4 Transportation Level of Service Requirements:

- Traffic Operations have reviewed the Transportation Impact Study that was submitted to the City and have determined that the vehicular, pedestrian and bicycle facilities proposed with this PDP are consistent with the standards contained in Part II of the City of Fort Collins Multi-modal Transportation Level of Service Manual.

4. Modification of Standards – Division 2.8

There is one request of modification with this project.

A. Modification Request

The applicant requests a modification of standard to Sections 3.8.4(A) to allow a decrease in the amount of square footage required for a Child Care Center. The request is to provide 4,524 square feet. This is 3,226 square feet less than the standard.

1) The Standard

- 3.8.4(A) A minimum of two thousand five hundred (2,500) square feet of outdoor play area shall be provided for fifteen (15) children or fewer, with seventy-five (75) additional square feet being required for each additional child, except that the size of the total play area need only accommodate at least fifty (50) percent of the capacity of the center, and that such outdoor play area shall not be required for drop-in child care centers...
- The following table illustrates the required square footage for the outdoor play area for The Learning Center at Miramont Office Park.

Calculation of Required Square Footage Per Land Use Code	
The minimum square footage for outdoor Play Area for 15 children or fewer.	2,500 Sq. Ft.
The Learning Center at Miramont Office Park Capacity	170 Children
50% of the Capacity of Center	$170/2=85$ Children
An additional 75 sq. ft. For every additional child above the initial 15 of half the Capacity	$85-15=70$ Children $70 \times 75=5,250$ Sq. ft.
Total square footage required	$2,500+5,250=7,750$ Sq. Ft.

2) Section 2.8 Code Criteria

The request of approval for this modification is based on the Review Criteria for Modification of Standards found in Section 2.8.2(H) and 2.8.2(H)(1) as follows:

- The granting of the modification would not be detrimental to the public good.
- The plan as submitted will promote the general purpose of the standard for which the modification is requested equally well or better than a plan which complies with the standard for which a modification is requested.

3) Applicant's Justification

The applicant has provided the following justification for the modification request:

- *The reduced playground size, 4,524 sf complies with both Federal and Colorado State licensing codes.*
 - *According to Colorado State regulations, 12 CCR 2509-8 Program Area 7-Child Care Center/less than 24 Hour Care, section 7.702-7.702.104 goes over space requirements. Specifically, for outdoor play area requirements, the State requires us to have a minimum of 75 square feet of space per child for a group of children using the total play area at any one time. The total square footage must accommodate*

at least 33% of the licensed capacity of the center or a minimum of 1,500 sf, whichever is greater.

- *We are anticipating a capacity of 170 children. Based on the above requirements, we will have a maximum of 56 children outside at one time. Based on the State requirements, we will need to have 4,200 sf of space for our children. As we want to build as much outdoor space as possible, we are building an additional 324 sf of playground space; thus a 4,524 sf playground.*
- *Further, the way The Learning Experience operates their outside areas (and per Colorado State Code and Regulations) is play time is determined by age groups. We do not have 1-2 year old children outside with 4-5 year old children. The reduced playground size helps our staff and educators supervise the children outside to ensure everyone's safety. We do not feel a 7,750 sf playground is necessary with the limited amount of children that will be outside at any given time as we limit the play time per the age groups. With a larger playground and less children, there is more room for errors and mistakes to be made as there are not enough sets of eyes supervising the children; a larger space increases the likely hood of injury and/or mischief.*
- *Another factor in asking for a modification request is the land limitations. We are taking the fifth and last parcel of a planned development. Per the site plan, we only have so much land we can build on without effecting the entire development. To the north and west of the site, parking fields have already been created. We cannot take away parking spaces for the four other buildings, and our use, and still meet code.*
 - *To the south and east of the site, there is a detention pond. We are able to encroach to the east of the detention pond, by drudging out the pond to the south to make up for lost capacity. However, we still need enough capacity for not only our building and the four other buildings in the office park, but also the church that is to the northeast of our property. We physically cannot get a 7,750 sf playground on this location; however, based on a 4,524 sf playground, we still meet Colorado State regulations for playground size without being detrimental to our neighboring buildings.*

4) Staff Finding for the Modification

Staff finds that the request for Modification of Standard to Section 3.8.4(A) is justified by the applicable standards in 2.8.2(H). The granting of the Modifications would not be detrimental to the public good and:

- The request satisfies Criteria 2.8.2(H)(1) because the plan as submitted will promote the general purpose of the standard equally well or better than a plan which complies with the standard based on the justification statement provided by the applicant and in addition:
 - The standard is intended to provide enough outdoor play area for the children who are using this area at one time. Although the center has a capacity of 170 children, the applicant has stated that at most only 56 children would be using the outdoor play area at one time, which is equal to the 33% of the total capacity of the center. The applicant's proposal to provide 75 square feet of outdoor play area for 33% of the total child capacity is sufficient outdoor play space tailored to their specific operations.

5. **Findings of Fact/Conclusion**

In evaluating the request for The Learning Experience at Miramont Office Park Project Development Plan, Staff makes the following findings of fact:

- A. The Modification of Standard to Section 3.8.4(A) regarding the decrease in required outdoor play area that is proposed with this PDP would not be detrimental to the public good and the modification meets the applicable requirements of Section 2.8.2(H)(1). The proposed plan will promote the general purpose of the standard equally well or better than a plan which complies with the standard due to the proposed outdoor play area provides enough square footage for those children using the area at one time.
- B. The Learning Experience at Miramont Office Park PDP complies with process located in Division 2.2 – Common Development Review Procedures for Development Applications of Article 2 – Administration.
- C. The Learning Experience at Miramont Office Park PDP is in conformance with Oak/Cottonwood Amended Overall Development Plan approved by the Planning and Zoning Board in March 1997.

- D. The Learning Experience at Miramont Office Park PDP complies with relevant standards located in Article 3 – General Development Standards, provided that the Modification of Standard to Section 3.5. is approved.
- E. The Learning Experience at Miramont Office Park PDP complies with relevant standards located in Division 4.28, Harmony Corridor District (H-C) of Article 4.

RECOMMENDATION:

Staff recommends approval of The Learning Experience at Miramont Office Park Project Development Plan, PDP1300023.

ATTACHMENTS:

- 1. Statement of Planning Objectives
- 2. Oak/Cottonwood Farm Amended Overall Development Plan
- 3. Site Plan
- 4. Landscape Plans
- 5. Building Elevations
- 6. Lighting Plan
- 7. Traffic Impact Statement

Dear City of Fort Collins,

Rubenstein Real Estate, Co., LC, on behalf of **Fort Collins Development Co., LLC**, has contracted to buy **0.237 acres** of land at **The Miramont Office Park**, Lot 3, Pad E; Larimer County; to build a **10,000 SF** “Child Development Facility” with a contiguous **5,000 SF** playground for The Learning Experience “TLE”.

TLE is a privately held company headquartered in **Boca Raton, Florida**. TLE focuses on early childhood development for children aging from **6 weeks to 6 six years old**, and after school care for children up to 9 years old.

TLE currently has **120** operating facilities and **60** facilities under development in **22** states. This facility will be the **fifth** in Colorado.

Please visit TLE at their website: www.thelearningexperience.com

The development of **Pad E in Lot 3** includes constructing a **10,000 SF building**, a contiguous **5,000 SF playground**, and **fully landscaping** the pad.

TLE will be an outstanding addition to the Miramont Office Park, and the surrounding neighborhoods. The facility will allow enrollment up to **170 children** and will have a staff of approximately 30. TLE provides the tools and environment that gives children every opportunity to develop to their greatest potential. TLE has a cutting edge proprietary curriculum; over **88% of TLE’s 4-year old children** are reading. TLE builds a strong foundation for each child to grow emotionally, socially, and cognitively at his/her own pace.

Adam Rubenstein represents the applicant and is the “Single Point of Contact” for the application; his information is below:

Adam Rubenstein	Office: 720-529-2881
5150 East Yale Circle, Suite 400	Cell: 303-257-1481
Denver, CO 80222	arubenstein@legendretailgroup.com

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Statement of Planning Objectives (D)

- (i) This project is an infill commercial development, which the City of Fort Collins supports.
- (ii) The Learning Experience will be taking the last pad in the already existing Miramont Office Park. We will have a 10,000 sf building with a contiguous 5,000 sf playground. The playground will be encompassed by an opaque fence that has landscaping surrounding the exterior. There is an onsite detention pond.

- (iii) The Miramont Office Park consists of five pads and five buildings. Each building has a separate owner. The owners are all a part of the Declaration of Covenants, Conditions, and Restrictions for the Miramont Office Park dated October 11, 2000 reception # 2000070367 to govern and maintain the office park and common areas. Pad E will be owned by the Fort Collins Development Co, LLC which is controlled and Managed by John and Adam Rubenstein. Pad E will be a part of the CCR's mentioned above.
- (iv) The Learning Experience will be licensed for roughly 170 children. The Learning Experience will employ an estimated 30-35 employees.
- (v) The Learning Experience chose the Miramont Office Park for its Ft. Collins home because of its location off of Harmony Rd and Boardwalk. It is next to several businesses and located in an established, yet growing community. The Learning Experience building has been designed to match the rest of the office park. We will have a 5,000 sf playground, with an opaque fence. We are using an opaque fence for security reasons. We will have landscaping surrounding the fence to help camouflage the fence.
- (vi) Child Care is a permitted use under the current zoning restrictions.
- (vii) We are the fifth and last piece to an already existing office park. The City supports infill projects.
- (viii) No neighborhood meeting has taken place.
- (ix) The Learning Experience at Miramont Office Park
- (E) Attached hereto
- (F) No new street names are being proposed
- (G) Attached hereto
- (H) **Gene Vaughan** 970.226.3990 work
970.227.5968 mobile
genev@remax.net

Gary Nordic 970.217.1742 mobile
gary@garynordic.com

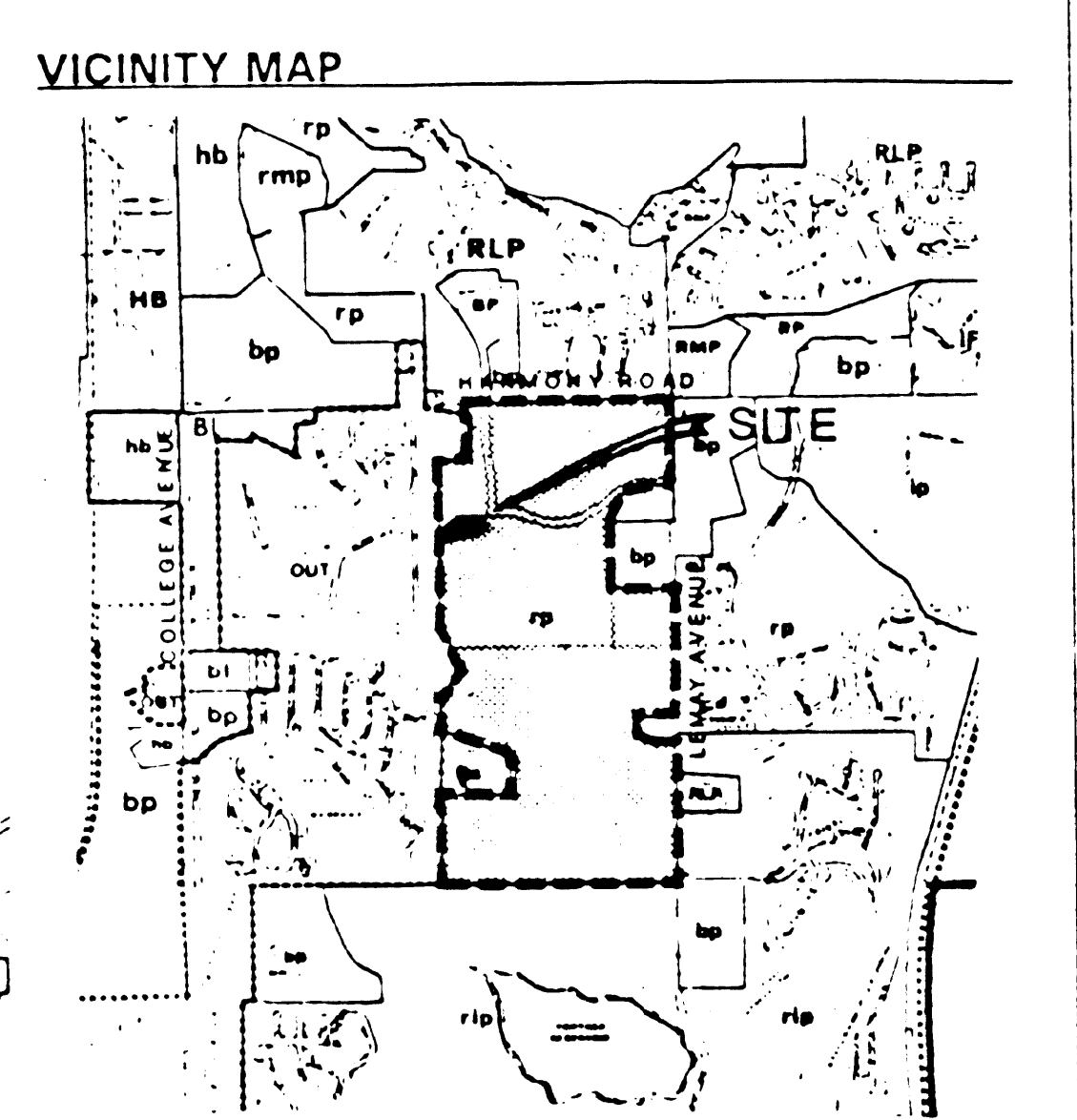
Ron Young 970.481.0808 mobile
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(I) **John Rubenstein**
6310 Lamar, #220
Overland Park, KS 66202
913.362.1999

Adam Rubenstein
5150 East Yale Circle, suite 400
Denver, CO 80222
303.257.1481

(J) **Construction schedule**
Break ground January/February 2014
Site/utility work 30-45 days
4 months to build the building and furnish the interior
Anticipate an August 2014 opening to the public.

13-16 Not applicable for this project.

[illegible][illegible]

A tract of land located in the NE 1/4 of Section 1 Township 8 North, Range 68 West of the 6th P.M. Larimer County, Colorado, being more particularly described as follows:

Beginning the North line of the NE 1/4 of Section 1 at bearing N 66°55'42" East and with all bearings contained herein read as follows:

Commencing at the North Corner corner of said Section 1 thence S 88°11'05" W. 72.70 feet to the South right-of-way line of Colorado State Highways No. 6
thence along said South right-of-way line S 88°11'00" E. 348.40 feet to the Point of Beginning.

thence continuing along the South right of way to S 06°19'06": 51.60 feet to the Northeast corner of a tract of land described in Book 2652 at Page 607 recorded in Larimer County records; thence along the East side of said Book 2062 at Page 607 S 00°11'08" W 545.56 feet recorded S 00°26'11" W 545.56 feet; thence along the South side of said Book 2062 at Page 607 N 96°18'06" W 51.60 feet recorded N 96°02'00" West; thence S 00°11'08": S 545.56 feet to the Point of Beginning.

A tract of land located in the Southwest 1/4 of Section 1, Township 9 North, Range 60 West of the 6th P.M. City of Fort Collins, County of Larimer, State of Colorado, within encompassing the West line of the said Southwest 1/4 at bearing N 00°43'06" E and with all bearings contained herein remains there in a contained within the boundary lines which begin at a point on the said West line which bears N 00°43'06" E 1062.31 feet from the South 1/4 corner of said Section 1, and run thence S 00°43'06" E 1710 feet along the said West line to a point S 68°11'00" W 680 feet thence S 11°18'00" W 126 feet thence S 00°43'06" E 1710 feet to a point on the said West line which bears N 00°13'04" W 750.00 feet to the point of beginning, containing 9.7702 acres more or less, and excluding all other rights appearing therein.

1 THE OAK COTTAGEWOOD FARM IS PROPOSED TO BE A MIXED USE DEVELOPMENT PROVIDING COMMUNITY AND REGIONAL
RETAIL/BUSINESS SERVICES USES, OFFICE, RESEARCH AND DEVELOPMENT, HEALTH CARE, RESIDENTIAL, HUMAN
SERVICE AND RECREATIONAL USES. THE LAND USE MAP REPRESENTED ON THIS MASTER PLAN IS A BEST ESTIMATE
OF DEVELOPMENT POTENTIAL AT THIS TIME. AS CHANGES OCCUR IN THE MARKET PLACE, AS REQUIRED PUBLIC
IMPROVEMENTS ARE DEFINED AND AS DEVELOPMENT OF THE PROJECT CONTINUES, ADDITIONAL CHANGES TO THE
LAND USE PROGRAM MAY BE REQUESTED.

2 All public services will be designed to meet or exceed City standards unless variances are granted to allow a reduction in

- City parcels.
3. The portion of parcel under lease to be maintained by various associations or other appropriate bodies determined at the time of approval of subsequent developments.
6. Lease agreements shall be designed so the terms of development are to be consistent with the adopted land use plan affecting the subject proposition.
8. Recommended land uses Longrange indicated this include, but was not limited to the following uses:
- Business Services/Community Regional Shopping
 - Community Shopping Center/retailing
 - General Merchandise
 - Retail
 - Home Furnishings
 - Department Store
 - Drug Stores
 - Paper Shops
 - Offices
 - Indoor Theatre
 - Restaurants
 - Health Clubs
 - Hotels
 - Medical Clinics
 - Seminar Units
 - Medical Office
 - Hospitals and Clinics
 - Other Healthcare Facilities
 - Professional Offices
 - Restaurant
 - Subject Retail
 - Health Clubs
 - Seminar Units
9. Auto Rented and Resides Commercial Uses
- To be considered in Paragrs 8 and 9 only
10. Residential Uses, Churches, Schools, and Public or Private Community Services, including Day Care Centers, are to be allowed as accessory uses with all other uses.
11. Parags T, U, V and a part of G, are intended to form bulwark between the existing neighborhood neighborhood to the west of the subject property, and the non-residential uses outlined for Parags B and S. Sense said uses consideration for these Parags as follows:
- Uses to be considered on Parags U, and a portion of G are limited to those uses allowed by right in the RL, Low Density Residential District, PG 182-1 through PG 182-7 of the Code of the City of Fort Collins as the acts of approval of this Resolution.
- Uses to be considered on Parag T are limited to:
- Uses allowed by right in the RL of Low Density Multifamily Medium Dens PG 182-1 through PG 182-7 of the Code of the City of Fort Collins as the acts of approval of this Resolution.
 - Uses allowed by right in the RL of Low Density Multifamily Medium Dens PG 182-1 through PG 182-7 of the Code of the City of Fort Collins as the acts of approval of this Resolution.
 - Uses allowed by right in the RL of Low Density Multifamily Medium Dens PG 182-1 through PG 182-7 of the Code of the City of Fort Collins as the acts of approval of this Resolution.
12. The proposed land uses and densities shown on the plan are consistent with the residential use on Parag L, multifamily medium density, PG 182-1 through PG 182-7 of the Code of the City of Fort Collins as the acts of approval of this Resolution. Land approved of these land uses design of densities. Approx any future land use may be approved according to the procedures, processes and criteria of the planned use development regulations, relating to urban or city centers and standards. Uses by right with PG 182-1 may be considered as well as permitted uses, or under the PUD circumstances of the Land Development Ordinance. All other uses to be developed as PUD or per the LDRS.
13. A senior center is desired to access Mid-Crest to provide valuable assets to the residential use on Parag L, multifamily medium density, PG 182-1 through PG 182-7 of the Code of the City of Fort Collins as the acts of approval of this Resolution. The senior center is planned to intersect with the extension of Forest Crest Parkway. It is desired to build the center on the east side of the road as much as possible. The future Forest Crest Trail may follow the same corridor. Since the east segment of Forest Crest Parkway and Forest Crest Trail are not present in the time the next section of the street connection will be developed in a future date.
12. Residential Use on Parcel C shall consist of one (1) dwelling unit for occupancy by the manager of the self-storage facility.

Cityscape
urban design, inc.
3030 south college ave., suite 200
fort collins, colorado 80525
(303)226-4074

ASSETS	LAND USE	10.00	units	00	units	7.77	units	10.00	units
A	Multi-Family	10.00	00	units	7.77 <td>units</td> <td>10.00</td> <td>00</td> <td>units</td>	units	10.00	00	units
B	Low Density Residential	18.0	00	units	3.13 <td>units</td> <td>18.0</td> <td>00</td> <td>units</td>	units	18.0	00	units
C	Low Density Residential	8.0	00	units	2.80 <td>units</td> <td>8.0</td> <td>00</td> <td>units</td>	units	8.0	00	units
D	Low Density Residential	18.0	00	units	2.37 <td>units</td> <td>18.0</td> <td>00</td> <td>units</td>	units	18.0	00	units
E	Low Density Residential	12.0	00	units	4.84 <td>units</td> <td>12.0</td> <td>00</td> <td>units</td>	units	12.0	00	units
F	Low Density Residential	11.2	00	units	2.66 <td>units</td> <td>11.2</td> <td>00</td> <td>units</td>	units	11.2	00	units
G	Low Density Residential	20.0	00	units	2.87 <td>units</td> <td>20.0</td> <td>00</td> <td>units</td>	units	20.0	00	units
H	Low Density Residential	14.0	00	units	2.87 <td>units</td> <td>14.0</td> <td>00</td> <td>units</td>	units	14.0	00	units
I	Business District	6.0	00	units	0 <td>units</td> <td>6.0</td> <td>00</td> <td>units</td>	units	6.0	00	units
J	Low Density Residential	13.0	00	units	3.62 <td>units</td> <td>13.0</td> <td>00</td> <td>units</td>	units	13.0	00	units
K	Low Density Medium Density Residential	1.5	00	units	4.22 <td>units</td> <td>1.5</td> <td>00</td> <td>units</td>	units	1.5	00	units
L	Low Density Residential	1.5	00	units	1.05 <td>units</td> <td>1.5</td> <td>00</td> <td>units</td>	units	1.5	00	units
M	Open Space and Landscaping	1.1	00	units	0 <td>units</td> <td>1.1</td> <td>00</td> <td>units</td>	units	1.1	00	units
N	Multi-Family Parc.	8.7	00	units	14.43 <td>units</td> <td>8.7</td> <td>00</td> <td>units</td>	units	8.7	00	units
O	Business District	13.0	00	units	0 <td>units</td> <td>13.0</td> <td>00</td> <td>units</td>	units	13.0	00	units
P	Business District	26.7	00	units	4.60 <td>units</td> <td>26.7</td> <td>00</td> <td>units</td>	units	26.7	00	units
Q	Commercial	50.0	00	units	0 <td>units</td> <td>50.0</td> <td>00</td> <td>units</td>	units	50.0	00	units
R	Commercial	2.0	00	units	0 <td>units</td> <td>2.0</td> <td>00</td> <td>units</td>	units	2.0	00	units
S	Commercial	2.0	00	units	0 <td>units</td> <td>2.0</td> <td>00</td> <td>units</td>	units	2.0	00	units
T	Commercial	2.0	00	units	0 <td>units</td> <td>2.0</td> <td>00</td> <td>units</td>	units	2.0	00	units
U	Commercial	2.0	00	units	0 <td>units</td> <td>2.0</td> <td>00</td> <td>units</td>	units	2.0	00	units
V	Commercial	2.0	00	units	0 <td>units</td> <td>2.0</td> <td>00</td> <td>units</td>	units	2.0	00	units
W	Commercial	2.0	00	units	0 <td>units</td> <td>2.0</td> <td>00</td> <td>units</td>	units	2.0	00	units
X	Commercial	2.0	00	units	0 <td>units</td> <td>2.0</td> <td>00</td> <td>units</td>	units	2.0	00	units
Y	Commercial	2.0	00	units	0 <td>units</td> <td>2.0</td> <td>00</td> <td>units</td>	units	2.0	00	units
Z	Commercial	2.0	00	units	0 <td>units</td> <td>2.0</td> <td>00</td> <td>units</td>	units	2.0	00	units
AA	Commercial	2.0	00	units	0 <td>units</td> <td>2.0</td> <td>00</td> <td>units</td>	units	2.0	00	units
AB	Commercial	2.0	00	units	0 <td>units</td> <td>2.0</td> <td>00</td> <td>units</td>	units	2.0	00	units
AC	Commercial	2.0	00	units	0 <td>units</td> <td>2.0</td> <td>00</td> <td>units</td>	units	2.0	00	units
AD	Commercial	2.0	00	units	0 <td>units</td> <td>2.0</td> <td>00</td> <td>units</td>	units	2.0	00	units
AE	Commercial	2.0	00	units	0 <td>units</td> <td>2.0</td> <td>00</td> <td>units</td>	units	2.0	00	units
AF	Commercial	2.0	00	units	0 <td>units</td> <td>2.0</td> <td>00</td> <td>units</td>	units	2.0	00	units
AG	Commercial	2.0	00	units	0 <td>units</td> <td>2.0</td> <td>00</td> <td>units</td>	units	2.0	00	units
AH	Commercial	2.0	00	units	0 <td>units</td> <td>2.0</td> <td>00</td> <td>units</td>	units	2.0	00	units
AI	Commercial	2.0	00	units	0 <td>units</td> <td>2.0</td> <td>00</td> <td>units</td>	units	2.0	00	units
AJ	Commercial	2.0	00	units	0 <td>units</td> <td>2.0</td> <td>00</td> <td>units</td>	units	2.0	00	units
AK	Commercial	2.0	00	units	0 <td>units</td> <td>2.0</td> <td>00</td> <td>units</td>	units	2.0	00	units
AL	Commercial	2.0	00	units	0 <td>units</td> <td>2.0</td> <td>00</td> <td>units</td>	units	2.0	00	units
AM	Commercial	2.0	00	units	0 <td>units</td> <td>2.0</td> <td>00</td> <td>units</td>	units	2.0	00	units
AN	Commercial	2.0	00	units	0 <td>units</td> <td>2.0</td> <td>00</td> <td>units</td>	units	2.0	00	units
AO	Commercial	2.0	00	units	0 <td>units</td> <td>2.0</td> <td>00</td> <td>units</td>	units	2.0	00	units
AP	Commercial	2.0	00	units	0 <td>units</td> <td>2.0</td> <td>00</td> <td>units</td>	units	2.0	00	units
AQ	Commercial	2.0	00	units	0 <td>units</td> <td>2.0</td> <td>00</td> <td>units</td>	units	2.0	00	units
AR	Commercial	2.0	00	units	0 <td>units</td> <td>2.0</td> <td>00</td> <td>units</td>	units	2.0	00	units
AS	Commercial	2.0	00	units	0 <td>units</td> <td>2.0</td> <td>00</td> <td>units</td>	units	2.0	00	units
AT	Commercial	2.0	00	units	0 <td>units</td> <td>2.0</td> <td>00</td> <td>units</td>	units	2.0	00	units
AU	Commercial	2.0	00	units	0 <td>units</td> <td>2.0</td> <td>00</td> <td>units</td>	units	2.0	00	units
AV									

HUNTINGTON HILLS
Z-INFO-rip
SIGNATURE BLOCK

"I HAVE BEEN ADVISED THAT ON THE 18 DAY OF JANUARY 1961 THE
 DEFENDANT WANTED TO SELL THE PROPERTY TO THE ADVANCED STATE OF THE
 DEFENDANT WANTED TO SELL THE PROPERTY TO THE ADVANCED STATE OF THE
 THE DEFENDANT WANTED TO SELL THE PROPERTY TO THE ADVANCED STATE OF THE

DATE: 11 MAR 68
NOTARY: [blank]
THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME THIS 12th DAY OF
August 1967, by Suparna Sengupta
MY COMMISSION EXPIRES 11/28/68
WHERE MY SEAL IS: [blank]
Suparna Sengupta
NOTARY PUBLIC
STATE OF CALIFORNIA
NOTARY
RECEIVED
MAR 12 1968
COUNTY OF [blank]

OAK/COTTONWOOD FARM

AMENDED OVERALL DEVELOPMENT PLAN

ACAD FILE: 7173M1
PROJECT NO. 7173
SCALE: 1"=200'

DATE OF PREPARATION: 5-04-92
REVISIONS:

DATE	DESCRIPTION	BY
6-22-92	PARCELS R&W	SM
6-19-92	WITH COMMENTS & NOTE (P&S)	CS
7-1-92	Parcel S ACTION PLAN	CS
4-25-94	PARCEL Q - DETACHED	PATIO HON
1-13-95	Parcel VE Hwy Range 1/W	JHK
2-97	Parcel M approved	JHK *

* Revised By:
JOHN H. KING
DEVELOPMENT CONSULTANT
6551 S. Revere Plany., Suite 223
Englewood, CO 80111 (303) 706-5562

ENGINEERING DEPT. NOTE:
THIS REPRESENTS THE
BEST QUALITY IMAGE POSSIBLE
TAKEN FROM VERY POOR QUALITY

REDLAND
Where Great Places Begin

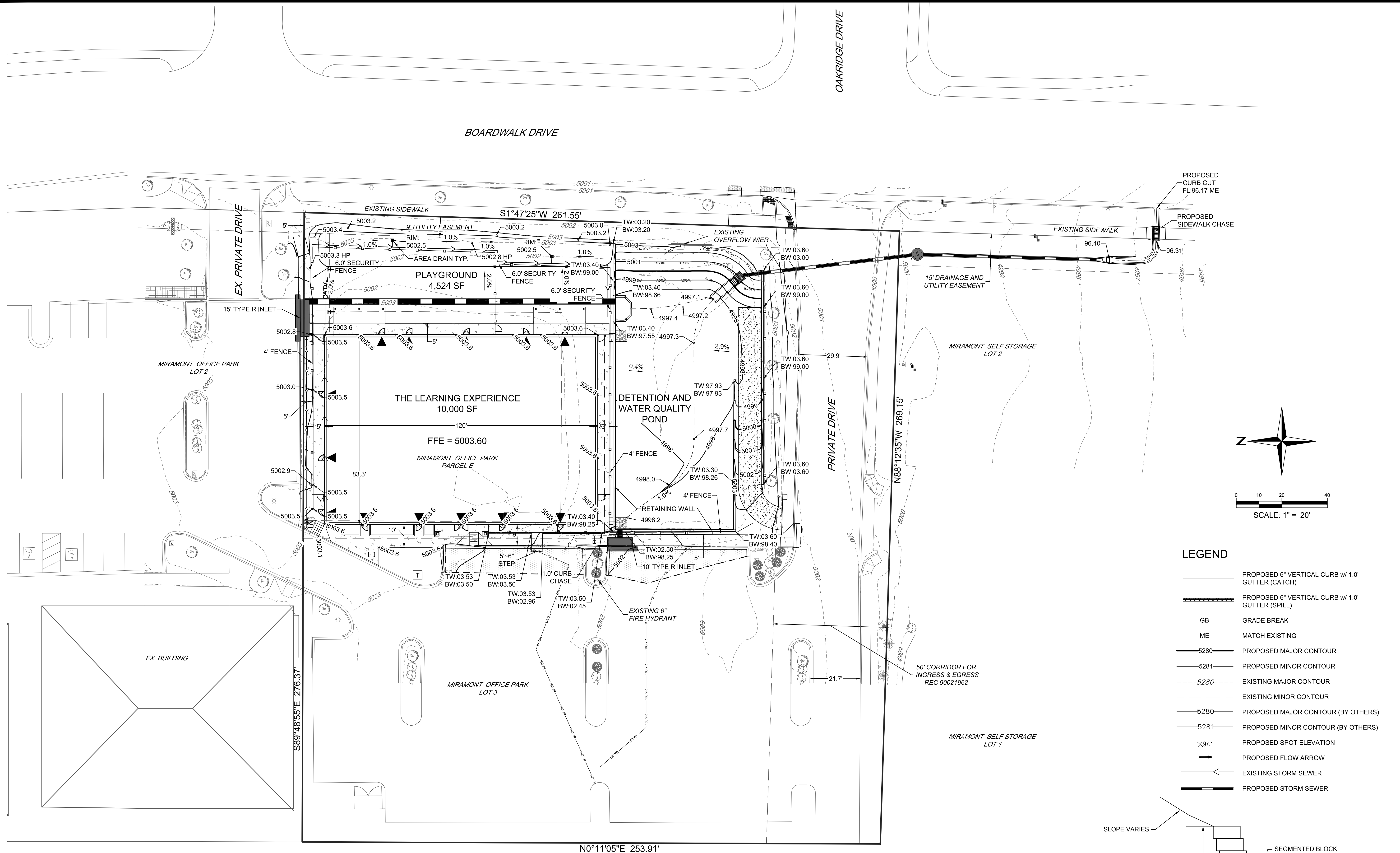
8000 South Lincoln Street, # 206 | Littleton, CO 80122
Office: (720) 283-6783 | www.redland.com

	DATE	NO.	NOTES	DRAWN	A&D
	07.12.2013	1	1ST SUBMITTAL	CHECKED	MDC
	10.04.2013	2	2ND SUBMITTAL		
	01.31.2014	3	3RD SUBMITTAL	APPROVED	MDC
				PROJECT NO. 12098	
				HORIZ SCALE	N/A
				VERT SCALE	N/A

COEF S EET

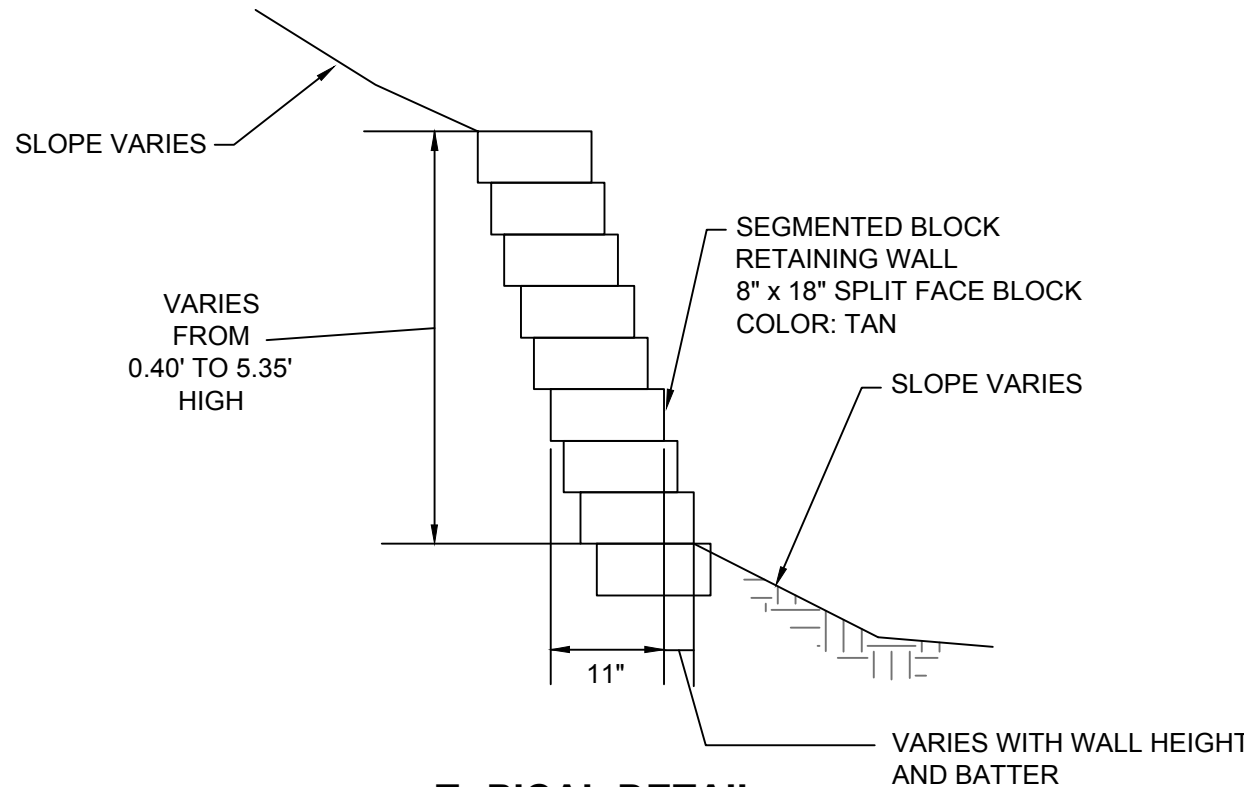
C0.0

L:\2012\2026 - the learning experience at miramont office park\CADD\sheet set\development plan\C2.0 Grading Plan.dwg Job: 3 C2.0-12026 Grading Plan-C2.0 Grading Plan Jan 31, 2014 - 8:55am mswal



LEGEND

- PROPOSED 6" VERTICAL CURB w/ 1.0' GUTTER (CATCH)
- PROPOSED 6" VERTICAL CURB w/ 1.0' GUTTER (SPILL)
- GB GRADE BREAK
- ME MATCH EXISTING
- 5280 PROPOSED MAJOR CONTOUR
- 5281 PROPOSED MINOR CONTOUR
- 5280 EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- 5280 PROPOSED MAJOR CONTOUR (BY OTHERS)
- 5281 PROPOSED MINOR CONTOUR (BY OTHERS)
- X97.1 PROPOSED SPOT ELEVATION
- PROPOSED FLOW ARROW
- EXISTING STORM SEWER
- PROPOSED STORM SEWER



TYPICAL DETAIL
LANDSCAPE ALL
NOT TO SCALE

THE LEARNING EXPERIENCE
AT MIRAMONT OFFICE PARK

GADING PLAN

SHEET

C2.0

DRAWN	AND
CHECKED	MDC
APPROVED	MDC
PROJECT NO.	12026
HORIZ. SCALE	1" = 20'
VERT. SCALE	N/A

DATE	NO.	NOTES
07.12.2013	1	1ST SUBMITTAL
10.04.2013	2	2ND SUBMITTAL
01.31.2014	3	3RD SUBMITTAL



- | Tree Dia. at Breast Height (inch.) | Auger Dist. From Face of Tree (ft.) |
|------------------------------------|-------------------------------------|
| 0-2 | 1 |
| 3-4 | 2 |
| 5-9 | 5 |
| 10-14 | 10 |
| 15-19 | 12 |
| Over 19 | 15 |

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SEAL

REVISIONS

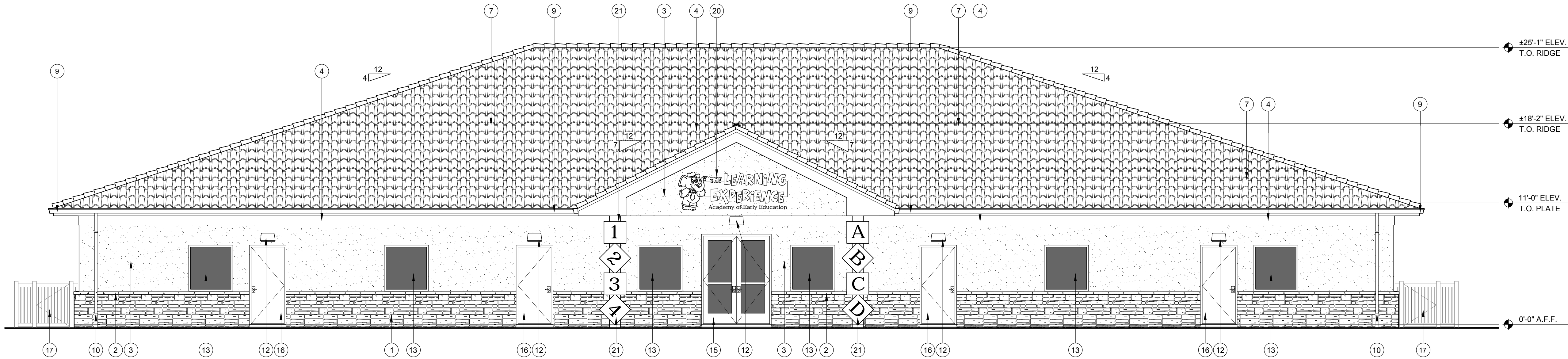
DATE: 01-28-14

DRAWN BY: STAFF

BUILDING ELEVATIONS

SHEET NO.

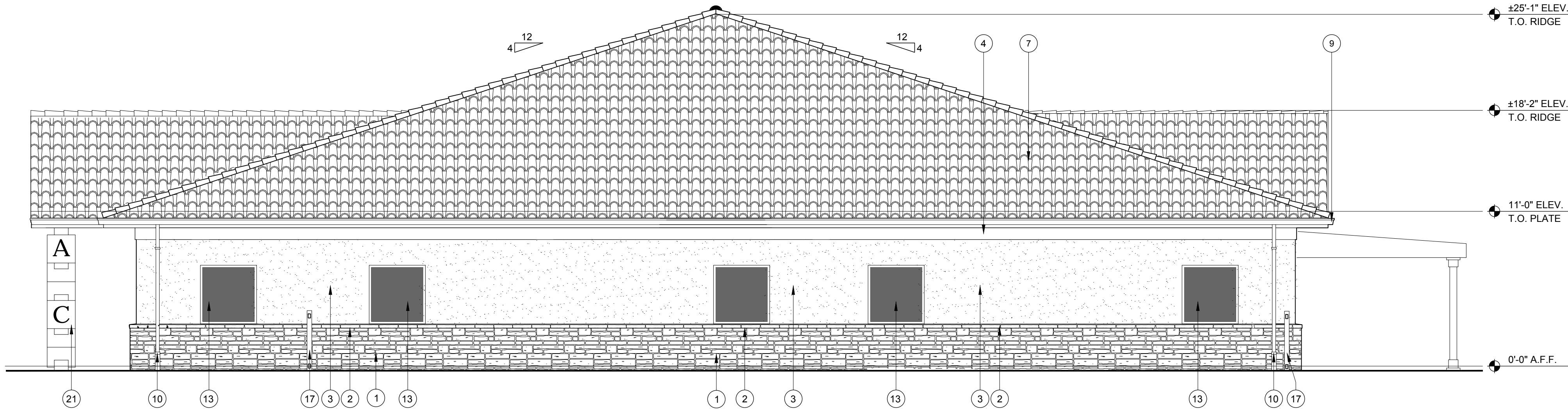
A-5.1



1

FRONT ELEVATION

SCALE:
3/16"=1'-0"



2

RIGHT ELEVATION

SCALE:
3/16"=1'-0"

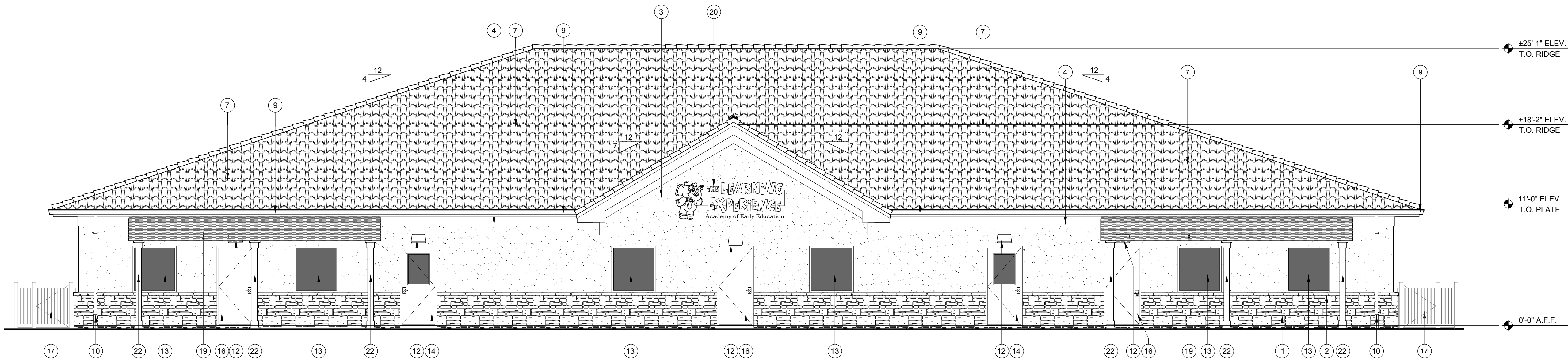
ELEVATION KEYNOTES

NOTE	DESCRIPTION	COLOR FINISH / REMARKS	NOTE	DESCRIPTION	COLOR FINISH / REMARKS	NOTE	DESCRIPTION	COLOR FINISH / REMARKS	NOTE	DESCRIPTION	COLOR FINISH / REMARKS	NOTE	DESCRIPTION	COLOR FINISH / REMARKS
1	MANUFACTURED STONE VENEER BASE	COLOR: MATCH OFFICE PARK STYLE: MATCH OFFICE PARK	6	NOT USED		12	EXTERIOR LIGHT FIXTURE	COLOR: WHITE NO. LAREDO SERIES MANUFAC: HUBBELL	18	6' HIGH PVC FENCE	REFER TO SHEET C-1	24	NOT USED	
2	MANUFACTURED STONE VENEER SILL	COLOR: MATCH OFFICE PARK STYLE: MATCH OFFICE PARK	7	SPANISH "S" TILE	COLOR: MATCH OFFICE PARK STYLE: MATCH OFFICE PARK	13	FIXED ALUM. FRAME WINDOW	MANUFAC: SILVERLINE WINDOWS VINYL CLAD. REFER TO SHEET A-12.2	19	FABRIC AWNING W/ ALUM. FRAME	COLOR: BLUE MANUFAC: HUDSON AWNING & SIGN CO. SEE REQUIRED VENDOR	25	NOT USED	
3	STUCCO FINISH	COLOR: MATCH OFFICE PARK	8	NOT USED		14	METAL FRAME DOORS	WITH GLASS	20	T.L.E. SIGNAGE (ILLUMINATED)	REFER TO SHEET C-2 SEE REQUIRED VENDOR	<div>NOTE: "THE LEARNING EXPERIENCE" LOGO SIGN AND "MAKE BELIEVE BOULEVARD" NEON SIGN ARE TO BE BY REQUIRED VENDOR, NO SUBSTITUTIONS ALLOWED. A&F SIGN COMPANY 28 East Railway Ave., Paterson, NJ 07503 Attn: Frank Ferucci Jr. Ph. (973) 278-3707 Fax. (973) 278-8337 PLAYGROUND AWNINGS TO BE PROVIDED AND INSTALLED BY REQUIRED VENDOR, NO SUBSTITUTIONS ALLOWED. HUDSON AWNINGS & SIGN CO. 27 Cottage St., Bayonne, NJ 07002 Attn: Ed Burak Ph. (800) 624-1012</div>		
4	SMOOTH STUCCO BAND FINISH	COLOR: MATCH OFFICE PARK	9	GUTTER	6" TYPE K ALUMINUM GUTTER WITH LEAF SCREEN	15	STOREFRONT ALUM. FRAME DOORS	MANUFAC: KAWNEER REFER TO SHEET A-12.1	21	T.L.E. SIGNAGE (ALPHABET BLOCKS)	REFER TO SHEET A-14.1 SEE REQUIRED VENDOR			
5	NOT USED		10	DOWNSPOUT	CONNECT TO UNDERGROUND DRAINAGE	16	METAL FRAME DOORS	REFER TO SHEET A-12.1	22	COLUMN	STL. COL. WRAPPED W/ SQUARE VINYL PVC TUBE NON-TAPERED ECONOMY PLAIN TO MATCH FENCE, REFER TO SHEET C-1 SEE REQUIRED AWNING VENDOR			
			11	NOT USED		17	4' HIGH FENCE	REFER TO SHEET C-1	23	EXTERIOR WATER FOUNTAIN	REFER TO SPECS			

3

ELEVATION KEYNOTES

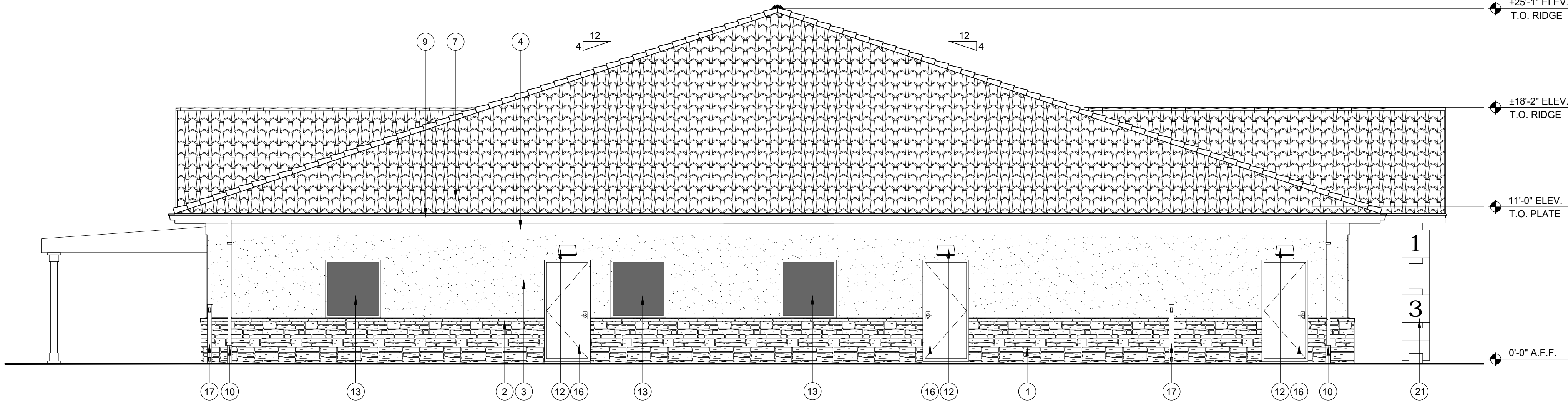
SCALE:
N.T.S.



1

BACK ELEVATION

SCALE:
3/16"=1'-0"



2

LEFT ELEVATION

SCALE:
3/16"=1'-0"

ELEVATION KEYNOTES														
NOTE	DESCRIPTION	COLOR FINISH / REMARKS	NOTE	DESCRIPTION	COLOR FINISH / REMARKS	NOTE	DESCRIPTION	COLOR FINISH / REMARKS	NOTE	DESCRIPTION	COLOR FINISH / REMARKS	NOTE	DESCRIPTION	COLOR FINISH / REMARKS
1	MANUFACTURED STONE VENEER BASE	COLOR: MATCH OFFICE PARK STYLE: MATCH OFFICE PARK	6	NOT USED		12	EXTERIOR LIGHT FIXTURE	COLOR: WHITE NO. LAREDO SERIES MANUFAC: HUBBELL	18	6' HIGH PVC FENCE	REFER TO SHEET C-1	24	NOT USED	
2	MANUFACTURED STONE VENEER SILL	COLOR: MATCH OFFICE PARK STYLE: MATCH OFFICE PARK	7	SPANISH "S" TILE	COLOR: MATCH OFFICE PARK STYLE: MATCH OFFICE PARK	13	FIXED ALUM. FRAME WINDOW	MANUFAC: SILVERLINE WINDOWS VINYL CLAD REFER TO SHEET A-12.2	19	FABRIC AWNING W/ ALUM. FRAME	COLOR: BLUE MANUFAC: HUDSON AWNING & SIGN CO. SEE REQUIRED VENDOR	25	NOT USED	
3	STUCCO FINISH	COLOR: MATCH OFFICE PARK	8	NOT USED		14	METAL FRAME DOORS	WITH GLASS	20	T.L.E. SIGNAGE (ILLUMINATED)	REFER TO SHEET C-2 SEE REQUIRED VENDOR	<div>NOTE: "THE LEARNING EXPERIENCE" LOGO SIGN AND "MAKE BELIEVE BOULEVARD" NEON SIGN ARE TO BE BY REQUIRED VENDOR, NO SUBSTITUTIONS ALLOWED. A&F SIGN COMPANY 28 East Railway Ave., Paterson, NJ 07503 Attn: Frank Ferucci Jr. Ph: (973) 278-3707 Fax: (973) 278-8337 PLAYGROUND AWNINGS TO BE PROVIDED AND INSTALLED BY REQUIRED VENDOR, NO SUBSTITUTIONS ALLOWED. HUDSON AWNINGS & SIGN CO. 27 Cottage St., Bayonne, NJ 07002 Attn: Ed Burak Ph: (800) 624-1012</div>		
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5	NOT USED		10	DOWNSPOUT	CONNECT TO UNDERGROUND DRAINAGE	16	METAL FRAME DOORS	REFER TO SHEET A-12.1	22	COLUMN	STL. COL. WRAPPED W/ SQUARE VINYL PVC TUBE NON-TAPERED ECONOMY PLAIN TO MATCH FENCE, REFER TO SHEET C-1 SEE REQUIRED AWNING VENDOR			
			11	NOT USED		17	4' HIGH FENCE	REFER TO SHEET C-1	23	EXTERIOR WATER FOUNTAIN	REFER TO SPECS			

3

ELEVATION KEYNOTES

SCALE:
N.T.S.

LIMA
ARCHITECTS

RAFFAELLE F. GRECO
LICENSE NO. C-5064
4855 Technology Way
Suite 700
Boca Raton, FL 33431
PHONE: 561-886-6400
FAX: 561-491-6820

PROPOSED DAYCARE :
THE LEARNING EXPERIENCE
MIRAMONT OFFICE PARK
FORT COLLINS, COLORADO

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SEAL

REVISIONS

DATE: 01-28-14

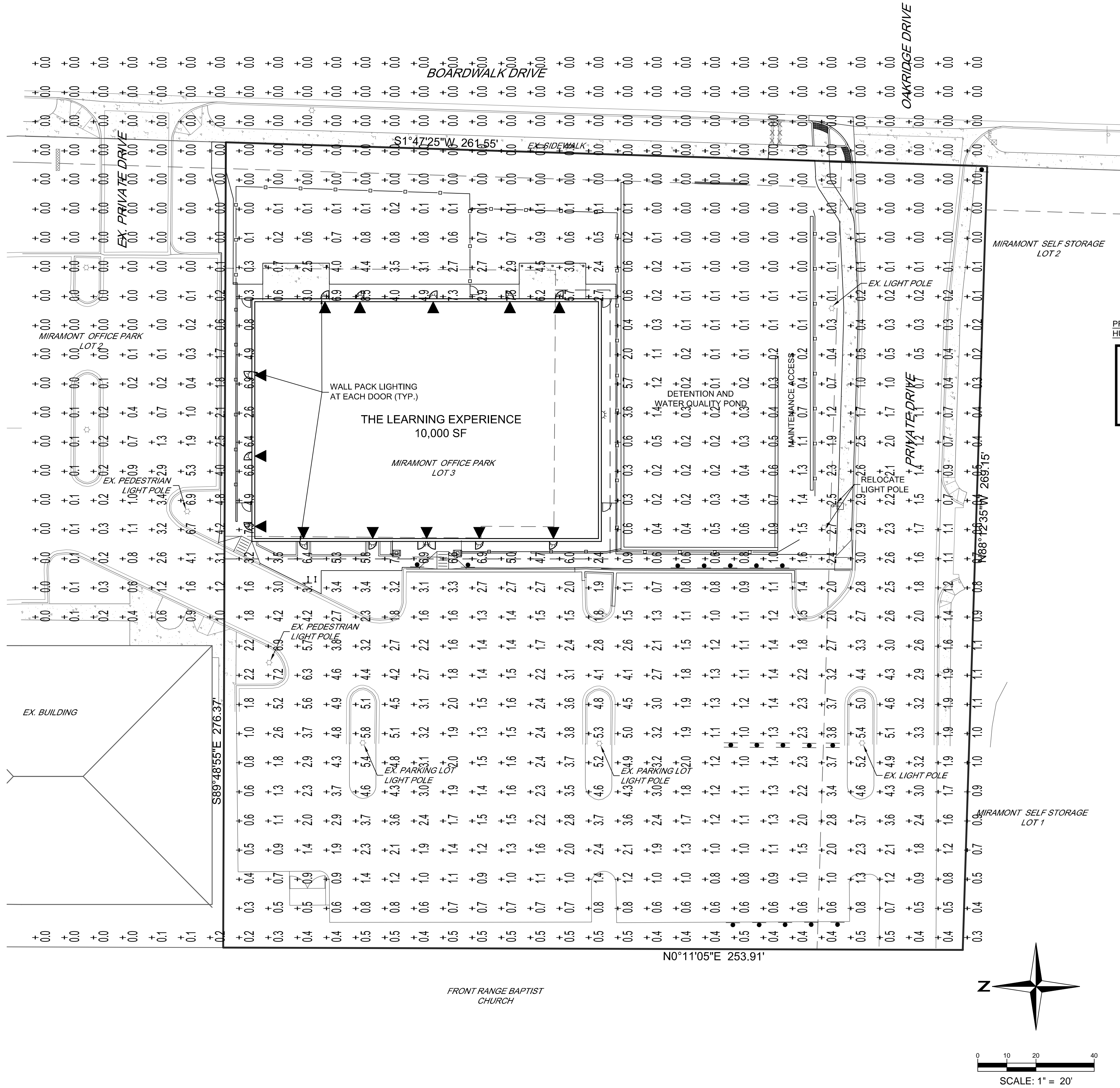
DRAWN BY: STAFF

BUILDING
ELEVATIONS

SHEET NO.

A-5.2

L:\2012\2026 - the learning experience at miramont office park\CADD\sheet set\development plan\E1.0-12026 Photometric Plan.dwg Tab: 4 E1.0-12026 Light Plan - E1.0 LIGHT PLAN Jan 31, 2014 5:56am mowal



PROPOSED WALL LIGHTING:
HUBBELL LMC-50P-CS, COLOR OF HOUSING: WHITE

LAREDO SERIES LMC Series	Cat.#	Approvals		
	Job	Type		

SPECIFICATIONS

Intended Use:

Full cutoff perimeter or entry lighting for 10-15ft mounting heights that require high light output and maximum energy efficiency. Ideal for schools, factories, hospitals, warehouses and retail applications.

Construction:

Decorative die cast aluminum housing and door. Rugged design protects internal components and provides excellent thermal management for long life. 70% lumen maintenance at 50,000 hours minimum. 800 series powder paint finishes provide lasting appearance in outdoor environments. Five standard finishes include: Bronze, Black, Gray, White and Platinum. Multiple options customize including a tool-free latch, which allows re-lamping of HID units from the ground, photocontrol for energy savings, integral ballast back-up battery for fluorescent units, fusing, quartz standby and EM sockets for remote power, lamps and five standard finishes.

Optics:

HID/CFL: Vertical lamp position (lamp is optional on HID and CFL units) provides maximum HID performance and life. Standard, removable front shield on single lamp units, reduces forward beam projection while maintaining lateral throw, if desired.

Distribution:

Full cutoff distribution - flat glass and optics provide wide spread with an environmentally friendly light control. IDA compliant.

CERTIFICATIONS/LISTINGS



Electrical:

Wide selection of wattage and sources including pulse start electronic metal halide and fluorescent systems (see below).

Installation:

Three 1/2" conduit hubs (top and sides), allow feed-thru surface wiring capability on HID and CFL units. Foam gasket for sealing to smooth surfaces with two or three key slot configuration. Mounting template included. Designed with quick mount system to provide rigid mounting over recessed junction boxes - fixture does not require opening for mounting.

Listings:

Listed and labeled to UL 1598 for wet locations, 25° C ambient environments. U.S. Patent No. D563,587

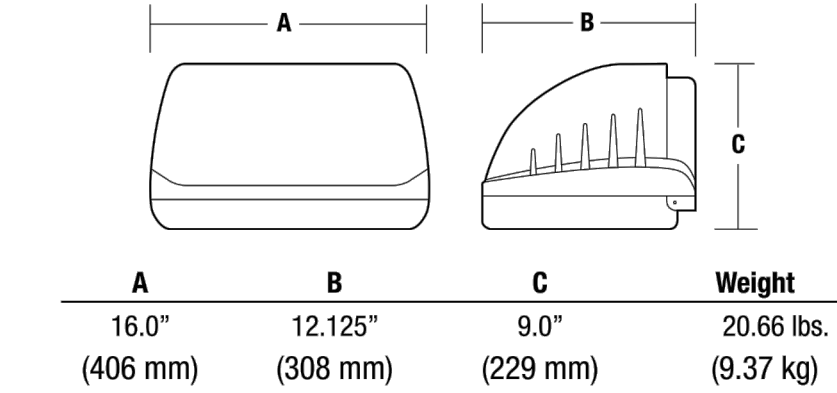
Warranty:

Five year limited warranty (for more information visit: <http://www.hubbelloutdoor.com/resources/warranty/>)

PRODUCT IMAGE(S)



DIMENSIONS



CALCULATION SUMMARY									
AREA NAME	DIMENSIONS	GRID TYPE	#PTS	SPAC	GROUP	Ave	MAX	MIN	MAX/MIN
Site	389.23x228.25 Ft	Pavement / F/H	657	10.00	***	1.30	8.48	0.00	NA / NA

TLE at Miramont (07-12-13) LUMINAIRE SCHEDULE						
TYP	SYMBOL	DESCRIPTION	LAMP	LUMENS	MOUNTING/BALLAST	LLF
CC	52	HUBBELL LMC-50P-CS (1) LMC LMC-70P	(1) MHCT0/UM4K	8200	WALL PACK WALL MOUNTED	0.72

LLF-LIGHT LOSS FACTOR

THE LEARNING EXPERIENCE
AT MIRAMONT OFFICE PARK

POTOMETRIC PLAN

SHEET

E1.0

December 12, 2013

Mark Cevaal, PE
Redland
8000 South Lincoln Street, Suite 206
Littleton, CO 80122

RE: The Learning Experience at Miramont Traffic Impact Study

Dear Mr. Cevaal:

The Fox Tuttle Transportation Group has completed a traffic impact study for The Learning Experience (TLE) project proposed within the Miramont office park in Fort Collins. The project is proposing to construct a 10,000 square foot (SF) day care use on a currently vacant site located at the northwest corner of Boardwalk and Oakridge Drive. Access is proposed at existing access locations along Boardwalk aligning with Oakridge Drive and with a Sam's Club access driveway.

The purpose of this study is to assist in identifying potential traffic impacts within the study area as a result of this development project. The traffic study addresses existing and near-term (Year 2015) peak hour intersection conditions in the study area. The information contained in this study is anticipated to be used by the City in identifying any intersection or roadway deficiencies and potential improvements that may be required of the project. This memorandum summarizes our analyses, findings, and recommendations.

Project Description

The project proposes to develop a 10,000 SF day care facility. A vicinity map is shown on **Figure 1**. The proposed site and access plan is provided on **Figure 2**.

Access to the site is proposed as follows:

- Access on Boardwalk via the existing west leg of the Boardwalk & Oakridge Drive intersection
- Access on Boardwalk via an existing shared driveway aligning with the Sam's Club access approximately 230' north of Oakridge Drive

Both accesses are shared with existing office use in the Miramont development.

Study Area

The study area boundaries were developed in consultation with City staff and took into consideration the amount of site traffic added to the surrounding street network and planned access. The existing study area street network consists of arterial and collector streets. The primary public roadways that serve the project site are discussed in the following text.

E. Harmony Road is a four-lane to six-lane major arterial with bicycle lanes that provides east-west access through the City of Fort Collins. The posted speed limit on Harmony Road is 45 miles per hour (mph) in the site vicinity.

Boardwalk is a two-lane collector roadway with bicycle lanes that provides north-south access through the study area with direct access to adjacent uses. The posted speed limit on Boardwalk is 30 mph in the site vicinity. The intersection of Boardwalk with E. Harmony Road is controlled with a traffic signal.

Oakridge Drive is a two-lane collector roadway that provides east-west access through the immediate area with direct access to adjacent uses. The posted speed limit on Oakridge Drive is 25 mph in the site vicinity. The intersection of Oakridge with Boardwalk is controlled with stop signs on the minor street (Oakridge) approaches.

Existing Traffic Volumes

Weekday AM / PM peak hour turning-movement and daily roadway volumes were collected in July and September 2013 for this project. The existing traffic volumes are illustrated on **Figure 3**. Count data sheets are provided in the Appendix.

Existing Intersection Capacity and Queue Analysis

In determining the operational characteristics of an intersection, “Levels of Service” (LOS) A through F are applied, with LOS A indicating very good operations and LOS F indicating congested operations. The intersection LOS is represented as a delay in seconds per vehicle for the intersection as a whole and for each turning movement. A more detailed discussion of LOS methodology is contained in the Appendix for reference. Criteria contained in the Highway Capacity Manual (HCM) was applied for these analyses in order to determine existing levels of service during peak hour periods.

The results of the LOS calculations for the intersections are summarized in **Table 1**. The intersection level of service worksheets are attached in the Appendix. The data in the tables show that all study area intersections are operating with acceptable overall levels of service. No existing capacity deficiencies or mitigation measures were identified for existing traffic volumes.

Future Traffic Volumes and Roadway Network

Per discussions with City staff, a 1.25% annual growth rate was assumed to account for future background traffic growth in the study area. There are no major roadway network or capacity improvements planned by the City within the study area within the short-term planning horizon. Using these assumptions, the Year 2015 background traffic volumes were calculated and are summarized on **Figure 4**.

Year 2015 Background Scenario Analysis (Without Proposed Development)

The study area intersections were evaluated to determine baseline operations for the 2015 scenario and to identify any capacity constraints associated with background traffic. The Level of Service criteria discussed in prior sections was applied to the study area intersections to determine impacts with the addition of site build out traffic volumes in the short-term. The results of the LOS calculations for the intersections are summarized in **Table 1**. The intersection level of service worksheets are attached in the Appendix.

The data **Table 1** shows that all study area intersections will continue to operate well overall with no changes in overall intersection or movement Levels of Service. Therefore, no capacity deficiencies or mitigation measures were identified for the Year 2015 background traffic scenario.

Trip Generation

To establish the volume of new trips that will be added to the area roadway network with redevelopment of the site, trip generation estimates for the proposed site uses were calculated based on rates contained in the Institute of Transportation Engineers (ITE) trip generation manual. The ITE trip rates for land use #565 “Day Care Center” were applied to estimate proposed traffic for the site.

As shown in **Table 2** and based on ITE methodology and the assumptions discussed in this section, the project is anticipated to generate the following trips at build out:

-
- 741 weekday daily trips
 - 122 weekday AM peak hour trips
 - 123 weekday PM peak hour trips

Trip Distribution and Assignment

The estimated traffic volumes presented in **Table 2** was distributed onto the adjacent street network based on existing traffic characteristics of the area, as well as land use and traffic patterns in the greater project area.

Using these distribution assumptions, the projected site traffic was assigned to the study area roadway network for the weekday AM and weekday PM peak hour periods. The site-generated volumes are shown on **Figure 5** along with the assumed distribution percentages.

Intersection Capacity Analysis for Year 2015 + Project Scenario

The site-generated traffic volumes were added to the Year 2015 background volumes to analyze potential site impacts in the short-term build out scenario. The Year 2015 + site-generated traffic volumes are illustrated on **Figure 6**. The level of service criteria discussed in prior sections was applied to the study area intersections to determine impacts with the addition of site-build out traffic volumes in the short-term. The results of the LOS calculations for the intersections are summarized in **Table 1**.

The data contained in **Table 1** illustrates that all study area intersections and individual movements will continue to operate acceptably overall (LOS E or better).

No deficiencies or mitigation measures were identified. The LOS analysis shows that the existing northbound shared left-through-right lane on Boardwalk at Oakridge can continue to service volumes with the project with minimal delays. Given the 30 mph speed limit on Boardwalk, the additional right-turn volumes at Sam's Club and Oakridge Drive accesses do not warrant the addition of right-turn deceleration lanes at these accesses using NCHRP Report 273 criteria. The LOS result also do not indicate capacity constraints with the existing shared through-right lane configurations.

Circulation and Drop-Off/Pick-Up

The TLE will operate from 6:30am to 6:30pm, Monday through Friday. The TLE will offer child care to children ages six weeks to five years, with after-school care for children up to eight years of age. Parents will drop children off throughout the morning with no set "bell" time or concentrated arrival times, unlike an elementary or typical public school. Similarly, parents will pick up children throughout the

afternoon and evening hours, with no set bell time and arrivals and departures staggered throughout the peak hours. Drop-off and pick-up activities will occur at random over the AM and PM periods and at the convenience of the parents. Parents are required to park, escort, and check-in/check-out all children into and out of the facility and students will never be dropped off or picked-up outside the facility unattended. Per TLE data, drop-off and pick-up of children will typically take between 5-8 minutes. Based on these characteristics, there is no vehicle queuing or waiting that will occur that may be associated with traditional (set bell time) schools at drop-off and pick-up.

The following data was provided by the applicant for a similar TLE site with a 183-child capacity and illustrates the spread of drop-off and pick-up activity throughout the AM and PM periods:

- Traffic during drop-off (average 5 minutes):
 - 6:30am-7:00am (11 children)
 - 7:00am-7:30am (28 children)
 - 7:30am-8:00am (43 children)
 - 8:00am-8:30am (43 children)
 - 8:30am-9:00am (29 children)
 - 9:00am-9:30am (29 children)
- Traffic during pick-up (average 8 minutes):
 - 3:30pm-4:00pm (11 children)
 - 4:00pm-4:30pm (28 children)
 - 4:30pm-5:00pm (43 children)
 - 5:00pm-5:30pm (43 children)
 - 5:30pm-6:00pm (29 children)
 - 6:00pm-6:30pm (29 children)

The above data suggests that, on average, there may be three to five parents parked to drop off at any time during the AM peak and five to six parents at any time during the PM peak. Given the random arrivals and departures and the requirement that parents must park and walk into and out of the facility with their children, circulation or queuing issues are not anticipated. The existing parking lot will easily accommodate these activities. TLE staff should be encouraged to park furthest away from the front door so as to minimize the distance parents and children will need to walk.

Conclusions

The Learning Experience at Miramont project is proposing to construct a 10,000 SF day care facility at the northwest corner of Boardwalk and Oakridge Drive in the City of Fort Collins. Access is proposed at existing access locations along Boardwalk.

This traffic study evaluated existing and short term (Year 2015) peak hour intersection conditions in the study area with the project to identify potential operational issues and to recommend mitigation measures.

The project is anticipated to generate approximately 741 daily trips, with 122 trips occurring in the AM peak hour and 123 trips occurring in the PM peak hour. It was determined that the project-added traffic volumes can be accommodated on the existing roadway and intersection network with minimal effects. No mitigation measures were identified as necessary to support development of the project as proposed.

Sincerely,

FOX TUTTLE TRANSPORTATION GROUP, LLC



Steve Tuttle, P.E., PTOE
Principal



Tables and Figures:

Table 1 – Peak Hour Intersection LOS Summary

Table 2 – Trip Generation Estimate

Figure 1 – Site Vicinity

Figure 2 – Site Plan

Figure 3 – Existing Traffic Volumes

Figure 4 – Year 2015 Background Traffic Volumes

Figure 5 – Site-Generated Traffic Volumes

Figure 6 – Year 2015 + Site-Generated Traffic Volumes

The Learning Experience at Miramont Traffic Impact Study

**Table 1 - Intersection Level of Service Summary**

Intersection and Lanes Groups	Existing				Year 2015 Background				Year 2015 w/ Project			
	AM Peak		PM Peak		AM Peak		PM Peak		AM Peak		PM Peak	
	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS
SIGNAL CONTROL												
Harmony Rd & Boardwalk	17.0	B	30.9	C	17.2	B	31.9	C	17.9	B	33.8	C
Eastbound Left	7.3	A	18.3	B	7.5	A	19.2	B	7.6	A	20.6	C
Eastbound Through	11.8	B	26.7	C	12.0	B	27.8	C	12.3	B	26.5	C
Eastbound Right	9.0	A	20.2	C	9.1	A	20.7	C	9.6	A	21.1	C
Westbound Left	8.3	A	27.5	C	8.4	A	30.4	C	8.8	A	30.3	C
Westbound Through	10.5	B	22.8	C	10.7	B	23.6	C	10.8	B	24.7	C
Westbound Right	10.4	B	18.3	B	10.6	B	18.8	B	10.7	B	18.2	B
Northbound Left	37.9	D	47.4	D	37.9	D	50.1	D	37.6	D	77.8	E
Northbound Through	49.9	D	52.8	D	50.3	D	53.0	D	51.3	D	56.0	E
Northbound Right	44.5	D	47.9	D	44.5	D	48.0	D	45.7	D	49.7	D
Southbound Left	36.6	D	48.8	D	37.6	D	51.7	D	39.0	D	50.1	D
Southbound Through	43.7	D	67.3	E	44.0	D	68.8	E	46.1	D	67.8	E
Southbound Right	44.5	D	47.2	D	45.2	D	47.2	D	47.2	D	47.2	D
STOP CONTROL												
Boardwalk & Oakridge Dr	3.6	A	3.4	A	3.7	A	3.4	A	4.3	A	4.2	A
Eastbound Left+Through+Right	10.3	B	12.9	B	10.4	B	12.8	B	12.4	B	15.8	C
Westbound Left	11.3	B	14.1	B	11.4	B	14.5	B	11.8	B	15.3	C
Westbound Through+Right	10.0	A	10.2	B	10.1	B	10.3	B	10.4	B	10.6	B
Northbound Left	0.2	A	0.0	A	0.2	A	0.0	A	0.6	A	0.5	A
Southbound Left	7.9	A	7.9	A	7.9	A	8.0	A	7.9	A	8.0	A
Boardwalk & Sam's Club	0.5	A	1.8	A	0.6	A	1.9	A	1.0	A	2.2	A
Eastbound Left+Through+Right	10.9	B	13.4	B	11.1	B	13.7	B	11.8	B	15.4	C
Westbound Left+Through+Right	9.9	A	11.3	B	10.0	A	11.6	B	10.2	B	11.9	B
Northbound Left	7.7	A	8.2	A	7.7	A	8.3	A	7.8	A	8.4	A
Southbound Left	7.8	A	8.0	A	7.9	A	8.0	A	7.9	A	8.1	A

Note: Delay represented in average seconds per vehicle.

The Learning Experience at Miramont
Traffic Impact Study



Table 2. Trip Generation Estimate

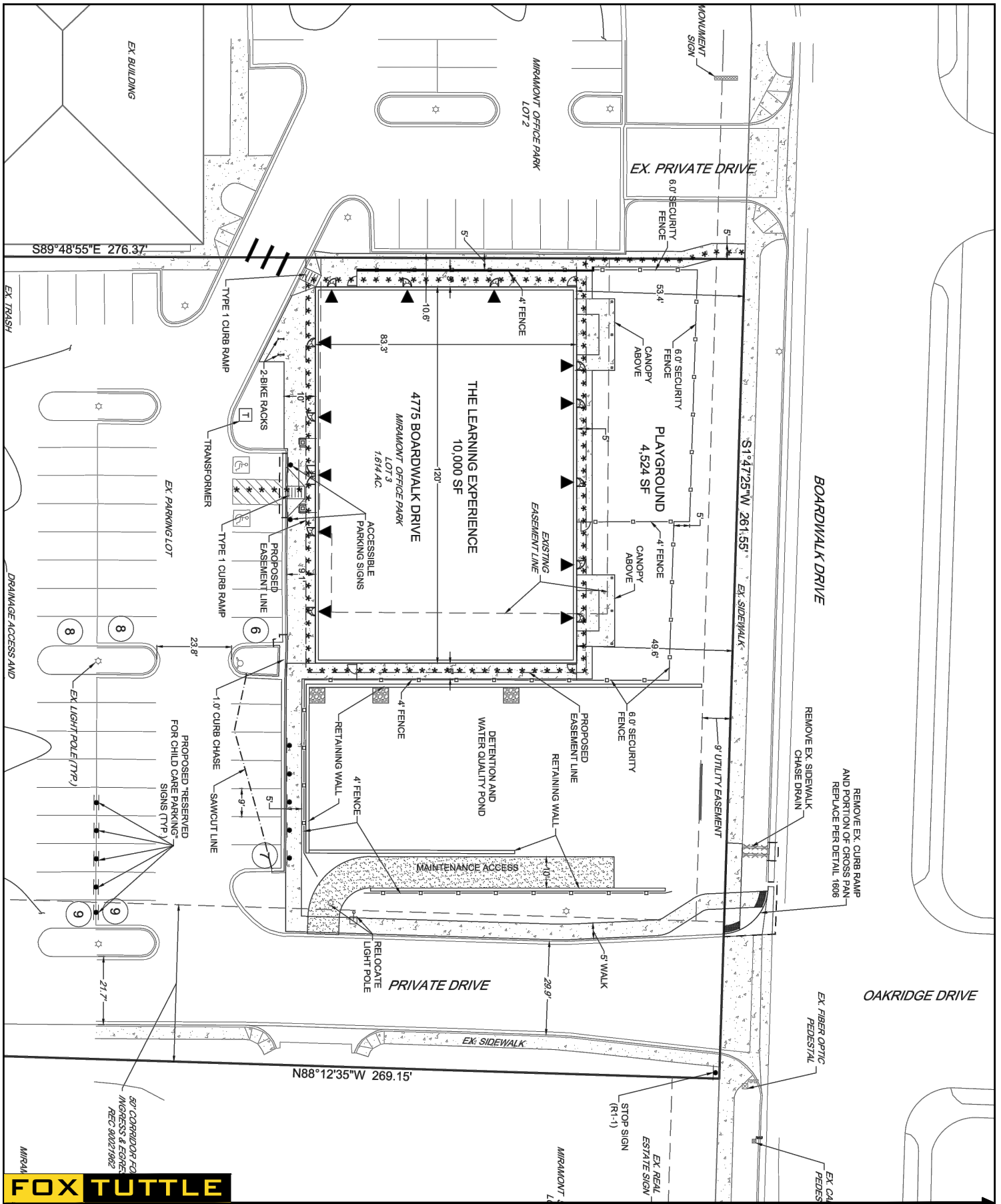
Land Use	Size	Unit	Average Daily Trips				A.M. Peak Hour Trips				P.M. Peak Hour Trips			
			Rate	Total	In	Out	Rate	Total	In	Out	Rate	Total	In	Out
Day Care Center - ITE #565	10	1,000 SF	74.06	741	371	370	12.18	122	65	57	12.34	123	58	65

Source: ITE Trip Generation 9th Edition. 2012.



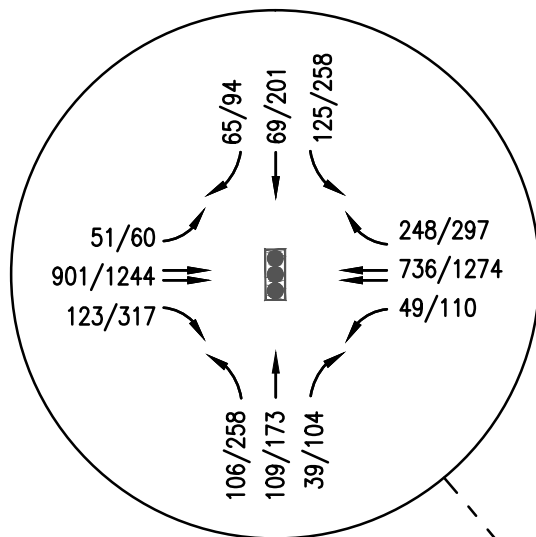
THE LEARNING EXPERIENCE AT MIRAMONTE TRAFFIC IMPACT STUDY
VICINITY MAP

FT Project #	13068	Original Scale	1"=1000'	Date	10/4/13	Drawn by	SGT	Figure #	1
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THE LEARNING EXPERIENCE AT MIRAMONT TRAFFIC IMPACT STUDY
SITE PLAN

FT Project #	13068	Original Scale	1"=40'	Date	10/4/13	Drawn by	SGT	Figure #	2
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KEY

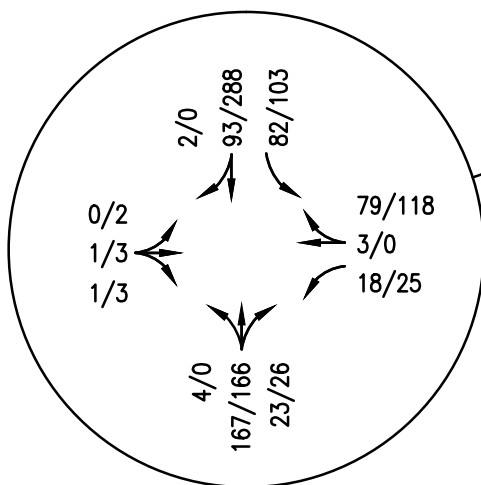
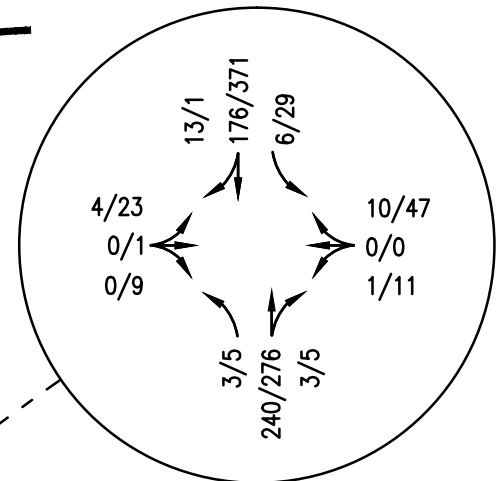
XXX/XXX/XXX AM / PM PEAK HOUR TRAFFIC VOLUME

E. HARMONY RD

PROJECT SITE

SAM'S CLUB

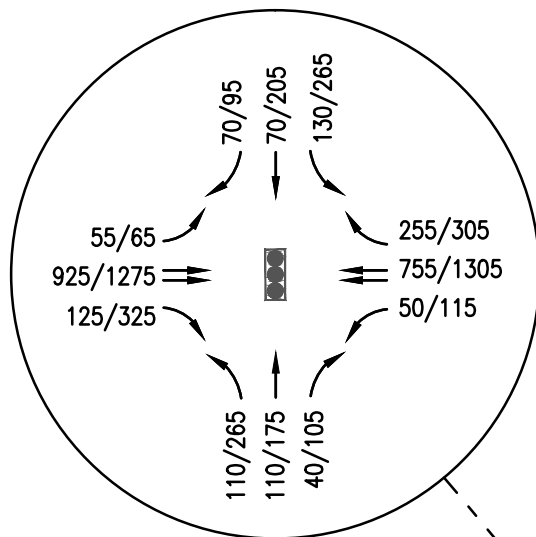
OAKRIDGE DR



FOX TUTTLE

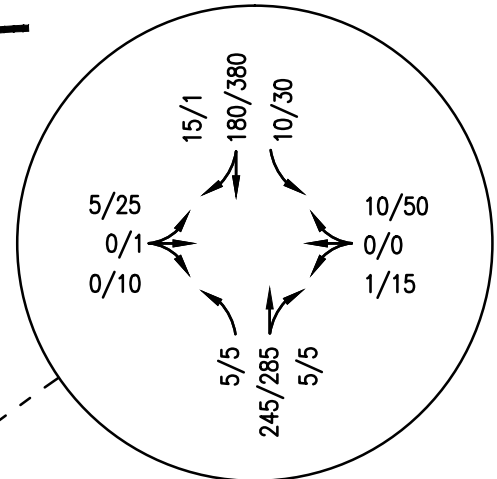
TRANSPORTATION GROUP

THE LEARNING EXPERIENCE AT MIRAMONT TRAFFIC IMPACT STUDY EXISTING TRAFFIC VOLUMES



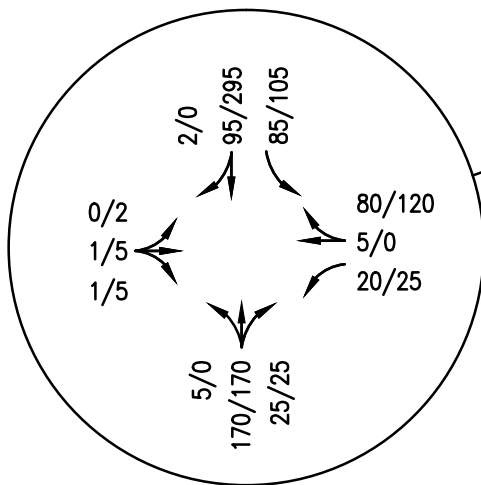
KEY

XXX/XXX/XXX AM / PM PEAK HOUR TRAFFIC VOLUME



PROJECT SITE

SAM'S CLUB



OAKRIDGE DR

FOX TUTTLE

TRANSPORTATION GROUP

THE LEARNING EXPERIENCE AT MIRAMONT TRAFFIC IMPACT STUDY YEAR 2015 BACKGROUND TRAFFIC VOLUMES

FT Project #	13068	Original Scale	NTS	Date	10/4/13	Drawn by	SGT	Figure #	4
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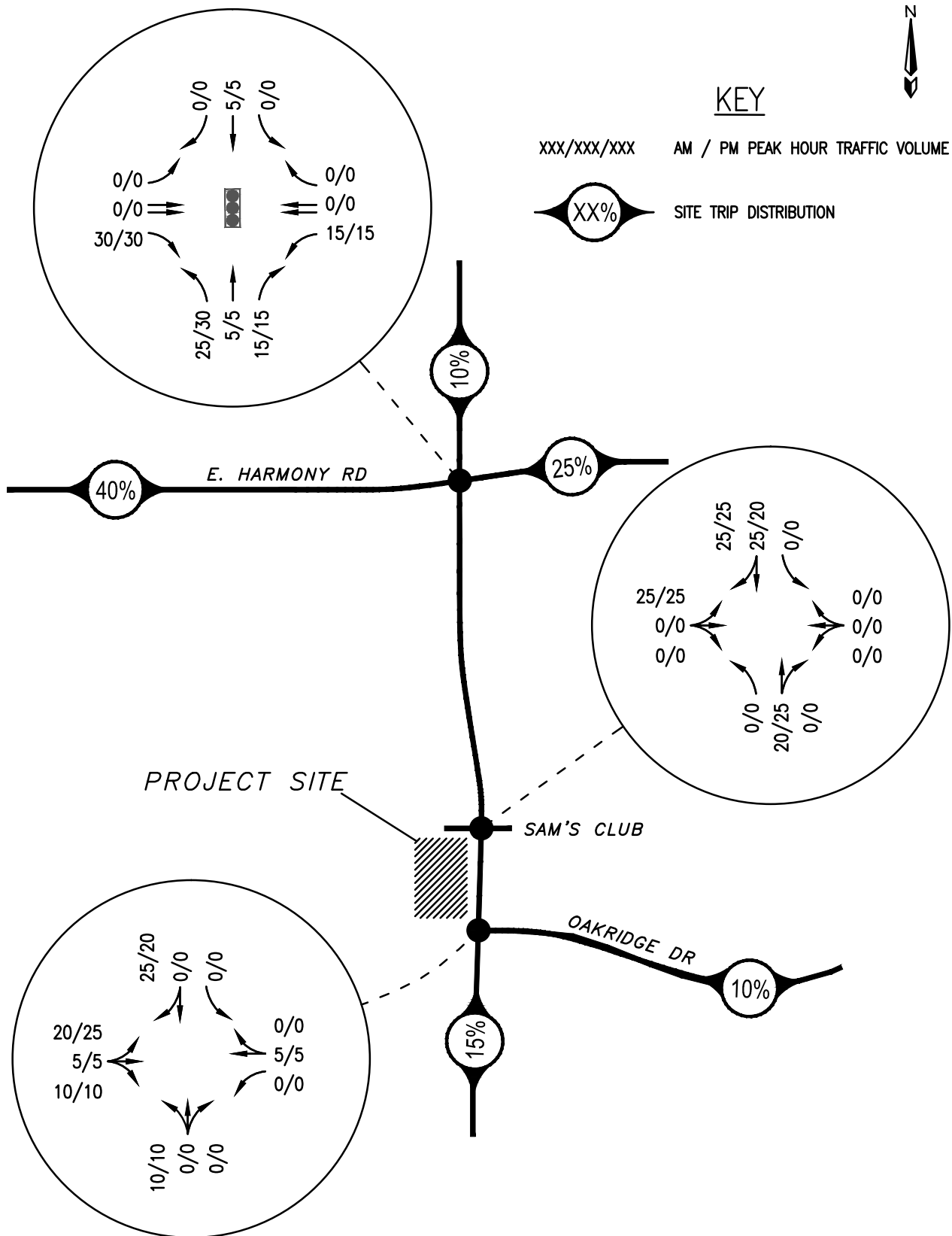
KEY

XXX/XXX/XXX

AM / PM PEAK HOUR TRAFFIC VOLUME



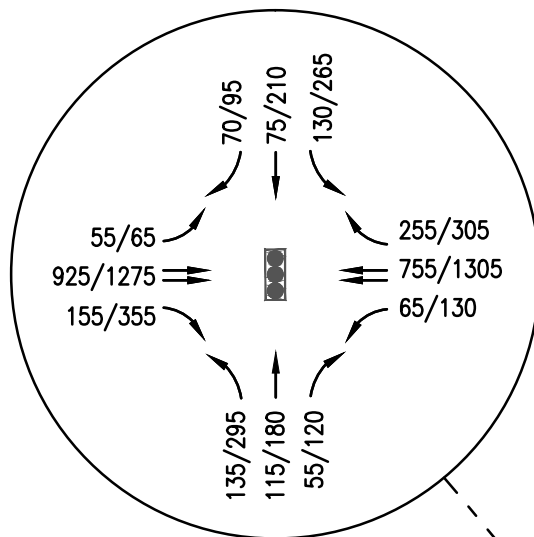
SITE TRIP DISTRIBUTION



FOX TUTTLE

TRANSPORTATION GROUP

THE LEARNING EXPERIENCE AT MIRAMONT TRAFFIC IMPACT STUDY
SITE-GENERATED TRAFFIC VOLUMES



KEY

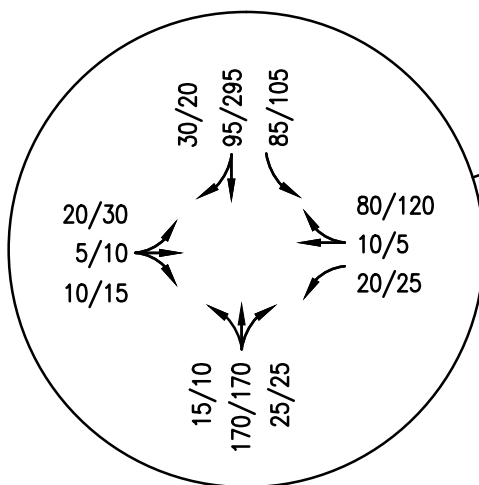
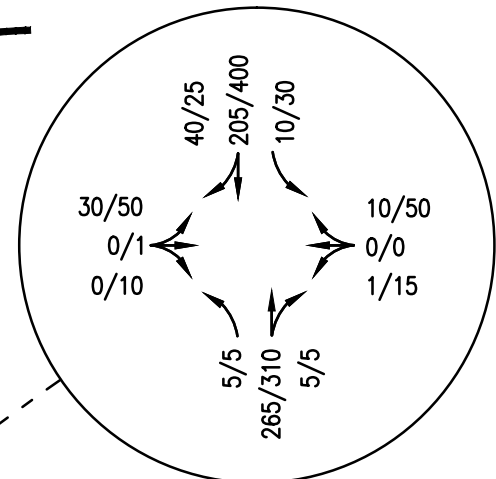
XXX/XXX/XXX AM / PM PEAK HOUR TRAFFIC VOLUME



PROJECT SITE

SAM'S CLUB

OAKRIDGE DR



FOX TUTTLE

TRANSPORTATION GROUP

THE LEARNING EXPERIENCE AT MIRAMONT TRAFFIC IMPACT STUDY YEAR 2015 TOTAL TRAFFIC VOLUMES

FT Project #	13068	Original Scale	NTS	Date	10/4/13	Drawn by	SGT	Figure #	6
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APPENDIX

Attachment A – TIS Base Assumptions

Level of Service Definitions

Intersection Capacity Worksheets

Traffic Count Data Sheets

Attachment A Transportation Impact Study Base Assumptions

Project Information			
Project Name <i>The Learning Experience @ Miramonte Office Park PDP</i>			
Project Location <i>Boardwalk + Oakridge</i>			
TIS Assumptions			
Type of Study	Full:	Intermediate: <input checked="" type="checkbox"/>	
Study Area Boundaries	North: <i>Harmony Rd</i>	South: <i>Oakridge</i>	
	East: <i>Boardwalk</i>	West:	
Study Years	Short Range: <i>2015</i>	Long Range:	
Future Traffic Growth Rate	<i>1.25%</i>		
Study Intersections	1. All access drives <input checked="" type="checkbox"/>	5.	
	2. <i>Boardwalk + Harmony</i>	6.	
	3. <i>Boardwalk + Oakridge</i>	7.	
	4.	8.	
Time Period for Study	<input checked="" type="checkbox"/> AM: 7:00-9:00	<input checked="" type="checkbox"/> PM: 4:00-6:00	Sat Noon:
Trip Generation Rates	<i>ITE</i>		
Trip Adjustment Factors	Passby: <input checked="" type="checkbox"/>	Captive Market: <input checked="" type="checkbox"/>	
Overall Trip Distribution	SEE ATTACHED SKETCH		
Mode Split Assumptions	<i>NONE</i>		
Committed Roadway Improvements	<i>NONE</i>		
Other Traffic Studies	<i>NONE</i>		
Areas Requiring Special Study	<i>- Boardwalk: SBR turn lanes @ Site Accesses; NBL turn Lane @ Site Accesses; - Discuss + Analyze drop-off/pickup + site traffic circulation plans to keep traffic from backing up onto Boardwalk.</i>		

Date: 8/28/13

Traffic Engineer: _____

Local Entity Engineer: *HEP* 8/28/13

The Learning Experience at Miramont Traffic Impact Study

October 3, 2013



Level of Service Definitions

LEVEL OF SERVICE DEFINITIONS

In rating roadway and intersection operating conditions with existing or future traffic volumes, “Levels of Service” (LOS) A through F are used, with LOS A indicating very good operation and LOS F indicating poor operation. Levels of service at signalized and unsignalized intersections are closely associated with vehicle delays experienced in seconds per vehicle. More complete level of service definitions and delay data for signal and stop sign controlled intersections are contained in the following table for reference.

Level of Service Rating	Delay in seconds per vehicle (a)		Definition
	Signalized	Unsignalized	
A	0.0 to 10.0	0.0 to 10.0	Low vehicular traffic volumes; primarily free flow operations. Density is low and vehicles can freely maneuver within the traffic stream. Drivers are able to maintain their desired speeds with little or no delay.
B	10.1 to 20.0	10.1 to 15.0	Stable vehicular traffic volume flow with potential for some restriction of operating speeds due to traffic conditions. Vehicle maneuvering is only slightly restricted. The stopped delays are not bothersome and drivers are not subject to appreciable tension.
C	20.1 to 35.0	15.1 to 25.0	Stable traffic operations, however the ability for vehicles to maneuver is more restricted by the increase in traffic volumes. Relatively satisfactory operating speeds prevail, but adverse signal coordination or longer vehicle queues cause delays along the corridor.
D	35.1 to 55.0	25.1 to 35.0	Approaching unstable vehicular traffic flow where small increases in volume could cause substantial delays. Most drivers are restricted in ability to maneuver and selection of travel speeds due to congestion. Driver comfort and convenience are low, but tolerable.
E	55.1 to 80.0	35.1 to 50.0	Traffic operations characterized by significant approach delays and average travel speeds of one-half to one-third the free flow speed. Vehicular flow is unstable and there is potential for stoppages of brief duration. High signal density, extensive vehicle queuing, or corridor signal progression/timing are the typical causes of vehicle delays at signalized corridors.
F	> 80.0	> 50.0	Forced vehicular traffic flow and operations with high approach delays at critical intersections. Vehicle speeds are reduced substantially and stoppages may occur for short or long periods of time because of downstream congestion.

(a) Delay ranges based on 2010 Highway Capacity Manual criteria.

The Learning Experience at Miramont Traffic Impact Study



















October 3, 2013

Intersection Capacity Worksheets

HCM Unsignalized Intersection Capacity Analysis

1: Boardwalk & Oakridge Dr



















Existing
AM

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	0	1	1	18	3	79	4	167	23	82	93	2
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
Hourly flow rate (vph)	0	1	1	21	4	93	5	196	27	96	109	2
Pedestrians												
Lane Width (ft)												
Walking Speed (ft/s)												
Percent Blockage												
Right turn flare (veh)												
Median type								None			TWLTL	
Median storage veh)											2	
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	618	536	111	524	524	210	112			224		
vC1, stage 1 conf vol	304	304		219	219							
vC2, stage 2 conf vol	314	233		304	305							
vCu, unblocked vol	618	536	111	524	524	210	112			224		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)	6.1	5.5		6.1	5.5							
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	100	100	100	96	99	89	100			93		
cM capacity (veh/h)	474	536	943	593	560	830	1478			1345		
Direction, Lane #	EB 1	WB 1	WB 2	NB 1	SB 1	SB 2						
Volume Total	2	21	96	228	96	112						
Volume Left	0	21	0	5	96	0						
Volume Right	1	0	93	27	0	2						
cSH	683	593	816	1478	1345	1700						
Volume to Capacity	0.00	0.04	0.12	0.00	0.07	0.07						
Queue Length 95th (ft)	0	3	10	0	6	0						
Control Delay (s)	10.3	11.3	10.0	0.2	7.9	0.0						
Lane LOS	B	B	B	A	A							
Approach Delay (s)	10.3	10.2		0.2	3.7							
Approach LOS	B	B										
Intersection Summary												
Average Delay			3.6									
Intersection Capacity Utilization			33.1%		ICU Level of Service				A			
Analysis Period (min)			15									

HCM Unsignalized Intersection Capacity Analysis

2: Boardwalk & Sam's Club

























Existing
AM

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	4	0	0	1	0	10	3	240	3	6	176	13
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
Hourly flow rate (vph)	5	0	0	1	0	12	4	282	4	7	207	15
Pedestrians												
Lane Width (ft)												
Walking Speed (ft/s)												
Percent Blockage												
Right turn flare (veh)												
Median type								TWLTL			TWLTL	
Median storage veh)								2			2	
Upstream signal (ft)											1102	
pX, platoon unblocked												
vC, conflicting volume	530	522	215	512	528	284	222			286		
vC1, stage 1 conf vol	229	229		291	291							
vC2, stage 2 conf vol	301	293		221	236							
vCu, unblocked vol	530	522	215	512	528	284	222			286		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)	6.1	5.5		6.1	5.5							
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	99	100	100	100	100	98	100			99		
cM capacity (veh/h)	616	593	825	634	593	755	1347			1276		
Direction, Lane #	EB 1	WB 1	NB 1	NB 2	SB 1	SB 2						
Volume Total	5	13	4	286	7	222						
Volume Left	5	1	4	0	7	0						
Volume Right	0	12	0	4	0	15						
cSH	616	742	1347	1700	1276	1700						
Volume to Capacity	0.01	0.02	0.00	0.17	0.01	0.13						
Queue Length 95th (ft)	1	1	0	0	0	0						
Control Delay (s)	10.9	9.9	7.7	0.0	7.8	0.0						
Lane LOS	B	A	A		A							
Approach Delay (s)	10.9	9.9	0.1		0.2							
Approach LOS	B	A										
Intersection Summary												
Average Delay			0.5									
Intersection Capacity Utilization			22.8%		ICU Level of Service				A			
Analysis Period (min)			15									

HCM 2010 Signalized Intersection Summary

99: Boardwalk & Harmony



















Existing
AM

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	51	901	123	49	736	248	106	109	39	125	69	65
Number	7	4	14	3	8	18	1	6	16	5	2	12
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	0.99		0.99	0.99		0.99
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow veh/h/ln	193.7	186.3	193.7	186.3	186.3	193.7	186.3	186.3	186.3	186.3	186.3	186.3
Lanes	1	2	1	1	2	1	1	1	1	1	1	1
Cap, veh/h	422	2257	996	351	2256	995	300	175	147	283	204	172
Arrive On Green	0.04	0.61	0.61	0.04	0.61	0.61	0.08	0.09	0.09	0.10	0.11	0.11
Sat Flow, veh/h	1845	3725	1644	1774	3725	1644	1774	1863	1563	1774	1863	1566
Grp Volume(v), veh/h	60	1060	145	58	775	292	112	118	46	147	81	76
Grp Sat Flow(s),veh/h/ln	1845	1863	1644	1774	1863	1644	1774	1863	1563	1774	1863	1566
Q Serve(g_s), s	1.2	16.0	3.9	1.2	10.6	8.7	5.7	6.3	2.8	7.3	4.1	4.7
Cycle Q Clear(g_c), s	1.2	16.0	3.9	1.2	10.6	8.7	5.7	6.3	2.8	7.3	4.1	4.7
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	422	2257	996	351	2256	995	300	175	147	283	204	172
V/C Ratio(X)	0.14	0.47	0.15	0.17	0.34	0.29	0.37	0.67	0.31	0.52	0.40	0.44
Avail Cap(c_a), veh/h	507	2257	996	434	2256	995	327	227	191	283	227	191
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	7.2	11.1	8.7	8.0	10.1	9.7	37.1	44.9	43.3	35.0	42.4	42.7
Incr Delay (d2), s/veh	0.2	0.7	0.3	0.2	0.4	0.7	0.8	5.1	1.2	1.7	1.2	1.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q (50%), veh/ln	0.5	6.7	1.4	0.5	4.4	3.2	2.6	3.2	1.1	3.4	2.1	1.9
Lane Grp Delay (d), s/veh	7.3	11.8	9.0	8.3	10.5	10.4	37.9	49.9	44.5	36.6	43.7	44.5
Lane Grp LOS	A	B	A	A	B	B	D	D	D	D	D	D
Approach Vol, veh/h	1265				1125				276		304	
Approach Delay, s/veh	11.3				10.4				44.2		40.5	
Approach LOS	B				B				D		D	
Timer												
Assigned Phs	7	4		3	8		1	6		5	2	
Phs Duration (G+Y+Rc), s	7.3	67.0		7.2	67.0		11.4	15.1		13.0	16.7	
Change Period (Y+Rc), s	4.0	6.0		4.0	6.0		4.0	6.5		4.0	6.5	
Max Green Setting (Gmax), s	8.0	61.0		8.0	61.0		9.0	11.5		9.0	11.5	
Max Q Clear Time (g_c+I1), s	3.2	18.0		3.2	12.6		7.7	8.3		9.3	6.7	
Green Ext Time (p_c), s	0.0	12.9		0.0	13.1		0.0	0.3		0.0	0.5	
Intersection Summary												
HCM 2010 Ctrl Delay	17.0											
HCM 2010 LOS	B											
Notes												

HCM Unsignalized Intersection Capacity Analysis



















1: Boardwalk & Oakridge Dr

Existing
PM

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	2	3	3	25	0	118	0	166	26	103	288	0
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
Hourly flow rate (vph)	2	4	4	29	0	139	0	195	31	121	339	0
Pedestrians												
Lane Width (ft)												
Walking Speed (ft/s)												
Percent Blockage												
Right turn flare (veh)												
Median type								None			TWLTL	
Median storage veh)											2	
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	931	807	339	797	792	211	339			226		
vC1, stage 1 conf vol	581	581		211	211							
vC2, stage 2 conf vol	349	226		586	581							
vCu, unblocked vol	931	807	339	797	792	211	339			226		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)	6.1	5.5		6.1	5.5							
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	99	99	99	93	100	83	100			91		
cM capacity (veh/h)	351	417	703	423	429	830	1220			1343		
Direction, Lane #	EB 1	WB 1	WB 2	NB 1	SB 1	SB 2						
Volume Total	9	29	139	226	121	339						
Volume Left	2	29	0	0	121	0						
Volume Right	4	0	139	31	0	0						
cSH	467	423	830	1220	1343	1700						
Volume to Capacity	0.02	0.07	0.17	0.00	0.09	0.20						
Queue Length 95th (ft)	2	6	15	0	7	0						
Control Delay (s)	12.9	14.1	10.2	0.0	7.9	0.0						
Lane LOS	B	B	B		A							
Approach Delay (s)	12.9	10.9		0.0	2.1							
Approach LOS	B	B										
Intersection Summary												
Average Delay			3.4									
Intersection Capacity Utilization			42.8%		ICU Level of Service				A			
Analysis Period (min)			15									

HCM Unsignalized Intersection Capacity Analysis 2: Boardwalk & Sam's Club

























Existing
PM

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	23	1	9	11	0	47	5	276	5	29	371	1
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
Hourly flow rate (vph)	27	1	11	13	0	55	6	325	6	34	436	1
Pedestrians												
Lane Width (ft)												
Walking Speed (ft/s)												
Percent Blockage												
Right turn flare (veh)												
Median type								TWLT			TWLT	
Median storage (veh)								2			2	
Upstream signal (ft)											1102	
pX, platoon unblocked												
vC, conflicting volume	897	848	437	855	845	328	438			331		
vC1, stage 1 conf vol	505	505		339	339							
vC2, stage 2 conf vol	392	342		516	506							
vCu, unblocked vol	897	848	437	855	845	328	438			331		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)	6.1	5.5		6.1	5.5							
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	94	100	98	97	100	92	99			97		
cM capacity (veh/h)	428	456	619	455	460	714	1122			1229		
Direction, Lane #	EB 1	WB 1	NB 1	NB 2	SB 1	SB 2						
Volume Total	39	68	6	331	34	438						
Volume Left	27	13	6	0	34	0						
Volume Right	11	55	0	6	0	1						
cSH	468	644	1122	1700	1229	1700						
Volume to Capacity	0.08	0.11	0.01	0.19	0.03	0.26						
Queue Length 95th (ft)	7	9	0	0	2	0						
Control Delay (s)	13.4	11.3	8.2	0.0	8.0	0.0						
Lane LOS	B	B	A		A							
Approach Delay (s)	13.4	11.3	0.1		0.6							
Approach LOS	B	B										
Intersection Summary												
Average Delay			1.8									
Intersection Capacity Utilization			36.2%		ICU Level of Service				A			
Analysis Period (min)			15									

HCM 2010 Signalized Intersection Summary

99: Boardwalk & Harmony

Existing
PM



















												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	60	1244	317	110	1274	297	258	173	104	258	201	94
Number	7	4	14	3	8	18	1	6	16	5	2	12
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.99	1.00		0.99
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow veh/h/ln	193.7	186.3	193.7	186.3	186.3	193.7	186.3	186.3	186.3	186.3	186.3	186.3
Lanes	1	2	1	1	2	1	1	1	1	1	1	1
Cap, veh/h	213	1893	835	210	1956	863	345	281	237	376	281	237
Arrive On Green	0.04	0.51	0.51	0.06	0.52	0.52	0.14	0.15	0.15	0.14	0.15	0.15
Sat Flow, veh/h	1845	3725	1643	1774	3725	1644	1774	1863	1571	1774	1863	1571
Grp Volume(v), veh/h	71	1464	373	129	1341	349	272	188	122	304	236	111
Grp Sat Flow(s),veh/h/ln	1845	1863	1643	1774	1863	1644	1774	1863	1571	1774	1863	1571
Q Serve(g_s), s	2.1	37.6	17.0	3.8	31.5	15.1	15.1	11.3	8.4	17.0	14.5	7.6
Cycle Q Clear(g_c), s	2.1	37.6	17.0	3.8	31.5	15.1	15.1	11.3	8.4	17.0	14.5	7.6
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	213	1893	835	210	1956	863	345	281	237	376	281	237
V/C Ratio(X)	0.33	0.77	0.45	0.61	0.69	0.40	0.79	0.67	0.51	0.81	0.84	0.47
Avail Cap(c_a), veh/h	264	1893	835	229	1956	863	345	292	246	376	292	246
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	17.4	23.5	18.5	23.3	20.8	16.9	35.8	47.3	46.1	36.3	48.7	45.8
Incr Delay (d2), s/veh	0.9	3.1	1.7	4.2	2.0	1.4	11.6	5.5	1.7	12.5	18.6	1.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q (50%), veh/ln	0.9	17.5	6.9	2.2	14.3	6.1	8.5	5.9	3.4	9.1	8.5	3.1
Lane Grp Delay (d), s/veh	18.3	26.7	20.2	27.5	22.8	18.3	47.4	52.8	47.9	48.8	67.3	47.2
Lane Grp LOS	B	C	C	C	C	B	D	D	D	D	E	D
Approach Vol, veh/h		1908			1819			582			651	
Approach Delay, s/veh		25.1			22.3			49.3			55.2	
Approach LOS		C			C			D			E	
Timer												
Assigned Phs	7	4		3	8		1	6		5	2	
Phs Duration (G+Y+Rc), s	7.8	65.0		9.7	67.0		20.0	23.3		20.0	23.3	
Change Period (Y+Rc), s	4.0	6.0		4.0	6.0		4.0	6.5		4.0	6.5	
Max Green Setting (Gmax), s	7.0	59.0		7.0	59.0		16.0	17.5		16.0	17.5	
Max Q Clear Time (g_c+I1), s	4.1	39.6		5.8	33.5		17.1	13.3		19.0	16.5	
Green Ext Time (p_c), s	0.0	15.3		0.0	18.8		0.0	1.0		0.0	0.3	
Intersection Summary												
HCM 2010 Ctrl Delay			30.9									
HCM 2010 LOS			C									
Notes												

HCM Unsignalized Intersection Capacity Analysis

Year 2015 Background

1: Boardwalk & Oakridge Dr

AM



















												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	0	1	1	20	5	80	5	170	25	85	95	2
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
Hourly flow rate (vph)	0	1	1	24	6	94	6	200	29	100	112	2
Pedestrians												
Lane Width (ft)												
Walking Speed (ft/s)												
Percent Blockage												
Right turn flare (veh)												
Median type								None			TWLTL	
Median storage veh)											2	
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	636	554	113	540	541	215	114			229		
vC1, stage 1 conf vol	313	313		226	226							
vC2, stage 2 conf vol	324	241		314	314							
vCu, unblocked vol	636	554	113	540	541	215	114			229		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)	6.1	5.5		6.1	5.5							
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	100	100	100	96	99	89	100			93		
cM capacity (veh/h)	461	526	940	583	551	825	1475			1339		
Direction, Lane #	EB 1	WB 1	WB 2	NB 1	SB 1	SB 2						
Volume Total	2	24	100	235	100	114						
Volume Left	0	24	0	6	100	0						
Volume Right	1	0	94	29	0	2						
cSH	675	583	802	1475	1339	1700						
Volume to Capacity	0.00	0.04	0.12	0.00	0.07	0.07						
Queue Length 95th (ft)	0	3	11	0	6	0						
Control Delay (s)	10.4	11.4	10.1	0.2	7.9	0.0						
Lane LOS	B	B	B	A	A							
Approach Delay (s)	10.4	10.4		0.2	3.7							
Approach LOS	B	B										
Intersection Summary												
Average Delay			3.7									
Intersection Capacity Utilization			33.6%		ICU Level of Service				A			
Analysis Period (min)			15									

HCM Unsignalized Intersection Capacity Analysis

Year 2015 Background

2: Boardwalk & Sam's Club

AM

























												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	5	0	0	1	0	10	5	245	5	10	180	15
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
Hourly flow rate (vph)	6	0	0	1	0	12	6	288	6	12	212	18
Pedestrians												
Lane Width (ft)												
Walking Speed (ft/s)												
Percent Blockage												
Right turn flare (veh)												
Median type								TWLTL			TWLTL	
Median storage veh								2			2	
Upstream signal (ft)											1102	
pX, platoon unblocked												
vC, conflicting volume	556	550	221	538	556	291	229			294		
vC1, stage 1 conf vol	244	244		303	303							
vC2, stage 2 conf vol	312	306		235	253							
vCu, unblocked vol	556	550	221	538	556	291	229			294		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)	6.1	5.5		6.1	5.5							
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	99	100	100	100	100	98	100			99		
cM capacity (veh/h)	599	577	819	619	579	748	1339			1267		
Direction, Lane #	EB 1	WB 1	NB 1	NB 2	SB 1	SB 2						
Volume Total	6	13	6	294	12	229						
Volume Left	6	1	6	0	12	0						
Volume Right	0	12	0	6	0	18						
cSH	599	734	1339	1700	1267	1700						
Volume to Capacity	0.01	0.02	0.00	0.17	0.01	0.13						
Queue Length 95th (ft)	1	1	0	0	1	0						
Control Delay (s)	11.1	10.0	7.7	0.0	7.9	0.0						
Lane LOS	B	A	A		A							
Approach Delay (s)	11.1	10.0	0.2		0.4							
Approach LOS	B	A										
Intersection Summary												
Average Delay			0.6									
Intersection Capacity Utilization			23.2%		ICU Level of Service				A			
Analysis Period (min)			15									

HCM 2010 Signalized Intersection Summary

99: Boardwalk & Harmony

Year 2015 Background

AM



















												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	55	925	125	50	755	255	110	110	40	130	70	70
Number	7	4	14	3	8	18	1	6	16	5	2	12
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	0.99		0.99	0.99		0.99
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow veh/h/ln	193.7	186.3	193.7	186.3	186.3	193.7	186.3	186.3	186.3	186.3	186.3	186.3
Lanes	1	2	1	1	2	1	1	1	1	1	1	1
Cap, veh/h	414	2255	995	342	2251	993	300	177	148	282	202	170
Arrive On Green	0.04	0.61	0.61	0.04	0.60	0.60	0.08	0.09	0.09	0.10	0.11	0.11
Sat Flow, veh/h	1845	3725	1644	1774	3725	1644	1774	1863	1563	1774	1863	1566
Grp Volume(v), veh/h	65	1088	147	59	795	300	116	120	47	153	82	82
Grp Sat Flow(s),veh/h/ln	1845	1863	1644	1774	1863	1644	1774	1863	1563	1774	1863	1566
Q Serve(g_s), s	1.3	16.7	4.0	1.3	11.0	9.1	5.9	6.4	2.9	7.7	4.2	5.1
Cycle Q Clear(g_c), s	1.3	16.7	4.0	1.3	11.0	9.1	5.9	6.4	2.9	7.7	4.2	5.1
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	414	2255	995	342	2251	993	300	177	148	282	202	170
V/C Ratio(X)	0.16	0.48	0.15	0.17	0.35	0.30	0.39	0.68	0.32	0.54	0.41	0.48
Avail Cap(c_a), veh/h	497	2255	995	424	2251	993	324	227	190	282	227	191
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	7.3	11.3	8.8	8.2	10.2	9.8	37.0	44.9	43.3	35.5	42.7	43.1
Incr Delay (d2), s/veh	0.2	0.7	0.3	0.2	0.4	0.8	0.8	5.4	1.2	2.1	1.3	2.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q (50%), veh/ln	0.5	7.0	1.4	0.5	4.6	3.3	2.7	3.3	1.2	3.6	2.1	2.1
Lane Grp Delay (d), s/veh	7.5	12.0	9.1	8.4	10.7	10.6	37.9	50.3	44.5	37.6	44.0	45.2
Lane Grp LOS	A	B	A	A	B	B	D	D	D	D	D	D
Approach Vol, veh/h	1300				1154				283			
Approach Delay, s/veh	11.5				10.5				44.3			
Approach LOS	B				B				D			
Timer												
Assigned Phs	7	4		3	8		1	6		5	2	
Phs Duration (G+Y+Rc), s	7.4	67.1		7.3	67.0		11.6	15.2		13.0	16.6	
Change Period (Y+Rc), s	4.0	6.0		4.0	6.0		4.0	6.5		4.0	6.5	
Max Green Setting (Gmax), s	8.0	61.0		8.0	61.0		9.0	11.5		9.0	11.5	
Max Q Clear Time (g_c+I1), s	3.3	18.7		3.3	13.0		7.9	8.4		9.7	7.1	
Green Ext Time (p_c), s	0.0	13.4		0.0	13.7		0.0	0.3		0.0	0.5	
Intersection Summary												
HCM 2010 Ctrl Delay	17.2											
HCM 2010 LOS	B											
Notes												

HCM Unsignalized Intersection Capacity Analysis

Year 2015 Background

1: Boardwalk & Oakridge Dr

PM



















												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	2	5	5	25	0	120	0	170	25	105	295	0
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
Hourly flow rate (vph)	2	6	6	29	0	141	0	200	29	124	347	0
Pedestrians												
Lane Width (ft)												
Walking Speed (ft/s)												
Percent Blockage												
Right turn flare (veh)												
Median type								None			TWLTL	
Median storage veh)											2	
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	950	824	347	818	809	215	347			229		
vC1, stage 1 conf vol	594	594		215	215							
vC2, stage 2 conf vol	356	229		603	594							
vCu, unblocked vol	950	824	347	818	809	215	347			229		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)	6.1	5.5		6.1	5.5							
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	99	99	99	93	100	83	100			91		
cM capacity (veh/h)	343	411	696	410	422	825	1212			1339		
Direction, Lane #	EB 1	WB 1	WB 2	NB 1	SB 1	SB 2						
Volume Total	14	29	141	229	124	347						
Volume Left	2	29	0	0	124	0						
Volume Right	6	0	141	29	0	0						
cSH	476	410	825	1212	1339	1700						
Volume to Capacity	0.03	0.07	0.17	0.00	0.09	0.20						
Queue Length 95th (ft)	2	6	15	0	8	0						
Control Delay (s)	12.8	14.5	10.3	0.0	8.0	0.0						
Lane LOS	B	B	B		A							
Approach Delay (s)	12.8	11.0		0.0	2.1							
Approach LOS	B	B										
Intersection Summary												
Average Delay			3.4									
Intersection Capacity Utilization			43.4%		ICU Level of Service				A			
Analysis Period (min)			15									

HCM Unsignalized Intersection Capacity Analysis

Year 2015 Background

























2: Boardwalk & Sam's Club

PM

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	25	1	10	15	0	50	5	285	5	30	380	1
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
Hourly flow rate (vph)	29	1	12	18	0	59	6	335	6	35	447	1
Pedestrians												
Lane Width (ft)												
Walking Speed (ft/s)												
Percent Blockage												
Right turn flare (veh)												
Median type								TWLTL			TWLTL	
Median storage (veh)								2			2	
Upstream signal (ft)											1102	
pX, platoon unblocked												
vC, conflicting volume	924	871	448	880	869	338	448			341		
vC1, stage 1 conf vol	518	518		350	350							
vC2, stage 2 conf vol	406	353		530	519							
vCu, unblocked vol	924	871	448	880	869	338	448			341		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)	6.1	5.5		6.1	5.5							
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	93	100	98	96	100	92	99			97		
cM capacity (veh/h)	416	448	611	444	452	704	1112			1218		
Direction, Lane #	EB 1	WB 1	NB 1	NB 2	SB 1	SB 2						
Volume Total	42	76	6	341	35	448						
Volume Left	29	18	6	0	35	0						
Volume Right	12	59	0	6	0	1						
cSH	458	620	1112	1700	1218	1700						
Volume to Capacity	0.09	0.12	0.01	0.20	0.03	0.26						
Queue Length 95th (ft)	8	10	0	0	2	0						
Control Delay (s)	13.7	11.6	8.3	0.0	8.0	0.0						
Lane LOS	B	B	A		A							
Approach Delay (s)	13.7	11.6	0.1		0.6							
Approach LOS	B	B										
Intersection Summary												
Average Delay			1.9									
Intersection Capacity Utilization			36.7%		ICU Level of Service					A		
Analysis Period (min)			15									

HCM 2010 Signalized Intersection Summary
99: Boardwalk & Harmony



















Year 2015 Background
PM

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	65	1275	325	115	1305	305	265	175	105	265	205	95
Number	7	4	14	3	8	18	1	6	16	5	2	12
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.99	1.00		0.99
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow veh/h/ln	193.7	186.3	193.7	186.3	186.3	193.7	186.3	186.3	186.3	186.3	186.3	186.3
Lanes	1	2	1	1	2	1	1	1	1	1	1	1
Cap, veh/h	195	1898	837	216	1959	864	347	277	234	368	277	234
Arrive On Green	0.04	0.51	0.51	0.06	0.53	0.53	0.14	0.15	0.15	0.14	0.15	0.15
Sat Flow, veh/h	1845	3725	1643	1774	3725	1644	1774	1863	1571	1774	1863	1571
Grp Volume(v), veh/h	73	1433	365	129	1466	343	298	197	118	298	230	107
Grp Sat Flow(s),veh/h/ln	1845	1863	1643	1774	1863	1644	1774	1863	1571	1774	1863	1571
Q Serve(g_s), s	2.2	36.1	16.5	3.8	36.2	14.7	16.8	11.9	8.1	16.8	14.1	7.3
Cycle Q Clear(g_c), s	2.2	36.1	16.5	3.8	36.2	14.7	16.8	11.9	8.1	16.8	14.1	7.3
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	195	1898	837	216	1959	864	347	277	234	368	277	234
V/C Ratio(X)	0.37	0.75	0.44	0.60	0.75	0.40	0.86	0.71	0.51	0.81	0.83	0.46
Avail Cap(c_a), veh/h	245	1898	837	235	1959	864	347	293	247	368	293	247
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	19.3	23.0	18.2	22.5	21.8	16.7	36.5	47.7	46.1	36.2	48.7	45.8
Incr Delay (d2), s/veh	1.2	2.8	1.6	3.6	2.7	1.4	18.9	7.4	1.7	12.7	17.2	1.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q (50%), veh/ln	1.0	16.5	6.6	4.0	16.4	5.9	10.8	6.3	3.3	8.8	8.2	3.0
Lane Grp Delay (d), s/veh	20.4	25.9	19.9	26.1	24.5	18.1	55.4	55.1	47.8	48.9	65.9	47.2
Lane Grp LOS	C	C	B	C	C	B	E	E	D	D	E	D
Approach Vol, veh/h		1871			1938			613			635	
Approach Delay, s/veh		24.5			23.5			53.8			54.8	
Approach LOS		C			C			D			D	
Timer												
Assigned Phs	7	4		3	8		1	6		5	2	
Phs Duration (G+Y+Rc), s	7.8	65.0		9.7	66.9		20.0	23.0		20.0	23.0	
Change Period (Y+Rc), s	4.0	6.0		4.0	6.0		4.0	6.5		4.0	6.5	
Max Green Setting (Gmax), s	7.0	59.0		7.0	59.0		16.0	17.5		16.0	17.5	
Max Q Clear Time (g_c+I1), s	4.2	38.1		5.8	38.2		18.8	13.9		18.8	16.1	
Green Ext Time (p_c), s	0.0	16.5		0.0	16.4		0.0	0.9		0.0	0.4	
Intersection Summary												
HCM 2010 Ctrl Delay			31.4									
HCM 2010 LOS			C									
Notes												

HCM Unsignalized Intersection Capacity Analysis



















1: Boardwalk & Oakridge Dr

Year 2015 w/Project
AM

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	20	5	10	20	10	80	15	170	25	85	95	30
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
Hourly flow rate (vph)	24	6	12	24	12	94	18	200	29	100	112	35
Pedestrians												
Lane Width (ft)												
Walking Speed (ft/s)												
Percent Blockage												
Right turn flare (veh)												
Median type								None			TWLTL	
Median storage veh											2	
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	679	594	129	576	597	215	147			229		
vC1, stage 1 conf vol	329	329		250	250							
vC2, stage 2 conf vol	350	265		326	347							
vCu, unblocked vol	679	594	129	576	597	215	147			229		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)	6.1	5.5		6.1	5.5							
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	95	99	99	96	98	89	99			93		
cM capacity (veh/h)	436	508	920	551	522	825	1435			1339		
Direction, Lane #	EB 1	WB 1	WB 2	NB 1	SB 1	SB 2						
Volume Total	41	24	106	247	100	147						
Volume Left	24	24	0	18	100	0						
Volume Right	12	0	94	29	0	35						
cSH	525	551	775	1435	1339	1700						
Volume to Capacity	0.08	0.04	0.14	0.01	0.07	0.09						
Queue Length 95th (ft)	6	3	12	1	6	0						
Control Delay (s)	12.4	11.8	10.4	0.6	7.9	0.0						
Lane LOS	B	B	B	A	A							
Approach Delay (s)	12.4	10.6		0.6	3.2							
Approach LOS	B	B										
Intersection Summary												
Average Delay			4.3									
Intersection Capacity Utilization			36.8%		ICU Level of Service				A			
Analysis Period (min)			15									

HCM Unsignalized Intersection Capacity Analysis 2: Boardwalk & Sam's Club

























Year 2015 w/Project
AM

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	30	0	0	1	0	10	5	265	5	10	205	40
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
Hourly flow rate (vph)	35	0	0	1	0	12	6	312	6	12	241	47
Pedestrians												
Lane Width (ft)												
Walking Speed (ft/s)												
Percent Blockage												
Right turn flare (veh)												
Median type								TWLTL			TWLTL	
Median storage veh								2			2	
Upstream signal (ft)											1102	
pX, platoon unblocked												
vC, conflicting volume	624	618	265	591	638	315	288			318		
vC1, stage 1 conf vol	288	288		326	326							
vC2, stage 2 conf vol	335	329		265	312							
vCu, unblocked vol	624	618	265	591	638	315	288			318		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)	6.1	5.5		6.1	5.5							
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	94	100	100	100	100	98	100			99		
cM capacity (veh/h)	568	551	774	592	547	726	1274			1242		
Direction, Lane #	EB 1	WB 1	NB 1	NB 2	SB 1	SB 2						
Volume Total	35	13	6	318	12	288						
Volume Left	35	1	6	0	12	0						
Volume Right	0	12	0	6	0	47						
cSH	568	711	1274	1700	1242	1700						
Volume to Capacity	0.06	0.02	0.00	0.19	0.01	0.17						
Queue Length 95th (ft)	5	1	0	0	1	0						
Control Delay (s)	11.8	10.2	7.8	0.0	7.9	0.0						
Lane LOS	B	B	A		A							
Approach Delay (s)	11.8	10.2	0.1		0.3							
Approach LOS	B	B										
Intersection Summary												
Average Delay			1.0									
Intersection Capacity Utilization			29.2%		ICU Level of Service				A			
Analysis Period (min)			15									

HCM 2010 Signalized Intersection Summary

99: Boardwalk & Harmony



















Year 2015 w/Project
AM

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	55	925	155	65	755	255	135	115	55	130	75	70
Number	7	4	14	3	8	18	1	6	16	5	2	12
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	0.99		0.99	0.99		0.99
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow veh/h/ln	193.7	186.3	193.7	186.3	186.3	193.7	186.3	186.3	186.3	186.3	186.3	186.3
Lanes	1	2	1	1	2	1	1	1	1	1	1	1
Cap, veh/h	412	2240	989	338	2246	991	305	182	152	280	182	152
Arrive On Green	0.04	0.60	0.60	0.04	0.60	0.60	0.10	0.10	0.10	0.10	0.10	0.10
Sat Flow, veh/h	1845	3725	1644	1774	3725	1644	1774	1863	1564	1774	1863	1564
Grp Volume(v), veh/h	65	1088	182	76	795	300	142	125	65	153	88	82
Grp Sat Flow(s),veh/h/ln	1845	1863	1644	1774	1863	1644	1774	1863	1564	1774	1863	1564
Q Serve(g_s), s	1.3	17.0	5.1	1.6	11.1	9.1	7.2	6.7	4.0	7.8	4.6	5.1
Cycle Q Clear(g_c), s	1.3	17.0	5.1	1.6	11.1	9.1	7.2	6.7	4.0	7.8	4.6	5.1
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	412	2240	989	338	2246	991	305	182	152	280	182	152
V/C Ratio(X)	0.16	0.49	0.18	0.22	0.35	0.30	0.47	0.69	0.43	0.55	0.48	0.54
Avail Cap(c_a), veh/h	495	2240	989	414	2246	991	305	226	190	280	226	190
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	7.4	11.6	9.2	8.4	10.3	9.9	36.5	45.0	43.8	36.9	44.1	44.3
Incr Delay (d2), s/veh	0.2	0.8	0.4	0.3	0.4	0.8	1.1	6.3	1.9	2.2	2.0	2.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q (50%), veh/ln	0.5	7.2	1.9	0.6	4.6	3.5	3.3	3.5	1.6	3.7	2.3	2.1
Lane Grp Delay (d), s/veh	7.6	12.3	9.6	8.8	10.8	10.7	37.6	51.3	45.7	39.0	46.1	47.2
Lane Grp LOS	A	B	A	A	B	B	D	D	D	D	D	D
Approach Vol, veh/h	1335			1171			332			323		
Approach Delay, s/veh	11.7			10.6			44.3			43.0		
Approach LOS	B			B			D			D		
Timer												
Assigned Phs	7	4		3	8		1	6		5	2	
Phs Duration (G+Y+Rc), s	7.4	67.0		7.5	67.2		13.0	15.6		13.0	15.6	
Change Period (Y+Rc), s	4.0	6.0		4.0	6.0		4.0	6.5		4.0	6.5	
Max Green Setting (Gmax), s	8.0	61.0		8.0	61.0		9.0	11.5		9.0	11.5	
Max Q Clear Time (g_c+I1), s	3.3	19.0		3.6	13.1		9.2	8.7		9.8	7.1	
Green Ext Time (p_c), s	0.0	13.7		0.1	14.1		0.0	0.4		0.0	0.5	
Intersection Summary												
HCM 2010 Ctrl Delay	17.9											
HCM 2010 LOS	B											
Notes												

HCM Unsignalized Intersection Capacity Analysis


















1: Boardwalk & Oakridge Dr

Year 2015 w/Project
PM

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	30	10	15	25	5	120	10	170	25	105	295	20
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
Hourly flow rate (vph)	35	12	18	29	6	141	12	200	29	124	347	24
Pedestrians												
Lane Width (ft)												
Walking Speed (ft/s)												
Percent Blockage												
Right turn flare (veh)												
Median type								None			TWLTL	
Median storage veh											2	
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	988	859	359	856	856	215	371			229		
vC1, stage 1 conf vol	606	606		238	238							
vC2, stage 2 conf vol	382	253		618	618							
vCu, unblocked vol	988	859	359	856	856	215	371			229		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)	6.1	5.5		6.1	5.5							
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	89	97	97	92	99	83	99			91		
cM capacity (veh/h)	326	401	686	380	401	825	1188			1339		
Direction, Lane #	EB 1	WB 1	WB 2	NB 1	SB 1	SB 2						
Volume Total	65	29	147	241	124	371						
Volume Left	35	29	0	12	124	0						
Volume Right	18	0	141	29	0	24						
cSH	396	380	792	1188	1339	1700						
Volume to Capacity	0.16	0.08	0.19	0.01	0.09	0.22						
Queue Length 95th (ft)	14	6	17	1	8	0						
Control Delay (s)	15.8	15.3	10.6	0.5	8.0	0.0						
Lane LOS	C	C	B	A	A							
Approach Delay (s)	15.8	11.4		0.5	2.0							
Approach LOS	C	B										
Intersection Summary												
Average Delay			4.2									
Intersection Capacity Utilization			52.1%		ICU Level of Service		A					
Analysis Period (min)			15									

HCM Unsignalized Intersection Capacity Analysis 2: Boardwalk & Sam's Club

























Year 2015 w/Project
PM

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	50	1	10	15	0	50	5	310	5	30	400	25
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
Hourly flow rate (vph)	59	1	12	18	0	59	6	365	6	35	471	29
Pedestrians												
Lane Width (ft)												
Walking Speed (ft/s)												
Percent Blockage												
Right turn flare (veh)												
Median type								TWLT			TWLT	
Median storage veh								2			2	
Upstream signal (ft)											1102	
pX, platoon unblocked												
vC, conflicting volume	991	938	485	933	950	368	500			371		
vC1, stage 1 conf vol	556	556		379	379							
vC2, stage 2 conf vol	435	382		554	571							
vCu, unblocked vol	991	938	485	933	950	368	500			371		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)	6.1	5.5		6.1	5.5							
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	85	100	98	96	100	91	99			97		
cM capacity (veh/h)	393	427	582	426	426	678	1064			1188		
Direction, Lane #	EB 1	WB 1	NB 1	NB 2	SB 1	SB 2						
Volume Total	72	76	6	371	35	500						
Volume Left	59	18	6	0	35	0						
Volume Right	12	59	0	6	0	29						
cSH	416	597	1064	1700	1188	1700						
Volume to Capacity	0.17	0.13	0.01	0.22	0.03	0.29						
Queue Length 95th (ft)	15	11	0	0	2	0						
Control Delay (s)	15.4	11.9	8.4	0.0	8.1	0.0						
Lane LOS	C	B	A		A							
Approach Delay (s)	15.4	11.9	0.1		0.5							
Approach LOS	C	B										
Intersection Summary												
Average Delay			2.2									
Intersection Capacity Utilization			41.4%		ICU Level of Service					A		
Analysis Period (min)			15									

HCM 2010 Signalized Intersection Summary

99: Boardwalk & Harmony

Year 2015 w/Project
PM

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	65	1275	355	130	1305	305	295	180	120	265	210	95
Number	7	4	14	3	8	18	1	6	16	5	2	12
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.99	1.00		0.99
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow veh/h/ln	193.7	186.3	193.7	186.3	186.3	193.7	186.3	186.3	186.3	186.3	186.3	186.3
Lanes	1	2	1	1	2	1	1	1	1	1	1	1
Cap, veh/h	195	1884	831	219	1959	864	343	281	237	364	281	237
Arrive On Green	0.04	0.51	0.51	0.06	0.53	0.53	0.14	0.15	0.15	0.14	0.15	0.15
Sat Flow, veh/h	1845	3725	1643	1774	3725	1644	1774	1863	1571	1774	1863	1571
Grp Volume(v), veh/h	73	1433	399	146	1466	343	331	202	135	298	236	107
Grp Sat Flow(s),veh/h/ln	1845	1863	1643	1774	1863	1644	1774	1863	1571	1774	1863	1571
Q Serve(g_s), s	2.2	36.7	18.8	4.3	36.5	14.8	17.0	12.3	9.5	16.9	14.6	7.4
Cycle Q Clear(g_c), s	2.2	36.7	18.8	4.3	36.5	14.8	17.0	12.3	9.5	16.9	14.6	7.4
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	195	1884	831	219	1959	864	343	281	237	364	281	237
V/C Ratio(X)	0.37	0.76	0.48	0.67	0.75	0.40	0.96	0.72	0.57	0.82	0.84	0.45
Avail Cap(c_a), veh/h	244	1884	831	230	1959	864	343	290	245	364	290	245
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	19.4	23.5	19.1	23.6	22.0	16.9	38.9	48.0	46.8	36.4	49.0	45.9
Incr Delay (d2), s/veh	1.2	3.0	2.0	6.7	2.7	1.4	38.9	8.1	2.9	13.7	18.8	1.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q (50%), veh/ln	1.0	16.9	7.6	4.8	16.8	6.0	3.7	6.5	3.9	9.0	8.5	3.0
Lane Grp Delay (d), s/veh	20.6	26.5	21.1	30.3	24.7	18.2	77.8	56.0	49.7	50.1	67.8	47.2
Lane Grp LOS	C	C	C	C	C	B	E	E	D	D	E	D
Approach Vol, veh/h		1905			1955			668			641	
Approach Delay, s/veh		25.1			24.0			65.6			56.1	
Approach LOS		C			C			E			E	
Timer												
Assigned Phs	7	4		3	8		1	6		5	2	
Phs Duration (G+Y+Rc), s	7.9	65.0		10.2	67.4		20.0	23.4		20.0	23.4	
Change Period (Y+Rc), s	4.0	6.0		4.0	6.0		4.0	6.5		4.0	6.5	
Max Green Setting (Gmax), s	7.0	59.0		7.0	59.0		16.0	17.5		16.0	17.5	
Max Q Clear Time (g_c+I1), s	4.2	38.7		6.3	38.5		19.0	14.3		18.9	16.6	
Green Ext Time (p_c), s	0.0	16.3		0.0	16.4		0.0	0.9		0.0	0.3	
Intersection Summary												
HCM 2010 Ctrl Delay			33.8									
HCM 2010 LOS			C									
Notes												

The Learning Experience at Miramont Traffic Impact Study

October 3, 2013



Count Data Sheets

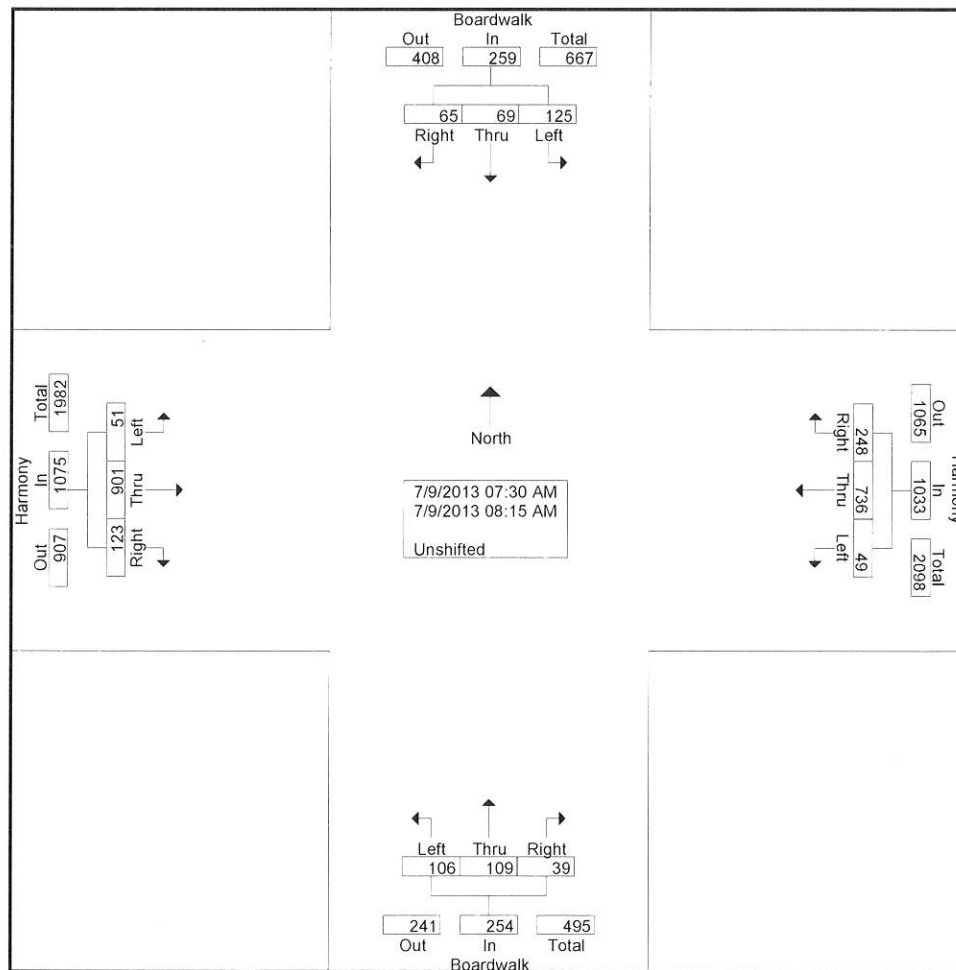
City of Fort Collins Traffic Operations
 626 Linden Street, PO Box 580
 Fort Collins, CO 80522-0580
Turning Movement Study

North/South Street: Boardwalk
 East/West Street: Harmony
 Time: AM
 ICU Number: 99

File Name : Boardwalk & Harmony 7-9-13
 Site Code : 00000099
 Start Date : 7/9/2013
 Page No : 1

Groups Printed- Unshifted

	Boardwalk Southbound				Harmony Westbound				Boardwalk Northbound				Harmony Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
07:30 AM	16	12	29	57	58	164	9	231	9	17	15	41	21	208	12	241	570
07:45 AM	12	22	34	68	79	210	9	298	12	36	25	73	31	267	19	317	756
Total	28	34	63	125	137	374	18	529	21	53	40	114	52	475	31	558	1326
08:00 AM	20	21	36	77	65	197	14	276	5	20	29	54	33	216	8	257	664
08:15 AM	17	14	26	57	46	165	17	228	13	36	37	86	38	210	12	260	631
Grand Total	65	69	125	259	248	736	49	1033	39	109	106	254	123	901	51	1075	2621
Apprch %	25.1	26.6	48.3		24	71.2	4.7		15.4	42.9	41.7		11.4	83.8	4.7		
Total %	2.5	2.6	4.8	9.9	9.5	28.1	1.9	39.4	1.5	4.2	4	9.7	4.7	34.4	1.9	41	



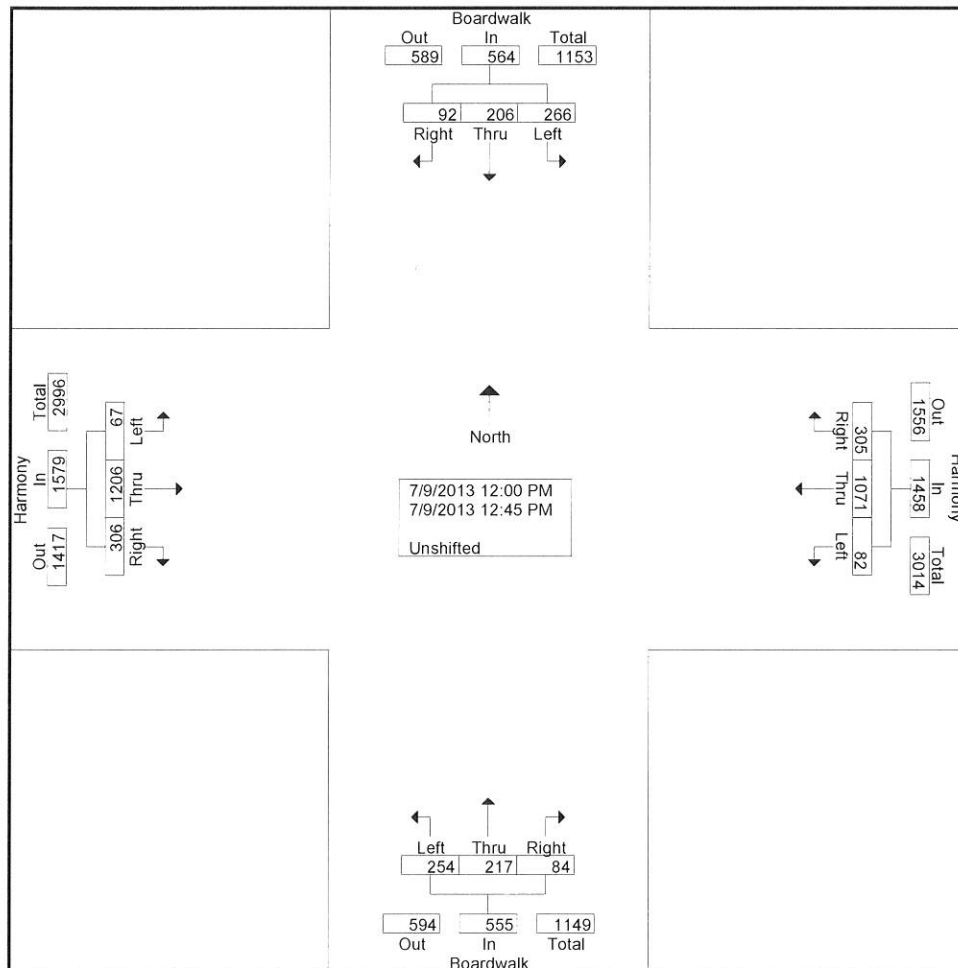
City of Fort Collins Traffic Operations
 626 Linden Street, PO Box 580
 Fort Collins, CO 80522-0580
Turning Movement Study

North/South Street: Boardwalk
 East/West Street: Harmony
 Time: NN
 ICU Number: 99

File Name : Boardwalk & Harmony 7-9-13
 Site Code : 00000099
 Start Date : 7/9/2013
 Page No : 1

Groups Printed- Unshifted

	Boardwalk Southbound				Harmony Westbound				Boardwalk Northbound				Harmony Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
12:00 PM	22	48	67	137	78	275	26	379	24	66	66	156	74	259	16	349	1021
12:15 PM	21	55	62	138	78	292	17	387	17	35	59	111	68	328	13	409	1045
12:30 PM	28	47	62	137	61	222	19	302	20	60	61	141	74	288	19	381	961
12:45 PM	21	56	75	152	88	282	20	390	23	56	68	147	90	331	19	440	1129
Total	92	206	266	564	305	1071	82	1458	84	217	254	555	306	1206	67	1579	4156
Grand Total	92	206	266	564	305	1071	82	1458	84	217	254	555	306	1206	67	1579	4156
Apprch %	16.3	36.5	47.2		20.9	73.5	5.6		15.1	39.1	45.8		19.4	76.4	4.2		
Total %	2.2	5	6.4	13.6	7.3	25.8	2	35.1	2	5.2	6.1	13.4	7.4	29	1.6	38	



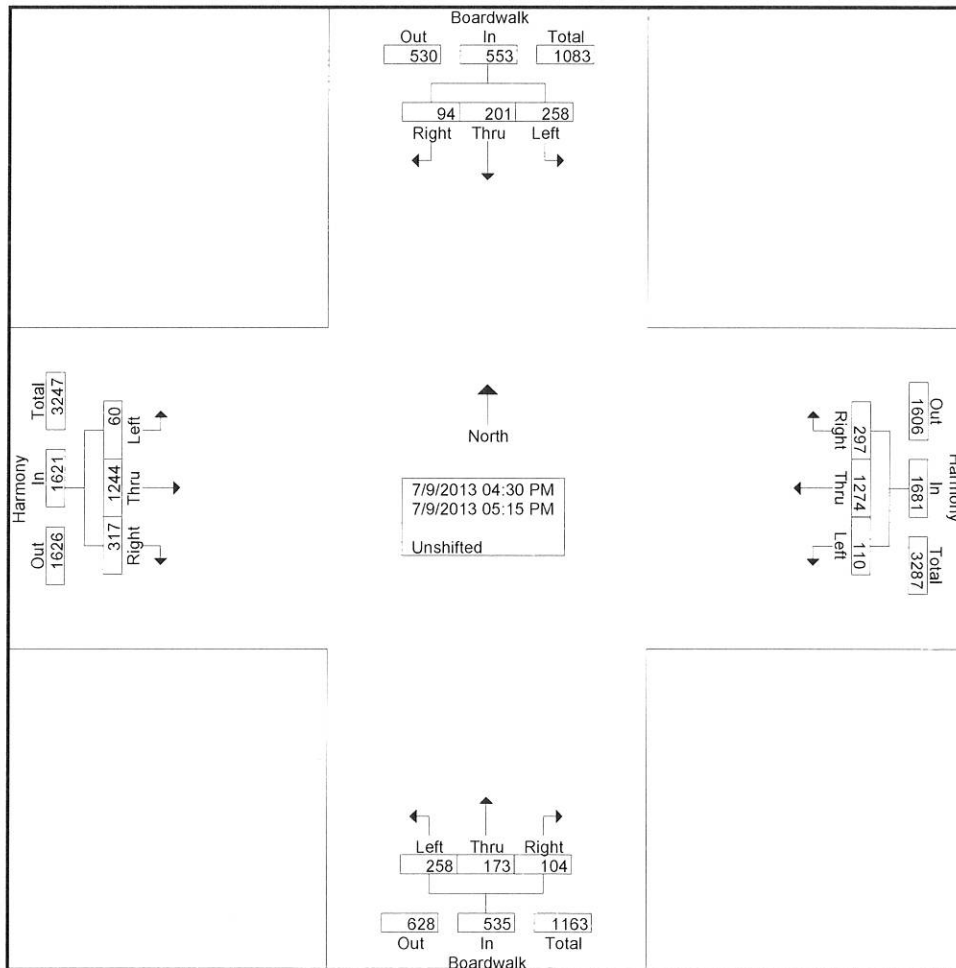
City of Fort Collins Traffic Operations
 626 Linden Street, PO Box 580
 Fort Collins, CO 80522-0580
Turning Movement Study

North/South Street: Boardwalk
 East/West Street: Harmony
 Time: PM
 ICU Number: 99

File Name : Boardwalk & Harmony 7-9-13
 Site Code : 00000099
 Start Date : 7/9/2013
 Page No : 1

Groups Printed- Unshifted

	Boardwalk Southbound				Harmony Westbound				Boardwalk Northbound				Harmony Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
04:30 PM	29	41	61	131	70	267	24	361	21	39	73	133	70	296	17	383	1008
04:45 PM	17	46	58	121	72	333	21	426	25	30	56	111	73	354	17	444	1102
Total	46	87	119	252	142	600	45	787	46	69	129	244	143	650	34	827	2110
05:00 PM	26	61	75	162	76	356	25	457	32	60	63	155	74	280	12	366	1140
05:15 PM	22	53	64	139	79	318	40	437	26	44	66	136	100	314	14	428	1140
Grand Total	94	201	258	553	297	1274	110	1681	104	173	258	535	317	1244	60	1621	4390
Apprch %	17	36.3	46.7		17.7	75.8	6.5		19.4	32.3	48.2		19.6	76.7	3.7		
Total %	2.1	4.6	5.9	12.6	6.8	29	2.5	38.3	2.4	3.9	5.9	12.2	7.2	28.3	1.4	36.9	



City of Fort Collins Traffic Operations
626 Linden Street, PO Box 580
Fort Collins, CO 80522-0580
Turning Movement Study

North/South Street: Boardwalk
East/West Street: Harmony
Time: PHF
ICU Number: 99

File Name : Boardwalk & Harmony 7-9-13
Site Code : 00000099
Start Date : 7/9/2013
Page No : 1

	Boardwalk Southbound				Harmony Westbound				Boardwalk Northbound				Harmony Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 09:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	16	12	29	57	58	164	9	231	9	17	15	41	21	208	12	241	570
07:45 AM	12	22	34	68	79	210	9	298	12	36	25	73	31	267	19	317	756
08:00 AM	20	21	36	77	65	197	14	276	5	20	29	54	33	216	8	257	664
08:15 AM	17	14	26	57	46	165	17	228	13	36	37	86	38	210	12	260	631
Total Volume	65	69	125	259	248	736	49	1033	39	109	106	254	123	901	51	1075	2621
% App. Total	25.1	26.6	48.3		24	71.2	4.7		15.4	42.9	41.7		11.4	83.8	4.7		
PHF	.813	.784	.868	.841	.785	.876	.721	.867	.750	.757	.716	.738	.809	.844	.671	.848	.867

Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 12:00 PM

12:00 PM	22	48	67	137	78	275	26	379	24	66	66	156	74	259	16	349	1021
12:15 PM	21	55	62	138	78	292	17	387	17	35	59	111	68	328	13	409	1045
12:30 PM	28	47	62	137	61	222	19	302	20	60	61	141	74	288	19	381	961
12:45 PM	21	56	75	152	88	282	20	390	23	56	68	147	90	331	19	440	1129
Total Volume	92	206	266	564	305	1071	82	1458	84	217	254	555	306	1206	67	1579	4156
% App. Total	16.3	36.5	47.2		20.9	73.5	5.6		15.1	39.1	45.8		19.4	76.4	4.2		
PHF	.821	.920	.887	.928	.866	.917	.788	.935	.875	.822	.934	.889	.850	.911	.882	.897	.920

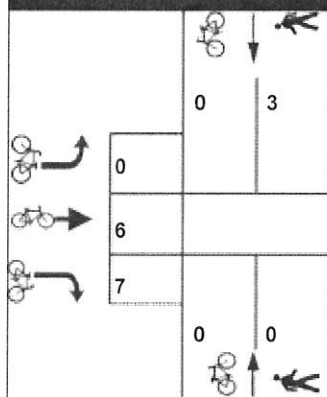
Peak Hour Analysis From 02:00 PM to 05:15 PM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 04:30 PM

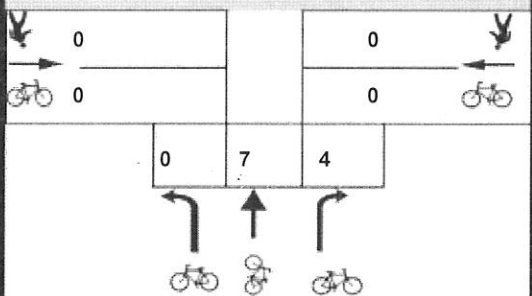
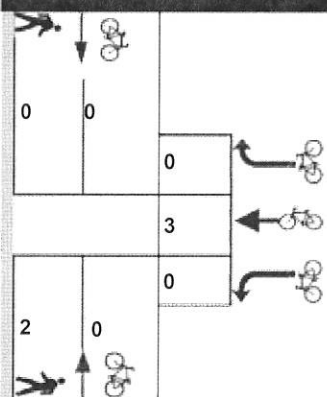
04:30 PM	29	41	61	131	70	267	24	361	21	39	73	133	70	296	17	383	1008
04:45 PM	17	46	58	121	72	333	21	426	25	30	56	111	73	354	17	444	1102
05:00 PM	26	61	75	162	76	356	25	457	32	60	63	155	74	280	12	366	1140
05:15 PM	22	53	64	139	79	318	40	437	26	44	66	136	100	314	14	428	1140
Total Volume	94	201	258	553	297	1274	110	1681	104	173	258	535	317	1244	60	1621	4390
% App. Total	17	36.3	46.7		17.7	75.8	6.5		19.4	32.3	48.2		19.6	76.7	3.7		
PHF	.810	.824	.860	.853	.940	.895	.688	.920	.813	.721	.884	.863	.793	.879	.882	.913	.963

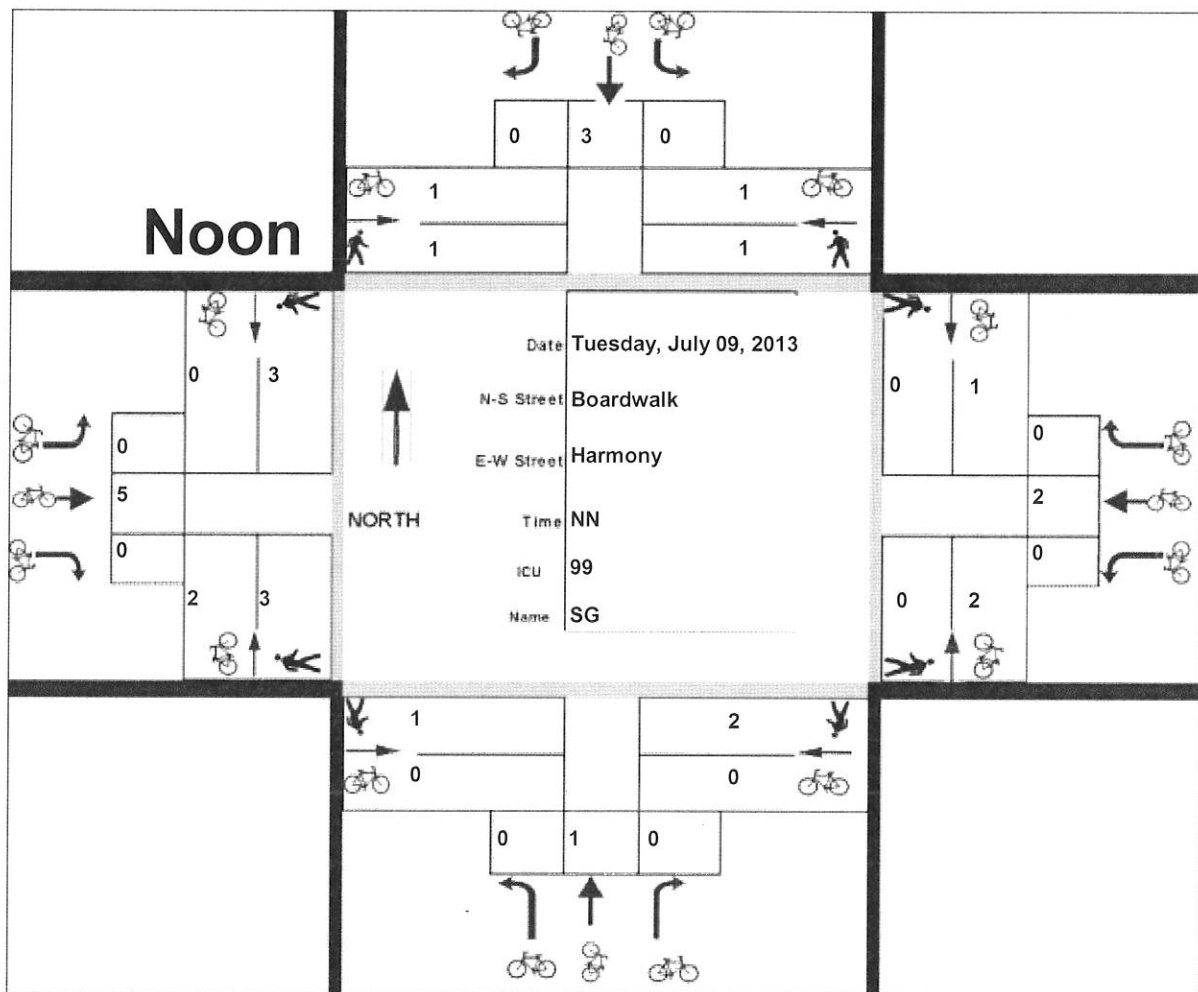
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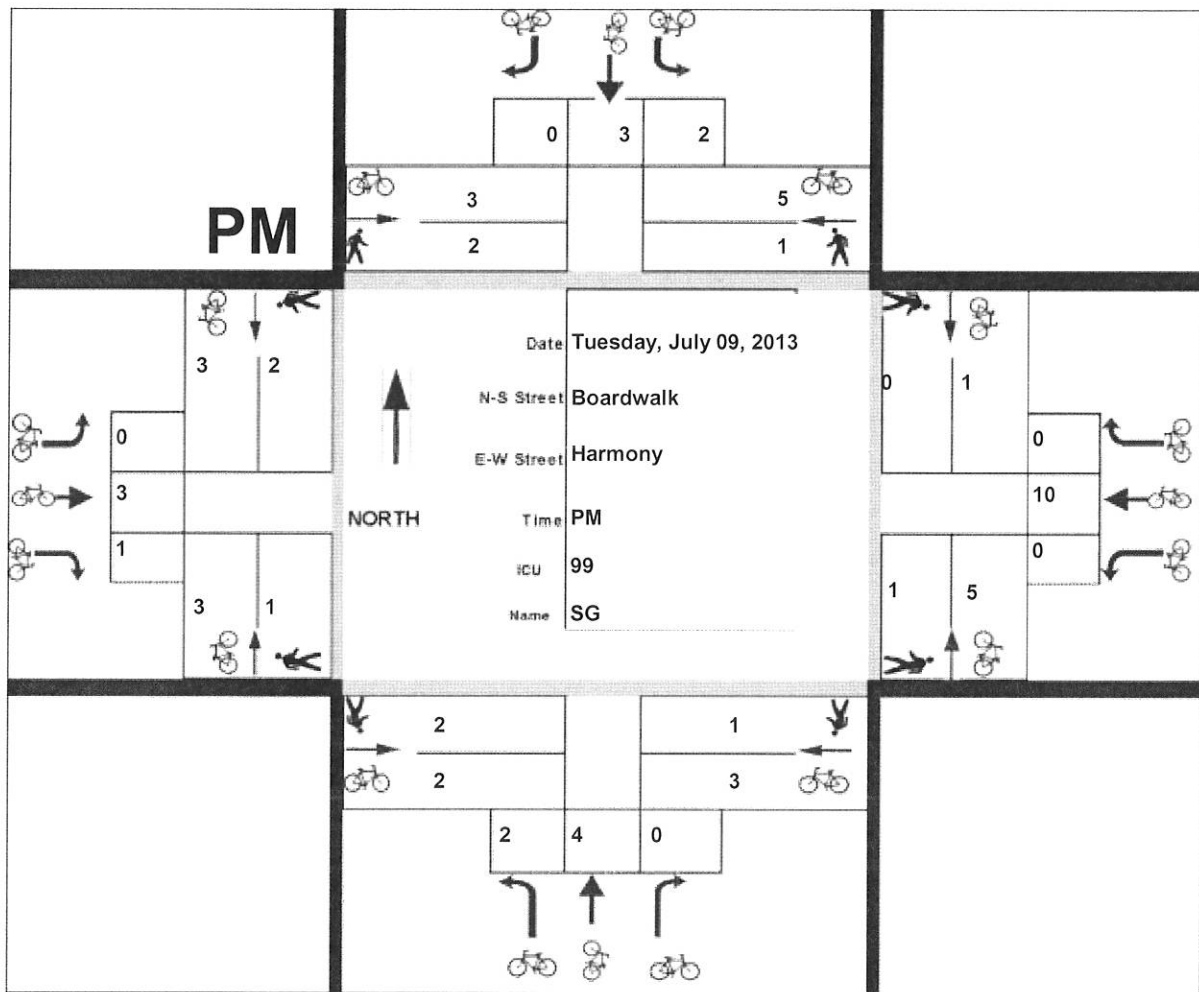
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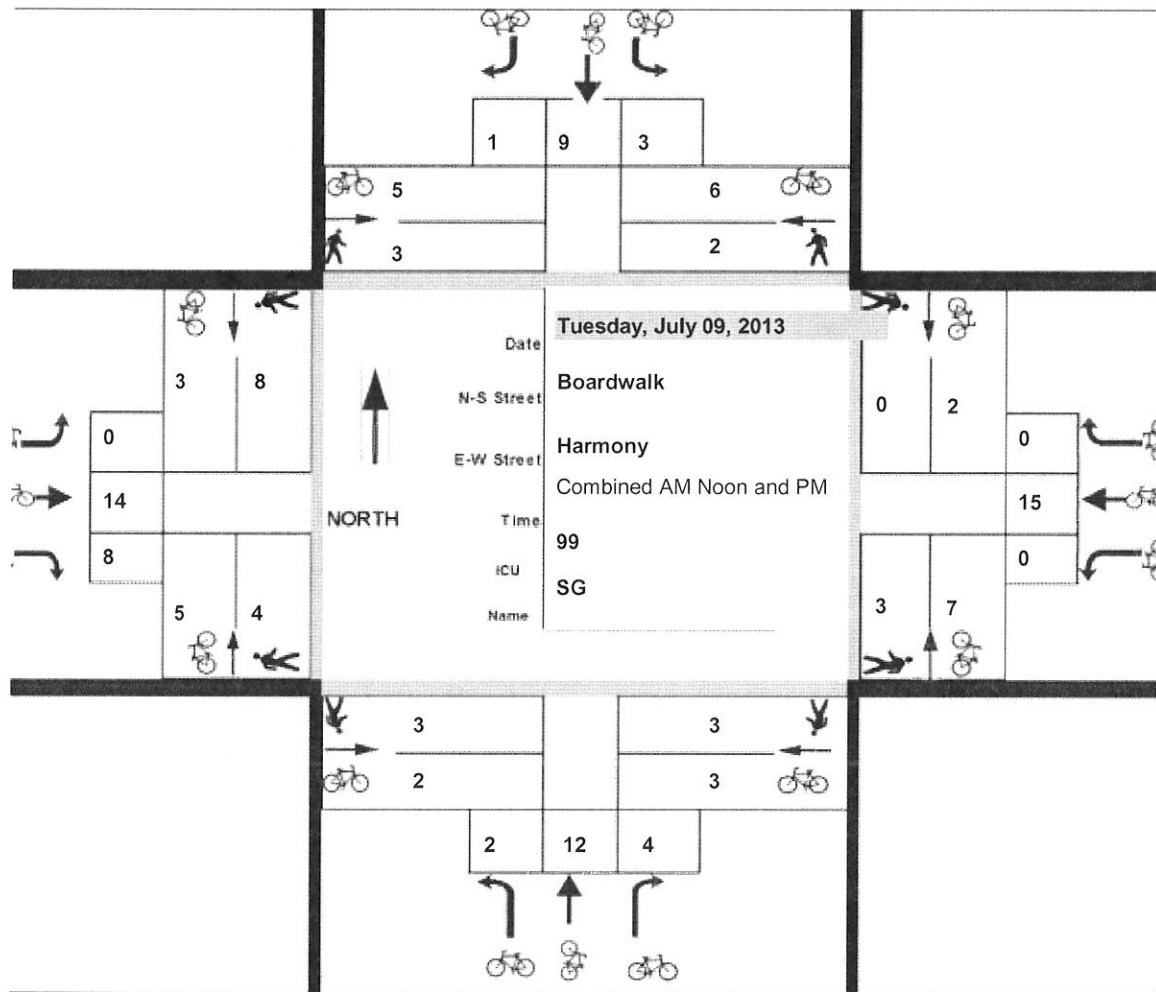
Date Tuesday, July 09, 2013
N-S Street Boardwalk
E-W Street Harmony
Time Am
ICU 99
Name SG







Combined total for AM - Noon and PM



COUNTER MEASURES INC.

1889 YORK STREET

DENVER, COLORADO 80206

303-333-7409

N/S STREET: BOARDWALK DR

E/W STREET: SAMS CLUB / MIRAMONT O-P ACC

CITY: FORT COLLINS

COUNTY: LARIMER

File Name : BROASAMS

Site Code : 00000005

Start Date : 9/17/2013

Page No : 1

Groups Printed- VEHICLES

	BOARDWALK DR Southbound			SAM CLUB ACCESS Westbound			BOARDWALK DR Northbound			MIRAMONT OFFICE PARK ACCESS Eastbound			
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Int. Total
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
07:00 AM	0	22	1	0	0	0	1	65	0	0	0	0	89
07:15 AM	0	25	1	0	0	0	0	55	0	0	0	0	81
07:30 AM	0	27	2	0	0	1	1	61	0	0	0	0	92
07:45 AM	1	53	6	0	0	0	1	66	0	1	0	0	128
Total	1	127	10	0	0	1	3	247	0	1	0	0	390
08:00 AM	2	37	4	0	0	2	0	61	0	2	0	0	108
08:15 AM	1	43	1	0	0	2	0	57	0	0	0	0	104
08:30 AM	2	43	2	1	0	6	2	56	3	1	0	0	116
08:45 AM	6	43	1	3	0	0	1	62	1	4	0	1	122
Total	11	166	8	4	0	10	3	236	4	7	0	1	450
04:00 PM	10	62	3	5	0	15	0	51	4	17	0	4	171
04:15 PM	6	64	1	2	0	16	0	61	1	4	0	2	157
04:30 PM	9	58	2	2	0	15	0	62	2	3	0	2	155
04:45 PM	12	81	2	5	0	11	2	63	5	4	0	1	186
Total	37	265	8	14	0	57	2	237	12	28	0	9	669
05:00 PM	4	86	0	2	0	10	1	61	1	13	1	4	183
05:15 PM	11	102	0	1	0	11	0	66	1	2	0	3	197
05:30 PM	5	102	0	2	0	11	1	79	3	7	0	0	210
05:45 PM	9	81	1	6	0	15	3	70	0	1	0	2	188
Total	29	371	1	11	0	47	5	276	5	23	1	9	778
Grand Total	78	929	27	29	0	115	13	996	21	59	1	19	2287
Apprch %	7.5	89.8	2.6	20.1	0.0	79.9	1.3	96.7	2.0	74.7	1.3	24.1	
Total %	3.4	40.6	1.2	1.3	0.0	5.0	0.6	43.6	0.9	2.6	0.0	0.8	

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N/S STREET: BOARDWALK DR
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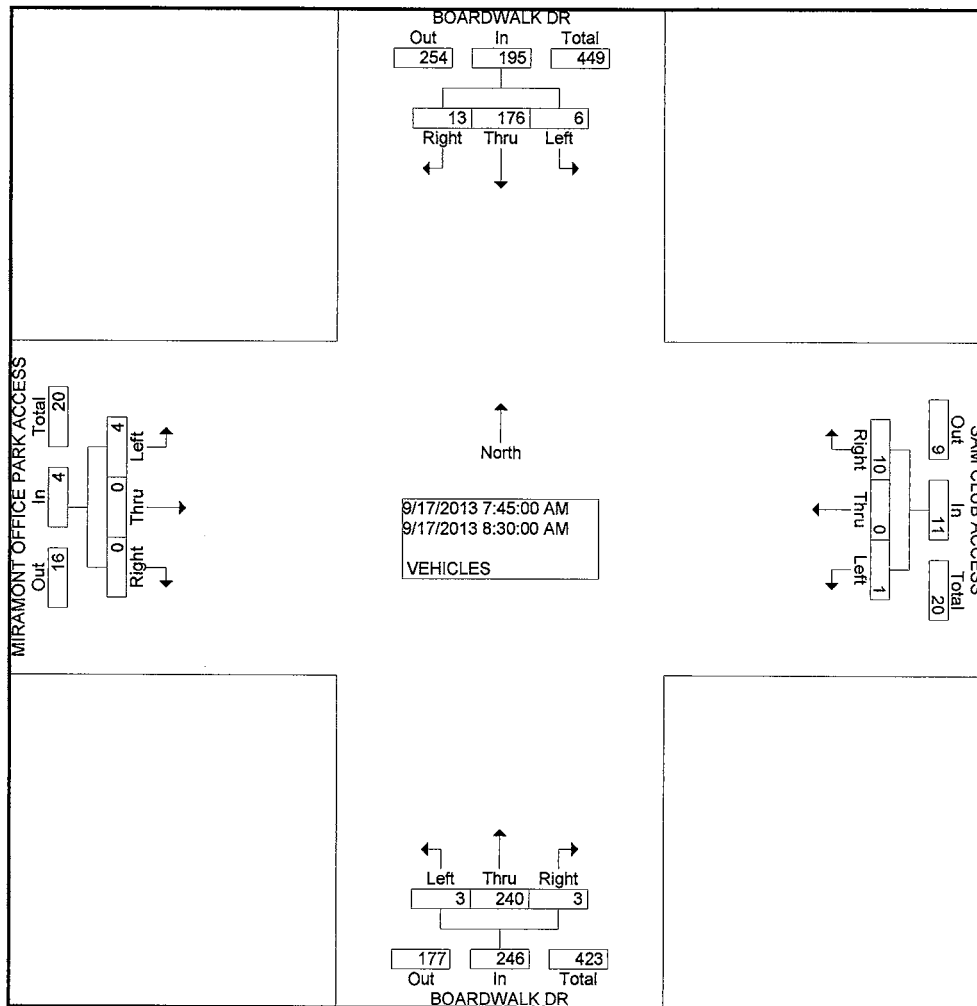
File Name : BROASAMS

Site Code : 00000005

Start Date : 9/17/2013

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	BOARDWALK DR Southbound				SAM CLUB ACCESS Westbound				BOARDWALK DR Northbound				MIRAMONT OFFICE PARK ACCESS Eastbound				Int. Total
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour From 07:00 AM to 09:00 AM - Peak 1 of 1																	
Intersection	07:45 AM																
Volume	6	176	13	195	1	0	10	11	3	240	3	246	4	0	0	4	456
Percent	3.1	90.3	6.7		9.1	0.0	90.9		1.2	97.6	1.2		100.0	0.0	0.0		
07:45	1	53	6	60	0	0	0	0	1	66	0	67	1	0	0	1	128
Volume																	
Peak Factor																	0.891
High Int.	07:45 AM				08:30 AM				07:45 AM				08:00 AM				
Volume	1	53	6	60	1	0	6	7	1	66	0	67	2	0	0	2	
Peak Factor				0.813				0.393				0.918				0.500	



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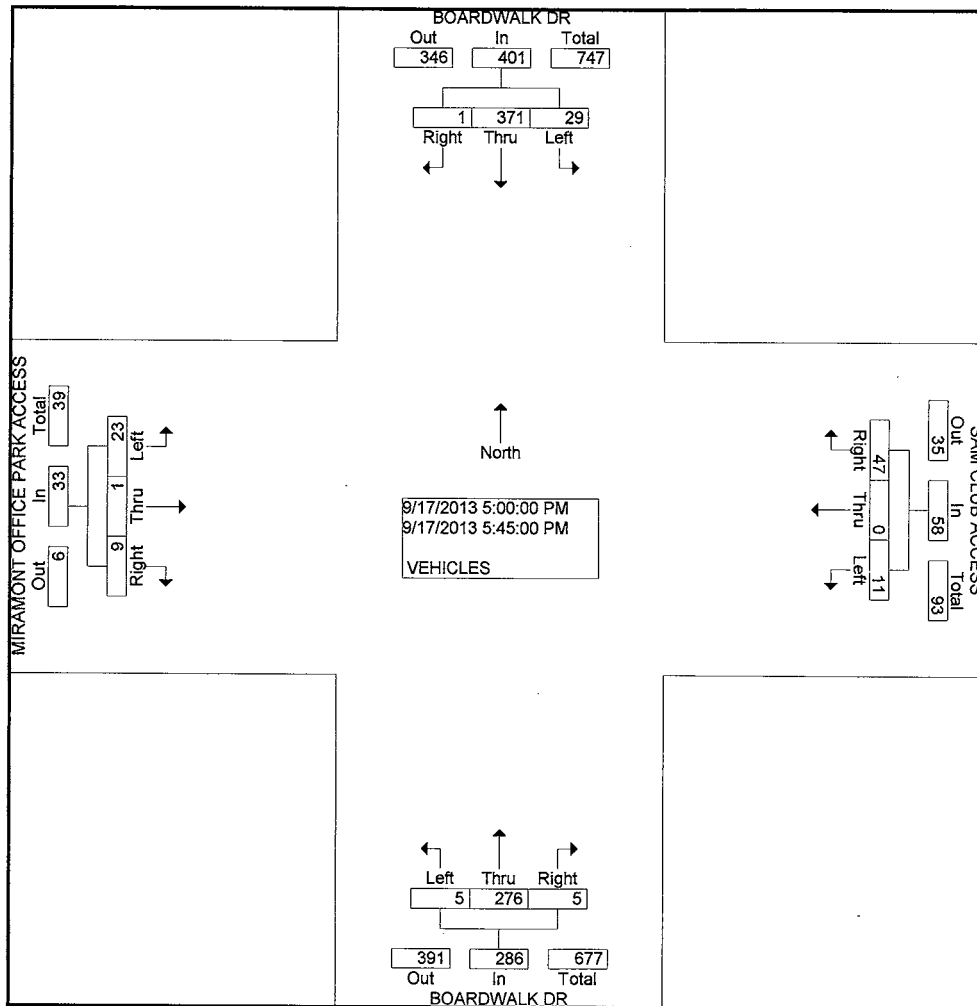
File Name : BROASAMS

Site Code : 00000005

Start Date : 9/17/2013

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	BOARDWALK DR Southbound				SAM CLUB ACCESS Westbound				BOARDWALK DR Northbound				MIRAMONT OFFICE PARK ACCESS Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Intersection	05:00 PM																
Volume	29	371	1	401	11	0	47	58	5	276	5	286	23	1	9	33	778
Percent	7.2	92.5	0.2		19.0	0.0	81.0		1.7	96.5	1.7		69.7	3.0	27.3		
05:30																	
Volume	5	102	0	107	2	0	11	13	1	79	3	83	7	0	0	7	210
Peak Factor																	0.926
High Int.	05:15 PM				05:45 PM				05:30 PM				05:00 PM				
Volume	11	102	0	113	6	0	15	21	1	79	3	83	13	1	4	18	
Peak Factor																	0.458



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1889 YORK STREET
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303-333-7409

N/S STREET: BROADWAY DR
E/W STREET: OAKRIDGE DR
CITY: FORT COLLINS
COUNTY: LARIMER

File Name : BROAOAKR
Site Code : 00000010
Start Date : 9/17/2013
Page No : 1

Groups Printed- VEHICLES

	BROADWALK DR Southbound			OAKRIDGE DR Westbound			BROADWALK DR Northbound			OAKRIDGE DR Eastbound			Int. Total
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
07:00 AM	13	8	1	2	0	9	0	57	3	0	0	0	93
07:15 AM	14	11	0	1	0	12	0	43	3	0	0	0	84
07:30 AM	15	12	0	3	0	19	0	43	5	0	0	0	97
07:45 AM	23	28	2	3	2	20	3	47	6	0	0	0	134
Total	65	59	3	9	2	60	3	190	17	0	0	0	408
08:00 AM	16	21	0	2	1	21	1	40	2	0	0	0	104
08:15 AM	23	20	0	7	0	17	0	40	7	0	0	0	114
08:30 AM	20	24	0	6	0	21	0	40	8	0	1	1	121
08:45 AM	24	23	0	1	0	15	2	49	9	0	0	0	123
Total	83	88	0	16	1	74	3	169	26	0	1	1	462
04:00 PM	22	49	0	9	0	16	2	38	8	1	0	2	147
04:15 PM	20	48	0	11	0	25	0	37	4	0	0	2	147
04:30 PM	19	43	0	13	0	25	0	38	3	1	1	0	143
04:45 PM	20	67	0	10	0	27	0	43	5	0	0	1	173
Total	81	207	0	43	0	93	2	156	20	2	1	5	610
05:00 PM	19	73	0	7	0	29	0	32	8	2	3	3	176
05:15 PM	25	81	0	5	0	24	0	43	6	0	0	0	184
05:30 PM	32	72	0	6	0	34	0	49	8	0	0	0	201
05:45 PM	27	62	0	7	0	31	0	42	4	0	0	0	173
Total	103	288	0	25	0	118	0	166	26	2	3	3	734
Grand Total	332	642	3	93	3	345	8	681	89	4	5	9	2214
Apprch %	34.0	65.7	0.3	21.1	0.7	78.2	1.0	87.5	11.4	22.2	27.8	50.0	
Total %	15.0	29.0	0.1	4.2	0.1	15.6	0.4	30.8	4.0	0.2	0.2	0.4	

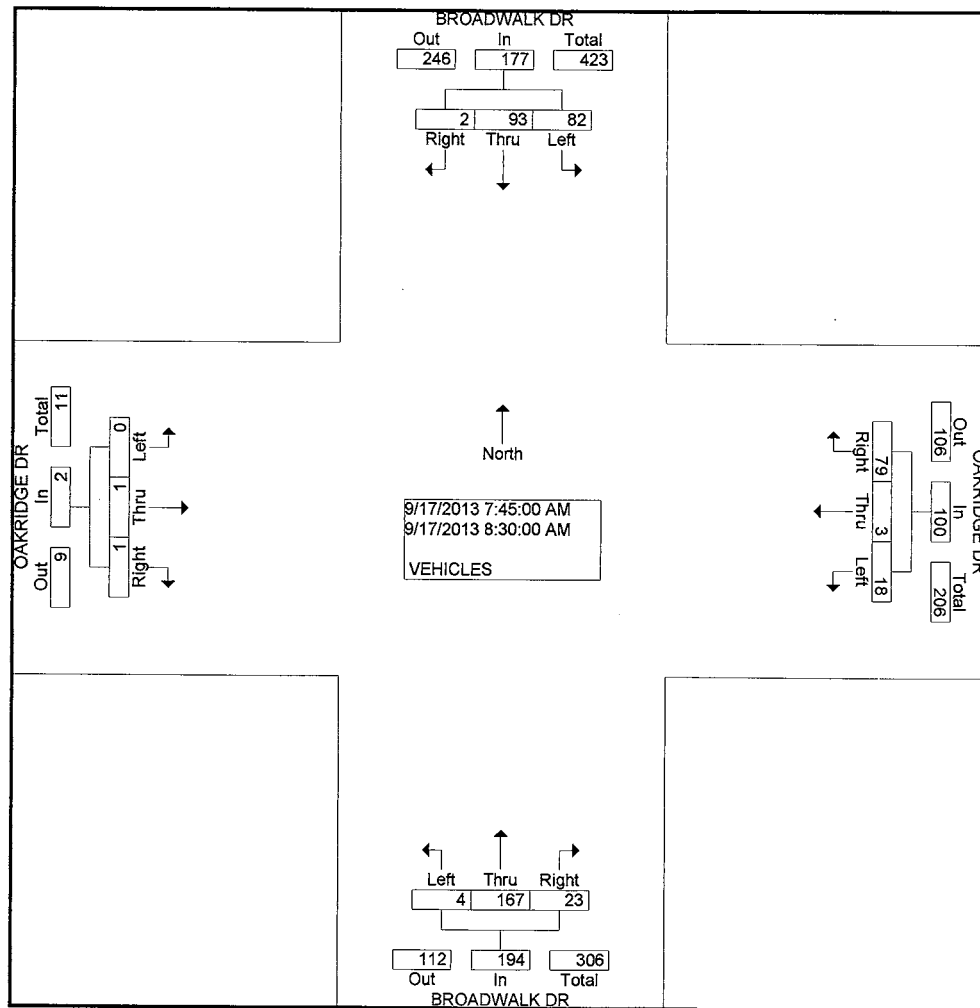
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File Name : BROAOAKR
Site Code : 00000010
Start Date : 9/17/2013
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	BROADWALK DR Southbound				OAKRIDGE DR Westbound				BROADWALK DR Northbound				OAKRIDGE DR Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour From 07:00 AM to 09:00 AM - Peak 1 of 1																	
Intersection	07:45 AM																
Volume	82	93	2	177	18	3	79	100	4	167	23	194	0	1	1	2	473
Percent	46.3	52.5	1.1		18.0	3.0	79.0		2.1	86.1	11.9		0.0	50.0	50.0		
07:45																	
Volume	23	28	2	53	3	2	20	25	3	47	6	56	0	0	0	0	134
Peak Factor																	0.882
High Int.	07:45 AM				08:30 AM				07:45 AM				08:30 AM				
Volume	23	28	2	53	6	0	21	27	3	47	6	56	0	1	1	2	
Peak Factor																	
	0.835				0.926				0.866				0.250				



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Site Code : 00000010
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	BROADWALK DR Southbound				OAKRIDGE DR Westbound				BROADWALK DR Northbound				OAKRIDGE DR Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Intersection	05:00 PM																
Volume	103	288	0	391	25	0	118	143	0	166	26	192	2	3	3	8	734
Percent	26.3	73.7	0.0		17.5	0.0	82.5		0.0	86.5	13.5		25.0	37.5	37.5		
05:30																	
Volume	32	72	0	104	6	0	34	40	0	49	8	57	0	0	0	0	201
Peak Factor																	0.913
High Int.	05:15 PM				05:30 PM				05:30 PM				05:00 PM				
Volume	25	81	0	106	6	0	34	40	0	49	8	57	2	3	3	8	
Peak Factor	0.922				0.894				0.842				0.250				

